

Lucent Technologies Bell Labs Innovations

DEFINITY[®] Enterprise Communications Server

Application Notes for Type Approval

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Part 15: Class A Statement. This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio-frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference, in which case the user will be required to correct the interference at his own expense.

Canadian Department of Communications (DOC) Interference Information

This digital apparatus does not exceed the Class A limits for radio noise emissions set out in the radio interference regulations of the Canadian Department of Communications.

Le Présent Appareil Nomérique n'émet pas de bruits radioélectriques dépassant les limites applicables aux appareils numériques de la class A préscrites dans le reglement sur le brouillage radioélectrique édicté par le ministére des Communications du Canada.

Trademarks

See the preface of this document.

European Union Declaration of Conformity

The "CE" mark affixed to the DEFINITY® equipment described in this book indicates that the equipment conforms to the following European Union (EU) Directives:

- Electromagnetic Compatibility (89/336/EEC)
- Low Voltage (73/23/EEC)
- Telecommunications Terminal Equipment (TTE) i-CTR3 BRI and i-CTR4 PRI

For more information on standards compliance, contact your local distributor.

Comments

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Acknowledgment

This document was prepared by the Product Documentation Development, Lucent Technologies, Denver, CO.

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Application Notes for Type Approval Introduction

Application Notes for Type Approval

Introduction

The Application Note for Type Approval contains information concerning the DEFINITY Enterprise Communications Server (ECS) and how it should be configured and administered to meet in-country type approval requirements. By following these guidelines, you can set up a system that allows basic analog and digital calls on Central Office (CO), Direct Inward Dialing (DID), and Tie trunks and provides basic interworking with the Public Telephone Network. Also noted are unique features available when certain country codes are administered.

This book reflects the administration of DEFINITY ECS Release 7 features and all incremental releases up to and including Release 7.1. It is organized as follows:

- A general overview presents certain system-wide options (such as tone plans and country codes)
- Specific sections outline the administration and configuration items pertinent to each country

Each country-specific section provides a brief background on key aspects of that country's Public Network (PN) such as major analog and digital standards, availability of PPM, dial-pulse ratios, and so on. Next, it provides information to help you configure the switch for connection to in-country analog and digital Public Network Trunks (PNT) and selection of proper call-progress tones provided by DEFINITY ECS.

To fully implement DEFINITY ECS, refer to the *DEFINITY ECS Administrator's Guide* for more in-depth information.

Application Notes for Type Approval General Overview

General Overview

This section presents certain system-wide options (such as tone plans and country codes). Throughout the tables in this document, circuit pack apparatus codes marked with ">" are those preferred and expected to ship with new systems. They are also the new circuit packs shipped to provide upgrades or additions to existing systems. Those marked with "#" are planned to be preferred, but pending Type Approval. The other codes shown have been used in the recent past and are also acceptable.

Speech Synthesis Circuit Packs

Feature	TN725B	TN457	TN433
Automatic Wakeup Call (in Hotel/Motel Application)	Yes	No	No
Auto Circuit Assurance	Yes	Yes	Yes
Leave Word Calling	Yes	Yes	Yes
Visually-Impaired Attendant Service (VIAS)	No	Yes	Yes
A-law	No	Yes	Yes
Mu-law	Yes	Yes	Yes

Table 1. Speech Synthesis CP Capabilities

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Application Notes for Type Approval *General Overview*

Processing and Environmental CPs

Table 2. Cabinet, Power, and Ring Generator Summary

Country	Cabinet Type and Power	AC Power Voltage and Frequency	Ring Generator
U.S. & Canada	GAC-MCC AC-MCC DC-MCC AC-SCC DC-SCC AC-CSCC AC-CMC	120V/60Hz 208V/60Hz 240V/60Hz	20Hz
Argentina	GAC-MCC DC-MCC AC-SCC AC-CSCC AC-CMC	220V/50Hz	20Hz
Australia	GAC-MCC DC-MCC AC-SCC DC-SCC AC-CSCC AC-CMC	240V/50Hz	20Hz 25Hz
Belgium Luxembourg	GAC-MCC DC-MCC AC-SCC AC-CSCC AC-CSCC AC-CMC	220V/50Hz	25Hz
Bolivia	GAC-MCC DC-MCC AC-SCC AC-CSCC AC-CMC	220V/50Hz	20Hz
Brazil	GAC-MCC AC-MCC DC-MCC AC-SCC DC-SCC AC-CSCC AC-CSCC	127V/60Hz 220V/60Hz	25Hz

Country	Cabinet Type and Power	AC Power Voltage and Frequency	Ring Generator
Chile	GAC-MCC AC-MCC DC-MCC AC-SCC DC-SCC AC-CSCC AC-CSCC	220V/50Hz	20Hz
China	GAC-MCC DC-MCC AC-SCC DC-SCC AC-CSCC AC-CSCC	220V/50Hz	20Hz
Columbia	GAC-MCC DC-MCC AC-SCC DC-SCC AC-CSCC AC-CMC	120V/50Hz 240V/50Hz	20Hz
Costa Rica	GAC-MCC AC-MCC DC-MCC AC-SCC DC-SCC AC-CSCC AC-CSCC AC-CMC	120V/60Hz 240V/60Hz	20Hz
Czech Republic	GAC-MCC DC-MCC AC-SCC AC-CSCC AC-CSCC	220V/50Hz	25Hz
Ecuador	GAC-MCC AC-MCC DC-MCC AC-SCC DC-SCC AC-CSCC AC-CMC	120V/60Hz 240V/60Hz	20Hz

Continued on next page

Country	Cabinet Type and Power	AC Power Voltage and Frequency	Ring Generator
France	GAC-MCC DC-MCC AC-SCC AC-CSCC AC-CMC	220V/50Hz	50Hz
Germany	GAC-MCC DC-MCC AC-SCC AC-CSCC AC-CMC	220V/50Hz	25Hz
Greece	GAC-MCC DC-MCC AC-SCC AC-CSCC AC-CMC	220V/50Hz	20Hz
Hong Kong	GAC-MCC DC-MCC AC-SCC DC-SCC AC-CSCC AC-CMC	200V/50Hz	20Hz
Hungary	GAC-MCC DC-MCC AC-SCC AC-CSCC AC-CMC	220V/50Hz	20Hz
India	GAC-MCC DC-MCC AC-SCC AC-CSCC AC-CMC	220V/50Hz	25Hz
Indonesia	GAC-MCC DC-MCC AC-SCC DC-SCC AC-CMC	220V/50Hz	25Hz

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	Cabinat Trung and	AC Dovisor Voltage	Dina
Country	Cabinet Type and Power	AC Power Voltage and Frequency	Ring Generator
Israel	GAC-MCC DC-MCC AC-SCC AC-CSCC AC-CMC	230V/50Hz	
Italy(Italtel)	GAC-MCC DC-MCC AC-SCC AC-CSCC AC-CMC	220V/50Hz	20Hz
Italy(Lucent)	GAC-MCC DC-MCC AC-SCC AC-CSCC AC-CMC	220V/50Hz	25Hz
Japan	GAC-MCC AC-MCC DC-MCC AC-SCC DC-SCC AC-CSCC AC-CMC	100V/50Hz 100V/60Hz 200V/50Hz 200V/60Hz	20Hz
Macedonia	GAC-MCC AC-MCC DC-MCC AC-SCC DC-SCC AC-CSCC	220V/50Hz	20Hz
Malaysia	GAC-MCC DC-MCC AC-SCC DC-SCC AC-CSCC AC-CMC	240V/50Hz	20Hz

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Country	Cabinet Type and Power	AC Power Voltage and Frequency	Ring Generator
Mexico	GAC-MCC AC-MCC DC-MCC AC-SCC DC-SCC AC-CSCC AC-CMC	127V/60Hz 220V/60Hz	20Hz
Netherlands	GAC-MCC DC-MCC AC-SCC AC-CSCC AC-CMC	220V/50Hz	25Hz
New Zealand	GAC-MCC DC-MCC AC-SCC DC-SCC AC-CSCC AC-CMC	240V/50Hz	20Hz
Panama	GAC-MCC AC-MCC DC-MCC AC-SCC DC-SCC AC-CSCC AC-CMC	120V/60Hz 208V/60Hz 240V/60Hz	20Hz
Philippines	GAC-MCC DC-MCC AC-SCC DC-SCC AC-CMC	220V/50Hz	25Hz
Poland	GAC-MCC DC-MCC AC-SCC DC-SCC AC-CMC	220V/60Hz	20Hz / 25Hz

Continued on next page

Country	Cabinet Type and Power	AC Power Voltage and Frequency	Ring Generator
Republic of Korea	GAC-MCC DC-MCC AC-SCC DC-SCC AC-CMC	110V/60Hz 220V/60Hz	20Hz
Russia	GAC-MCC DC-MCC AC-SCC DC-SCC AC-CSCC AC-CMC	220V/50Hz	20Hz
Saudi Arabia	GAC-MCC AC-MCC DC-MCC AC-SCC DC-SCC AC-CSCC AC-CSCC	110V/60Hz 220V/50Hz	20Hz
Singapore	GAC-MCC DC-MCC AC-SCC DC-SCC AC-CSCC AC-CSCC	230V/50Hz	20Hz
Slovak Republic	GAC-MCC DC-MCC AC-SCC DC-SCC AC-CSCC AC-CMC	220V/50Hz	25Hz
South Africa	GAC-MCC DC-MCC AC-SCC DC-SCC AC-CSCC AC-CSCC AC-CMC	220-230V/50Hz	25Hz

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	_	-	
Country	Cabinet Type and Power	AC Power Voltage and Frequency	Ring Generator
Spain	GAC-MCC DC-MCC AC-SCC AC-CSCC AC-CSCC AC-CMC	220V/50Hz	25Hz
Sri Lanka	GAC-MCC DC-MCC AC-SCC AC-CSCC AC-CSCC	220V/50Hz	25Hz
Switzerland	DC-MCC AC-SCC AC-CSCC AC-CMC	220V/50Hz	25Hz
Taiwan	GAC-MCC AC-MCC DC-MCC AC-SCC DC-SCC AC-CSCC AC-CSCC AC-CMC	110V/60Hz 220V/60Hz	20Hz
Thailand	GAC-MCC DC-MCC AC-SCC DC-SCC AC-CSCC AC-CSCC	220V/50Hz	20Hz
Trinidad & Tobago	AC-MCC DC-MCC AC-SCC DC-SCC AC-CSCC AC-CMC	120V/60Hz	20Hz

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Country	Cabinet Type and Power	AC Power Voltage and Frequency	Ring Generator
United Kingdom	GAC-MCC DC-MCC AC-SCC AC-CSCC AC-CSCC	240V/50Hz	25Hz
Venezuela	GAC-MCC AC-MCC DC-MCC AC-SCC DC-SCC AC-CSCC AC-CSCC AC-CMC	120V/60Hz 240V/60Hz	20Hz
Vietnam	GAC-MCC DC-MCC AC-SCC DC-SCC AC-CSCC AC-CSCC AC-CMC	230V/50Hz	20Hz

Table 3.Equipment and Software Summary for DC Powered
Multi-Carrier Cabinet (DC-MCC)

Equipment Codes	
J58890A	Multi-Carrier Cabinet
Equipped With:	
J58890CF	-48 Volt DC Power Distribution Unit
ED67077	Fan & Filter Assembly
Optionally Equipped With:	
J58890AF	Expansion Control Carrier
J58890AH	Control Carrier

Table 3. Equipment and Software Summary for DC Powered Multi-Carrier Cabinet (DC-MCC) — Continued

Equipment Codes	
J58890AJ	Duplicated Control Carrier
J58890AP	Control Carrier (Processor) Carrier (G3r)
J58890BB	Port Carrier
J58890SA	Switch Node Carrier (G3r)
J58890R	Enhanced DC Power System Cabinet

Carriers equipped with one 649A Power Supply, except J58890SA which is equipped with two.

Table 4. Equipment and Software Summary for AC Powered Multi-Carrier Cabinet (AC-MCC)

Equipment Codes	
J58890A	Multi-Carrier Cabinet
Equipped With:	
J58890CE	60Hz 120/208-240 Volt AC Power Distribution Unit
ED67077	Fan & Filter Assembly
Optionally Equipped With:	
J58890AF	Expansion Control Carrier
J58890AH	Control Carrier
J58890AJ	Duplicated Control Carrier
J58890AP	Control Carrier (Processor) Carrier (G3r)
J58890BB	Port Carrier
J58890SA	Switch Node Carrier (G3r)
Carriers equipped with 631DA	and 631DB power supplies except

Carriers equipped with 631DA and 631DB power supplies except J58890SA which is equipped with two 631DA.

Table 5. Equipment and Software Summary for DC Powered Single Carrier Cabinet (DC-SCC) Stack

Equipment Codes	
J58890H	Single Carrier Port Cabinet
J58890L	Single Carrier Control Cabinet
J58890M	Duplicated Single Carrier Control Cabinet
J58890N	Expansion Single Carrier Control Cabinet
Equipped With:	
676B	Power Supply
Optionally Equipped With:	
J58890R	Enhanced DC Power System Cabinet
J58890CG	DC Power Distribution Unit

General Overview

Table 6. Equipment and Software Summary for AC Powered Single Carrier Cabinet (AC-SCC) Stack

Equipment Codes	
J58890H	Single Carrier Port Cabinet
J58890L	Single Carrier Control Cabinet
J58890M	Duplicated Single Carrier Control Cabinet
J58890N	Expansion Single Carrier Control Cabinet
Equipped With:	
WP-91153	Power Supply
1217A	Power Supply

Table 7. Equipment and Software Summary for AC Powered Compact Carrier Cabinet (AC-CSCC)

Equipment Codes	
J58890S	Compact Single Carrier Cabinet (not supported in Release 7 and later)
Equipped With:	
WP-90510	Power Supply

Equipment Codes	
J58890A	Multi-Carrier Cabinet
Equipped With:	
J58890CH	50-60Hz 200-240 Volt AC/DC Power Distribution Unit (AC input with rectifiers to convert to DC distribution within cabinet)
ED67077	Fan & Filter Assembly
Optionally Equipped With:	
J58890AF	Expansion Control Carrier
J58890AH	Control Carrier
J58890AJ	Duplicated Control Carrier
J58890AP	Control Carrier (Processor) Carrier (G3r)
J58890BB	Port Carrier
J58890SA	Switch Node Carrier (G3r)

Table 8. Global AC Powered Multi-Carrier Cabinet (GAC-MCC)

Carriers equipped with one 649A Power Supply, except J58890SA which is equipped with two.

Table 9. AC Powered Compact Modular Cabinet (AC-CMC)

Equipment Codes	
J58890T	Compact Modular Cabinet

Each equipped with 650A power supply.

Table 10.Software Codes

Equipment Codes	
J58890TF	Programmed Tapes DEFINITY G3r, R5r, R6r, R7r
J58890TG	Memory Cards DEFINITY G3i, G3si, G3s, G3csi, G3vs, R6si, R6vs/si, R5vs/si, R6vs/si/csi, R7csi/si, or MCU
J58890TH	Floppy Diskettes DEFINITY G3i, G3si, G3s, G3csi, G3vs, R5vs/si, R6vs/si/csi, R77csi/si, or MCU
J58890TN	CD-ROM for DEFINITY One

Туре	Code	Name
G3r Control Ci	rcuit Packs (G3V1	, G3V1.1, G3V2, G3V3, G3V4, R5, R6)
Processor	TN1648	System Access - Maintenance
	UN330B	Duplication Interface
	UN331B	Processor
	TN1650B	Memory (32MB)
	TN1655	Packet Interface
	UN332	Mass Storage System/Network Contro
	TN1656	Tape Drive
	TN1657	Disk Drive
	AHF111	Processor Expansion Bus Terminator
	CFY1B	Current Limiter
Switch Node	TN572	Switch Node Clock
	TN573	Switch Node Interface
	AHF105	Switch Node Bus Terminator
G3vs, G3s, G3	si & G3i Control (Circuit Packs (G3V1.1, G3V2, G3V3, G3V4)
Processor	TN786B	Processor
	CPP1	Memory (Expansion)
	TN772	Duplication Interface
	TN777B	Network Control
	TN778	Packet Control
	TN765	Processor Interface
	TN756	Tone Detector/Generator
	982LS	Current Limiter
R5vs, R5si-8M	B & R5si-12MB, R	86vs/si-16MB Control Circuit Packs
Processor	TN790	Processor
	TN772	Duplication Interface
	TN777B	Network Control
	TN778	Packet Control

Table 11. Control, Network, and Miscellaneous Hardware

Туре	Code	Name		
	TN765	Processor Interface		
	982LS	Current Limiter		
R6csi Control	Circuit Pack			
Processor	TN798	Processor		
R7si Control (Circuit Pack			
Processor	TN798	Processor		
	TN792	Duplication Interface		
	TN794	Network Control/Packet Interface		
	TN765	Processor Interface (only required if system has BX.25 interfaces)		
	982LS	Current Limiter		
R7csi Control	Circuit Pack			
Processor TN798		Processor		
Other Circuit	Packs and Circuit Mo	dules		
Power	631DA	MCC AC Power Unit (+5V)		
	631DB	MCC AC Power Unit (-48/-5V)		
	644A	MCC DC Power Unit (+5V)		
	645B	MCC DC Power Unit (-48/-5V)		
	649A	MCC DC Power Unit (-48/-5/+5V)		
	650A	CMC AC Power Unit (-48/-5/+5/+12V) 20, 25, 50Hz Ringer/Neon		
	WP-90510 L4	CSCC AC Power Unit (+5/-5/-48V) 20Hz Ringer		
	WP-90510 L5-25	CSCC AC Power Unit (+5/-5/-48V) 25Hz Ringer		
	WP-90510 L6-20	CSCC AC Power Unit (+5/-5/-48V) 20Hz Ringer		
	WP-91153 L3	SCC AC Power Unit (+5/-5/-48V) 20H: Ringer		
	WP-91153 L4-25	SCC AC Power Unit (+5/-5/-48V) 25Hz Ringer		

Table 11. Control, Network, and Miscellaneous Hardware — Continued

Туре	Code	Name		
	1217A	Global SCC AC Power Unit		
	676B	SCC DC Power Unit (+5/-5/-48V)		
	TN755B	Neon Power		
System/Network	TN766	Expansion Interface		
	TN570B	Expansion Interface		
	TN574	DS1 Converter		
	TN1654	DS1 Converter (T1/E1)		
	TN755B	Maintenance (EPN)		
	TN771D	Maintenance/Test		
	TN2202	50Hz Ring Generator (France)		
	TN2305	ATM Interface, Multi Mode		
	TN2306	ATM Interface, Single Mode		
	TN799	Control LAN		
Other	105B	Isolation Data Interface (IDI)		
	116A	Isolation Data Interface (IDI)		
	120A	Integrated Channel Service Unit (ICSU) (T1 only)		
	122A	Music-On-Hold Interface		
	124D1	MCC 20Hz Ring Generator		
	130A1	MCC 25Hz Ring Generator		
	700A	DS1 Loopback Jack (T1 only)		
	808A	Emergency Transfer Panel		
	888B	DS1 75 Ohm Coax Adapter		
	9823A	Lightwave Transceiver (multi-mode shortwave)		
	9823B	Lightwave Transceiver (multi-mode longwave)		
	300A	Fiber Transceiver (single mode)		
	AHF110	SCC TDM/LAN Bus Terminator		

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Туре	Code	Name
	CFY1B	Current Limiter
	ZAHF4	MCC TDM/LAN Bus Terminator
	TN556B	ED1E-546 DEFINITY AUDIX (386 MFB)
	TN567	ED1E-546 DEFINITY AUDIX (486 MFB)
	TN801	J58890MA LAN Gateway R2
	TN2169	ED1E-546 DEFINITY AUDIX Alarm Interface
	TN2170	ED1E-546 Ethernet/Alarm Interface
	TN2208	ED1E-546 LAN Gateway R1 (486 MFB)
	TN802	J58890MA-1, List 10, Internet Protocol Trunk

Table 11. Control, Network, and Miscellaneous Hardware — Continued

DEFINITY ECS supports administration of circuit pack operating parameters through the selection of country codes listed in <u>Table 12</u>. Each code corresponds to a pre-defined set of (one or more) programmable hardware or firmware attributes.

Table 12.	Country Code	Assignments
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Administered			
Code	Country		
1	U.S. & Canada		
2	Australia		
3	Japan		
4	Italy		
5	Netherlands		
6	Singapore		
7	Mexico		
8	Belgium & Luxembourg		
9	Saudi Arabia		
10	United Kingdom		
11	Spain		
12	France		
13	Germany & South Africa		
14	Czech Republic & Slovak Republic		
15	Russia		
16	Argentina		
17	Greece		
18	China		
19	Hong Kong		
20	Thailand		
21	Macedonia		
22	Poland		
23	Brazil (Or, continue to use country code 16)		
24	Nordic (Norway, Sweden, Iceland, Denmark)		

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Recommended Country Codes

<u>Table 13</u> provides a summary of recommended Country Codes. If a Country Code value is not assigned to a particular country, (for example, no Country Code has been assigned to Venezuela), review <u>Table 13</u> to determine the appropriate code. Also, set the Tone Detector Precision and Tone Detector Mode according to <u>Table 13</u>.

Table 13. Recommended Country Codes

Country	Tone Gen	ISDN	Digital XMIT	Trunk Group Country**	Analog Ring Cadence	Tone Det. Precision	Tone Det. Mode
U.S. & Canada	1	1	1	1	1	Precise	1
Argentina & Brazil	16	16	16	16***	16	Broadband	1
Australia	2	2	2	2	2	Precise	2
Belgium & Luxembourg	8*	8	5	8	8	Medium	5
China	18	18	18	18	18	Medium	4
Chile	1	12a	1	1	1	Precise	6
Costa Rica	1	12a	1	1	1	Precise	6
Czech Republic & Slovak Republic	14*	14	14	14	14	Medium	4
France	12	12	12	12	12	Precise	4
Germany & South Africa	13*	13^	13	13	13	Medium	4
Greece	17	17	17	17	17	Broadband	1
Hong Kong	19	19	19	19	19	Precise	1
Hungary	-		1		1	Medium	1
Italy	4	4	4	4	4	Precise	1
Japan	3	3	3	3	3	Precise	1
Macedonia	21	21	21	21	21	Medium	4
Mexico	7*	7	7	7	7	Precise	1
Netherlands	5*	5	5	5	5	Medium	5

Application Notes for Type Approval *General Overview*

Country	Tone Gen	ISDN	Digital XMIT	Trunk Group Country**	Analog Ring Cadence	Tone Det. Precision	Tone Det. Mode
Nordic							
New Zealand	2	ETSI	2	2	2	Precise	2
Poland	22	22	22	22	22	Medium	1
Russia	15	15	15	15	15	Medium	4
Saudi Arabia	9	9	9	9	9	Precise	1
Singapore	6*	6	6	6	6	Precise	1
Spain	11*	11	11	11	11	Precise	4
Taiwan	1	3	1	1	1	Precise	1
Thailand	20	20	20	20	20	Medium	4
UK OTR001	10	10	10B	10	-	Precise	3
UK Non-OTR001	10	10	10A	10	-	Precise	3
Venezuela	1	-	-	-	5	Precise	1

Table 13. Recommended Country Codes — Continued

- * Needs additional customized tone administration to meet country requirements. (This administrative detail is covered in country-specific sections.)
- ** These country codes select the appropriate FW protocols on the various analog CO/DID trunks. These values also need to be duplicated on the DS1 Administration. "Country Protocol" field for the appropriate FW protocol to be selected on the TN464x.
- *** To enable Block Collect Call in Brazil, use Country Code 23.
- Feature is not provided in this country or hardware does not support administrable selection. Accept the default in these cases.
- ^ Protocol version selection of "a" corresponds to 1TR6 (Germany Specific) and "b" corresponds to E-DSS1 (Euro ISDN). Protocol version selection depends on the type of public network service purchased.

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Table 14 provides expanded information for the Tone Det. Mode field in Table 13.

Code	Mode	
1	Italy	
2	Australia	
3	United Kingdom	
4	Standard Wideband	
	(345 - 625Hz, - 55dB)	
5	Broad Wideband	
	(300 - 1190Hz, - 35dB)	
6	USA	

Table 14. Available Tone Detection Modes

Country-Specific Configuration and Administration

The following sections present information on how to administer DEFINITY ECS for each of the supported countries. Values shown should actually be entered into fields on the specified screens.

> NOTE:

In the tables that follow for each country, circuit pack (CP) apparatus codes marked with ">" are those preferred and expected to ship with new systems. They are also the new CPs shipped to provide upgrades or additions to existing systems. Those marked with "#" are planned to be preferred, but pending Type Approval. The other codes shown have been used in the recent past and are also acceptable.

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Application Notes for Type Approval *Argentina*

Table 15 shows the recommended circuit packs.

Table 15. Recommended and Available CPs in Argentina

Equipment	Equipment Type
Cabinet Type & Power	GAC-MCC DC-MCC AC-SCC AC-CSCC AC-CMC
AC Power Voltage & Freq	220V/50Hz
Ring Generator	20Hz
Tone Detector	>TN2182B >TN744D TN748D TN748C
Tone Clock	>TN2182B TN780
R2MFC Circuit	>TN744D TN744B
Speech Synthesizer	>TN725B
Call Classifier	>TN744D
Announcement	TN750C TN750B
Analog DID Trunk	n/a
Analog CO Trunk (No PPM)	>TN747B
Analog CO Trunk (w/PPM)	n/a
4 Wire Tie Trunk	>TN760Dv15
2 Wire Tie Trunk	n/a
Auxiliary Trunk	>TN763D
Digital CO/DID Trunk	>TN464F TN464E TN464D
Digital Tie Trunk	>TN464F TN464E TN464D
Digital PRI CO Trunk	>TN464F TN464E TN464D
Digital BRI Trunk	
Digital Converter PRI-DASS	
Digital Converter PRI-DPNSS	
Digital Converter PRI-BRI	
8 Port Analog Line	TN742
16 Port Analog Line	>TN746B
4 Wire Digital Line	>TN754B

Equipment	Equipment Type
2 Wire Digital Line	#TN2224 >TN2181
Data Line	>TN726B
BRI-U Line	
BRI-ST Line	

Table 15. Recommended and Available CPs in Argentina — Continued



A-law companding is the national standard in Argentina. However, Mu-law is used internally to the system for service circuits and analog lines. Network interfaces are configured as A-law if required.

NOTE:

TN760Dv15 currently is not available from Manufacturing. If needed, contact the ITAC.

Feature Administration

Argentina

The screen displays shown in this section were effective the date the type approval was awarded. The screens may have changed since that date.

Only those feature-related parameters that may have a Type Approval or basic connectivity implication for a particular country are listed here.

ARS/AAR Administration

To enable ARS administration, on the System-Parameters Customer-Options screen, set the ARS field to **y**. You also should check all ARS/AAR defaults. All default ARS analysis codes are deleted before dialed strings are added for routing when DEFINITY is installed outside of North America. Be aware that the default for the 10 digits cause dialing problems. In particular, the following call types (appear as ARS/AAR defaults) typically are not used in non-North American ARS/AAR tables:

fnpa:	North American numbers with an area code.	
hnpa:	North American numbers without an area code.	
SVC:	North American numbers of the screen "x11".	

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Lucent recommends only the following call types be used outside North America:

int:	For all international numbers.
natl:	For all national PN numbers.
pubu:	For all other external (that is, not extensions) numbers.

System Parameter Administration

Feature-Related System Parameters

Page 1 of 6 FEATURE-RELATED SYSTEM PARAMETERS Trunk-to-Trunk Transfer: all Coverage - Subsequent Redirection No Answer Interval: 2 Coverage - Caller Response Interval (seconds): 4 Keep Held SBA at Coverage Point? y Automatic Callback - No Answer Timeout Interval (rings): 3 Call Park Timeout Interval (minutes): 10 Off-Premises Tone Detect Timeout Interval (seconds): 20 AAR/ARS Dial Tone Required? y Music/Tone on Hold: none Music (or Silence) on Transferred Trunk Calls? no DID/Tie/ISDN Intercept Treatment: attd Internal Automatic Answer for Attendant Extended Calls? n Automatic Circuit Assurance (ACA) Enabled? n

Page 2 of 6 FEATURE-RELATED SYSTEM PARAMETERS LEAVE WORD CALLING PARAMETERS Maximum Number of Messages Per Station (when MSA not in service):10 Stations with System-wide Retrieval Permission (enter extension) 1: 2: 3: 4: 5: 6: 7: 8: 9: 10: SEE USER DOCUMENTATION BEFORE CHANGING TTI STATE WARNING! Terminal Translation Initialization (TTI) Enabled? n External Coverage Treatment for Transferred Incoming Calls? n SECURITY VIOLATION NOTIFICATION (SVN) PARAMETERS HAVE MOVED TO THE SYSTEM-PARAMETERS SECURITY SCREEN

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                                                                 Page
                         FEATURE-RELATED SYSTEM PARAMETERS
                     Reserved Slots for Attendant Priority Queue: 5
                                      Time before Off-hook Alert: 10
                          Emergency Access Redirection Extension:
                                  Service Observing Warning Tone? y
            Number of Emergency Calls Allowed in Attendant Queue: 5
                                            Call Pickup Alerting? n
               Deluxe Paging and Call Park Timeout to Originator? n
      Controlled Outward Restriction Intercept Treatment: tone
     Controlled Termination Restriction (Do Not Disturb): tone
               Controlled Station to Station Restriction: tone
AUTHORIZATION CODE PARAMETERS
                                     Authorization Codes Enabled?
                                       Authorization Code Length:
                          Authorization Code Cancellation Symbol: #
                                         Attendant Time Out Flag? n
                                      Display Authorization Code? y
```

(Page	e 4	of	6
	FEATURE-RELATED SYSTEM PARAMETERS			
	SYSTEM PRINTER PARAMETERS System Printer Extension: Lines Per	: Page	e: 6	0
	SYSTEM-WIDE PARAMETERS Switch Name:			
	CALL CENTER SYSTEM PARAMETERS Direct Agent Announcement Extension: Direct Agent Announcement	Dolo		
	Direct Agent Announcement Extension: Direct Agent Announcement Extension: Direct Agent Announcement Extension: Direct Agent Announcement Converse Delay Data1: 0 Prompting Timeout (Data Data	2: 2 F: 7	0
	CALL MANAGEMENT SYSTEM PARAMETERS BCMS/VuStats Measurement Interval: hour BCMS/VuStats Abandon Call Timer (seconds): Validate Logi ACD Login Identification Length: Adjunct CMS Re			
	MALICIOUS CALL TRACE PARAMETERS Apply MCT Warning Tone? n MCT Voice Recorder Trunk	Grouj	.	

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FEATURE-RELATED SYSTEM PARAMETERS

Public Network Trunks on Conference Call: 5 Auto Start? n

Conference Parties with Public Network Trunks: 6 Auto Hold? n

Conference Parties without Public Network Trunks: 6 Attendant Tone? y

Night Service Disconnect Timer (seconds): 180 Bridging Tone? n

Short Interdigit Timer (seconds): 3 Conference Tone? n

Unanswered DID Call Timer (seconds): 30

DID Busy Treatment: tone

Allow AAR/ARS Access from DID/DIOD? n

DISTINCTIVE AUDIBLE ALERTING

Internal: 1 External: 2 Priority: 3

Attendant Originated Calls: external
```

Page 6 of 6 FEATURE-RELATED SYSTEM PARAMETERS Pull Transfer: n Update Transferred Ring Pattern? n Outpulse Without Tone? y Wait Answer Supervision Timer? n Repetitive Call Waiting Tone? n Allow Conference via Flash? y Vector Disconnect Timer (min): Network Feedback During Tone Detection? y Hear Zip Tone Following VOA? n Intercept Treatment On Failed Trunk Transfers? n Station Tone Forward Disconnect: silence Level Of Tone Detection: precise RECALL TIMING Flashhook Interval? y Upper Bound (msec): 1000 Lower Bound (msec): 200 ENHANCED DCS Enhanced DCS Enabled? n Apply Intercept Locally? y Enforce PNT-to-PNT Restrictions? n

Application Notes for Type Approval *Argentina*

System Parameter Country-Options Administration

(Page 1 of 7
	SYSTEM PARAMETERS	COUNTRY-OPTIONS
	Companding Mode: Mu-Law 440Hz PBX-dial Tone? n Digital Loss Plan: 1 Analog Ringing Cadence: 1	Base Tone Generator Set: 1 440Hz Secondary-dial Tone? y
	TONE DETECTION PARAMETERS Tone Detection Mode: 6 Interdigit Pause: short	

NOTE:

Companding Mode: A-law is the national standard. Mu-law is used internal to the system for service circuits and analog lines. Network interfaces are configured as A-law if required.

 Customized Individual Tones — In this section, customized tone definitions follow the data-entry syntax as specified for entry on the Individual Tone Administration Screen:

[(Frequency/Level)|silence|goto)][(Duration ms)|(Step)]

- Reorder (Congestion):

- 1. (425/-11)(250)
- 2. (silence)(250)
- 3. (goto)(1)
- CO Dial Tone:
 - 1. (350+440/-13.75)(1000)
 - 2. (goto)(1)
- PBX Dial Tone:
 - 1. (425/-11)(1000)
 - 2. (goto)(1)

Application Notes for Type Approval Argentina

Multifrequency-Signaling-Related System Parameters

Page 1 of 3 MULTIFREQUENCY-SIGNALING-RELATED SYSTEM PARAMETERS Incoming Call Type: group-ii-mfc Outgoing Call Type: group-ii-mfc Maintenance Call Type: none Test Call Extension: Interdigit Timer (sec): 10 Outgoing Forward Signal Present Timer (sec): 15 Outgoing Forward Signal Absent Timer (sec): 30 Multifrequency Signaling Incoming Intercept Treatment? y Received Signal Gain(-Loss) (dB): 0 Transmitted Signal Gain(-Loss) (dB): -3 ANI Prefix: ANI for PBX: Next ANI Digit: send-ani ANI Prefix: Collect All Digits Before Seizure? n Request Incoming ANI (non-AAR/ARS)? n Called Party Category: user-type Use COR for Calling Party Category? n

2 of 3 Page MULTIFREQUENCY-SIGNALING-RELATED SYSTEM PARAMETERS INCOMING FORWARD SIGNAL TYPES INCOMING BACKWARD SIGNAL TYPES (Tones from CO) (Tones to CO) Group-I Group-II Group-B Group-A 1: next-digit 11: ignored 1: normal 2: intercept 2: normal 3: end-of-dial 3: busy 12: ignored 13: ignored 3: normal 4: congestion 4: congestion 6: free 14: ignored 4: normal 15: ignored 5: normal 6: normal 7: normal 8: normal 9: normal 10: normal 11: normal 12: normal 13: normal 14: normal 15: normal

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(/					Page	3 о	f	3)
	MU	LTIFREQUENCY-SIG	NALING-H	RELATED SYSTEM	PARAME	TERS				
	OUTGOING FORWARD S (Tones to CO)	IGNAL TYPES		GOING BACKWARD nes from CO)	SIGNAL	TYPES				
	Group-I	Group-II		Group-A		Group-B				
	12: ani-not-avail	2: normal	1:	next-digit	1:	congestion	ı			
	15: end-of-ani	1: attendant	2:	last-2-digits	2:	intercept				
		6: data-call	3:	end-of-dial	3:	busy				
			4:	congestion	4:	congestion	ı			
			5:	send-ani	5:	intercept				
			6:	setup-sppath	6:	free				
			7:	last-3-digits	7:	free				
			8:	congestion	8:	busy				
			9:	last-digit	9:	congestion	ı			
			10:	restart	10:	congestion	ı			
			11:	congestion	11:	congestion	ı			
			12:	congestion	12:	congestion	ı			
			13:	congestion	13:	congestion	ı			
			14:	congestion	14:	congestion	ı			
			15:	congestion	15:	congestion	ı			
										Ϊ

Trunk Group Administration

CO Trunk Group Administration

	Page 1 of 10
TRUNK GROUP	
Group Number: Group Type: Group Name: OUTSIDE CALL COR: Direction: two-way Outgoing Display? Dial Access? n Busy Threshold: Queue Length: 0 Country: 1 Comm Type: voice Auth Code? Prefix-1? n Trunk Flash?	1 TN: 1 TAC: n 99 Night Service: Incoming Destination: n Digit Absorption List:
TRUNK PARAMETERS Trunk Type: loop-start Outgoing Dial Type: tone Trunk Termination: rc Di	Cut-Through? n sconnect Timing(msec): 500
Auto Guard? n Call Still Held? Terminal Balanced? n Trunk Gain:	RA Trunk Loss: 0db
Disconnect Supervision - In? n Out? n Answer Supervision Timeout: 10	Cyclical Hunt? n Receive Answer Supervision? n

Application Notes for Type Approval *Argentina*

/		Page 2 of 10
TRUNK FEATURES ACA Assignment?	n Measured:	none Maintenance Tests? y
Abandoned Call Search? Suppress # Outpulsing?		-

	Page 3 of 10
	TRUNK GROUP
ADMINISTRABLE TIMERS Incoming Disconnect(msec): Incoming Glare Guard(msec):	Outgoing Dial Guard(msec): 1600
Ringing Monitor(msec): Outgoing End of Dial(sec): Programmed Dial Pause(msec): Flash Length(msec):	10 Outgoing Seizure Response(sec): 5 1500
END TO END SIGNALING Tone(msec): 350	Pause(msec): 150
OUTPULSING INFORMATION PPS: 10 Make(msec): 40	Break(msec): 60 PPM? n

						Page	4 of 10
				TRUNK GF	OUP		
						rs (min/max): ered Members:	0 / 0 0
	EMBER ASS						_
Port 1: 2: 3:	Code	Sfx	Name	Night	Mode	Туре	Ans Delay
,							

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DIOD Trunk Group Administration

Page 1 of 10 TRUNK GROUP Group Type: diod CDR Reports: y COR: 1 TN: 1 TAC: Group Number: Group Name: OUTSIDE CALL Direction: two-way Outgoing Display? n Dial Access? n Busy Threshold: 99 Queue Length: 0 Country: 7 Busy Threshold: 99 Auth Code? n Digit Absorption List: Prefix-1? n Trunk Flash? n Toll Restricted? n TRUNK PARAMETERS Trunk Type: immed-start Outgoing Dial Type: mf Incoming Dial Type: mf Trunk Termination: rc Digit Treatment: Digits: Expected Digits: Sig Bit Inversion: none Terminal Balanced? n RA Trunk Loss: 0db Disconnect Supervision - In? y Out? n Trunk Gain: high Drop Treatment: silence Receive Answer Supervision? n

Page 2 of 20 TRUNK FEATURES ACA Assignment? n Measured: none Data Restriction? n Suppress # Outpulsing? n

Page 3 of 10 TRUNK GROUP ADMINISTRABLE TIMERS Incoming Disconnect(msec): 500 Outgoing Disconnect(msec): 500 Incoming Dial Guard(msec): 70 Outgoing Dial Guard(msec): 1600 Incoming Glare Guard(msec): 1500 Outgoing Glare Guard(msec): 1500 Ringing Monitor(msec): 5200 Incoming Seizure(msec): 500 Outgoing End of Dial(sec). 10 Programmed Dial Pause(msec): 1500 Therefore Length(msec): Incoming Incomplete Dial Alarm(sec): 255 END TO END SIGNALING Tone(msec): 350 Pause(msec): 150 OUTPULSING INFORMATION PPS: 10 Make(msec): 40 Break(msec): 60 PPM? n

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DID Trunk Group Administration

			Page	4 of 10	
	TRUNK GROUP				
GROUP MEMBER ASSIGNMENTS Port Code Sfx Name 1: 2: 3:	Administere Total A Night	Administered	l Members:	0	
					Ϊ
			Page	1 of 10	
	TRUNK GROUP				
Group Name: OUTSIDE CALL Country	roup Type: dic COR: 1 : 7 Auth Code? n		-	rts: y TAC:	
TRUNK PARAMETERS Trunk Type: immed-start Incoming Dial Type: tone	Incom	ning Rotary	Timeout(se	ec): 5	
Trunk Termination: rc Digit Treatment:		Disconnect	Timing(mse Digi		
Expected Digits: Terminal Balanced? n		9	Bit Inversi RA Trunk Lo		
Extended Loop Range? n	Trunk Gain: hi	lgh Dr	op Treatme	ent: silence	
Disconnect Supervision - In? y					

	Page 2 of 10
TRUNK FEATURES	
ACA Assignment? n Measured: none	Maintenance Tests? y
Data Restriction? n	Maincenance lests; y
Suppress # Outpulsing? n	

Application Notes for Type Approval *Argentina*

Page 3 of 10 TRUNK GROUP ADMINISTRABLE TIMERS Incoming Disconnect(msec): 500 Incoming Dial Guard(msec): 70 Flash Length(msec): 540 Incoming Incomplete Dial Alarm(sec): 255 END TO END SIGNALING Tone(msec): 350 Pause(msec): 150

(Page	4 of 10 🔪
			TRUNK GROUP	
GROUP ME	MBER ASSIGNME	NTS	Administered Members (min/max): Total Administered Members:	0 / 0 0
Port 1: 2:	Code	Sfx	Name	
3:				

Digital Trunk Administration

This section does not list all possible valid administrable combinations. Rather the most common or standard combination, compatible with public-network and Type Approval standards for each country, is presented.

Application Notes for Type Approval Argentina

DS1 Programing for CO, DID and DIOD trunks to the PTT using digital trunks

Page 1 of 1 DS1 CIRCUIT PACK Location: Name: E-1CO, DID, DIOD Bit Rate: 2.048 Signaling Mode: CAS Interconnect: CO Interface Companding: alaw Idle Code: 1111111 MAINTENANCE PARAMETERS Slip Detection? n Near-end CSU Type: none

Tie Trunks

- Non-ISDN Signaling Example (DS1 Administration Screen)
 - Circuit Pack: TN464D (Not entered as administrable item)
 - Bit Rate: 2.048
 - Interface Companding: mu-law
 - Line Coding: HDB3
 - Signaling Mode: CAS
 - Country Protocol: 16
 - Interconnect: pbx
 - CRC?: no
 - Idle Code: 01010100
 - ISDN-PRI (Private Network) Signaling This example assumes use of US Option 1 with facility associated signaling. Other feature options will require changes in one or more administered items.
 - DS1 Administration screen
 - Circuit Pack: TN464D (or TN464C from upgrades)
 - Bit Rate: 2.048
 - Interface Companding: A-law
 - Line Coding: HDB3
 - Signaling Mode: isdn-pri
 - Country Protocol: 1

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- Connect: pbx
- Interface: user
- CRC: No
- Idle Code: 01010100
- Signaling Group screen
 - Associated Signaling: Yes
 - Primary D_Channel: xxxx16 (xxxx=>depends on CP physical location)
- Trunk Group Administration screen
 - Group Type: isdn-pri
 - Service Type: tie
 - ISDN-PRI (Public Network)

Not available for this country.

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Application Notes for Type Approval Australia

Australia

Table 16 shows the recommended circuit packs.

Table 16. Recommended and Available CPs in Australia

Equipment	Equipment Type
Cabinet Type & Power	GAC-MCC DC-MCC AC-SCC DC-SCC AC-CSCC AC-CMC
AC Power Voltage & Freq	240V/50Hz
Ring Generator	20Hz 25Hz
Tone Detector	>TN2182B >TN744D TN420C TN420B
Tone Clock	>TN2182B TN780 TN419B
R2MFC Circuit	n/a
Speech Synthesizer	>TN457
Call Classifier	>TN744D
Announcement	>TN750C TN750B
Analog DID Trunk	>TN436B TN436
Analog CO Trunk (No PPM)	>TN2147C TN22147
Analog CO Trunk (w/PPM)	#TN465C >TN438B
4 Wire Tie Trunk	TN437B TN437
2 Wire Tie Trunk	>TN439
Auxiliary Trunk	#TN763D >TN417
Digital CO/DID Trunk	n/a
Digital Tie Trunk	>TN464F TN464E TN464D TN464C
Digital PRI CO Trunk	>TN464F TN464E TN464D TN464C
Digital BRI Trunk	>TN2185
Digital Converter PRI-DASS	
Digital Converter PRI-DPNSS	TN-CCSC-2
Digital Converter PRI-BRI	
8 Port Analog Line	TN467
16 Port Analog Line	#TN2183 >TN468B TN468
24 Port Analog Line	TN2793

Table 16. Recommended and Available CPs in Australia — Continued

Equipment	Equipment Type
4 Wire Digital Line	>TN754B TN413
2 Wire Digital Line	#TN2224 >TN2181
Data Line	>TN726B
BRI-U Line	
BRI-ST Line	TN556B



Australia P2 signaling requires TN464Fv5 or later.

Country-Specific Features

When the Country Code is 2, Malicious Call Trace notification is passed over the following ISDN-PRI trunk groups: tandem, tie, access, and DMI-BOS. See "Malicious Call Trace" in *DEFINITY ECS Administrator's Guide*.

Feature Administration

The screen displays shown in this section were effective the date the type approval was awarded. The screens may have changed since that date.

Only those feature-related parameters that may have a Type Approval or basic connectivity implication for a particular country are listed here.

ARS/AAR Administration

To enable ARS administration, on the System-Parameters Customer-Options screen, set the ARS field to **y**. You also should check all ARS/AAR defaults. All default ARS analysis codes are deleted before dialed strings are added for routing when DEFINITY is installed outside of North America. Be aware that the default for the 10 digits cause dialing problems. In particular, the following call types (appear as ARS/AAR defaults) typically are not used in non-North American ARS/AAR tables:

fnpa:	North American numbers with an area code.
hnpa:	North American numbers without an area code.
SVC:	North American numbers of the screen "x11".

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Lucent recommends only the following call types be used in Australia:

int:	For all international numbers.
pubu:	For all other types of digit strings.

System Parameter Administration

Only those feature-related parameters that may have a Type Approval or basic connectivity implication for a particular country are listed here.

- Feature-Related System Parameters Administration
 - Trunk-to-Trunk Transfer: Permitted by country's regulations -Selection is customer's choice.
 - Public Network Trunks on Conference Call: 5
 - Conference Parties With PNTs: 6
 - Conference Parties Without PNTs: 6
 - Line Intercept Tone Timer: 30
 - Night Service Disconnect Timer: 180 sec
 - Short Interdigit Timer: 3 sec
 - Unanswered DID Call Timer: 60
 - Auto-Hold: Yes ¹
 - Attendant Tone: Yes
 - Bridging Tone: No
 - Conference Tone: No
 - Intrusion Tone: Yes
 - Repetitive Call Waiting Tone: No
 - DID Busy Treatment: Attendant
 - Pull Transfer: No
 - Level of Tone Detection: Precise
 - Outpulse Without Tone: Yes
 - (Station-to-switch) Recall Timing:
 - Flashhook Interval: Yes
 - Upper Bound: 1000 ms
 - Lower Bound: 200 ms

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- System Parameter Country Options Administration
 - Companding Mode: A-law
 - Base Tone Generation Set: 2
 - Tone Detection Mode: 2
 - Interdigit Pause: short
 - Digital Loss Plan: 2
 - Analog Ringing Cadence: 2

Analog Trunk Administration

- CO Trunks
 - Trunk Group Screen
 - Group Type: CO
 - Country: 2
 - Trunk Gain: high
 - Direction: two-way
 - Digit Absorption List: blank
 - Prefix-1: No
 - Trunk Type: loop-start
 - Outgoing Dial Type: tone
 - Trunk Termination: rc (complex impedance)
 - Auto Guard: yes
 - Dial Access: yes
 - Call Still Held: yes
 - Terminal Balanced: yes
 - Receive Answer Supervision: no
 - Answer Supervision Timeout: 10 (This sets both the CP firmware timer and software timer. Set to 0 for any trunk that will receive answer supervision.)
 - Disconnect Supervision In: yes
 - Disconnect Supervision Out: Selection is customer's choice.
 - Disconnect Timing: 500 msec (This field will not be used with CPs that can accept the Incoming Disconnect and Outgoing Disconnect timers. Set these latter two timers from the Administrable Timers Screen.)

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Trunk Group Administration Screen (Timing)

Set the following timers from the Administrable Timers screen during administration of each trunk group. Select the following CO trunk timer values for this country:

- Incoming Disconnect: 500 ms
- Outgoing Disconnect: 500 ms
- Outgoing Dial Guard: 1600 ms
- Incoming Glare Guard: 1500 ms
- Outgoing Glare Guard: 1500 ms
- Outgoing Dial Pulse Rate (PPS): 10 pps
- Outgoing Rotary Digit Dial Make: 35 ms
- Outgoing Rotary Digit Dial Break: 65 ms
- Outgoing Rotary Dial Interdigit: 800 ms
- Ring Monitor Timer: 5200 ms
- Incoming Seizure: 500 ms
- Outgoing End-of-Dial: 10 sec
- Outgoing Seizure Response: 240 sec
- Programmed Dial Pause: 1500 ms
- Disconnect Signal Error: 240 sec
- Flash Length: 100 ms
- PPM: Yes
- PPM Frequency: 50/12kHz
- **DID Trunks**
 - Trunk Group Screen
 - Group Type: DID -
 - Country: 2
 - Trunk Gain: high
 - Digit Absorption List: blank
 - Incoming Dial Type: tone
 - Trunk Type: immed-start
 - Trunk Termination: rc (complex impedance)
 - Disconnect Supervision In: yes

Application Notes for Type Approval *Australia*

- Digit Treatment: blank
- Digits: blank
- Expected Digits: depends on system size and numbering plan
- Terminal Balanced: yes
- Extended Loop Range: (Used Only with TN459) no
- Drop Treatment: silence
- Incoming Rotary Timeout (sec): 5 sec (This field will not be used with CPs that can accept the Incoming Partial Dial timer. Set this timer from the Administrable Timers Screen.)
- Trunk Group Administration Screen (Timing)

Set the following timers from the Administrable Timers screen during administration of each trunk group. Select the following DID trunk timer values for this country:

- Incoming Disconnect: 500 ms
- Incoming Dial Guard: 50 ms
- Incoming Partial Dial: 18 sec
- Incoming Incomplete Dial: 255 sec
- Flash Length: 100 ms
- Tie Trunks

No special Type Approval regulations apply. Tie trunks are administered on a case-by-case basis.

Digital Trunk Administration

This section does not list all possible valid administrable combinations. Rather the most common or standard combination, compatible with public-network and Type Approval standards for each country, is presented:

CO and DID Trunks

Not available in this country.

- Tie Trunks
 - Non-ISDN Signaling Example (DS1 Administration Screen)
 - Circuit Pack: TN464D (Not entered as administrable item; TN464C from upgrades)
 - Bit Rate: 2.048

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- Interface Companding: A-law
- Line Coding: HDB3
- Signaling Mode: CAS
- Country Protocol: 2
- Interconnect: pbx
- CRC?: no
- Idle Code: 11111111
- ISDN-PRI (Private Network) Signaling

This example assumes use of US Option 1 with facility associated signaling. Other feature options will require changes in one or more administered items.

- DS1 Administration screen
 - Circuit Pack: TN464D (TN464C,B from upgrades)
 - Bit Rate: 2.048
 - Interface Companding: A-law
 - Line Coding: HDB3
 - Signaling Mode: isdn-pri
 - Country Protocol: 2
 - Connect: pbx
 - Interface: user
 - CRC: No
 - Idle Code: 11111111
- Signaling Group screen
 - Associated Signaling: Yes
 - Primary D_Channel: xxxx16 (xxxx=>depends on CP physical location)
- Trunk Group Administration screen
 - Group Type: isdn-pri
 - Service Type: tie
- ISDN-PRI (Public Network)
 - DS1 Administration screen
 - Circuit Pack: TN464D (Not entered as administrable item; TN464C from upgrades)
 - Bit Rate: 2.048
 - Interface Companding: A-law

for Type Approval	

- Line Coding: HDB3
- Signaling Mode: isdn-pri
- Country Protocol: 2
- Connect: Network
- CRC: No
- Idle Code: 11111111
- Signaling Group screen
 - Associated Signaling: Yes
 - Primary D_Channel: xxxx16 (xxxx=>depends on CP physical location)
- Trunk Group Administration screen
 - Group Type: isdn-pri
 - Service Type: public_ntwrk

Application Notes for Type Approval *Belgium & Luxembourg* Issue 1

Belgium & Luxembourg

Table 17 shows the recommended circuit packs.

Table 17.	Recommended and Available CPs in Belgium & Lux	xembourg

Equipment	Equipment Type
Cabinet Type & Power	GAC-MCC DC-MCC AC-SCC AC-CSCC AC-CMC
AC Power Voltage & Freq	220V/50Hz
Ring Generator	25Hz
Tone Detector	>TN2182B >TN744D TN420C
Tone Clock	>TN2182B TN780
R2MFC Circuit	>TN744D TN744B
Speech Synthesizer	>TN457
Call Classifier	>TN744D
Announcement	TN750C TN750B
Analog DID Trunk	>TN2146
Analog CO Trunk (No PPM)	>TN2147C TN2147
Analog CO Trunk (w/PPM)	#TN465C >TN465B
4 Wire Tie Trunk	>TN760Dv11
2 Wire Tie Trunk	n/a
Auxiliary Trunk	>TN763D
Digital CO/DID Trunk	>TN464F TN464E TN464D
Digital Tie Trunk	>TN464F TN464E TN464D
Digital PRI CO Trunk	>TN464F TN464E TN464D
Digital BRI Trunk	>TN2185
Digital Converter PRI-DASS	
Digital Converter PRI-DPNSS	
Digital Converter PRI-BRI	
8 Port Analog Line	n/a
16 Port Analog Line	#TN2183>TN2149
24 Port Analog Line	n/a

Table 17. Recommended and Available CPs in Belgium & Luxembourg — Continued

Continueu	
Equipment	Equipment Type
4 Wire Digital Line	>TN754B
2 Wire Digital Line	#TN2224 >TN2181 TN2136
Data Line	>TN726B
BRI-U Line	
BRI-ST Line	
	1

Feature Administration

Belgium & Luxembourg

The screen displays shown in this section were effective the date the type approval was awarded. The screens may have changed since that date.

Only those feature-related parameters that may have a Type Approval or basic connectivity implication for a particular country are listed here.

ARS/AAR Administration

To enable ARS administration, on the System-Parameters Customer-Options screen, set the ARS field to **y**. You also should check all ARS/AAR defaults. All default ARS analysis codes are deleted before dialed strings are added for routing when DEFINITY is installed outside of North America. Be aware that the default for the 10 digits cause dialing problems. In particular, the following call types (appear as ARS/AAR defaults) typically are not used in non-North American ARS/AAR tables:

fnpa:	North American numbers with an area code.
hnpa:	North American numbers without an area code.
SVC:	North American numbers of the screen "x11".

Lucent recommends only the following call types be used outside North America:

int:	For all international numbers.
natl:	For all national PN numbers.
pubu:	For all other external (that is, not extensions) numbers.

- Route Pattern administration
 - First Dial Tone Detection (always needed)
 - Number Delete Digits: 0
 - Inserted Digits: +
 - Second Dial Tone Detection (needed on some analog CO trunks)
 - Number Delete Digits: 2 (Dialed String 00)
 - Inserted Digits: +00+

System Parameter Administration

Only those feature-related parameters that may have a Type Approval or basic connectivity implication for a particular country are listed here.

- Feature-Related System Parameters Administration
 - Off Premise Tone Detection Timeout: 10 sec
 - Trunk-to-Trunk Transfer: Not permitted in Belgium
 - Distinctive Audible Alerting:
 - Int: 1
 - Ext: 2
 - Priority: 2
 - DID/TIE/ISDN Intercept Treatment: Attendant
 - Public Network Trunks on Conference Call: 1
 - Conference Parties With PNTs: 3
 - Conference Parties Without PNTs: 6
 - Line Intercept Tone Timer: 30
 - Night Service Disconnect Timer: 180 sec
 - Short Interdigit Timer: 3 sec
 - Unanswered DID Call Timer: 25 sec
 - Auto-Hold: Yes ²
 - Attendant Tone: Yes
 - Bridging Tone: No
 - Conference Tone: No
 - Intrusion Tone: Yes
 - Repetitive Call Waiting Tone: Yes

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Doigiún a Lakombourg	10
 DID Busy Treatment: Attendant 	
— Pull Transfer: No	
 Level of Tone Detection: Medium 	
 Outpulse Without Tone: Yes 	
— (Station-to-switch) Recall Timing:	
 Flashhook Interval: No 	
 Disconnect Timing: 350 ms 	
 — Network Feedback During Tone Detection: No 	
 System Parameter Multifrequency Signaling Administration 	
 Incoming Call Type: non-group-ii-mfc (use default transl 	ations)
 Test Call Extension: 160 or as negotiated. 	
 System Parameter Country Options Administration 	
 Companding Mode: A-law 	
 Base Tone Generation Set: 8 	
— Tone Detection Mode: 5	
— Digital Loss Plan: 8	
— Interdigit Pause: long	
 — Dial Tone Validation Timer: 600 ms 	
— Analog Ringing Cadence: 8	
 Customized Individual Tones 	
Customized tone definitions follow the syntax as specified	ed:
[(Frequency/Level) silence goto)][(Duration ms) (Step)]	
 Intercept Tone: 	
1. (425/-4)(250)	
2. (silence)(250)	
3. (goto)(1)	

- Conference Tone:
 - 1. (425/-11)(200)
 - 2. (silence)(9800)
 - 3. (goto)(1)
- 1 Call Wait Tone:
 - 1. (425/-11)(200)

Application Notes for Type Approval Belgium & Luxembourg

- 2 Call Wait Tone:
 - 1. (425/-11)(200)

Analog Trunk Administration

CO Trunks

- Trunk Group Screen

- Group Type: CO
- Direction: two-way

NOTE:

All trunks in Belgium are one-way but outgoing trunks must be marked two-way in order to be able to select cyclical hunt = y.

- Digit Absorption List: blank
- Country Code: 8

Trunk Gain	Loop Length
high	long
low	short

- Dial Access: No
- Prefix-1: No
- Trunk Type: loop-start
- Outgoing Dial Type:
 - Digital Trunks: tone
 - Analog Trunks: tone or rotary
- Trunk Termination: rc (complex impedance)
- Auto Guard: no
- Sig Bit Inversion: none
- Call Still Held: no
- Terminal Balanced: no

RA Trunk Loss	Loop Length	
2dB	long	
0dB	short	

Receive Answer Supervision: no

- Answer Supervision Timeout: 10 (This sets both the CP firmware timer and software timer. Set to 0 for any trunk that will receive answer supervision.)
- Disconnect Supervision In:
 - Analog Trunks: no
 - Digital Trunks: yes
- Disconnect Supervision Out: Selection is customer's choice.
- Disconnect Timing: 500 msec (This field will not be used for CPs that can accept the Incoming Disconnect and Outgoing Disconnect timers. Set these latter two timers from the Administrable Timers Screen.)
- Cyclical Hunt: Yes
- Suppress # Outpulsing: yes
- Trunk Group Administration Screen (Timing)

Set the following timers from the Administrable Timers screen during administration of each trunk group. Select the following CO trunk timer values for this country:

- Incoming Disconnect: 600 ms
- Outgoing Disconnect: 500 ms
- Outgoing Dial Guard: 1600 ms
- Incoming Glare Guard: 1500 ms
- Outgoing Glare Guard: 1500 ms
- Outgoing Dial Pulse Rate (PPS): 10 pps
- Outgoing Rotary Digit Dial Make: 35 ms
- Outgoing Rotary Digit Dial Break: 65 ms
- Outgoing Rotary Dial Interdigit: 800 ms
- Ring Monitor Timer: 5200 ms
- Incoming Seizure: 500 ms
- Outgoing End-of-Dial: 10 sec
- Outgoing Seizure Response:
 - Analog trunks: 10 sec
 - Digital trunks: 2 sec
- Programmed Dial Pause: 1500 ms
- End-To-End Signaling Pause: 150 ms (accept default)
- End-To-End Signaling Tone: 350 ms (accept default)

Application Notes for Type Approval Belgium & Luxembourg

- PPM: yes
- Frequency: 16 khz
- Flash Length: 100 ms
- DID Trunks
 - Trunk Group Screen
 - Group Type: DID
 - Direction: incoming
 - Country Code: 8
 - Trunk Gain: high or low as required by loop length
 - Digit Absorption List: blank
 - Incoming Dial Type: MF
 - Trunk Type: immed-start
 - Trunk Termination: rc (complex impedance)
 - Disconnect Timing: 500 msec (This field will not be used with CPs that can accept the Incoming Disconnect and Outgoing Disconnect timers. Set these latter two timers from the Administrable Timers Screen.)
 - Digit Treatment: blank
 - Digits: blank
 - Expected Digits: 3 or 4
 - Terminal Balanced: no
 - RA Trunk Loss: 0dB
 - Extended Loop Range: (Used Only with TN459) no
 - Drop Treatment: silence
 - Disconnect Supervision:
 - Analog Trunks: no
 - Digital Trunks: yes
 - Incoming Rotary Timeout (sec): 5 sec (This field will not be used with CPs that can accept the Incoming Partial Dial timer. Set this timer from the Administrable Timers Screen.)
 - Suppress # Outpulsing: yes
 - Trunk Group Administration Screen (Timing)

Set the following timers from the Administrable Timers screen during administration of each trunk group. Select the following DID trunk timer values for this country:

Incoming Disconnect: 600 ms

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- Incoming Dial Guard: 50 ms
- Incoming Partial Dial: 18 sec
- Incoming Incomplete Dial: 60 sec
- Flash Length: 100 ms
- Tie Trunks

No special Type Approval regulations apply. Tie trunks are administered on a case-by-case basis.

Digital Trunk Administration

This section does not list all possible valid administrable combinations: Only the most common or standard combination, compatible with public-network and Type Approval standards for each country, is presented:

CO Trunks

DS1 Administration Screen

- Circuit Pack: TN464D
- Bit Rate: 2.048
- Interface Companding: A-law
- Line Coding: HDB3
- Signaling Mode: CAS
- Country Protocol: 8
- Interconnect: CO
- CRC?: No
- Idle Code: 01010100
- Trunk Group Administration Screen (Timing)

Digital trunk timing values should be set as for analog CO trunks with the following exception.

- Outgoing Seizure Response: 2 sec.
- DID Trunks
 - DS1 Administration Screen
 - Circuit Pack: TN464D
 - Bit Rate: 2.048
 - Interface Companding: A-law
 - Line Coding: HDB3
 - Signaling Mode: CAS
 - Country Protocol: 8

- Interconnect: CO
- CRC?: No
- Idle Code: 01010100
- Trunk Group Administration Screen (Timing)

Digital trunk timing values should be set as for analog DID trunks.

- Tie Trunks
 - Non-ISDN Signaling Example (DS1 Administration screen)
 - Circuit Pack: TN464D
 - Bit Rate: 2.048
 - Interface Companding: A-law
 - Line Coding: HDB3
 - Signaling Mode: CAS
 - Country Protocol: 8
 - Interconnect: pbx
 - CRC?: no
 - Idle Code: 01010100
 - ISDN-PRI (Private Network) Signaling

This example assumes use of US Option 1 with facility associated signaling. Other feature options will require changes in one or more administered items.

- DS1 Administration screen
 - Circuit Pack: TN464D
 - Bit Rate: 2.048
 - Interface Companding: A-law
 - Line Coding: HDB3
 - Signaling Mode: isdn-pri
 - Country Protocol: 8
 - Connect: pbx
 - Interface: user
 - CRC: No
 - Idle Code: 01010100
- Signaling Group screen
 - Associated Signaling: Yes

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Application Notes for Type Approval Belgium & Luxembourg

- Primary D_Channel: xxxx16 (xxxx=>depends on CP physical location)
- Trunk Group Administration screen
 - Group Type: isdn-pri
 - Service Type: tie
- ISDN-PRI (Public Network)

Not available for this country.

Station Administration

Rotary stations are not supported in Belgium.

- Type: 2500
- Switch Hook Flash: yes
- Call Vector screen

Use this with Auto Transfer and Auto Answer through vectoring/prompting, and only for Digital outgoing trunks.

- ASAI Routing: no
- Basic: yes
- Prompting: yes
- Wait time 6 seconds hearing ringback
- Announcement extension is installation dependent
- Route to number is installation dependent if unconditionally

Application Notes for Type Approval *Bolivia*

Bolivia

Table 18 shows the recommended circuit packs.

Table 18. Recommended and Available CPs in Bolivia

Equipment	Equipment Type
Cabinet Type & Power	GAC-MCC DC-MCC AC-SCC AC-CSCC AC-CMC
AC Power Voltage & Freq	220V/50Hz
Ring Generator	20Hz
Tone Detector	>TN2182B >TN744D
Tone Clock	>TN2182B TN780 TN768
R2MFC Circuit	>TN744D TN744B
Speech Synthesizer	>TN725B
Call Classifier	>TN744D
Announcement	>TN750C TN750B
Analog DID Trunk	
Analog CO Trunk (No PPM)	>TN747B
Analog CO Trunk (w/PPM)	
4 Wire Tie Trunk	>TN760D
2 Wire Tie Trunk	
Auxiliary Trunk	>TN763D
Digital CO/DID Trunk	>TN464F TN464E TN464D
Digital Tie Trunk	>TN464F TN464E TN464D
Digital PRI CO Trunk	
Digital BRI Trunk	
Digital Converter PRI-DASS	
Digital Converter PRI-DPNSS	
Digital Converter PRI-BRI	
8 Port Analog Line	
16 Port Analog Line	>TN746B
24 Port Analog Line	n/a

Equipment Type
>TN754B
>TN2224 >TN2181
>TN726B

Table 18. Recommended and Available CPs in Bolivia — Continued

Feature Administration

Bolivia

The screen displays shown in this section were effective the date the type approval was awarded. The screens may have changed since that date.

Only those feature-related parameters that may have a Type Approval or basic connectivity implication for a particular country are listed here.

ARS/AAR Administration

To enable ARS administration, on the System-Parameters Customer-Options screen, set the ARS field to **y**. You also should check all ARS/AAR defaults. All default ARS analysis codes are deleted before dialed strings are added for routing when DEFINITY is installed outside of North America. Be aware that the default for the 10 digits cause dialing problems. In particular, the following call types (appear as ARS/AAR defaults) typically are not used in non-North American ARS/AAR tables:

fnpa:	North American numbers with an area code.
hnpa:	North American numbers without an area code.
SVC:	North American numbers of the screen "x11".

Lucent recommends only the following call types be used outside North America:

int:	For all international numbers.
natl:	For all national PN numbers.
pubu:	For all other external (that is, not extensions) numbers.

Application Notes for Type Approval Bolivia

System Administration

Feature-Related System Parameters

Page 1 of 6 FEATURE-RELATED SYSTEM PARAMETERS Trunk-to-Trunk Transfer: all Coverage - Subsequent Redirection No Answer Interval: 2 Coverage - Caller Response Interval (seconds): 4 Keep Held SBA at Coverage Point? y Automatic Callback - No Answer Timeout Interval (rings): 3 Call Park Timeout Interval (minutes): 10 Off-Premises Tone Detect Timeout Interval (seconds): 20 AAR/ARS Dial Tone Required? y Music/Tone on Hold: none Music (or Silence) on Transferred Trunk Calls? no DID/Tie/ISDN Intercept Treatment: attd Internal Automatic Answer for Attendant Extended Calls? n Automatic Circuit Assurance (ACA) Enabled? n

2 of 6 Page FEATURE-RELATED SYSTEM PARAMETERS LEAVE WORD CALLING PARAMETERS Maximum Number of Messages Per Station (when MSA not in service):10 Stations with System-wide Retrieval Permission (enter extension) 1: 2: 3: 4: 5: 6: 7: 8: 9: 10: SEE USER DOCUMENTATION BEFORE CHANGING TTI STATE WARNING! Terminal Translation Initialization (TTI) Enabled? n External Coverage Treatment for Transferred Incoming Calls? n SECURITY VIOLATION NOTIFICATION (SVN) PARAMETERS HAVE MOVED TO THE SYSTEM-PARAMETERS SECURITY SCREEN

Application Notes for Type Approval Bolivia

```
Page
                                                                        3 of 6
                         FEATURE-RELATED SYSTEM PARAMETERS
                     Reserved Slots for Attendant Priority Queue: 5
                                      Time before Off-hook Alert: 10
                          Emergency Access Redirection Extension:
                                  Service Observing Warning Tone? y
           Number of Emergency Calls Allowed in Attendant Queue: 5
                                            Call Pickup Alerting? n
               Deluxe Paging and Call Park Timeout to Originator? n
     Controlled Outward Restriction Intercept Treatment: tone
     Controlled Termination Restriction (Do Not Disturb): tone
               Controlled Station to Station Restriction: tone
AUTHORIZATION CODE PARAMETERS
                                     Authorization Codes Enabled?
                                       Authorization Code Length:
                          Authorization Code Cancellation Symbol: #
                                        Attendant Time Out Flag? n
                                      Display Authorization Code? y
```

Page 4 of	E 6	
FEATURE-RELATED SYSTEM PARAMETERS		
SYSTEM PRINTER PARAMETERS System Printer Extension: Lines Per Page:	60	
SYSTEM-WIDE PARAMETERS Switch Name:		
CALL CENTER SYSTEM PARAMETERS Direct Agent Announcement Extension:		
Converse Delay Data1: 0 Data2: Direct Agent Announcement Extension: Converse Pulse ON: 100 OFF:	70	
CALL MANAGEMENT SYSTEM PARAMETERS BCMS/VuStats Measurement Interval: hour BCMS/VuStats Abandon Call Timer (seconds): Validate Login IDs? ACD Login Identification Length: Adjunct CMS Release:	n	
MALICIOUS CALL TRACE PARAMETERS Apply MCT Warning Tone? n MCT Voice Recorder Trunk Group:		,
	FEATURE-RELATED SYSTEM PARAMETERS SYSTEM PRINTER PARAMETERS System Printer Extension: Lines Per Page: SYSTEM-WIDE PARAMETERS Switch Name: CALL CENTER SYSTEM PARAMETERS Direct Agent Announcement Extension: Direct Agent Announcement Extension: Direct Agent Announcement Extension: Direct Agent Announcement Extension: CALL MANAGEMENT SYSTEM PARAMETERS BCMS/VuStats Measurement Interval: hour BCMS/VuStats Abandon Call Timer (seconds): ACD Login Identification Length: Adjunct CMS Release: MALICIOUS CALL TRACE PARAMETERS	FEATURE-RELATED SYSTEM PARAMETERS SYSTEM PRINTER PARAMETERS System Printer Extension: Lines Per Page: 60 SYSTEM-WIDE PARAMETERS Switch Name: CALL CENTER SYSTEM PARAMETERS Direct Agent Announcement Extension: Direct Agent Announcement Delay: Converse Delay Data1: 0 Data2: 2 Direct Agent Announcement Extension: Converse Pulse ON: 100 OFF: 70 Prompting Timeout (secs): 10 CALL MANAGEMENT SYSTEM PARAMETERS BCMS/VUStats Measurement Interval: hour BCMS/VUStats Measurement Interval: hour BCMS/VUStats Abandon Call Timer (seconds): Validate Login IDs? n ACD Login Identification Length: Adjunct CMS Release: MALICIOUS CALL TRACE PARAMETERS

Application Notes for Type Approval Bolivia

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Page 5 of 6
                            FEATURE-RELATED SYSTEM PARAMETERS
        Public Network Trunks on Conference Call: 5
                                                             Auto Start? n
Conference Parties with Public Network Trunks: 6
Conference Parties without Public Network Trunks: 6
                                                               Auto Hold? n
                                                         Attendant Tone? y
        Night Service Disconnect Timer (seconds): 180
                                                          Bridging Tone? n
                Short Interdigit Timer (seconds): 3 Conference Tone? n
             Unanswered DID Call Timer (seconds):
                                                         Intrusion Tone? n
             Line Intercept Tone Timer (seconds): 30
                              DID Busy Treatment: tone
              Allow AAR/ARS Access from DID/DIOD? n
  DISTINCTIVE AUDIBLE ALERTING
                       Internal: 1 External: 2 Priority: 3
                                  Attendant Originated Calls: external
```

Page 6 of 6 FEATURE-RELATED SYSTEM PARAMETERS Pull Transfer: n Update Transferred Ring Pattern? n Outpulse Without Tone? y Wait Answer Supervision Timer? y Repetitive Call Waiting Tone? n Allow Conference via Flash? y Vector Disconnect Timer (min): Network Feedback During Tone Detection? y Hear Zip Tone Following VOA? n Intercept Treatment On Failed Trunk Transfers? n Station Tone Forward Disconnect: silence Level Of Tone Detection: precise RECALL TIMING Flashhook Interval? y Upper Bound (msec): 1000 Lower Bound (msec): 200 ENHANCED DCS Enhanced DCS Enabled? n Apply Intercept Locally? y Enforce PNT-to-PNT Restrictions? n

Application Notes for Type Approval Bolivia

Multifrequency-Signaling-Related System Parameters

Page 1 of 3 MULTIFREQUENCY-SIGNALING-RELATED SYSTEM PARAMETERS Incoming Call Type: group-ii-mfc Outgoing Call Type: group-ii-mfc Maintenance Call Type: none Test Call Extension: Interdigit Timer (sec): 10 Outgoing Forward Signal Present Timer (sec): 15 Outgoing Forward Signal Absent Timer (sec): 30 Multifrequency Signaling Incoming Intercept Treatment? n Received Signal Gain(-Loss) (dB): 0 Transmitted Signal Gain(-Loss) (dB): -3 ANI Prefix: ANI for PBX: Next ANI Digit: send-ani ANI Prefix: Collect All Digits Before Seizure? n Request Incoming ANI (non-AAR/ARS)? n Called Party Category: user-type Use COR for Calling Party Category? n

Page 2 of 3 MULTIFREQUENCY-SIGNALING-RELATED SYSTEM PARAMETERS INCOMING FORWARD SIGNAL TYPES INCOMING BACKWARD SIGNAL TYPES (Tones from CO) (Tones to CO) Group-I Group-11 1: normal Group-II Group-A 1: next-digit Group-A Group-B 11: ignored 12: ignored 1: free 2: busy 3: end-of-dial 2: normal 4: congestion 13: ignored 3: normal 14: ignored 4: normal 7: intercept 15: ignored 5: normal 6: normal 7: normal 8: normal 9: normal 10: normal 11: normal 12: normal 13: normal 14: normal 15: normal

Application Notes for Type Approval Bolivia

					Page	3 of	3
	MUI	TIFREQUENCY-SIGN	ALING-RELATED SYSTEM	PARAME	TERS		
	JTGOING FORWARD SI Cones to CO)	IGNAL TYPES	OUTGOING BACKWARD (Tones from CO)	SIGNAL	TYPES		
	Group-I 2: ani-not-avail 3: end-of-ani		Group-A 1: next-digit 2: congestion 3: end-of-dial 4: congestion 5: send-ani 6: congestion 7: last-2-digits 8: last-3-digits 9: congestion 10: congestion 11: congestion 12: congestion 14: congestion 15: congestion 15: congestion	2: 3: 4: 5: 6: 7: 8: 9: 10: 11: 12: 13: 14:	Group-B free busy congestic congestic free intercept congestic congestic congestic congestic congestic congestic congestic congestic congestic	on on on on on on on on on on	
1							

System Parameters Country-Options

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	SYSTEM PARAMETERS	COUNTRY-OPTIONS	
	Companding Mode: A-Law 440Hz PBX-dial Tone? y Digital Loss Plan: 1 Analog Ringing Cadence: 1	Base Tone Generator Set: 1 440Hz Secondary-dial Tone? y	
	TONE DETECTION PARAMETERS Tone Detection Mode: 6 Interdigit Pause: short		

Application Notes for Type Approval Bolivia

			Page	2 of
	SYSTEM PARAM	ETERS COUNTRY-OPTIONS		
Tone Name	Cadence	Tone		

	Step	(Frequency/Level)	
Busy-Tone	1: 400/-11.0Hz	Duration (mses)	500
	2: Silence	Duration (mses)	500
	3: Goto	Step	1
	4:		
	5:		
	6:		
	7:		
	8:		
	9:		
	10:		

Trunk Group Administration

CO Trunk Group Administration

Page 1 of 10 TRUNK GROUP Group Type: co COR: 1 Group Number: CDR Reports: y TN: 1 TAC: Group Name: OUTSIDE CALL Direction: two-way Outgoing Display? n Busy Threshold: 99 Night Service: ntry: 1 Incoming Destination: Auth Code? n Digit Absorption List: Trunk Flash? n Toll Restricted? Dial Access? n Busy T Queue Length: 0 Country: 1 Comm Type: voice Prefix-1? n Toll Restricted? n TRUNK PARAMETERS Trunk Type: loop-start Outgoing Dial Type: tone Cut-Through? n Trunk Termination: rc Disconnect Timing(msec): 500 Auto Guard? n Call Still Held? n Sig Bit Inversion: none Terminal Balanced? n RA Trunk Loss: 0db Trunk Gain: high Disconnect Supervision - In? n Out? n Cyclical Hunt? n Answer Supervision Timeout: 10 Receive Answer Supervision? n

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Application Notes for Type Approval *Bolivia*

1			Page 2 of 1	0
	TRUNK FEATURES ACA Assignment? n	Measured:		0
	Abandoned Call Search? n Suppress # Outpulsing? n		Maintenance Tests n	? Y

	Page 3	6 of 10
	TRUNK GROUP	
ADMINISTRABLE TIMERS		
<pre>Incoming Disconnect(msec):</pre>	500 Outgoing Disconnect(msec): Outgoing Dial Guard(msec):	
<pre>Incoming Glare Guard(msec):</pre>		
Ringing Monitor(msec):	5200 Incoming Seizure(msec):	500
Outgoing End of Dial(sec): Programmed Dial Pause(msec): Flash Length(msec):	1500	5
END TO END SIGNALING Tone(msec): 350	Pause(msec): 150	
OUTPULSING INFORMATION PPS: 10 Make(msec): 40	Break(msec): 60 PPM? n	/

						Page	4 of 10
				TRUNK GF	ROUP		
						rs (min/max): ered Members:	0 / 0 0
	MEMBER ASS					_	
Port 1: 2: 3:	Code	Sfx	Name	Night	Mode	Туре	Ans Delay
							/

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DIOD Trunk Group Administration

Page 1 of 10 TRUNK GROUP Group Type: diod CDR Reports: y COR: 1 TN: 1 TAC:GG Group Number: Group Name: OUTSIDE CALL Direction: two-way Outgoing Display? n Dial Access? n Busy Threshold: 99 Queue Length: 0 Country: 1 Auth Code? n Auth Code? n Digit Absorption List: Trunk Flash? n Toll Restricted? Prefix-1? n Toll Restricted? n TRUNK PARAMETERS Trunk Type: immed-start Outgoing Dial Type: mf Incoming Dial Type: mf Trunk Termination: rc Digit Treatment: Digits: Sig Bit Inversion: none Expected Digits: Terminal Balanced? n RA Trunk Loss: 0db Trunk Gain: high Drop Treatment: silence Disconnect Supervision - In? y Out? n Receive Answer Supervision? n Answer Supervision Timeout: 10

Page 2 of 20 TRUNK FEATURES ACA Assignment? n Measured: none Data Restriction? n Suppress # Outpulsing? n

Page	3 of 10
TRUNK GROUP	
ADMINISTRABLE TIMERS Incoming Disconnect(msec): 500 Outgoing Disconnect(msec Incoming Dial Guard(msec): 70 Outgoing Dial Guard(msec Incoming Glare Guard(msec): 1500 Outgoing Glare Guard(msec): 1600
Ringing Monitor(msec): 5200Incoming Seizure(msecOutgoing End of Dial(sec): 10Outgoing Seizure Response(secProgrammed Dial Pause(msec): 1500Flash Length(msec):Incoming Incomplete Dial Alarm(sec): 5
END TO END SIGNALING Tone(msec): 350 Pause(msec): 150	
OUTPULSING INFORMATION PPS: 10 Make(msec): 40 Break(msec): 60 PPM? n	_

Page 4 of 10 TRUNK GROUP Administered Members (min/max): 0/0 GROUP MEMBER ASSIGNMENTS Port Code Sfx Name 1: 2: 3: **DEFINITY® Enterprise Communications Server Application Notes** for Type Approval

Application Notes for Type Approval Bolivia

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DID Trunk Group Administration

Page 1 of 10 TRUNK GROUP Group Type: did CDR Reports: COR: 1 TN: 1 TAC: Group Number: CDR Reports: y Group Name: OUTSIDE CALL Country: 1 Auth Code? n TRUNK PARAMETERS Trunk Type: immed-start Incoming Rotary Timeout(sec): 5 Incoming Dial Type: tone Trunk Termination: rc Disconnect Timing(msec): 500 Digit Treatment: Digits: Expected Digits: Sig Bit Inversion: none Terminal Balanced? n RA Trunk Loss: Odb Extended Loop Range? n Trunk Gain: high Drop Treatment: silence Disconnect Supervision - In? y

Page 2 of 10 TRUNK FEATURES ACA Assignment? n Measured: none Maintenance Tests? y Data Restriction? n Suppress # Outpulsing? n

Page 3 of 10 TRUNK GROUP ADMINISTRABLE TIMERS Incoming Disconnect(msec): 500 Incoming Dial Guard(msec): 70 Flash Length(msec): 540 Incoming Incomplete Dial Alarm(sec): 255 END TO END SIGNALING Tone(msec): 350 Pause(msec): 150

			Page	4 of 10
			TRUNK GROUP	
GROUP ME	MBER ASSIGNME	ENTS	Administered Members (min/max): Total Administered Members:	0 / 0 0
Port 1: 2: 3:	Code	Sfx	Name	

DS1 for CO, DID and DIOD Trunks to the PTT Using Digital Trunks

1			Page	1 of 1	1	\mathcal{A}
		DS1 CIRCUIT PACK				
	Location: Bit Rate: 2.048	Name: Line Coding:	E-1CO, DID, D hdb3	IOD		
	Signaling Mode: CAS Interconnect: CO	Country Protocol:	7			
	Interface Companding: alaw Idle Code: 1111111	CRC?	n			
	MAINTENANCE PARAMETERS Slip Detection? n	Near-end CSU Type:	other			,

DEFINITY® Enterprise Communications Server A	Application Notes
for Type Approval	

Application Notes for Type Approval Brazil

Brazil

Table 19 shows the recommended circuit packs.

Table 19. Recommended and Available CPs in Brazil

Equipment	Equipment Type
Cabinet Type & Power	GAC-MCC AC-MCC DC-MCC AC-SCC DC-SCC AC-CSCC AC-CMC
AC Power Voltage & Freq	127V/60Hz 220V/60Hz
Ring Generator	25Hz
Tone Detector	>TN2182B >TN744D TN748D
Tone Clock	>TN2182B TN780
R2MFC Circuit	>TN744D TN744B
Speech Synthesizer	>TN725B
Call Classifier	>TN744D
Announcement	>TN750C TN750B
Analog DID Trunk	>TN753
Analog CO Trunk (No PPM)	
Analog CO Trunk (w/PPM)	>TN465C TN465B
4 Wire Tie Trunk	>TN2140B
2 Wire Tie Trunk	>TN439
Auxiliary Trunk	>TN763D
Digital CO/DID Trunk	>TN464F TN464E TN464D TN464C
Digital Tie Trunk	>TN464F TN464E TN464D TN464C
Digital PRI CO Trunk	>TN464F TN464E TN464D TN464C
Digital BRI Trunk	
Digital Converter PRI-DASS	
Digital Converter PRI-DPNSS	
Digital Converter PRI-BRI	
8 Port Analog Line	n/a
16 Port Analog Line	>TN746B
24 Port Analog Line	n/a

Continued on next page

Table 19.	Recommended a	nd Available	CPs in Brazil -	Continued
-----------	---------------	--------------	-----------------	-----------

Equipment	Equipment Type
4 Wire Digital Line	>TN754B
2 Wire Digital Line	#TN2224 >TN2181
Data Line	>TN726B
BRI-U Line	TN2198
BRI-ST Line	TN556B

Country-Specific Feature

Brazil

When not using the Block Collect Call feature, the Country field should be 16.

NOTE:

Block Collect Call requires TN753 v22 or later for DID trunks, TN464F v9 or later for DS1 trunks, and TN465C (all vintages) for analog CO trunks.

NOTE:

The 900 ohms feature requires TN465CV2 or later for analog CO circuit packs, and either TN2155V3 or later or TN2183BV4 or later for analog line circuit packs.

Feature Administration

The screen displays shown in this section were effective the date the type approval was awarded. The screens may have changed since that date.

Only those feature-related parameters that may have a Type Approval or basic connectivity implication for a particular country are listed here.

ARS/AAR Administration

To enable ARS administration, on the System-Parameters Customer-Options screen, set the ARS field to **y**. You also should check all ARS/AAR defaults. All default ARS analysis codes are deleted before dialed strings are added for routing when DEFINITY is installed outside of North America. Be aware that the default for the 10 digits cause dialing problems. In particular, the following call types (appear as ARS/AAR defaults) typically are not used in non-North American ARS/AAR tables:

fnpa:	North American numbers with an area code.
hnpa:	North American numbers without an area code.
SVC:	North American numbers of the screen "x11".

Lucent recommends only the following call types be used outside North America:

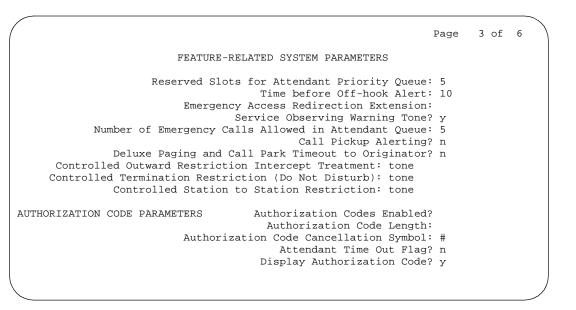
int:	For all international numbers.
natl:	For all national PN numbers.
pubu:	For all other external (that is, not extensions) numbers.

System Parameter Administration

Feature-Related System Parameters

	Page	1 of	6
FEATURE-RELATED SYSTEM PARAMETERS			
Trunk-to-Trunk Transfer: all	L		
Coverage - Subsequent Redirection No Answer Interval: 2			
Coverage - Caller Response Interval (seconds): 4			
Keep Held SBA at Coverage Point? y			
Automatic Callback - No Answer Timeout Interval (rings): 3			
Call Park Timeout Interval (minutes): 10			
Off-Premises Tone Detect Timeout Interval (seconds): 20			
AAR/ARS Dial Tone Required? y			
Music/Tone on Hold: nor	ne		
Music (or Silence) on Transferred Trunk Calls? no			
DID/Tie/ISDN Intercept Treatment: att	d		
Internal Automatic Answer for Attendant Extended Calls? n			
Automatic Circuit Assurance (ACA) Enabled? n			

```
Page
                                                                        2 of 6
                            FEATURE-RELATED SYSTEM PARAMETERS
LEAVE WORD CALLING PARAMETERS
 Maximum Number of Messages Per Station (when MSA not in service):10
  Stations with System-wide Retrieval Permission (enter extension)
              2:
                          3:
                                      4:
                                                  5:
  1:
  6:
              7:
                          8:
                                      9:
                                                 10:
  WARNING!
              SEE USER DOCUMENTATION BEFORE CHANGING TTI STATE
                Terminal Translation Initialization (TTI) Enabled? n
       External Coverage Treatment for Transferred Incoming Calls? n
SECURITY VIOLATION NOTIFICATION (SVN) PARAMETERS HAVE MOVED TO
THE SYSTEM-PARAMETERS SECURITY SCREEN
```



DEFINITY® Enterprise Communications Server Application Notes for Type Approval

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	Page 4 of 6
FEATURE-RELATED	SYSTEM PARAMETERS
SYSTEM PRINTER PARAMETERS System Printer Extension:	Lines Per Page: 60
SYSTEM-WIDE PARAMETERS Switch Name:	
CALL CENTER SYSTEM PARAMETERS Direct Agent Announcement Extension:	Direct least innouncement Delevi
Direct Agent Announcement Extension:	Direct Agent Announcement Delay: Converse Delay Datal: 0 Data2: 2 Converse Pulse ON: 100 OFF: 70 Prompting Timeout (secs): 10
CALL MANAGEMENT SYSTEM PARAMETERS BCMS/VuStats Measurement Interval:	hour
BCMS/VuStats Abandon Call Timer (seconds): ACD Login Identification Length:	
MALICIOUS CALL TRACE PARAMETERS Apply MCT Warning Tone? n	MCT Voice Recorder Trunk Group:

Page 5 of 6 FEATURE-RELATED SYSTEM PARAMETERS Public Network Trunks on Conference Call: 5 Auto Start? n Conference Parties with Public Network Trunks: 6 Auto Hold? n Conference Parties without Public Network Trunks: 6 Attendant Tone? y Night Service Disconnect Timer (seconds): 180 Bridging Tone? n Short Interdigit Timer (seconds): 3 Conference Tone? n Unanswered DID Call Timer (seconds): Intrusion Tone? n Line Intercept Tone Timer (seconds): 30 DID Busy Treatment: tone Allow AAR/ARS Access from DID/DIOD? n DISTINCTIVE AUDIBLE ALERTING Internal: 1 External: 2 Priority: 3 Attendant Originated Calls: external

DEFINITY® Enterprise Communications Server Application Notes for Type Approval

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                       FEATURE-RELATED SYSTEM PARAMETERS
                Pull Transfer: n
                                              Update Transferred Ring Pattern? n
        Outpulse Without Tone? n
                                                Wait Answer Supervision Timer? n
                                                 Repetitive Call Waiting Tone? n
   Allow Conference via Flash? y
 Vector Disconnect Timer (min):
                                     Network Feedback During Tone Detection? y
  Hear Zip Tone Following VOA? n
      Intercept Treatment On Failed Trunk Transfers? n
                   Station Tone Forward Disconnect: busy
                           Level Of Tone Detection: precise
RECALL TIMING
       Flashhook Interval? y
                                                   Upper Bound (msec): 1000
                                                   Lower Bound (msec): 200
ENHANCED DCS
     Enhanced DCS Enabled? n
  Apply Intercept Locally? y
                                  Enforce PNT-to-PNT Restrictions? n
```

Multifrequency-Signaling-Related System Parameters

```
Page 1 of 3
            MULTIFREQUENCY-SIGNALING-RELATED SYSTEM PARAMETERS
                                         Incoming Call Type: group-ii-mfc
                                         Outgoing Call Type: group-ii-mfc
                                      Maintenance Call Type: none
                                        Test Call Extension:
                                     Interdigit Timer (sec): 7
                Outgoing Forward Signal Present Timer (sec): 20
                 Outgoing Forward Signal Absent Timer (sec): 30
      Multifrequency Signaling Incoming Intercept Treatment? n
                           Received Signal Gain(-Loss) (dB): 0
                        Transmitted Signal Gain(-Loss) (dB): -3
   ANI Prefix:
   ANI for PBX:
Next ANI Digit: send-ani
   ANI Prefix:
                          Collect All Digits Before Seizure? n
                         Request Incoming ANI (non-AAR/ARS)? n
                                      Called Party Category: user-type
                         Use COR for Calling Party Category? n
```

MIIT			
MOLI	IFREQUENCY-SIGNAL	ING-RELATED SYSTEM PARA	METERS
INCOMING FORWARD SI (Tones from CO)	GNAL TYPES	INCOMING BACKWARD ((Tones to CO)	SIGNAL TYPES
Group-I	Group-II	Group-A	Group-B
11: ignored	1: normal	1: next-digit	1: free
12: ani-not-avail	2: normal	3: end-of-dial	2: busy
13: ignored	3: normal	4: congestion	4: congestion
14: ignored	4: normal	5: send-ani	7: intercept
15: and-of-ani	5: attendant		
	6: data-call		
	7: normal		
	8: send-intercep	pt	
	9: normal		
	10: normal		
	11: normal		
	12: normal		
	13: normal		
	14: normal		
	15: normal		

		Page	e 3 of 3
MUL	TIFREQUENCY-SIG	LING-RELATED SYSTEM PARAMETERS	
OUTGOING FORWARD SI (Tones to CO)	GNAL TYPES	OUTGOING BACKWARD SIGNAL TYPES (Tones from CO)	
Group-I	Group-II	Group-A Group	-В
12: ani-not-avail	2: normal	1: next-digit 1: free	
15: end-of-ani	1: attendant	2: restart 2: busy	
	6: data-call	3: end-of-dial 3: congest	tion
		4: congestion 4: congest	tion
		5: send-ani 5: free	
		6: congestion 6: free	
		7: last-2-digits 7: interce	-
		8: last-3-digits 8: congest	
		9: last digit 9: congest	
		10: congestion 10: congest	
		11: congestion 11: congest	
		12: congestion 12: congest	
		13: congestion 13: congest	
		14: congestion 14: congest	
\		15: congestion 15: congest	cion

DEFINITY® Enterprise Communications Server Application Notes for Type Approval

Application Notes for Type Approval Brazil

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System Parameters Country-Options

(Page 1 of 7
	SYSTEM PARAMETERS COUNTRY-OPTIONS
	Companding Mode: Mu-LawBase Tone Generator Set: 1440Hz PBX-dial Tone? n440Hz Secondary-dial Tone? nDigital Loss Plan: 1Version of Digital Loss Plan: _Analog Ringing Cadence: 3Set Layer 1 timer T1 to 30 seconds? nAnalog Line Transmission: _64/84xx Display Character Set: Roman
	TONE DETECTION PARAMETERS Tone Detection Mode: 1 Interdigit Pause: short

In Analog Line Transmission field, set to 23 for 900 ohms or set to 16 for 600 ohms.

SYSTEM PARAMETERS COUNTRY-OPTIONS Tone Name Cadence Tone Step (Frequency/Level) PEX-Dial 1: (425/-11)(950) 2: (silence)(50) 3: (goto)(1) 4: 5: 6: 7: 8: 9: 10: 10:				Page	2 0
Step (Frequency/Level) PBX-Dial 1: (425/-11)(950) 2: (silence)(50) 3: (goto)(1) 4: 5: 6: 7: 8: 9:		SYSTEM PARA	AMETERS COUNTRY-OPTIONS		
PBX-Dial 1: (425/-11)(950) 2: (silence)(50) 3: (goto)(1) 4: 5: 6: 7: 8: 9:	Tone Name	Cadence	Tone		
2: (silence)(50) 3: (goto)(1) 4: 5: 6: 7: 8: 9:		Step	(Frequency/Level)		
3: (goto)(1) 4: 5: 6: 7: 8: 9:	PBX-Dial	1: (425/-	-11)(950)		
4: 5: 6: 7: 8: 9:		2: (siler	nce)(50)		
5: 6: 7: 8: 9:		3: (goto))(1)		
6: 7: 8: 9:		4:			
7: 8: 9:		5:			
8: 9:		6:			
9:		7:			
		8:			
10:		9:			
		10:			

	SYSTEM	PARAMETERS COUNTRY-OPTIONS	
Tone Name	Cadence	Tone	
	Step	(Frequency/Level)	
Secondary Dial	1:	(425/-11)(5000)	
	2:	(goto)(1)	
	3:		
	4:		
	5:		
	6:		
	7:		
	8:		
	9:		
	10:		

			Page	4 o
	SYSTE	M PARAMETERS COUNTRY-OPTIONS		
Tone Name	Cadence	Tone		
	Step	(Frequency/Level)		
Ringback	1:	(425/-11)(1000)		
	2:	(silence)(4000)		
	3:	(goto)(1)		
	4:			
	5:			
	6:			
	7:			
	8:			
	9:			
	10:			

			D	F . 6
			Page	5 of
	SYSTEM	PARAMETERS COUNTRY-OPTIONS		
Tone Name	Cadence	Tone		
	Step	(Frequency/Level)		
Busy	1:	(425/-11)(250)		
	2:	(silence)(250)		
	3:	(goto)(1)		
	4:			
	5:			
	6:			
	7:			
	8:			
	9:			
	10:			

			Page	6 of
	SYSTEM	PARAMETERS COUNTRY-OPTIONS		
Tone Name	Cadence	Tone		
	Step	(Frequency/Level)		
Intercept	1:	(425/-11)(100)		
	2:	(silence)(100)		
	3:	(goto)(1)		
	4:			
	5:			
	6:			
	7:			
	8:			
	9:			
	10:			

			Page	7 of
	SYSTEM	PARAMETERS COUNTRY-OPTIONS		
Tone Name	Cadence	Tone		
	Step	(Frequency/Level)		
Intrusion	1: (425/-17.25)(50)		
	2: (silence)(2000)		
	3: (goto)(1)		
	4:			
	5:			
	6:			
	7:			
	8:			
	9:			
	10:			

			Page	7
	SYSTEM	PARAMETERS COUNTRY-OPTIONS		
Tone Name	Cadence	Tone		
	Step	(Frequency/Level)		
Hold	1:	(425/-11)(50)		
	2:	(silence)(150)		
	3:	(425/-11)(50)		
	4:	(silence)(12750)		
	5:	(goto)(1)		
	6:			
	7:			
	8:			
	9:			
	10:			

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SYSTEM PARAMETERS COUNTRY-OPTIONSTone NameCadenceTone StepConference1:(425/-17.25)(50)2:(silence)(12750)3:(goto)(1)4:5:6:7:8:9:10:10:				Page	7 of
Step (Frequency/Level) Conference 1: (425/-17.25)(50) 2: (silence)(12750) 3: (goto)(1) 4: 5: 6: 7: 8: 9:		SYSTE	M PARAMETERS COUNTRY-OPTIONS		
Conference 1: (425/-17.25)(50) 2: (silence)(12750) 3: (goto)(1) 4: 5: 6: 7: 8: 9:	Tone Name	Cadence	Tone		
2: (silence)(12750) 3: (goto)(1) 4: 5: 6: 7: 8: 9:		Step	(Frequency/Level)		
3: (goto)(1) 4: 5: 6: 7: 8: 9:	Conference	1:	(425/-17.25)(50)		
4: 5: 6: 7: 8: 9:		2:	(silence)(12750)		
4: 5: 6: 7: 8: 9:		3:	(qoto)(1)		
6: 7: 8: 9:		4:			
7: 8: 9:		5:			
8: 9:		6:			
8: 9:		7:			
9:		8:			
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Trunk Group Administration

CO Trunk Group Administration

Page 1 of 10 TRUNK GROUP Group Number:Group Type: coCDR Reports:Group Name:COR: 1TN: 1TAC:Direction: two-wayOutgoing Display? nDial Access? nBusy Threshold: 99Night Service:Queue Length: 0Country: 1Incoming Destination:Comm Type: voiceAuth Code? nDigit Absorption List:Prefix-1? nTrunk Flash? nToll Restricted? CDR Reports: y Toll Restricted? n TRUNK PARAMETERS Trunk Type: loop-start Outgoing Dial Type: tone Cut-Through? n Trunk Termination: 600 Disconnect Timing(msec): 500 Auto Guard? y Call Still Held? y Sig Bit Inversion: none RA Trunk Loss: 0db Terminal Balanced? y Trunk Gain: high Disconnect Supervision - In? n Out? n Cyclical Hunt? n Answer Supervision Timeout: 10 Receive Answer Supervision? n

For 900 ohm operation, if the Country field is **16** or **23**, set the Version field to **a** (if Country 5 signaling is to be used) or **b** (if Country 1 signaling is to be used).



The following is valid only on TN465CV2 or later circuit packs.

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To enable 600-ohm operation, set the:	
Country field set to 16 or 23	

Version field to a

To enable 900-ohm operation, set the:

- Country field set to 16 or 23
- Version field to b

			Page	2 of 10
TRUNK FEATURES				
ACA Assignment?	n	Measured:	none	
			Maintenance	Tests? y
	Data	Restriction?	n	
Abandoned Call Search?	n			
Suppress # Outpulsing?	У			
١				

	Page 3	of 10
	TRUNK GROUP	
ADMINISTRABLE TIMERS		
Incoming Disconnect(msec):	5 5 7	
Incoming Glare Guard(msec):	Outgoing Dial Guard(msec):1500Outgoing Glare Guard(msec):	
Ringing Monitor(msec):	3	
Outgoing End of Dial(sec): Programmed Dial Pause(msec): Flash Length(msec):		5
END TO END SIGNALING Tone(msec): 350	Pause(msec): 150	
OUTPULSING INFORMATION PPS: 10 Make(msec): 40	Break(msec): 60 PPM? n	/

NOTE:

If the Country field is **23**, Block Collect Call is enabled. Set the Flash Length field to **2000**.

				TRUNK GRO	JUP		
						rs (min/max): ered Members:	0 / 0 0
GROUP MEI	MBER ASS	IGNMENT	rs				
Port	Code	Sfx	Name	Night	Mode	Type	Ans Delay
1:							
2:							
3:							

DIOD Trunk Group Administration

Page 1 of 10 TRUNK GROUP Group Type: diod CDR Re Group Number: CDR Reports: y Group Name: TAC: Direction: two-way Outgoing Display? n Dial Access? n Busy Queue Length: 0 Country: 16 Busy Threshold: 99 Auth Code? n Digit Absorption List: Prefix-1? n Trunk Flash? n Toll Restricted? n TRUNK PARAMETERS Trunk Type: immed-start Outgoing Dial Type: mf Incoming Dial Type: mf Trunk Termination: 600 Digit Treatment: Digits: Expected Digits: Sig Bit Inversion: none Terminal Balanced? y RA Trunk Loss: Odb Trunk Gain: high Drop Treatment: busy Disconnect Supervision - In? y Out? n Answer Supervision Timeout: 10 Receive Answer Supervision? n

Page 2 of 20 TRUNK FEATURES ACA Assignment? n Measured: none Data Restriction? n Suppress # Outpulsing? y

	Page 3 of 10
	TRUNK GROUP
ADMINISTRABLE TIMERS	
Incoming Disconnect(msec): 500	Outgoing Disconnect(msec): 500
Incoming Dial Guard(msec): 70	Outgoing Dial Guard(msec): 1600
Incoming Glare Guard(msec): 150	O Outgoing Glare Guard(msec): 1500
Ringing Monitor(msec): 520	0 Incoming Seizure(msec): 500
Outgoing End of Dial(sec): 10	Outgoing Seizure Response(sec): 5
Programmed Dial Pause(msec): 150	0
Flash Length(msec):	Incoming Incomplete Dial Alarm(sec): 255
END TO END SIGNALING	
Tone(msec): 350	Pause(msec): 150
OUTPULSING INFORMATION	
PPS: 10 Make(msec): 40	Break(msec): 60 PPM? n
	· ·

(Page 4 of 10
	TRUNK GROUP
GROUP MEMBER ASSIGNMENTS Port Code Sfx Name 1: 2: 3:	Administered Members (min/max): 0/0 Total Administered Members: 0 Night Mode Type Ans Delay

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DID Trunk Group Administration

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	TRUNK GROUP
Group Number: Group Name: Countr	COR: 1 CDR Reports: y COR: 1 TN: 1 TAC: : 16 Auth Code? n
TRUNK PARAMETERS Trunk Type: immed-star Incoming Dial Type: tone Trunk Termination: 600 Digit Treatment: Expected Digits: Terminal Balanced? y	Incoming Rotary Timeout(sec): 5 Disconnect Timing(msec): 500 Digits: Sig Bit Inversion: none RA Trunk Loss: 0db
Extended Loop Range? n Disconnect Supervision - In? y	Trunk Gain: high Drop Treatment: busy

Page 2 of 10 TRUNK FEATURES ACA Assignment? n Measured: none Data Restriction? n Suppress # Outpulsing? y

(Page 3 of 10
	TRUNK GROUP
	ADMINISTRABLE TIMERS Incoming Disconnect(msec): 500 Incoming Dial Guard(msec): 70
	Flash Length(msec): 540 Incoming Incomplete Dial Alarm(sec): 255
	END TO END SIGNALING Tone(msec): 350 Pause(msec): 150

			Page	4 of 10
			TRUNK GROUP	
GROUP M	IEMBER ASSIGNME	INTS	Administered Members (min/max): Total Administered Members:	0 / 0 0
Port 1: 2: 3:	Code	Sfx	Name	

Digital Trunk Administration

This section does not list all possible valid administrable combinations: Rather the most common or standard combination, compatible with public-network and Type Approval standards for each country, is presented:

DS1 for CO, DID and DIOD trunks to the PTT using digital trunks

(Page 1 of 1	
		DS1 CIRCUIT PACK		
	Location: Bit Rate: 2.048	Name: Line Coding:	E-1CO, DID, DIOD hdb3	
	Signaling Mode: CAS Interconnect: CO	Country Protocol:	16	
	Interface Companding: alaw Idle Code: 01010	CRC?	n	
	MAINTENANCE PARAMETERS Slip Detection? n	Near-end CSU Type:	other	
1	N N			

ISDN-PRI (Private Network) Signaling This example assumes use of US Option 1 with facility associated signaling. Other feature options require changes in one or more administered items.

DS1 Administration screen

- Circuit Pack: TN464D (or TN464C from upgrades)
- Bit Rate: 2.048
- Interface Companding: A-law

DEFINITY® Enterprise Communications Server Application Notes for Type Approval

Application Notes for Type Approval Brazil

- Signaling Mode: isdn-pri
- Country Protocol: 1
- Connect: pbx
- Interface: user
- CRC: No
- Idle Code: 01010100

Signaling Group screen

- Associated Signaling: Yes
- Primary D_Channel: xxxx16 (xxxx=>depends on CP physical location)

Trunk Group Administration screen

- Group Type: isdn-pri
- Service Type: tie

ISDN-PRI (Public Network)

Not available for this country.

Application Notes for Type Approval *Canada & U.S.*

Canada & U.S.

Table 20 shows the recommended circuit packs.

Table 20.	Recommended and Available CPs in Canada & U.S.
Incie mo.	recommended and multiple er s in cuntada & 0101

Equipment	Equipment Type
Cabinet Type & Power	GAC-MCC AC-MCC DC-MCC AC-SCC DC-SCC AC-CSCC AC-CMC
AC Power Voltage & Freq	120V/60Hz 208V/60Hz 240V/60Hz
Ring Generator	20Hz
Tone Detector	>TN2182B >TN744D TN748D TN748C
Tone Clock	>TN2182B TN780 TN768
R2MFC Circuit	n/a
Speech Synthesizer	>TN725B
Call Classifier	>TN2182B, >TN744D TN744B
Announcement	TN750C TN750B TN750
Analog DID Trunk	>TN753
Analog CO Trunk (No PPM)	>TN747B
Analog CO Trunk (w/PPM)	n/a
4 Wire Tie Trunk	>TN760D
2 Wire Tie Trunk	n/a
Auxiliary Trunk	>TN763D TN763C TN763B
Digital CO/DID Trunk	>TN464F TN464E TN464D TN767
Digital Tie Trunk	>TN464F TN464E TN464D TN767 TN722B
Digital PRI CO Trunk	>TN464F TN464E TN464D TN767
Digital BRI Trunk	
Digital Converter PRI-DASS	
Digital Converter PRI-DPNSS	
Digital Converter PRI-BRI	
8 Port Analog Line	TN742
16 Port Analog Line	>TN746B TN746
4 Wire Digital Line	>TN754B

Equipment	Equipment Type
2 Wire Digital Line	>TN2224 TN2181
Data Line	>TN726B
BRI-U Line	TN2198
BRI-ST Line	TN556B

Table 20. Recommended and Available CPs in Canada & U.S. — Continued

Administration

All timers and option selections default to the values appropriate for operation in the US. Whenever a Country Code is requested, use Code 1. 3

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Chile

Table 21 shows the recommended circuit packs.

Table 21. Recommended and Available CPs in Chile

Equipment	Equipment Type		
Cabinet Type & Power	GAC-MCC AC-MCC DC-MCC AC-SCC DC-SCC AC-CSCC AC-CMC		
AC Power Voltage & Freq	220V/50Hz		
Ring Generator	20Hz		
Tone Detector	>TN2182B >TN744D TN748D TN748C		
Tone Clock	>TN2182B TN780 TN768		
R2MFC Circuit			
Speech Synthesizer	>TN725B		
Call Classifier	>TN744D		
Announcement	>TN750C TN750B		
Analog DID Trunk			
Analog CO Trunk (No PPM)	>TN747B		
Analog CO Trunk (w/PPM)			
4 Wire Tie Trunk	>TN760D		
2 Wire Tie Trunk			
Auxiliary Trunk	>TN763D		
Digital CO/DID Trunk	>TN464F TN464E TN464D TN464C		
Digital Tie Trunk	>TN464F TN464E TN464D TN464C		
Digital PRI CO Trunk			
Digital BRI Trunk			
Digital Converter PRI-DASS			
Digital Converter PRI-DPNSS			
Digital Converter PRI-BRI			
8 Port Analog Line			
16 Port Analog Line	>TN746B		
24 Port Analog Line	n/a		

Continued on next page

Equipment	Equipment Type
4 Wire Digital Line	>TN754B
2 Wire Digital Line	>TN2224 TN2181
Data Line	
BRI-U Line	
BRI-ST Line	

Table 21. Recommended and Available CPs in Chile — Continued

Feature Administration

The screen displays shown in this section were effective the date the type approval was awarded. The screens may have changed since that date.

Only those feature-related parameters that may have a Type Approval or basic connectivity implication for a particular country are listed here.

\blacksquare NOTE:

Block Collect Call requires TN753 v22 or later for DID trunks, and TN464F v9 or later for DS1 trunks, and TN465C (all vintages) for analog CO trunks.

ARS/AAR Administration

To enable ARS administration, on the System-Parameters Customer-Options screen, set the ARS field to y. You also should check all ARS/AAR defaults. These defaults were intended for U.S. operation and certain values are likely to be inappropriate internally. In particular, the following call types (appear as ARS/AAR defaults) typically are not used in non-North American ARS/AAR tables:

fnpa:	North American numbers with an area code.
hnpa:	North American numbers without an area code.

Lucent recommends the following call types be used:

int:	For all international numbers.
natl: For all national PN numbers.	
pubu:	For all other external (that is, not extensions) numbers.

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Application Notes for Type Approval Chile	90			
System Parameters Administration				
Only those feature-related parameters that may have a Type Approval or basic connectivity implication for a particular country are listed here.				
Feature-related System Parameters				
Page 1	of 6			
FEATURE-RELATED SYSTEM PARAMETERS				

Keep Held SBA at Coverage Point? y

AAR/ARS Dial Tone Required? y

DID/Tie/ISDN Intercept Treatment: attd

Music/Tone on Hold: none

Call Park Timeout Interval (minutes): 10

Coverage - Subsequent Redirection No Answer Interval: 2 Coverage - Caller Response Interval (seconds): 4

Off-Premises Tone Detect Timeout Interval (seconds): 20

Music (or Silence) on Transferred Trunk Calls? no

Automatic Circuit Assurance (ACA) Enabled? n

Automatic Callback - No Answer Timeout Interval (rings): 3

Internal Automatic Answer for Attendant Extended Calls? n

Trunk-to-Trunk Transfer: all

Page 2 of 6 FEATURE-RELATED SYSTEM PARAMETERS LEAVE WORD CALLING PARAMETERS Maximum Number of Messages Per Station (when MSA not in service):10 Stations with System-wide Retrieval Permission (enter extension) 1: 2: 3: 4: 5: 7: 6: 8: 9: 10: WARNING! SEE USER DOCUMENTATION BEFORE CHANGING TTI STATE Terminal Translation Initialization (TTI) Enabled? n External Coverage Treatment for Transferred Incoming Calls? n SECURITY VIOLATION NOTIFICATION (SVN) PARAMETERS HAVE MOVED TO THE SYSTEM-PARAMETERS SECURITY SCREEN

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Page 3 of 6 FEATURE-RELATED SYSTEM PARAMETERS Reserved Slots for Attendant Priority Queue: 5 Time before Off-hook Alert: 10 Emergency Access Redirection Extension: Service Observing Warning Tone? y Number of Emergency Calls Allowed in Attendant Queue: 5 Call Pickup Alerting? n Deluxe Paging and Call Park Timeout to Originator? n Controlled Outward Restriction Intercept Treatment: tone Controlled Termination Restriction (Do Not Disturb): tone Controlled Station to Station Restriction: tone AUTHORIZATION CODE PARAMETERS Authorization Codes Enabled? Authorization Code Length: Authorization Code Cancellation Symbol: # Attendant Time Out Flag? n Display Authorization Code? y

			Page	4 of 6
	FEATURE-RELATED	SYSTEM PARAMETERS		
SYSTEM PRINTER S	PARAMETERS System Printer Extension:		Lines Per Pa	age: 60
SYSTEM-WIDE PA	RAMETERS Switch Name:			
	STEM PARAMETERS	Divert June June		
Direct Agen	t Announcement Extension:			2a2: 2 DFF: 70
BCMS/V BCMS/VuStats A	T SYSTEM PARAMETERS TuStats Measurement Interval: bandon Call Timer (seconds): Login Identification Length:	Val	idate Login I nct CMS Relea	
MALICIOUS CALL	TRACE PARAMETERS Apply MCT Warning Tone? n	MCT Voice Recor	der Trunk Gro	oup:

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FEATURE-RELATED SYSTEM	PARAMETERS
Public Network Trunks on Conference Call: Conference Parties with Public Network Trunks: Conference Parties without Public Network Trunks: Night Service Disconnect Timer (seconds): Short Interdigit Timer (seconds): Unanswered DID Call Timer (seconds): Line Intercept Tone Timer (seconds): DID Busy Treatment: Allow AAR/ARS Access from DID/DIOD?	6 Auto Hold? n 6 Attendant Tone? y 180 Bridging Tone? n 3 Conference Tone? n Intrusion Tone? n 30 tone
DISTINCTIVE AUDIBLE ALERTING Internal: 1 External: 2 Attendant Origin	Priority: 3 ated Calls: external

Page 6 of 6 FEATURE-RELATED SYSTEM PARAMETERS Pull Transfer: n Update Transferred Ring Pattern? n Outpulse Without Tone? y Wait Answer Supervision Timer? n Repetitive Call Waiting Tone? n Allow Conference via Flash? y Vector Disconnect Timer (min): Network Feedback During Tone Detection? y Hear Zip Tone Following VOA? n Intercept Treatment On Failed Trunk Transfers? n Station Tone Forward Disconnect: silence Level Of Tone Detection: precise RECALL TIMING Flashhook Interval? y Upper Bound (msec): 1000 Lower Bound (msec): 200 ENHANCED DCS Enhanced DCS Enabled? n Apply Intercept Locally? y Enforce PNT-to-PNT Restrictions? n

DEFINITY® Enterprise Communications Server Application Notes for Type Approval

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Multifrequency-Signaling-Related System Parameters

Page 1 of 3 MULTIFREQUENCY-SIGNALING-RELATED SYSTEM PARAMETERS Incoming Call Type: group-ii-mfc Outgoing Call Type: group-ii-mfc Maintenance Call Type: none Test Call Extension: Interdigit Timer (sec): 10 Outgoing Forward Signal Present Timer (sec): 15 Outgoing Forward Signal Absent Timer (sec): 30 Multifrequency Signaling Incoming Intercept Treatment? n Received Signal Gain(-Loss) (dB): 0 Transmitted Signal Gain(-Loss) (dB): -3 ANI Prefix: ANI for PBX: Next ANI Digit: send-ani ANI Prefix: Collect All Digits Before Seizure? y Request Incoming ANI (non-AAR/ARS)? y Called Party Category: call-type Use COR for Calling Party Category? n

Page 2 of 3 MULTIFREQUENCY-SIGNALING-RELATED SYSTEM PARAMETERS INCOMING FORWARD SIGNAL TYPES INCOMING BACKWARD SIGNAL TYPES (Tones from CO) (Tones to CO) Group-I Group-II Group-A Group-B Group-1Group-1111: ignored1: normal12: ani-not-avail2: normal 1: next-digit 1: free 3: end-of-dial 2: intercept 13: ignored 5: send-ani 3: normal 3: busy 14: ignored 4: normal 4: congestion 15: end-of-ani 5: normal 6: data-call 7: normal 8: normal 9: normal 10: normal 11: normal 12: normal 13: normal 14: normal 15: normal

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MUI	LTIFREQUENCY-SIGN	LING-RELATED SYSTEM PARAMETERS	
OUTGOING FORWARD S: (Tones to CO)	IGNAL TYPES	OUTGOING BACKWARD SIGNAL TYPES (Tones from CO)	
Group-I	Group-II	Group-A Group-B	
12: ani-not-avail	2: normal	1: next-digit 1: free	
15: end-of-ani	1: attendant	2: last-digit 2: intercept	
	6: data-call	3: end-of-dial 3: busy	
		4: congestion 4: congestion	n
		5: send-ani 5: free	
		6: setup-sppath 6: free	
		7: last-2-digits 7: intercept	
		8: last-3-digits 8: congestion	n
		9: congestion 9: congestion	n
		10: congestion 10: congestion	n
		11: congestion 11: congestion	n
		12: congestion 12: congestion	n
		13: congestion 13: congestion	n
		14: congestion 14: congestion	n
		15: congestion 15: congestion	n

System Parameters Country-Options

1		Page 1 of 7
	SYSTEM PARAMETERS	COUNTRY-OPTIONS
	Companding Mode: Mu-Law 440Hz PBX-dial Tone? n Digital Loss Plan: 1 Analog Ringing Cadence: 1	Base Tone Generator Set: 1 440Hz Secondary-dial Tone? y
	TONE DETECTION PARAMETERS Tone Detection Mode: 6 Interdigit Pause: short	

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Trunk Group Administration

CO Trunk Group Administration

Page 1 of 10 TRUNK GROUP Group Type: co COR: 1 TN: 1 TAC: bup Number: Froup Name: OUTSIDE CALL Conce Direction: two-way Outgoing Display? n Busy Threshold: 99 Night Service: Incoming Destination: Theoretion List: Group Number: CDR Reports: y Group Name: OUTSIDE CALL Dial Access? n Busy T Queue Length: 0 Country: 1 Comm Type: voice Auth Code? nDigit Absorption List:Trunk Flash? nToll Restricted? Prefix-1? n Toll Restricted? n TRUNK PARAMETERS Trunk Type: loop-start Outgoing Dial Type: tone Cut-Through? n Trunk Termination: rc Disconnect Timing(msec): 500 Auto Guard? n Call Still Held? n Sig Bit Inversion: none Terminal Balanced? n RA Trunk Loss: 0db Trunk Gain: high Disconnect Supervision - In? n Out? n Cyclical Hunt? n Answer Supervision Timeout: 10 Receive Answer Supervision? n

TRUNK FEATURES ACA Assignment? n Measured: none Maintenance Tests? y Data Restriction? n Abandoned Call Search? n Suppress # Outpulsing? n

	Page 3 of 10
	TRUNK GROUP
ADMINISTRABLE TIMERS	
<pre>Incoming Disconnect(msec):</pre>	500 Outgoing Disconnect(msec): 500 Outgoing Dial Guard(msec): 1600
<pre>Incoming Glare Guard(msec):</pre>	1500 Outgoing Glare Guard(msec): 1500
Ringing Monitor(msec):	5200 Incoming Seizure(msec): 500
Outgoing End of Dial(sec):	10 Outgoing Seizure Response(sec): 5
Programmed Dial Pause(msec):	1500
<pre>Flash Length(msec):</pre>	540
END TO END SIGNALING	
Tone(msec): 350	Pause(msec): 150
OUTPULSING INFORMATION	
PPS: 10 Make(msec): 40	Break(msec): 60 PPM? n

						Page	4 of 10
				TRUNK GR	OUP		
CDOUD I		TONMENT	T.C.			rs (min/max): ered Members:	0 / 0 0
GROUP I Port 1:	MEMBER ASS Code	Sfx	Name	Night	Mode	Туре	Ans Delay
2: 3:							
							/

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DIOD Trunk Group Administration

Page 1 of 10 TRUNK GROUP Group Type: diod CDR Reports: y COR: 95 TN: 1 TAC: Group Number: Group Name: OUTSIDE CALL Direction: two-way Outgoing Display? n Dial Access? n Busy Threshold: 99 Queue Length: 0 Country: 8 Auth Code? n Auth Code? n Digit Absorption List: Trunk Flash? n Toll Restricted? Prefix-1? n Toll Restricted? n TRUNK PARAMETERS Trunk Type: immed-start Outgoing Dial Type: mf Incoming Dial Type: mf Trunk Termination: rc Digit Treatment: Digits: Sig Bit Inversion: none Expected Digits: Terminal Balanced? n RA Trunk Loss: Odb Trunk Gain: high Drop Treatment: silence Disconnect Supervision - In? y Out? n Answer Supervision Timeout: 10 Receive Answer Supervision? n

Page 2 of 20 TRUNK FEATURES ACA Assignment? n Measured: none Data Restriction? n Suppress # Outpulsing? n

	Page 3 of 1	0			
TRUNK GROUP					
ADMINISTRABLE TIMERS					
Incoming Disconnect(msec): 5	500 Outgoing Disconnect(msec): 500				
Incoming Dial Guard(msec): 7	70 Outgoing Dial Guard(msec): 160	0			
Incoming Glare Guard(msec): 1	1500 Outgoing Glare Guard(msec): 150	0			
Ringing Monitor(msec): 5	5200 Incoming Seizure(msec): 500				
Outgoing End of Dial(sec): 1	10 Outgoing Seizure Response(sec): 5				
Programmed Dial Pause(msec): 1	1500				
Flash Length(msec):	Incoming Incomplete Dial Alarm(sec): 255				
END TO END SIGNALING					
Tone(msec): 350	Pause(msec): 150				
OUTPULSING INFORMATION					
PPS: 10 Make(msec): 40	Break(msec): 60 PPM? n				
		,			

Page 4 of 10 TRUNK GROUP Administered Members (min/max): 0/0 GROUP MEMBER ASSIGNMENTS Port Code Sfx Name 1: 2: 3: **DEFINITY® Enterprise Communications Server Application Notes** for Type Approval

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DID Trunk Group Administration

Page 1 of 10 TRUNK GROUP Group Type: did CDR COR: 1 TN: 1 Group Number: CDR Reports: y Group Name: OUTSIDE CALL TAC: Country: 8 Auth Code? n TRUNK PARAMETERS Trunk Type: wink-start Incoming Rotary Timeout(sec): 5 Incoming Dial Type: mf Trunk Termination: rc Disconnect Timing(msec): 500 Digit Treatment: Digits: Expected Digits: Sig Bit Inversion: none Terminal Balanced? n RA Trunk Loss: Odb Extended Loop Range? n Trunk Gain: high Drop Treatment: silence Disconnect Supervision - In? y

Page 2 of 10 TRUNK FEATURES ACA Assignment? n Measured: none Maintenance Tests? y Data Restriction? n Suppress # Outpulsing? n

Page 3 of 10 TRUNK GROUP ADMINISTRABLE TIMERS Incoming Disconnect(msec): 500 Incoming Dial Guard(msec): 70 Flash Length(msec): 540 Incoming Incomplete Dial Alarm(sec): 255 END TO END SIGNALING Tone(msec): 350 Pause(msec): 150

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			TRUNK GROUP	
GROUP ME	MBER ASSIGNME	NTS	Administered Members (min/max): Total Administered Members:	0 / 0 0
Port 1: 2: 3:	Code	Sfx	Name	

DS1 for CO, DID and DIOD Trunks to the PTT Using Digital Trunks

	Page 1 of 1
	DS1 CIRCUIT PACK
Location: Bit Rate: 2.048	Name: E-1 DID, DIOD Line Coding: hdb3
Signaling Mode: CAS Interconnect: CO	Country Protocol: 8
Interface Companding: alaw Idle Code: 1111111	CRC? n
MAINTENANCE PARAMETERS Slip Detection? y	Near-end CSU Type: other

DS1 for ISDN trunks to the PPT

		Page	1 of	1	
	DS1 CIRCUIT PACK				
Location: Bit Rate: 2.048	Name: Line Coding:	E-1 ISDN hdb3			
Signaling Mode: isdn-pri Connect: network	Country Protocol: Protocol Version:				
Interface Companding: alaw Idle Code: 01010100	CRC?	n			
MAINTENANCE PARAMETERS Slip Detection? y	Near-end CSU Type:	other			,

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China

Table 22 shows the recommended circuit packs.

Table 22. Recommended and Available CPs in China

Equipment	Equipment Type
Cabinet Type & Power	GAC-MCC DC-MCC AC-SCC DC-SCC AC-CSCC AC-CMC
AC Power Voltage & Freq	220V/50Hz
Ring Generator	20Hz
Tone Detector	>TN2182B >TN744D
Tone Clock	>TN2182B
R2MFC Circuit	>TN744D
Speech Synthesizer	>TN457
Call Classifier	>TN744D
Announcement	>TN750C
Analog DID Trunk	
Analog CO Trunk (No PPM)	
Analog CO Trunk (w/PPM)	
4 Wire Tie Trunk	
2 Wire Tie Trunk	
Auxiliary Trunk	
Digital CO/DID Trunk	>TN464Fv5
Digital Tie Trunk	>TN464Fv5
Digital PRI CO Trunk	
Digital BRI Trunk	
Digital Converter PRI-DASS	
Digital Converter PRI-DPNSS	
Digital Converter PRI-BRI	
8 Port Analog Line	n/a
16 Port Analog Line	>TN2183
24 Port Analog Line	

Table 22. Recommended and Available CPs in China — Continue	d
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Equipment	Equipment Type
4 Wire Digital Line	
2 Wire Digital Line	#TN2224 >TN2181
Data Line	>TN726B
BRI-U Line	
BRI-ST Line	

Country-Specific Feature

When the Country field is **18**, the Public Network Call Priority feature (China #1 Signaling) can be administered. Specifically, Forced Disconnect, Re-ring, and Mode-of-Release Control can be administered.

Feature Administration

The screen displays shown in this section were effective the date the type approval was awarded. The screens may have changed since that date.

Only those feature-related parameters that may have a Type Approval or basic connectivity implication for a particular country are listed here.

ARS/AAR Administration

To enable ARS administration, on the System-Parameters Customer-Options screen, set the ARS field to **y**. You also should check all ARS/AAR defaults. These defaults were intended for U.S. operation and certain values are likely to be inappropriate internally. In particular, the following call types (appear as ARS/AAR defaults) typically are not used in non-North American ARS/AAR tables:

fnpa:	North American numbers with an area code.
hnpa:	North American numbers without an area code.

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Lucent recommends the following call types be used:

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int:	For all international numbers.
natl:	For all national PN numbers.
pubu:	For all other external (that is, not extensions) numbers.

System Parameters Administration

Only those feature-related parameters that may have a Type Approval or basic connectivity implication for a particular country are listed here.

- Feature-Related System Parameters Administration
 - System-Parameters Customer-Options

change system-parameters customer-options Page 1 of 2 OPTIONAL FEATURES ARS? y Page 2 of 2 Multifrequency Signaling? y display system-parameters country-options SPE A Page 1 of 21 SYSTEM PARAMETERS COUNTRY-OPTIONS Companding Mode: A-Law Base Tone Generator Set: 18 440Hz PBX-dial Tone? n 440Hz Secondary-dial Tone? n Digital Loss Plan: 18 Analog Ringing Cadence: 18 Set Layer 1 timer T1 to 30 seconds? n Analog Line Transmission: 18 TONE DETECTION PARAMETERS Tone Detection Mode: 4 Dial Tone Validation Timer(msec): 600 Interdigit Pause: long

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System-Parameters Country-Options

display system-paramete	rs country-	options	Page	2 of	21	SPE	A
	SYSTEM PAR	AMETERS COUNTRY-OPT	IONS				
Tone Name	Cadence	Tone					
	Step	(Frequency/Level)					
PBX-dial	1:	440/-11.0	Duration	(msec)	: 100		
	2:	goto		Step	: 1		
	3:						
display system-paramet	ers country	-options	Page	3 of	21	SPE	A
	SYSTEM PAR	AMETERS COUNTRY-OPT	IONS				
Tone Name	Cadence	Tone					
	Step	(Frequency/Level)					
confirmation	1:	440/-11.0	Duration	(msec)	: 400		
	2:	silence	Duration	(msec)	: 50		
	3:	440/-11.0	Duration	(msec)	: 400		
	4:	silence	Duration	(msec)	: 50		
	5:	440/-11.0	Duration	(msec)	: 400		
	6:	silence	Duration	(msec)	: 50		
	7:						
Λ							
\mathbf{X}							

display system-parame			5	of 21	SPE A
	SYSTEM	PARAMETERS COU	NTRY-OPTIONS		
Tone Name	Cade	nce Tone			
	Ste	p (Frequency	/Level)		
busy	1:	440/-11.0	Duration(msec)	: 350	
	2:	silence	Duration(msec)	: 350	
	3:	goto	Step	: 1	
	4:				
)

display system-paramet	ers country-	options	Page	5 of	21	SPE	A
	SYSTEM PAR	AMETERS COUNTRY-OPT	IONS				
Tone Name	Cadence	Tone					
	Step	(Frequency/Level)					
reorder	1:	440/-11.0	Duration	n(msec)	: 700		
	2:	silence	Duration	n(msec)	: 700		
	3:	goto		Step	: 1		
	4:			-			

display syste	em-parameters	country-	options	Page 6	of 21 SI	
	-	-	AMETERS COUNTRY-OPT	5	01 11 0.	
Tone	e Name	Cadence	Tone			
		Step	(Frequency/Level)			
ringback	k	1:	440/-11.0	Duration(m	nsec): 1000	
		2:	silence	Duration(m	nsec): 4000	
		3:	goto	Step:	1	
		4:				
		5:				

display system-parameter	a country	ontiona	Page	7 of	21	SPE	~	\
(display system-parameter	-	-	5	/ 01	21	SPE	A	
		AMETERS COUNTRY-OPTI	ONS					
Tone Name	Cadence	Tone						
	Step	(Frequency/Level)						
intercept	1:	440/-11.0	Duration(msec)	: 100			
	2:	silence	Duration(msec)	: 100			
	3:	440/-11.0	Duration(msec)	: 100			
	4:	silence	Duration(msec)	: 100			
	5:	440/-11.0	Duration(msec)	: 100			
	6:	silence	Duration(msec)	: 100			
	7:	440/-11.0	Duration(msec)	: 400			
	8:	silence	Duration(msec)	: 400			
	9:	goto		Step	: 1			
	10:			_				
\backslash								

lisplay system-paramet	-	options AMETERS COUNTRY-OPT	Page 8 of	21 SPE A
Tone Name	Cadence	Tone	10100	
	Step	(Frequency/Level)		
intrusion	1:	440/-17.25	Duration(msec):	200
	2:	silence	Duration(msec):	200
	3:	440/-17.25	Duration(msec):	200
	4:	silence	Duration(msec):	600
	5:	goto	Step:	: 1
	6:		_	

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display system-paramete	-	options AMETERS COUNTRY-OPT	Page LONS	9 of	21	SPE	A
Tone Name	Cadence Step	Tone (Frequency/Level)					
1-call-wait	1: 2:	440/-11.0	Duratior	(msec)	: 400		

display system-parame	-	options AMETERS COUNTRY-OPT	Page	10 of	21	SPE	A
Tone Name	Cadence	Tone	IONS				
TOHE Name							
	Step	(Frequency/Level)					
2-call-wait	1:	440/-11.0	Duratio				
	2:	silence	Duratio	n(msec)	: 100		
	3:	440/-11.0	Duratio	n(msec)	: 200		
	4:						

(/ display system-paramete	rs country-	options	Page	11 of	21	SPE A)
		SYSTEM PAR	AMETERS COUNTRY-OPT	IONS				
	Tone Name	Cadence	Tone					
		Step	(Frequency/Level)					
	conference	1:	950/-10.0	Duratio	n(msec)	: 400)	
		2:	silence	Duratio	n(msec)	: 100	000	
		3:	goto		Step	: 1		
		4:						
/	\backslash							1

Application Notes for Type Approval China

System-Parameters Features

							\mathbf{i}
1	display system-parameters features	Page	1 of	б	SPE	А	
	FEATURE-RELATED SYSTEM PARAMETER	S					
	Trunk-to-Trunk Transfer:	all					
	Coverage - Subsequent Redirection No Answer Interval:	2					
	Coverage - Caller Response Interval (seconds):	4					
	Keep Held SBA at Coverage Point?	У					
	Automatic Callback - No Answer Timeout Interval (rings):	3					
	Call Park Timeout Interval (minutes):	10					
	Off-Premises Tone Detect Timeout Interval (seconds):	10					
	AAR/ARS Dial Tone Required?	У					
	Music/Tone on Hold:	tone					
	Music (or Silence) on Transferred Trunk Calls?	no					
	DID/Tie/ISDN Intercept Treatment:	attd					
	Messaging Service Adjunct (MSA) Connected?	n					
	Internal Automatic Answer for Attendant Extended Calls?	n					
	Automatic Circuit Assurance (ACA) Enabled?	n					
	Abbreviated Dial Programming by Assigned Lists?	n					
	Auto Abbreviated/Delayed Transition Interval (rings):	2					

/	/	-	- F	c	a de la	7
	display system-parameters features Page FEATURE-RELATED SYSTEM PARAMETERS	5	OL	6	SPE	А
		-				
	Public Network Trunks on Conference Call:					
	Conference Parties with Public Network Trunks:					
	Conference Parties without Public Network Trunks:	6				
	Night Service Disconnect Timer (seconds):	180				
	Short Interdigit Timer (seconds):	3				
	Unanswered DID Call Timer (seconds):					
	Line Intercept Tone Timer (seconds):	30				
	Auto Start?	n				
	Auto Hold?	v				
	Attendant Tone?	-				
	Bridging Tone?	-				
l	Conference Tone?					
l		-				
l	Intrusion Tone?	-				
	DID Busy Treatment:		e			
	Allow AAR/ARS Access from DID/DIOD?	n				
	DISTINCTIVE AUDIBLE ALERTING					
	Internal: 1 External: 2 Priority:	3				
	\mathbf{N}					

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Application Notes for Type Approval *China*

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display system-parameters features
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                                                                        6
                                                                            SPE A
                         FEATURE-RELATED SYSTEM PARAMETERS
                                                       Pull Transfer: n
                                            Level Of Tone Detection: broadband
                                      Wait Answer Supervision Timer? n
                                       Repetitive Call Waiting Tone? n
                                              Outpulse Without Tone? n
                             Network Feedback During Tone Detection? n
                      Intercept Treatment On Failed Trunk Transfers? y
                                      Vector Disconnect Timer (min):
                               Station Busy Tone Forward Disconnect? n
                                              Misoperation Alerting? y
RECALL TIMING
         Flashhook Interval? y
                                                  Upper Bound (msec): 1000
                                                  Lower Bound (msec): 200
                                    Forward Disconnect Timer (msec): 600
ENHANCED DCS
       Enhanced DCS Enabled? n
```

Analog Trunk Administration

Analog CO Trunks

- Trunk Group screen
 - Outgoing Dial Type: tone or rotary (depending on what is accepted by the serving switch)

```
display trunk-group 1
                                                             Page 1 of 10
                              TRUNK GROUP
Group Number:
                                Group Type: co
  Direction: two-way
Dial Access? n
                                   Country: 18
   Prefix-1? n
                               Trunk Flash? y
                                                    Toll Restricted? n
TRUNK PARAMETERS
           Trunk Type: loop-start
   Outgoing Dial Type: tone or rotary
                                                        Cut-Through? n
                                       Disconnect Timing(msec): 500
    Trunk Termination: rc
           Auto Guard? n Call Still Held? n Sig Bit Inversion: none
```

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The following table gives admin values that are based on the length of the trunk loop. Choose "short" for type approval:

Loop Length	Trunk Gain	Terminal Balance	RA Trunk Loss
short	low	n	0dB
long	high	n	2dB

Disconnect Supervision - In? y Out? n Answer Supervision Timeout: 10 Cyclical Hunt? y Receive Answer Supervision? n

PPM? y (if provided by the serving switch)

display trunk-group 1 Page 3 of 10 TRUNK GROUP ADMINISTRABLE TIMERS Outgoing Disconnect(msec): 600 Incoming Disconnect(msec): 600 Outgoing Dial Guard(msec): 100 Outgoing Glare Guard(msec): 1000 Incoming Glare Guard(msec): 1000 Outgoing Rotary Dial Interdigit(msec): 800 Ringing Monitor(msec): 5200 Incoming Seizure(msec): 800 Outgoing Seizure Response(sec): 5 Programmed Dial Pause(msec): 1500 Flash Length(msec): 100 OUTPULSING INFORMATION PPS: 10 Make(msec): 35 Break(msec): 65 PPM? y Frequency: 16k

Route Pattern Administration

- First Dial Tone Detection (needed on analog CO trunks)
 - Number Delete Digits: 0
 - Inserted Digits: +

Digital Trunk Administration

This section does not list all possible valid administrable combinations. Rather the most common or standard combination, compatible with public-network and Type Approval standards for each country, is presented.

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 Multifrequency Signaling — System-Parameters Multifrequency Signaling screen Request Incoming ANI (non-AAR/ARS)? n (to simenter yes) 	nulate CO,

display system-parameters multifrequency-signaling SPE A Page 1 of 3 MULTIFREQUENCY-SIGNALING-RELATED SYSTEM PARAMETERS Incoming Call Type: group-ii-mfc Outgoing Call Type: group-ii-mfc Maintenance Call Type: none Test Call Extension: Interdigit Timer (sec): 10 Outgoing Forward Signal Present Timer (sec): 255 Outgoing Forward Signal Absent Timer (sec): 255 Multifrequency Signaling Incoming Intercept Treatment? y Received Signal Gain(-Loss) (dB): 0 Transmitted Signal Gain(-Loss) (dB): -3 ANI Prefix: 20 Collect All Digits Before Seizure? n ANI for PBX: 399 Next ANI Digit: next-digit Request Incoming ANI (non-AAR/ARS)? n Called Party Category: call-type Use COR for Calling Party Category? y

MULT	ameters multifrequency IFREQUENCY-SIGNALING-R SIGNAL TYPES	ELATED SYSTEM PARAM INCOMING BACKWARD	ETERS		
nina req terminol	 оду: КD				
PQABCD	KD	A1,A3		КB	
Group-I	Group-II	Group-A		Group-B	
	1: toll-operator				
	2: toll-auto			busy	
13: ignored	3: normal	4 : congestion	3 :	toll-busy	
14: ignored	4: data-call	6 : send-ani	4 :	congestion	
15: end-of-ani	5:	:	5:	intercept	
	6:	:	:		
	7: normal	:	:		
	8: normal	:	:		
	9: normal	:	:		
	10: normal	:	:		
	11: normal	:	:		
	12: normal	:	:		
	13: normal	:	:		
	14: normal	:	:		
	15: normal	:	:		

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China

NOTE:

In China, the terminology is as follows:

- Group -I = PQABCD - Group -II = KD
- Group-A = A1, A3
- Group-B = KB

MULT	IFREQUENCY-SIGNALING SIGNAL TYPES	y-signaling Pag RELATED SYSTEM PARAME OUTGOING BACKWARD S (Tones from CO)	TERS		A
China req terminol X0X2,P KA,P'D' QABCD		A1,A6,A3′		КВ	
Group-I	Group-II	Group-A		Group-B	
15: end-of-ani	1 : attendant	1: next-digit	1:	free	
:	2 : toll-auto	2: restart	2:	busy	
:	3 : normal	3: end-of-dial	3:	toll-busy	
:	4 : data-call	4: congestion	4:	congestion	
:	:	5: intercept	5:	intercept	
	:	6: send-ani	6:	free	
	:	7:	7:	intercept	
	:	8:	8:	congestion	
	:	9:	9:	congestion	
	:	10:	10:	congestion	
	:	11:	11:	congestion	
	:	12:	12:	congestion	
	:	13:	13:	congestion	
	:	14:	14:	congestion	
	:	15:	15:	congestion	



In China, the terminology is as follows:

- Group -I =
 - X0...X2, P
 - KA, P'...D'
 - QABCD
- Group -II = KD
- Group-A = A1, A6, A3'
- Group-B = KB
- **Digital MFC Trunks**
 - DS1 Administration screen

Application Notes for Type Approval China

display ds1 a14			SPE	A
	DS	S1 CIRCUIT PACK		
Location:	01A14	Name:		
Bit Rate:	2.048	Line Coding: hdb3		
Signaling Mode:	CAS			
Interconnect:	CO	Country Protocol: 18		
Interface Companding:	alaw	CRC? n		
Idle Code:	01010100			
MAINTENANCE PARAMETE	RS			
Slip Detection?	n	Near-end CSU Type: other		

- Digital DIOD Trunks
 - Trunk Group screen

display trunk-group 1	Page 1 of 11 SPE A
TRUNK GROUP	
Group Number: 1 Group Type:	diod CDR Reports? y
Group Name: OUTSIDE CALL COR:	1 TN: 1 TAC: 801
Direction: two-way Outgoing Display?	'n
Dial Access? y Busy Threshold:	99
Queue Length: 0 Country:	18
Auth Code?	n Digit Absorption List:
Prefix-1? y Trunk Flash?	n Toll Restricted? n
TRUNK PARAMETERS	
Trunk Type: loop-start	
Outgoing Dial Type: mf	Incoming Dial Type: mf
Trunk Termination: rc	
Digit Treatment:	Digits:
Expected Digits:	Sig Bit Inversion: none
Terminal Balanced? n	RA Trunk Loss: 0db
Trunk Gain:	high Drop Treatment: silence
Disconnect Supervision - In? y Out? n	Cyclical Hunt? n
Answer Supervision Timeout: 10 Re	ceive Answer Supervision? n
1	

display trunk-group 1 TRUNK FEATURES				Page	2 of	11	SPE A
ACA Assignment? r	ı	Measured:	none	Main	ltenanc	e Tes	ts? v
Suppress # Outpulsing? r		a Restriction?	n	nath		0 100	. ,
N N							

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display trunk-group 1 Page 3 of 11 SPE A TRUNK GROUP ADMINISTRABLE TIMERS Incoming Disconnect(msec): 500 Outgoing Disconnect(msec): 500 Incoming Dial Guard(msec): 70 Outgoing Dial Guard(msec): 1600 Incoming Glare Guard(msec): 1500 Outgoing Glare Guard(msec): 1500 Ringing Monitor(msec): 5200 Incoming Seizure(msec): 500 Outgoing End of Dial(sec): 10 Outgoing Seizure Response(sec): 5 Programmed Dial Pause(msec): 1500 Flash Length(msec): 540 Incoming Incomplete Dial Alarm(sec): 255 END TO END SIGNALING Tone(msec): 350 Pause(msec): 150 OUTPULSING INFORMATION PPS: 10 Make(msec): 40 Break(msec): 60 PPM? n

- Digital DID Trunks
 - Trunk Group screen
 - Expected Digits: 4 (as negotiated with the serving switch)

```
TRUNK GROUP
                                 Group Type: did
                                    Country: 11
                                  Auth Code? n
TRUNK PARAMETERS
           Trunk Type: immed-start
                                       Incoming Rotary Timeout(sec): 5
                                                  Incoming Dial Type: mf
    Trunk Termination: rc
                                             Disconnect Timing(msec): 500
      Digit Treatment:
                                                              Digits:
      Expected Digits: 4
                                                   Sig Bit Inversion: none
    Terminal Balanced? n
                                                      RA Trunk Loss: 0db
   Extended Loop Range? n
                                Trunk Gain: high
                                                      Drop Treatment: silence
 Disconnect Supervision - In? y
```

```
TRUNK GROUP
ADMINISTRABLE TIMERS
Incoming Disconnect(msec): 500
Incoming Dial Guard(msec): 50
Flash Length(msec): 100 Incoming Incomplete Dial Alarm(sec): 255
```

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Detailed Description for China

Forced Disconnect

Forced Disconnect allows a network operator to disconnect a called party from a local call and connect the called party to an incoming toll call. Parties on the local call hear a warning tone before disconnect. Forced Disconnect is allowed only for callers on local single-station calls. It is ignored by DEFINITY ECS on conference, transferred, and forwarded calls. It is also ignored for calls to group users and tandem calls.

Mode-of-Release Control

Mode-of -Release Control inhibits release of a trunk circuit when a caller goes on-hook, based on call type and direction. Instead of releasing the trunk circuit, DEFINITY ECS keeps the circuit active and reconnects the call if the caller goes back off-hook. Call types for which this applies are toll, local, or service. Direction is incoming or outgoing. There are three types of control.

Calling-Party Control

When Calling-Party Control is active, the trunk is not released until the caller goes on-hook. Several situations may occur.

- If the caller goes on-hook, the trunk is released immediately. The called party receives busy tone.
- If the called party goes on-hook, the trunk is not released until the caller goes on-hook or the re-answer timer for outgoing calls expires. The called party can re-answer the call and talk to the calling party. See <u>"Re-ring" on</u> page 115.
- If the re-answer timer is activated and expired, the trunk is released on outgoing calls with Calling-Party Control.

Called-Party Control

When Called-Party Control is active, the trunk is not released until the called party goes on-hook. Several situations may occur.

- If the called party goes on-hook, the trunk is released immediately. The caller receives busy tone.
- If the caller goes on-hook, the trunk is not released until the called party goes on-hook. The caller can go off-hook again to reconnect. There is no timer involved with Called-Party Control.

First-Party Control

When First-Party Control is active, the trunk is released immediately regardless of whether the caller or called party goes on-hook first. The party that is still connected receives busy tone. The default or normal Mode-of-Release Control for DEFINITY ECS is First-Party Control.

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Re-ring

Re-ring occurs for incoming calls to DEFINITY ECS with Calling-Party Control. Basically, when the called party goes on-hook, the trunk is not released and Re-ring allows the CO operator to re-ring the called party and reconnect the call.

Interactions

Forced Disconnect

Conference

If the network toll call terminates at a phone involved in a conference, the Forced Disconnect signal is not sent by the network.

Call Forwarding

For calls forwarded on-premises, on-net, or off-net, the Forced Disconnect signal is not forwarded.

Group Users

If a network toll call terminates to a group user, the Forced Disconnect signal is not sent by the network.

Non-Station Users

If a network toll call terminates to a non-station user, the Forced Disconnect signal is not sent by the network.

Tandem Trunks

DEFINITY ECS does not tandem a Forced Disconnect signal.

Transfer

If a network toll call is transferred, the Forced Disconnect signal is not sent by the network.

Mode-of-Release Control

Conference

A call involved in a conference is changed to First-Party Control as the mode-of-release control.

Forward

A forwarded call on-premises, on-net, or off-net is changed to First-Party Control as the mode-of-release control.

Group Users (Hunt, Trunk, TEG, AUDIX, VDN)

Calls terminating to group users are changed to First-Party Control as the mode-of-release control.

Application Notes for Type Approval China

 Non-Station Users (Personal Attendant, Data-module, Announcement, Voice Synthesis)

Calls terminating to non-station users are changed to First-Party Control as the mode-of-release control.

Tandem Trunks

DEFINITY ECS terminates tandem calls, but the mode-of-release control is changed to First-Party Control.

Transfer

A transferred call is changed to First-Party Control as the mode-of-release control.

Re-ring

Conference

A call involved in a conference is changed to First-Party Control as its mode-of-release control. First-Party Control calls do not re-ring.

Call Forwarding

For calls forwarded on-premises, on-net, or off-net, Re-ring signals are not forwarded.

Group Users (Hunt, Trunk, TEG, AUDIX, and VDN, etc.)

Re-ring signals sent to group users are ignored by DEFINITY ECS.

 Non-Station Users (Personal Attendant, Data-module, Announcement, Voice Synthesis)

Re-ring signals sent to non-station users are ignored by DEFINITY ECS.

Tandem Trunks

DEFINITY ECS does not tandem re-ring signals.

Transfer

A transferred call is changed to First-Party Control as its mode-of-release control. First-Party Control calls do not re-ring.

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Colombia

Table 23 shows the recommended circuit packs.

Table 23. Recommended and Available CPs in Colombia

Equipment	Equipment Type
Cabinet Type & Power	GAC-MCC DC-MCC AC-SCC DC-SCC AC-CSCC AC-CMC
AC Power Voltage & Freq	120V/50Hz 240V/50Hz
Ring Generator	20Hz
Tone Detector	>TN2182B >TN744D
Tone Clock	>TN2182B
R2MFC Circuit	
Speech Synthesizer	
Call Classifier	>TN744D
Announcement	>TN750C
Analog DID Trunk	
Analog CO Trunk (No PPM)	
Analog CO Trunk (w/PPM)	
4 Wire Tie Trunk	
2 Wire Tie Trunk	
Auxiliary Trunk	
Digital CO/DID Trunk	>TN464F
Digital Tie Trunk	>TN464F
Digital PRI CO Trunk	>TN464F
Digital BRI Trunk	
Digital Converter PRI-DASS	
Digital Converter PRI-DPNSS	
Digital Converter PRI-BRI	
8 Port Analog Line	
16 Port Analog Line	
24 Port Analog Line	n/a

Table 23.	Recommended and	Available CPs in	Colombia —	Continued
-----------	-----------------	------------------	------------	-----------

Equipment	Equipment Type
4 Wire Digital Line	>TN754B
2 Wire Digital Line	#TN2224 >TN2181
Data Line	
BRI-U Line	
BRI-ST Line	

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Costa Rica

Table 24 shows the recommended circuit packs.

Table 24. Recommended and Available CPs in Costa Rica

Equipment	Equipment Type
Cabinet Type & Power	GAC-MCC AC-MCC DC-MCC AC-SCC DC-SCC AC-CSCC AC-CMC
AC Power Voltage & Freq	120V/60Hz 240V/60Hz
Ring Generator	20Hz
Tone Detector	>TN2182B >TN744D TN748D TN748C
Tone Clock	>TN2182B TN780 TN768
R2MFC Circuit	
Speech Synthesizer	>TN725B
Call Classifier	>TN744D
Announcement	>TN750C TN750B
Analog DID Trunk	
Analog CO Trunk (No PPM)	>TN747B
Analog CO Trunk (w/PPM)	
4 Wire Tie Trunk	>TN760D
2 Wire Tie Trunk	
Auxiliary Trunk	>TN763D
Digital CO/DID Trunk	>TN464F TN464E TN464D TN464C
Digital Tie Trunk	>TN464F TN464E TN464D TN464C
Digital ISDN CO Trunk	
Digital BRI Trunk	
Digital Converter PRI-DASS	
Digital Converter PRI-DPNSS	
Digital Converter PRI-BRI	
8 Port Analog Line	
16 Port Analog Line	>TN746B
24 Port Analog Line	n/a

Continued on next page

Equipment	Equipment Type
4 Wire Digital Line	>TN754B
2 Wire Digital Line	>TN2224 TN2181
Data Line	>TN726B
BRI-U Line	
BRI-ST Line	TN556B

Table 24. Recommended and Available CPs in Costa Rica — Continued

Feature Administration

The screen displays shown in this section were effective the date the type approval was awarded. The screens may have changed since that date.

ARS/AAR Administration

To enable ARS administration, on the System-Parameters Customer-Options screen, set the ARS field to **y**. You also should check all ARS/AAR defaults. All default ARS analysis codes are deleted before dialed strings are added for routing when DEFINITY is installed outside of North America. Be aware that the default for the 10 digits cause dialing problems. In particular, the following call types (appear as ARS/AAR defaults) typically are not used in non-North American ARS/AAR tables:

fnpa:	North American numbers with an area code.
hnpa:	North American numbers without an area code.
SVC:	North American numbers of the screen "x11".

Lucent recommends only the following call types be used outside North America:

int:	For all international numbers.
natl:	For all national PN numbers.
pubu:	For all other external (that is, not extensions) numbers.

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System Parameter Administration	
Only those feature-related parameters that may have a Type Appro- connectivity implication for a particular country are listed here.	val or basic

Feature-Related System Parameters

Page 1 of 6 FEATURE-RELATED SYSTEM PARAMETERS Trunk-to-Trunk Transfer: all Coverage - Subsequent Redirection No Answer Interval: 2 Coverage - Caller Response Interval (seconds): 4 Keep Held SBA at Coverage Point? y Automatic Callback - No Answer Timeout Interval (rings): 7 Call Park Timeout Interval (minutes): 10 Off-Premises Tone Detect Timeout Interval (seconds): 20 AAR/ARS Dial Tone Required? y Music/Tone on Hold: none Music (or Silence) on Transferred Trunk Calls? no DID/Tie/ISDN Intercept Treatment: attd Internal Automatic Answer for Attendant Extended Calls? n Automatic Circuit Assurance (ACA) Enabled? n

2 of 6 Page FEATURE-RELATED SYSTEM PARAMETERS LEAVE WORD CALLING PARAMETERS Maximum Number of Messages Per Station (when MSA not in service):20 Stations with System-wide Retrieval Permission (enter extension) 1: 2: 3: 4: 5: 6: 7: 8: 9: 10: SEE USER DOCUMENTATION BEFORE CHANGING TTI STATE WARNING! Terminal Translation Initialization (TTI) Enabled? n External Coverage Treatment for Transferred Incoming Calls? n SECURITY VIOLATION NOTIFICATION (SVN) PARAMETERS HAVE MOVED TO THE SYSTEM-PARAMETERS SECURITY SCREEN

 $\ensuremath{\mathsf{DEFINITY}}\xspace^{\ensuremath{\mathsf{B}}}$ Enterprise Communications Server Application Notes for Type Approval

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	Page	3 of	6
FEATURE-RELATED SYSTEM PARAMETERS			
Reserved Slots for Attendant Priority Queue Time before Off-hook Alert Emergency Access Redirection Extension Service Observing Warning Tone Number of Emergency Calls Allowed in Attendant Queue Call Pickup Alerting Deluxe Paging and Call Park Timeout to Originator Controlled Outward Restriction Intercept Treatment: tone Controlled Termination Restriction (Do Not Disturb): tone Controlled Station to Station Restriction: tone	: 10 : ? y : 5 ? n		
AUTHORIZATION CODE PARAMETERS Authorization Codes Enabled Authorization Code Length Authorization Code Cancellation Symbol Attendant Time Out Flag Display Authorization Code	: : # ? n		

(Page 4 of	6
	FEATURE-RELATED SYSTEM PARAMETERS	
	SYSTEM PRINTER PARAMETERS System Printer Extension: Lines Per Page: 0	60
	SYSTEM-WIDE PARAMETERS Switch Name:	
	CALL CENTER SYSTEM PARAMETERS Direct Agent Announcement Extension:	
	Direct Agent Announcement Delay: Converse Delay Data1: 0 Data2: 2 Direct Agent Announcement Extension: Converse Pulse ON: 100 OFF: 2 Prompting Timeout (secs): 2	70
	CALL MANAGEMENT SYSTEM PARAMETERS BCMS/VuStats Measurement Interval: hour BCMS/VuStats Abandon Call Timer (seconds): Validate Login IDs? MACD Login Identification Length: Adjunct CMS Release:	n
	MALICIOUS CALL TRACE PARAMETERS Apply MCT Warning Tone? n MCT Voice Recorder Trunk Group:	

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FEATURE-RELATED SYSTEM	PARAMETERS
Public Network Trunks on Conference Call: Conference Parties with Public Network Trunks: Conference Parties without Public Network Trunks: Night Service Disconnect Timer (seconds): Short Interdigit Timer (seconds): Unanswered DID Call Timer (seconds): Line Intercept Tone Timer (seconds): DID Busy Treatment: Allow AAR/ARS Access from DID/DIOD?	6 Auto Hold? n 6 Attendant Tone? y 180 Bridging Tone? n 3 Conference Tone? n Intrusion Tone? n 30 tone
DISTINCTIVE AUDIBLE ALERTING Internal: 1 External: 2 Attendant Origina	Priority: 3 ated Calls: external

Page 6 of 6 FEATURE-RELATED SYSTEM PARAMETERS Pull Transfer: n Update Transferred Ring Pattern? n Outpulse Without Tone? n Wait Answer Supervision Timer? y Repetitive Call Waiting Tone? y Allow Conference via Flash? y Vector Disconnect Timer (min): Network Feedback During Tone Detection? n Hear Zip Tone Following VOA? n Intercept Treatment On Failed Trunk Transfers? n Station Tone Forward Disconnect: silence Level Of Tone Detection: broadband RECALL TIMING Flashhook Interval? y Upper Bound (msec): 700 Lower Bound (msec): 80 ENHANCED DCS Enhanced DCS Enabled? n Apply Intercept Locally? y Enforce PNT-to-PNT Restrictions? n

DEFINITY® Enterprise Communications Server Application Notes for Type Approval

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Multifrequency-Signaling-Related System Parameters

Page 1 of 3 MULTIFREQUENCY-SIGNALING-RELATED SYSTEM PARAMETERS Incoming Call Type: group-ii-mfc Outgoing Call Type: group-ii-mfc Maintenance Call Type: none Test Call Extension: Interdigit Timer (sec): 10 Outgoing Forward Signal Present Timer (sec): 15 Outgoing Forward Signal Absent Timer (sec): 30 Multifrequency Signaling Incoming Intercept Treatment? n Received Signal Gain(-Loss) (dB): 0 Transmitted Signal Gain(-Loss) (dB): -3 ANI Prefix: ANI for PBX: Next ANI Digit: send-ani ANI Prefix: Collect All Digits Before Seizure? n Request Incoming ANI (non-AAR/ARS)? y Called Party Category: user-type Use COR for Calling Party Category? n

Page 2 of 3 MULTIFREQUENCY-SIGNALING-RELATED SYSTEM PARAMETERS INCOMING FORWARD SIGNAL TYPES INCOMING BACKWARD SIGNAL TYPES (Tones from CO) (Tones to CO) Group-II 1: normal 2: normal 3: normal Group-A Group-B 1: next-digit 2: intercept 3: end-of-dial 3: busy 4: congestion 4: congestion 5: send-ani 6: free Group-I 11: ignored 12: ignored 13: ignored 14: ignored 4: normal 15: end-of-ani 5: normal 6: data-call 7: normal 8: normal 9: normal 10: normal 11: normal 12: normal 13: normal 14: normal 15: normal

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Μ	ULTIFREQUENCY-SIGN	ING-RELATED SYSTEM PARAMETERS	5
OUTGOING FORWARD (Tones to CO)	SIGNAL TYPES	OUTGOING BACKWARD SIGNAL TYP (Tones from CO)	?ES
Group-I	Group-II	Group-A Gi	roup-B
15: end-of-ani		1: next-digit 1: fre	зе
	5: attendant	2: last-digit 2: int	tercept
	6: data-call	3: end-of-dial 3: bus	зу
		4: congestion 4: con	ngestion
		5: send-ani 5: int	tercept
		6: setup-sppath 6: fre	e
		7: last-2-digits 7: fre	ee
		8: last-3-digits 8: cor	ngestion
		9: resend-digit 9: com	ngestion
		10: restart 10: com	ngestion
		11: congestion 11: con	ngestion
		12: congestion 12: con	ngestion
		13: congestion 13: con	ngestion
		14: congestion 14: con	ngestion
		15: congestion 15: con	ngestion
、 、			

System Parameters Country-Options

	Page 1 of 7	
SYSTEM PARAMETERS	2	
Companding Mode: Mu-Law 440Hz PBX-dial Tone? n Digital Loss Plan: 1 Analog Ringing Cadence: 1	Base Tone Generator Set: 1 440Hz Secondary-dial Tone? n	
TONE DETECTION PARAMETERS Tone Detection Mode: 1 Interdigit Pause: short)

9: 10:

			Page	2 of
	SYSTEM PARAME	TERS COUNTRY-OPTIONS		
Tone Name	Cadence Step	Tone (Frequency/Level)		
Secondary-Dial	1: 425/-17.25 2: Goto 3: 4: 5: 6:	Duration(msec): 10000 Step: 1		

Trunk Group Administration

CO Trunk Group Administration

Page 1 of 10 TRUNK GROUP Group Type: co COR: 1 Group Number: CDR Reports: y Group Name: OUTSIDE CALL TN: 1 TAC: Direction: two-way Outgoing Display? n al Access? n Busy Threshold: 99 Dial Access? n Busy T Queue Length: 0 Country: 1 Night Service: 1 Incoming Destination. Auth Code? n Digit Absorption List: Comm Type: voice Prefix-1? n Trunk Flash? n Toll Restricted? n TRUNK PARAMETERS Trunk Type: loop-start Outgoing Dial Type: tone Cut-Through? n Trunk Termination: rc Disconnect Timing(msec): 500 Auto Guard? n Call Still Held? n Sig Bit Inversion: none Terminal Balanced? n RA Trunk Loss: 0db Trunk Gain: high Disconnect Supervision - In? n Out? n Cyclical Hunt? n Receive Answer Supervision? n Answer Supervision Timeout: 20

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(Page	2 of 10	
	TRUNK FEATURES ACA Assignment?	n		Measured:	none			
			Data R	estriction?	n	Maintenance	Tests?	У
	Abandoned Call Search? Suppress # Outpulsing?							
1								

	Page 3 of 10
	TRUNK GROUP
ADMINISTRABLE TIMERS	
<pre>Incoming Disconnect(msec):</pre>	500 Outgoing Disconnect(msec): 500 Outgoing Dial Guard(msec): 1600
<pre>Incoming Glare Guard(msec):</pre>	1500 Outgoing Glare Guard(msec): 1500
Ringing Monitor(msec):	5200 Incoming Seizure(msec): 500
Outgoing End of Dial(sec): Programmed Dial Pause(msec): Flash Length(msec):	1500
END TO END SIGNALING	
Tone(msec): 350	Pause(msec): 150
OUTPULSING INFORMATION PPS: 10 Make(msec): 40	Break(msec): 60 PPM? n

						Page	4 of 10
				TRUNK GR	OUP		
GDOUD	NENDER 100		70			rs (min/max): ered Members:	0 / 0 0
GROUP Port 1: 2: 3:	MEMBER ASS Code	IGNMEN: Sfx	Name	Night	Mode	Туре	Ans Delay
							/

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DIOD Trunk Group Administration

Page 1 of 10 TRUNK GROUP Group Type: diod CDR Reports: y COR: 1 TN: 1 TAC: Group Number: Group Name: OUTSIDE CALL Direction: two-way Outgoing Display? n Dial Access? n Busy Threshold: 99 Queue Length: 0 Country: 1 Auth Code? n Digit Absorption List: Trunk Flash? n Toll Restricted? Prefix-1? n Toll Restricted? n TRUNK PARAMETERS Trunk Type: immed-start Outgoing Dial Type: mf Incoming Dial Type: mf Trunk Termination: rc Digit Treatment: Digits: Expected Digits: Sig Bit Inversion: none Terminal Balanced? n RA Trunk Loss: 0db Trunk Gain: high Drop Treatment: silence Disconnect Supervision - In? y Out? n Answer Supervision Timeout: 10 Receive Answer Supervision? n

Page 2 of 20 TRUNK FEATURES ACA Assignment? n Measured: none Data Restriction? n Suppress # Outpulsing? y

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TRUNK GROUP

ADMINISTRABLE TIMERS Outgoing Disconnect(msec): 500 Incoming Disconnect(msec): 500 Incoming Dial Guard(msec): 70 Outgoing Dial Guard(msec): 1600 Incoming Glare Guard(msec): 1500 Outgoing Glare Guard(msec): 1500 Ringing Monitor(msec): 5200 Incoming Seizure(msec): 500 Outgoing End of Dial(sec): 10 Outgoing Seizure Response(sec): 5 Programmed Dial Pause(msec): 1500 Flash Length(msec): Incoming Incomplete Dial Alarm(sec): 255 END TO END SIGNALING Tone(msec): 350 Pause(msec): 150 OUTPULSING INFORMATION PPS: 10 Make(msec): 40 Break(msec): 60 PPM? n

Page 4 of 10 TRUNK GROUP Administered Members (min/max): 0/0 GROUP MEMBER ASSIGNMENTS Port Code Sfx Name Night Mode Type Ans Delay 1: 2: 3: DEFINITY® Enterprise Communications Server Application Notes for Type Approval

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DID Trunk Group Administration

Page 1 of 10 TRUNK GROUP Group Type: did CDR Reports: COR: 1 TN: 1 TAC: Group Number: CDR Reports: y Group Name: OUTSIDE CALL Country: 1 Auth Code? n TRUNK PARAMETERS Trunk Type: immed-start Incoming Rotary Timeout(sec): 5 Incoming Dial Type: mf Trunk Termination: rc Disconnect Timing(msec): 500 Digit Treatment: Digits: Expected Digits: Sig Bit Inversion: none Terminal Balanced? n RA Trunk Loss: 0db Extended Loop Range? n Trunk Gain: high Drop Treatment: silence Disconnect Supervision - In? y

Page 2 of 10 TRUNK FEATURES ACA Assignment? n Measured: none Data Restriction? n Suppress # Outpulsing? n

Page 3 of 10 TRUNK GROUP ADMINISTRABLE TIMERS Incoming Disconnect(msec): 500 Incoming Dial Guard(msec): 70 Flash Length(msec): 540 Incoming Incomplete Dial Alarm(sec): 255 END TO END SIGNALING Tone(msec): 350 Pause(msec): 150

			Page	4 of 10
			TRUNK GROUP	
GROUP ME	MBER ASSIGNM	ENTS	Administered Members (min/max): Total Administered Members:	0 / 0 0
Port 1: 2: 3:	Code	Sfx	Name	

ISDN-PRI Trunk Group Administration

Page 1 of 10 TRUNK GROUP Group Type: isdn-pri CDR Reports: y Group Number: Group Name: OUTSIDE CALL COR: 1 TN: 1 TAC: Direction: two-way Outgoing Display? n Dial Access? n Busy Threshold: 99 Oueue Length: 0 Service Type: public-ntwrk Auth Code? n Test Call ITC: unre Far End Test Line No: TestCall BCC: 4 Codeset to send Display: 6 Codeset to Send TCM, Lookahead: 6 Max Message Size to send: 260 TRUNK PARAMETERS Charge Advice: none Suplementary Service Protocol: a Overlap Receiving? n Trunk Hunt:cyclical Connected to toll: n STT Loss: normal DTT to DCO Loss: n Calling Number - Delete: Insert: Numbering format: DTT to DCO Loss: normal Bit Rate: 1200 Syncronization: async Duplex: full Disconnect Supervision - In? y Out? n Answer Supervision Timeout: 0

 TRUNK FEATURES
 ACA Assignment? n
 Measured: none
 Wideband Support: n

 ACA Assignment? n
 Measured: none
 Maintenance Tests? y

 Data Restriction? n
 NCA-TSC Signaling Group: 1

 Send Name: n
 Send Calling Number: n

 Suppress # Outpulsing? n
 Send Connected Number: n

					Page	3 of 10	
			TRUNK GR	OUP			
GROUP ME	MBER ASSIGNME	INTS			rs (min/max): ered Members:	0 / 0 0	
Port 1: 2: 3:	Code	Sfx	Name	Night	Sig Grp		

DS1 for CO, DID and DIOD Trunks to the PTT Using Digital Trunks

		Page 1 of 1
	DS1 CIRCUIT PACK	
Location: Bit Rate: 2.048	Name: Line Coding:	E-1CO, DID, DIOD hdb3
Signaling Mode: CAS Interconnect: CO	Country Protocol:	8
Interface Companding: alaw Idle Code: 1111111	CRC?	n
MAINTENANCE PARAMETERS Slip Detection? n	Near-end CSU Type:	other

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DS1 for ISDN Trunks to the PPT

Page 1 of 1 DS1 CIRCUIT PACK Location: Name: E-1 ISDN Bit Rate: 2.048 Line Coding: hdb3 Signaling Mode: isdn-pri Connect: network Country Protocol: 12 Protocol Version: a Interface Companding: alaw CRC? n Idle Code: 11111111 MAINTENANCE PARAMETERS Slip Detection? n Near-end CSU Type: other

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Czech Republic

Table 25 shows the recommended circuit packs.

Table 25.Recommended and Available CPs in Czech Republic

Equipment	Equipment Type
Cabinet Type & Power	GAC-MCC DC-MCC AC-SCC AC-CSCC AC-CMC
AC Power Voltage & Freq	220V/50Hz
Ring Generator	25Hz
Tone Detector	>TN2182B >TN744D TN420C
Tone Clock	>TN2182B TN780
R2MFC Circuit	
Speech Synthesizer	>TN457
Call Classifier	>TN744D
Announcement	TN750C TN750B
Analog DID Trunk	>TN753v17
Analog CO Trunk (No PPM)	>TN747Bv12
Analog CO Trunk (w/PPM)	#TN465C >TN465B
4 Wire Tie Trunk	TN760Dv11
2 Wire Tie Trunk	
Auxiliary Trunk	>TN763D
Digital CO/DID Trunk	>TN464F TN464E
Digital Tie Trunk	>TN464F TN464E
Digital PRI CO Trunk	n/a
Digital BRI Trunk	>TN2185
Digital Converter PRI-DASS	
Digital Converter PRI-DPNSS	
Digital Converter PRI-BRI	
8 Port Analog Line	n/a
16 Port Analog Line	>TN746B
24 Port Analog Line	n/a

Equipment	Equipment Type
4 Wire Digital Line	>TN754B
2 Wire Digital Line	#TN2224 >TN2181 TN2136
Data Line	>TN726B
BRI-U Line	
BRI-ST Line	

Table 25. Recommended and Available CPs in Czech Republic — Continued

Feature Administration

The screen displays shown in this section were effective the date the type approval was awarded. The screens may have changed since that date.

Only those feature-related parameters that may have a Type Approval or basic connectivity implication for a particular country are listed here.

ARS/AAR Administration

To enable ARS administration, on the System-Parameters Customer-Options screen, set the ARS field to y. You also should check all ARS/AAR defaults. All default ARS analysis codes are deleted before dialed strings are added for routing when DEFINITY is installed outside of North America. Be aware that the default for the 10 digits cause dialing problems. In particular, the following call types (appear as ARS/AAR defaults) typically are not used in non-North American ARS/AAR tables:

fnpa:	North American numbers with an area code.
hnpa:	North American numbers without an area code.
SVC:	North American numbers of the screen "x11".

Lucent recommends only the following call types be used outside North America:

int:	For all international numbers.
natl:	For all national PN numbers.
pubu:	For all other external (that is, not extensions) numbers.

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System Parameter Administration				
Only those feature-related parameters that may have a Type connectivity implication for a particular country are listed he				
 Feature-Related System Parameters Administration 				
 Off-Premises Tone Detect Timeout Interval (seconds): 5 				
display system-parameters features FEATURE-RELATED SYSTEM PARAMETERS Trunk-to-Trunk Transfer: all Coverage Subsequent Redirection/CFWD No Answer Interval: 2 Coverage - Caller Response Interval (seconds): 4 Keep Held SBA at Coverage Point? y Automatic Callback - No Answer Timeout Interval (rings): 3 Call Park Timeout Interval (minutes): 10 Off-Premises Tone Detect Timeout Interval (seconds): 5 AAR/ARS Dial Tone Required? y Music/Tone on Hold: none Music (or Silence) on Transferred Trunk Calls? no	Page 1 of 6			

Unanswered DID Call Timer (seconds): 180

DID/Tie/ISDN Intercept Treatment: attd

Messaging Service Adjunct (MSA) Connected? n

Automatic Circuit Assurance (ACA) Enabled? n Abbreviated Dial Programming by Assigned Lists? n Auto Abbreviated/Delayed Transition Interval (rings): 2

testing optional responses to errors

Internal Automatic Answer for Attendant Extended Calls? n

 DID Busy Treatment (set to attendant for testing optional response to errors)

- Night Service Disconnect Timer (seconds): 10 (10 or blank for

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1	display system-parameters features	Page	5 of	6
	FEATURE-RELATED SYSTEM PARAMETERS			
	Public Network Trunks on Conference Call:	5		
	Conference Parties with Public Network Trunks:	6		
	Conference Parties without Public Network Trunks:	6		
	Night Service Disconnect Timer (seconds):	10		
	Short Interdigit Timer (seconds):			
	Unanswered DID Call Timer (seconds):			
	Line Intercept Tone Timer (seconds):			
	Auto Start?			
	Auto Hold?	-		
	Attendant Tone?	-		
	Bridging Tone?	n		
	Conference Tone?	n		
	Intrusion Tone?	У		
	DID Busy Treatment:	tone		
	Allow AAR/ARS Access from DID/DIOD?	n		
	DISTINCTIVE AUDIBLE ALERTING			
	Internal: 1 External: 2 Priority:	3		

Outpulse Without Tone? n (for dial tone detection)

- Network Feedback During Tone Detection? n (for dial tone detection)

```
display system-parameters features
                         FEATURE-RELATED SYSTEM PARAMETERS
                                                     Pull Transfer: n
                                            Level Of Tone Detection: precise
                                      Wait Answer Supervision Timer? n
                                       Repetitive Call Waiting Tone? n
                                              Outpulse Without Tone? n
                             Network Feedback During Tone Detection? n
                      Intercept Treatment On Failed Trunk Transfers? n
                                      Vector Disconnect Timer (min):
                                    Station Tone Forward Disconnect: intercept
                                              Misoperation Alerting? n
                                         Allow Conference via Flash? y
RECALL TIMING
        Flashhook Interval? y
                                                 Upper Bound (msec): 1000
                                                 Lower Bound (msec): 200
                                    Forward Disconnect Timer (msec): 600
ENHANCED DCS
      Enhanced DCS Enabled? n
```

System Parameters Customer Options

ARS? y (for dial tone detection)

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display system-parameters customer-options Page 1 of 2 OPTIONAL FEATURES G3 Version: V4 Logged-In ACD Agents: 150 Call Work Codes? n Abbreviated Dialing Enhanced List? n A/D Grp/Sys List Dialing Start at 01? n CAS Branch? n ACD? n CAS Main? n AT&T Adjunct Links? n DCS (Basic)? n Answer Supervision by Call Classifier? n DCS Call Coverage? n ARS? y DTMF Feedback Signals For VRU? n ARS/AAR Partitioning? y Emergency Access to Attendant? y ASAI Interface? n Expert Agent Selection (EAS)? n External Device Alarm Admin? n ATMS? n Audible Message Waiting? n Flexible Billing? n Authorization Codes? n Forced Entry of Account Codes? n BCMS (Basic)? n Hospitality (Basic)? y G3V3 Hospitality Enhancements? n BCMS/VuStats LoginIDs? n BCMS/VuStats Service Level? n Hospitality Parameter Reduction? n

- Malicious Call Trace? y (for Malicious Call feature)

- Multifrequency Signaling? y

display system-parameters customer-options OPTIONAL FEATURES ISDN-PRI? n Service Observing (VDNs)? n ISDN-PRI over PACCON? n Station and Trunk MSP? n Lookahead Interflow (LAI)? n Tenant Partitioning? n Malicious Call Trace? y Terminal Trans. Init. (TTI)? n Time of Day Routing? n Multifrequency Signaling? y Multiple Call Handling (On Request)? n Uniform Dialing Plan? n Multiple Call Handling (Forced)? n Vectoring (Basic)? n PASTE (Display PBX Data on Phone)? n Vectoring (Prompting)? n Vectoring (G3V4 Enhanced)? n Premier Business Package? y Vectoring (ANI/II-Digits Routing)? n Processor and System MSP? n Vectoring (G3V4 Advanced Routing)? n Private Networking? n VDN of Origin Announcement? n VDN Return Destination? n Restrict Call Forward Off Net? y Voice Mail Application Support? n Secondary Data Module? n VuStats? n Service Observing (Basic)? y VuStats (G3V4 Enhanced)? n Service Observing (Remote/By FAC)? n Wideband Switching? n

- System Parameter Country Options Administration
 - Companding Mode: A-Law
 - Digital Loss Plan: 14
 - Analog Ringing Cadence: 14

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— Analog Lin — Tone Detec	ne Transmission: 14 oction Mode: 5	
display system-parameters count SYSTEM Companding Mode: 440Hz PBX-dial Tone? Digital Loss Plan: Analog Ringing Cadence: Analog Line Transmission: TONE DETECTION PARAMETERS Tone Detection Mode: Interdigit Pause:	PARAMETERS COUNTRY-OPTIONS A-Law Base Tone Generator Set: 14 n 440Hz Secondary-dial Tone? n 14 14 Set Layer 1 timer T1 to 30 seconds? n 14 5 Dial Tone Validation Timer(msec): 500	

- Customized Individual Tones

In this section, customized tone definitions follow the data-entry syntax as specified for entry on the Individual Tone Administration Screen:

[(Frequency/Level)|silence|goto)][(Duration ms)|(Step)]

Intrusion:

- (425/-11.0)(350)
- (silence)(350)
- (425/-5.0)(350)
- (silence)(1500)
- (goto)(1)

- Reorder (Congestion):

- (425/-5)(150)
- (silence)(150)
- (goto)(1)

- Secondary Dial Tone:

- (425/-5)(150)
- (silence)(150)
- (425/-5)(150)
- (silence)(150)
- (425/-5)(150)
- (silence)(150)

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- (425/-5)(650)
- (silence)(650)
- (goto)(1)
- PBX Dial Tone:
 - (425/-5)(500)
 - (goto)(1)
- Busy:
 - (425/-5)(350)
 - (silence)(350)
 - (goto)(1)
- Ringback:
 - (425/-5)(1000)
 - (silence)(4000)
 - (goto)(1)
- Call Wait 1:
 - (425/-11)(350)
- Recall Dial:
 - (425/-4)(150)
 - (silence)(150)
 - (425/-4)(150)
 - (silence)(150)
 - (425/-4)(1000)
 - (goto)(5)
- CDR System Parameters
 - Primary Output format: int-direct (for showing PPM)

display system-parameters cdr	
CDR SYSTEM PARAME	TERS
Node Number (Local PBX ID): 1	CDR Date Format: month/day
Primary Output Format: int-direct	Primary Output Ext: eia
Secondary Output Format:	
Use ISDN Layouts? n	EIA Device Bit Rate: 9600
Use Enhanced Formats? n	
Record Outgoing Calls Only?	n Intra-switch CDR? n
Suppress CDR for Ineffective Call Attempts?	y CDR Call Splitting? y
Disconnect Information in Place of FRL?	n Attendant Call Recording? y
	Interworking Feat-flag? n
Force Entry of Acct Code for Calls Marked on	Toll Analysis Form? n
Calls to	Hunt Group - Record: member-ext
Record Called Vector Directory Number Instead	of Group or Member? n
Record Non-Call-Assoc TSC? n	-
Record Call-Assoc TSC? n Digits to Re	cord for Outgoing Calls: dialed
	CDR Account Code Length: 2
	5
\mathbf{X}	

- System Parameter Multifrequency Signaling Administration (Pay close attention to the values on the following three screens. They are critical.)
 - Request Incoming ANI (non-AAR/ARS)? n (To check Incoming ANI, enter yes. It is part of the malicious call trace option.)

```
display system-parameters multifrequency-signaling
                                                               Page 1 of
                                                                             3
             MULTIFREQUENCY-SIGNALING-RELATED SYSTEM PARAMETERS
                                          Incoming Call Type: group-ii-mfc
                                          Outgoing Call Type: group-ii-mfc
                                       Maintenance Call Type: none
                                         Test Call Extension:
                                      Interdigit Timer (sec): 20
                 Outgoing Forward Signal Present Timer (sec): 20
                  Outgoing Forward Signal Absent Timer (sec): 12
       Multifrequency Signaling Incoming Intercept Treatment? y
                            Received Signal Gain(-Loss) (dB): 0
                         Transmitted Signal Gain(-Loss) (dB): -3
     ANI Prefix: 42
                          Collect All Digits Before Seizure? n
    ANI for PBX: 400
 Next ANI Digit: send-ani
                          Request Incoming ANI (non-AAR/ARS)? n
                                       Called Party Category: user-type
                          Use COR for Calling Party Category? n
```



On Page 2 of the Multifrequency-Signaling-Related System Parameters screen, Group-I, numbers 12, 13, and 14, should all be *ani-not-avail*.

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display system-parame MULTIFR		requency-sign NALING-RELATE	-		age 2 of	3
INCOMING FORWARD SIG (Tones from CO)	NAL TYPES		MING BACKWARD es to CO)	SIGNAL	TYPES	
Group-I	Group	-II	Group-A		Group-B	
11: send-congest	1: normal	1 :	next-digit	3 :	busy	
12: send-congest	2: busy-r	t-attd 3 :	end-of-dial	4 :	congestion	
13: ani-not-avail					intercept	
14: send-congest	4: normal	5 :	send-ani	б :	free	
15: end-of-dial	5: busy-r	t-attd :		:		
	6: normal	:		:		
	7: normal	:		:		
	8: normal	:		:		
	9: busy-r	t-attd :		:		
	10: normal	:		:		
	11: send-i	ntercept :		:		
	12: send-i	ntercept :		:		
	13: normal	:		:		
	14: normal	:		:		
	15: send-i	ntercept :		:		

display system-parameters multifrequency-signaling MULTIFREQUENCY-SIGNALING-RELATED SYSTEM PARAMETERS OUTGOING FORWARD SIGNAL TYPES OUTGOING BACKWARD SIGNAL TYPES (Tones from CO) (Tones from CO) Group-A Group-B 1: next-digit 1: free 2: last-digit 2: congestion 3: end-of-dial 3: busy 4: congestion 4: congestion 5: send-ani 5: intercept 6: setup-sppath 6: free 7: last-2-digits 7: free 8: last-3-digits 8: intercept 9: congestion 9: congestion (Tones to CO) Group-I Group-II 12: ani-not-avail 1: normal 15: end-of-digits 1: attendant : 6: data-call : : : : : : : 8: 1481-3-digits6: Intercept9: congestion9: congestion10: congestion10: congestion11: congestion11: congestion12: congestion12: congestion13: congestion13: congestion14: congestion14: congestion15: congestion15: congestion : : : :

: :

ARS Digit Analysis

:

- Rte Pat: 2 (for dial tone detect)

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display	, ars analysi	с ())
arspray	arb anarybr	0			ARS 1	DIGIT ANALY	SIS TABLE		
				Pa	artit	ioned Group	Number: 1	Percent Full:	2
	Dialed	Tot	tal	Rte	Call	Nd ANI	Dialed	Total Rte Call	Nd ANI
	String	Mn	Mx	Pat	Туре	Num Rq	String	Mn Mx Pat Type	Num Rq
2		2	7	2	pubu	n			n
3		2	7	2	pubu	n			n
4		2	7	2	pubu	n			n
5		2	7	2	pubu	n			n
6			7	2	hnpa	n			n
7		-	7	2	pubu	n			n
8		2	7	2	pubu	n			n
9		2	7	2	pubu	n			n
						n			n
						n			n
						n			n
						n			n
						n			n
						n			n
)

Route Pattern

— Inserted Digits: + (for dial tone detect)

display	route-pat	tern	2			
				Pa	attern Nu	umber: 2
Grp	. FRL NPA	Pfx 1	Нор	Toll	No. Del	Inserted
No.		Mrk 1	Lmt	List	Digits	Digits
1: 29	0					+
2:						
3:						
4:						
5:						
6:						
\langle						

Console Parameters

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display console-parameters	Page	1 of	3
CONSOLE PARAMETERS			
Attendant Group Name: OPERATOR			
COS: 1		a: 1	
Calls in Queue Warning: 5 Attendant	Lockout	?у	
Ext Alert Port (TAAS):			
CAS: none			
Night Service A	Act. Ext.	:	
IAS (Branch)? n IAS Tie Trunk G	froup No.	:	
IAS Att. Access Code: Alternate FRI	Station	1:	
DID-LDN Only to LDN N	Jight Ext	? n	
TIMING			
Time Reminder on Hold (sec): 30 Return Call Timeo	out (sec)	: 30	
Time in Queue Warning (sec):			
INCOMING CALL REMINDERS			
No Answer Timeout (sec): 60 Alerti	.ng (sec)	: 10	
Secondary Alert on Held Remind	ler Calls	? v	
ABBREVIATED DIALING		4	
List1: List2: List3:			
COMMON SHARED EXTENSIONS			
Starting Extension: Count:			

- Night Destination: 302 (for testing optional response to errors)

	т.	ISTED DIRECTORY NUMBERS	
Ext	Name	TN	
1:		1	
2:		1	
3:		1	
4:		1	
5:		1	
6:		1	
7:		1	
8:		1	

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Trunk Groups

(list (runk	-group								
				TRUNK GH	ROUPS						
	Grp				No.					Out	Queue
	No.	TAC	Group Type	Group Name	Mem	TN	COR	CDR	Meas	Disp?	Length
	23	923	CO	Slov.LS_out_MFC	1	1	1	У	none	У	0
	24	924	CO	<pre>slov.co.dec</pre>	1	1	1	У	none	n	0
	29	929	CO	slov ana co	1	1	1	У	none	n	0
	31	931	did	slovak mf did	1	1	1	У	none	n	0
	32	932	did	slovak did dec	1	1	1	У	none	n	0
)

- CO Trunk Groups
 - Example: Loop Start Outgoing MFC
 - Country: 14
 - Trunk Type: loop-start
 - Outgoing Dial Type: mf
 - Disconnect Supervision Out? n
 - Answer Supervision Timeout: 0

```
display trunk-group 23
                                                                    Page 1 of 10
                                  TRUNK GROUP
                                   Group Type: co
COR: 1
                                                          CDR Reports: y
 Group Number: 23
   Group Name: Slov.LS_out_MFC
                                                          TN: 1 TAC: 923
Direction: outgoing Outgoing Display? y
Dial Access? y Busy Threshold: 99
Queue Length: 0 Country: 14
    Comm Type: voice
                                                     Digit Absorption List:
     Prefix-1? n
                                    Trunk Flash? n
                                                            Toll Restricted? n
 TRUNK PARAMETERS
             Trunk Type: loop-start
     Outgoing Dial Type: mf
      Disconnect Timing(msec): 500
Auto Guard? n Call Still Held? n Sig Bit Inversion: none
Terminal Balanced? n
     Trunk Termination: rc
                                    Trunk Gain: high
  Disconnect Supervision - Out? n
  Answer Supervision Timeout: 0
                                    Receive Answer Supervision? y
```

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display trunk-group 23 TRUNK FEATURES	Page 2 of 10	
ACA Assignment? n Measured: none		
Data Restriction? n	Maintenance Tests? y	
Suppress # Outpulsing? n		Ϊ

display trunk-group 23	λ
TRUNK GROUP	
ADMINISTRABLE TIMERS	
Outgoing Disconnect(msec): 500	
Outgoing Dial Guard(msec): 1600	
Outgoing Glare Guard(msec): 1500	
Ringing Monitor(msec): 5200 Incoming Seizure(msec): 500	
Outgoing Seizure Response(sec): 5	
Programmed Dial Pause(msec): 1500	
Flash Length(msec): 540	
END TO END SIGNALING	
Tone(msec): 350 Pause(msec): 150	
OUTPULSING INFORMATION	
PPS: 10 Make(msec): 40 Break(msec): 60 PPM? y Frequency: 50/12k	-
FFS. 10 MARC(IIBEC). 10 Bleak(IIBEC). 00 FFM: y Flequency. 50/12k	•)

- Outgoing Disconnect (msec): 500
- Example: Digital CO Trunk
 - Country: 14
 - Trunk Type: loop-start
 - Outgoing Dial Type: rotary
 - Disconnect Supervision Out? n
 - Answer Supervision Timeout: 0

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display trunk-group 24 Page 1 of 10 TRUNK GROUP roup Number: 24Group Type: coCDR Reports: yGroup Name: slov.co.decCOR: 1TN: 1TAC: 924Direction: outgoingOutgoing Display: 7 Group Number: 24 Direction: outgoing Outgoing Display? n ial Access? y Busy Threshold: 99 Dial Access? y Busy Th Queue Length: 0 Country: 14 Digit Absorption List: Comm Type: voice Prefix-1? n Trunk Flash? n Toll Restricted? y TRUNK PARAMETERS Trunk Type: loop-start Outgoing Dial Type: rotary Cut-Through? n Trunk Termination: rc Disconnect Timing(msec): 500 Auto Guard? n Call Still Held? n Sig Bit Inversion: none Terminal Balanced? n RA Trunk Loss: 0db Trunk Gain: high Disconnect Supervision - Out? n Answer Supervision Timeout: 0 Receive Answer Supervision? y

display trunk-group 24 Page 2 of 10 TRUNK FEATURES ACA Assignment? n Measured: none Data Restriction? n Suppress # Outpulsing? n

- Outgoing Disconnect (msec): 500
- Outgoing Rotary Dial Interdigit (msec): 800

```
display trunk-group 24
                             TRUNK GROUP
ADMINISTRABLE TIMERS
                                           Outgoing Disconnect(msec): 500
                                           Outgoing Dial Guard(msec): 1600
                                          Outgoing Glare Guard(msec): 1500
                               Outgoing Rotary Dial Interdigit(msec): 800
      Ringing Monitor(msec): 5200
                                             Incoming Seizure(msec): 500
                                     Outgoing Seizure Response(sec): 5
Programmed Dial Pause(msec): 1500
    Flash Length(msec): 540
END TO END SIGNALING
   Tone(msec): 350
                      Pause(msec): 150
OUTPULSING INFORMATION
    PPS: 10 Make(msec): 40 Break(msec): 60 PPM? y Frequency: 50/12k
```

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— Example: Analog CO Trunk	
 Country: 14 	

- Trunk Type: loop-start
- Answer Supervision Timeout: 0

display trunk-group 29 Page 1 of 10 TRUNK GROUP Group Type: co CDR Reports: y COR: 1 TN: 1 TAC: 929 Group Number: 29 Group Name: slov ana co Direction: two-way Outgoing Display? n Busy Threshold: 99 Buby ---Country: 14 Dial Access? y Night Service: Queue Length: 0 Incoming Destination: attd Comm Type: voice Auth Code? n Digit Absorption List: Trunk Flash? n Prefix-1? y Toll Restricted? y TRUNK PARAMETERS Trunk Type: loop-start Outgoing Dial Type: tone Cut-Through? n Trunk Termination: rc Disconnect Timing(msec): 500 Auto Guard? n Call Still Held? n Sig Bit Inversion: none Terminal Balanced? n RA Trunk Loss: 0db Trunk Gain: high Disconnect Supervision - In? y Out? n Cyclical Hunt? n Answer Supervision Timeout: 0 Receive Answer Supervision? y

display trunk-group 29 TRUNK FEATURES ACA Assignment? n Measured: none Maintenance Tests? y Data Restriction? n Abandoned Call Search? n Suppress # Outpulsing? n DEFINITY® Enterprise Communications Server Application Notes for Type Approval

Application Notes for Type Approval *Czech Republic*

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(display trunk-group 29			`
		TRUNK	GROUP	
	ADMINISTRABLE TIMERS			
	Incoming Disconnect(msec):	500	Outgoing Disconnect(msec):	500
			Outgoing Dial Guard(msec):	1600
	Incoming Glare Guard(msec):	1500	Outgoing Glare Guard(msec):	1500
	Ringing Monitor(msec):	5200	Incoming Seizure(msec):	500
	Outgoing End of Dial(sec):	10	Outgoing Seizure Response(sec):	5
	Programmed Dial Pause(msec):	1500		
	Flash Length(msec):	540		
1				

display trunk-group 29 TRUNK GROUP ADMINISTRABLE TIMERS Incoming Disconnect(msec): 500 Outgoing Disconnect(msec): 500 Outgoing Dial Guard(msec): 1600 Incoming Glare Guard(msec): 1500 Outgoing Glare Guard(msec): 1500 Ringing Monitor(msec): 5200 Incoming Seizure(msec): 500 Outgoing End of Dial(sec): 10 Outgoing Seizure Response(sec): 5 Programmed Dial Pause(msec): 1500 Flash Length(msec): 540 END TO END SIGNALING Tone(msec): 350 Pause(msec): 150 OUTPULSING INFORMATION PPS: 10 Make(msec): 40 Break(msec): 60 PPM? n

DID Trunk Groups

Example: MFC Signaling DID

Country: 14

```
display trunk-group 31
                                                             Page 1 of 10
                               TRUNK GROUP
                                 Group Type: did
Group Number: 31
                                                         CDR Reports: y
                                                      TN: 1
                                                                  TAC: 931
  Group Name: slovak mf did
                                        COR: 1
                       Country: 14
                                                             CO Type: digital
                                  Auth Code? n
TRUNK PARAMETERS
            Trunk Type: immed-start Incoming Rotary Timeout(sec): 5
                                                  Incoming Dial Type: mf
     Trunk Termination: rc
                                             Disconnect Timing(msec): 500
       Digit Treatment:
                                                             Digits:
       Expected Digits:
                                                   Sig Bit Inversion: none
     Terminal Balanced? n
                                                      RA Trunk Loss: 0db
                             Trunk Gain: high
                                                      Drop Treatment: silence
   Extended Loop Range? n
 Disconnect Supervision - In? n
```

Application Notes for Type Approval *Czech Republic*

- Incoming Disconnect (msec): 90
- Incoming Dial Guard (msec): 1500 (to mask problem detection glitches as digits)

display trunk-group 31 Page 3 of 10 TRUNK GROUP ADMINISTRABLE TIMERS Incoming Disconnect(msec): 90 Incoming Dial Guard(msec): 1500 Flash Length(msec): 540 Incoming Incomplete Dial Alarm(sec): 255 END TO END SIGNALING Tone(msec): 350 Pause(msec): 150

Example: Rotary Signaling Digital DID

- Country: 14
- Trunk Type: immed-start
- Incoming Dial Type: rotary

```
display trunk-group 32
                                                            Page 1 of 10
                              TRUNK GROUP
                                Group Type: did
                                                        CDR Reports: y
Group Number: 32
  Group Name: slovak did dec
                                       COR: 1
                                                    TN: 1
                                                                TAC: 932
                                                          CO Type: digital
                     Country: 14
                                 Auth Code? n
TRUNK PARAMETERS
            Trunk Type: immed-start Incoming Rotary Timeout(sec): 5
                                                 Incoming Dial Type: rotary
     Trunk Termination: rc
                                            Disconnect Timing(msec): 500
       Digit Treatment:
                                                           Digits:
       Expected Digits:
                                                  Sig Bit Inversion: none
     Terminal Balanced? n
                                                     RA Trunk Loss: 0db
   Extended Loop Range? n
                           Trunk Gain: high
                                                   Drop Treatment: silence
 Disconnect Supervision - In? n
```

Application Notes for Type Approval *Czech Republic*

(/ display trunk-group 32 TRUNK FEATURES		Page 2 of	10	
	ACA Assignment? n	Measured: none	Maintenance Tests?	v	
	Suppress # Outpulsing? n	Data Restriction? n		1	

- Incoming Disconnect (msec): 90
- Incoming Dial Guard (msec): 70

```
display trunk-group 32 Page 3 of 10
TRUNK GROUP
ADMINISTRABLE TIMERS
Incoming Disconnect(msec): 90
Incoming Dial Guard(msec): 70
Incoming Partial Dial(sec): 5
Flash Length(msec): 100 Incoming Incomplete Dial Alarm(sec): 1
END TO END SIGNALING
Tone(msec): 350 Pause(msec): 150
```

Digital Trunk Administration

This section does not list all possible valid administrable combinations. Rather the most common or standard combination, compatible with public-network and Type Approval standards for each country, is presented.

- CO Trunks
 - DS1 Administration Screen ⁴
 - Circuit Pack: TN464D (not entered as an administrable item)
 - Bit Rate: 2.048
 - Interface Companding: A-law
 - Line Coding: HDB3
 - Signaling Mode: CAS
 - Country Protocol: 14
 - Interconnect: CO

DS1 is also analogous to the term E1 that has been coined for the European T1 or 2 mbit interface.

- CRC?: No
- Idle Code: 01010100
- Trunk Group Administration Screen (Timing)

Set digital trunk timing values the same as for analog CO trunks.

- DID Trunks
 - DS1 Administration Screen
 - Circuit Pack: TN464D (not entered as an administrable item)
 - Bit Rate: 2.048
 - Interface Companding: A-law
 - Line Coding: HDB3
 - Signaling Mode: CAS
 - Country Protocol: 14
 - Interconnect: CO
 - CRC?: No
 - Idle Code: 01010100
 - Trunk Group Administration Screen (Timing)

Set digital trunk timing values the same as for analog DID trunks.

- Tie Trunks
 - Non-ISDN Signaling Example (DS1 Administration Screen)
 - Circuit Pack: TN464D (Not entered as administrable item)
 - Bit Rate: 2.048
 - Interface Companding: A-law
 - Line Coding: HDB3
 - Signaling Mode: CAS
 - Country Protocol: 14
 - Interconnect: pbx
 - CRC?: no
 - Idle Code: 01010100

DEFINITY® Enterprise Communications Server Application Notes for Type Approval
Application Notes for Type Approval Ecuador

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Ecuador

The information provided here is preliminary and subject to change. <u>Table 26</u> shows the recommended circuit packs.

Equipment	Equipment Type
Cabinet Type & Power	GAC-MCC AC-MCC DC-MCC AC-SCC DC-SCC AC-CSCC AC-CMC
AC Power Voltage & Freq	120V/60Hz 240V/60Hz
Ring Generator	20Hz
Tone Detector	>TN2182B >TN744D
Tone Clock	>TN2182B
R2MFC Circuit	
Speech Synthesizer	
Call Classifier	>TN744D
Announcement	TN750C TN750B
Analog DID Trunk	
Analog CO Trunk (No PPM)	>TN747B
Analog CO Trunk (w/PPM)	
4 Wire Tie Trunk	
2 Wire Tie Trunk	
Auxiliary Trunk	>TN763D
Digital CO/DID Trunk	>TN464F TN464E TN464D
Digital Tie Trunk	>TN464F TN464E TN464D
Digital PRI CO Trunk	n/a
Digital BRI Trunk	
Digital Converter PRI-DASS	
Digital Converter PRI-DPNSS	
Digital Converter PRI-BRI	
8 Port Analog Line	n/a
16 Port Analog Line	>TN746B

Equipment	Equipment Type
24 Port Analog Line	n/a
4 Wire Digital Line	>TN754B
2 Wire Digital Line	#TN2224 >TN2181 TN2136
Data Line	>TN726B
BRI-U Line	
BRI-ST Line	

Table 26. Recommended and Available CPs in Ecuador — Continued



A-law companding is the national standard in Ecuador. However, Mu-law is used internally to the system for service circuits and analog lines. Network interfaces are configured as A-law if required.

Feature Administration

The screen displays shown in this section were effective the date the type approval was awarded. The screens may have changed since that date.

Only those feature-related parameters that may have a Type Approval or basic connectivity implication for a particular country are listed here.

ARS/AAR Administration

.

To enable ARS administration, on the System-Parameters Customer-Options screen, set the ARS field to **y**. You also should check all ARS/AAR defaults. All default ARS analysis codes are deleted before dialed strings are added for routing when DEFINITY is installed outside of North America. Be aware that the default for the 10 digits cause dialing problems. In particular, the following call types (appear as ARS/AAR defaults) typically are not used in non-North American ARS/AAR tables:

fnpa:	North American numbers with an area code.	
hnpa:	North American numbers without an area code.	
SVC:	North American numbers of the screen "x11".	

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Lucent recommends only the following call types be used outside North America:

int:	For all international numbers.
natl:	For all national PN numbers.
pubu:	For all other external (that is, not extensions) numbers.

System Parameter Administration

Only those feature-related parameters that may have a Type Approval or basic connectivity implication for a particular country are listed here.

- Feature-Related System Parameters Administration
 - Trunk-to-Trunk Transfer: Permitted by country's regulations -Selection is customer's choice.
 - Public Network Trunks on Conference Call: 5
 - Conference Parties With PNTs: 6
 - Conference Parties Without PNTs: 6
 - Line Intercept Tone Timer: 30
 - Night Service Disconnect Timer: 180 sec
 - Short Interdigit Timer: 3 sec
 - Unanswered DID Call Timer: 60
 - Auto-Hold: Yes ⁵
 - Attendant Tone: Yes
 - Bridging Tone: No
 - Conference Tone: No
 - Intrusion Tone: Yes
 - Repetitive Call Waiting Tone: No
 - DID Busy Treatment: Attendant
 - Pull Transfer: No
 - Level of Tone Detection: Medium
 - Outpulse Without Tone: Yes
 - (Station-to-switch) Recall Timing:
 - Flashhook Interval: No
 - Disconnect Timing: 350 ms

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- System Parameter Country Options Administration
 - Companding Mode: A-law
 - Base Tone Generation Set:
 - Tone Detection Mode: 2
 - Interdigit Pause: short
 - Digital Loss Plan:
 - Analog Ringing Cadence:

Analog Trunk Administration

- CO Trunks
 - Trunk Group Screen
 - Group Type: CO
 - Country:
 - Trunk Gain: high
 - Direction: two-way
 - Digit Absorption List: blank
 - Prefix-1: No
 - Trunk Type: loop-start
 - Outgoing Dial Type: tone
 - Trunk Termination: 600 ohm
 - Auto Guard: no
 - Dial Access: Yes
 - Call Still Held: no
 - Terminal Balanced: yes
 - Receive Answer Supervision: no
 - Answer Supervision Timeout: 10 (This sets both the CP firmware timer and software timer. Set to 0 for any trunk receiving answer supervision.)
 - Disconnect Supervision In: yes
 - Disconnect Supervision Out: Selection is customer's choice.
 - Disconnect Timing: 100 ms (This field will not be used with CPs that can accept the Incoming Disconnect and Outgoing Disconnect timers. Set these latter two timers from the Administrable Timers Screen.)

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	Trunk	Group	Administration	Screen ((Timing))
--	-------	-------	----------------	----------	----------	---

Set the following timers from the Administrable Timers screen during administration of each trunk group. Select the following CO trunk timer values for this country:

- Incoming Disconnect: 100 ms
- Outgoing Disconnect: 100 ms
- Outgoing Dial Guard: 3000 ms
- Incoming Glare Guard: 1500 ms
- Outgoing Glare Guard: 1500 ms
- Outgoing Dial Pulse Rate (PPS): 10 pps
- Outgoing Rotary Digit Dial Make: 40 ms
- Outgoing Rotary Digit Dial Break: 60 ms
- Outgoing Rotary Dial Interdigit: 800 ms
- Ring Monitor Timer: 5200 ms
- Incoming Seizure: 500 ms
- Outgoing End-of-Dial: 255 sec
- Outgoing Seizure Response: 0
- Programmed Dial Pause: 3 sec
- Disconnect Signal Error: 240 sec
- End-To-End Signaling Pause: 150 ms (accept default)
- End-To-End Signaling Tone: 350 ms (accept default)
- Flash Length: 100 ms
- PPM: No
- DID Trunks
 - Trunk Group Screen
 - Group Type: DID
 - Country:
 - Trunk Gain: high
 - Digit Absorption List: blank
 - Incoming Dial Type: tone
 - Trunk Type: immed-start
 - Trunk Termination: rc (complex impedance)
 - Disconnect Supervision: no

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Application Notes for Type Approval *Ecuador*

- Disconnect Timing: 500 ms (This field will not be used with CPs that can accept the Incoming Disconnect and Outgoing Disconnect timers. Set these latter two timers from the Administrable Timers Screen.)
- Digit Treatment: blank
- Digits: blank
- Expected Digits: depends on system size and numbering plan
- Terminal Balanced: yes
- RA Trunk Loss: 0dB
- Extended Loop Range: (Used Only with TN459) no
- Drop Treatment: silence
- Incoming Rotary Timeout (sec): 5 sec (This field will not be used with CPs that can accept the Incoming Partial Dial timer. Set this timer from the Administrable Timers Screen.)
- Trunk Group Administration Screen (Timing)

Set the following timers from the Administrable Timers screen during administration of each trunk group. Select the following DID trunk timer values for this country:

- Incoming Disconnect: 100 ms
- Incoming Dial Guard: 10 ms
- Incoming Partial Dial: 18 sec
- Incoming Incomplete Dial: 255 sec
- Tie Trunks

No information regarding Type Approval-related settings is currently available.

Digital Trunk Administration

This section does not list all possible valid administrable combinations. Rather only the most common or standard combination, compatible with public-network and Type Approval standards for each country, is presented:

- CO Trunks
 - DS1 Administration Screen ⁶
 - Circuit Pack: TN464D (not entered as an administrable item)
 - Bit Rate: 2.048

6.

DS1 is also analogous to the term E1 that has been coined for the European T1 or 2 mbit interface.

DEFINITY® Enterprise Communications Server Application for Type Approval	ation Notes Issue 1 June 1999
Application Notes for Type Approval Ecuador	159
 Interface Compandir Line Coding: HDB3 Signaling Mode: CAS Country Protocol: 	-
 Interconnect: CO CRC?: No Idle Code: 01010100 	
 Trunk Group Administration Digital trunk timing values s 	Screen (Timing) hould be set as for analog CO trunks.
 DID Trunks — DS1 Administration Screen 	
■ Bit Rate: 2.048	0 (not entered as an administrable item)
 Interface Compandir Line Coding: HDB3 Signaling Mode: CAS 	-
Country Protocol:Interconnect: CO	
CRC?: No	

- Idle Code: 01010100
- Trunk Group Administration Screen (Timing)

Set digital trunk timing values the same as for analog DID trunks.

- Tie Trunks
 - Non-ISDN Signaling Example (DS1 Administration Screen)
 - Circuit Pack: TN464D (Not entered as administrable item; TN464C from upgrades)
 - Bit Rate: 2.048
 - Interface Companding: A-law
 - Line Coding: HDB3
 - Signaling Mode: CAS
 - Country Protocol:
 - Interconnect: pbx
 - CRC?: no
 - Idle Code: 01010100

- ISDN-PRI (Private Network) Signaling

This example assumes use of US Option 1 with facility associated signaling. Other feature options will require changes in one or more administered items.

- DS1 Administration screen
 - Circuit Pack: TN464D (or TN464C from upgrades)
 - Bit Rate: 2.048
 - Interface Companding: A-law
 - Line Coding: HDB3
 - Signaling Mode: isdn-pri
 - Country Protocol: 1
 - Connect: pbx
 - Interface: user
 - CRC: No
 - Idle Code: 01010100
- Signaling Group screen
 - Associated Signaling: Yes
 - Primary D_Channel: xxxx16 (xxxx=>depends on CP physical location)
- Trunk Group Administration screen
 - Group Type: isdn-pri
 - Service Type: tie
- ISDN-PRI (Public Network

Not available for this country.

DEFINITY® Enterprise Communications Server Application Notes for Type Approval
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Application Notes for Type Approval *France*

France

Table 27 shows the recommended circuit packs.

Table 27. Recommended and Available CPs in France

Equipment	Equipment Type
Cabinet Type & Power	GAC-MCC DC-MCC AC-SCC AC-CSCC AC-CMC
AC Power Voltage & Freq	220V/50Hz
Ring Generator	50Hz (See the note that follows this table.)
Tone Detector	>TN2182B >TN744D
Tone Clock	>TN2182B
R2MFC Circuit	n/a
Speech Synthesizer	>TN457
Call Classifier	>TN744D
Announcement	TN750C TN750B
Analog DID Trunk	n/a
Analog CO Trunk (No PPM)	n/a
Analog CO Trunk (w/PPM)	n/a
4 Wire Tie Trunk	>FTN760D
2 Wire Tie Trunk	n/a
Auxiliary Trunk	n/a
Digital CO/DID Trunk	>TN464F
Digital Tie Trunk	>TN464F
Digital PRI CO Trunk	>TN464F
Digital BRI Trunk	>TN2185
Digital Converter PRI-DASS	
Digital Converter PRI-DPNSS	
Digital Converter PRI-BRI	#TN-PRI-BRI
8 Port Analog Line	n/a
16 Port Analog Line	>TN2183
24 Port Analog Line	n/a

Equipment	Equipment Type
4 Wire Digital Line	>TN754B
2 Wire Digital Line	#TN2224 >TN2181
Data Line	>TN726B
BRI-U Line	
BRI-ST Line	TN556B

Table 27. Recommended and Available CPs in France — Continued



50Hz ring generation requires modification to all backplanes with port slots and installation of a TN2202 Ring Generator (50Hz) circuit pack.

Also, you can use the 122A Music-on-Hold Interface in France.

Feature Administration

The screen displays shown in this section were effective the date the type approval was awarded. The screens may have changed since that date.

Only those feature-related parameters that may have a Type Approval or basic connectivity implication for a particular country are listed here.



 \blacksquare NOTE:

All systems for France require modifications to provide 50Hz ring generation. This requires modifications to all backplanes with port slots and installation of a TN2202 Ring Generator (50Hz) circuit pack in all carriers with these modified backplanes.

\blacksquare NOTE:

The 122A Music-on-Hold Interface is used for France.

ARS/AAR Administration

To enable ARS administration, on the System-Parameters Customer-Options screen, set the ARS field to y. You also should check all ARS/AAR defaults. All default ARS analysis codes are deleted before dialed strings are added for routing when DEFINITY is installed outside of North America. Be aware that the default for the 10 digits cause dialing problems. In particular, the following call types (appear as ARS/AAR defaults) typically are not used in non-North American ARS/AAR tables:

fnpa:	North American numbers with an area code.
hnpa:	North American numbers without an area code.
SVC:	North American numbers of the screen "x11".

Lucent recommends only the following call types be used outside North America:

int:	For all international numbers.
natl:	For all national PN numbers.
pubu:	For all other external (that is, not extensions) numbers.

System Parameter Administration

Only those feature-related parameters that may have a Type Approval or basic connectivity implication for a particular country are listed here.

- System-Parameters Customer-Options
 - G3 Version: V4
 - ARS: y
 - Hospitality Parameter Reduction: n
 - ISDN-PRI?: y
 - ISDN-PRI over PACCON?: y
 - Tenant Partitioning?: n
- Feature-Related System Parameters
 - Trunk-to-Trunk Transfer: None (No trunk to trunk transfer allowed)
 - Coverage Subsequent Redirection/CFWD No Answer Interval: 12
 - Coverage Caller Response Interval (seconds): 1
 - Music/Tone on Hold: music
 - DID/TIE/ISDN Intercept Treatment: attd (attendant)
 - Public Network Trunks on Conference Call: 2
 - Night Service Disconnect Timer (seconds): 240
 - Unanswered DID Call Timer (seconds): blank
 - Auto Hold: y
 - DID Busy Treatment: tone
 - Wait Answer Supervision Timer: n

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— Repetitive Call Waiting Tone?: y	

- Repetitive Call Waiting Interval (sec): 20
- Intercept Treatment on Failed Trunk Transfers?: y
- Station Tone Forward Disconnect: busy
- Misoperation Alerting?: y
- Upper Bound (msec): 360
- Lower Bound (msec): 180
- System Parameters Country Options
 - Companding Mode: A-Law
 - Base Tone Generator Set: 12
 - Digital Loss Plan: 12
 - Analog Line Transmission: 12
 - Tone Name: (Program the Intercept tone like the Busy tone and customize the following: [(Frequency/Level)|silence|goto)][(Duration ms)|(Step)]
 - Confirmation tone
 - (440/-17.25)(100)
 - (silence)(100)
 - (440/-17.25)(100)
 - (silence)(100)
 - (440/-17.25)(100)
 - (silence)(100)
 - Rep-Confirmation tone
 - (440/-17.25)(100)
 - (silence)(100)
 - (440/-17.25)(100)
 - (silence)(100)
 - (440/-17.25)(100)
 - (silence)(100)
 - (go to)(1)
 - Redirect tone
 - (silence)(50)
- Console-Parameters
 - Ext Alert Prt (TAAS): 01A0405 (administered with an analog port)

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France	165

- Incoming Call Reminders (set the following values to a total value of 90)
 - No Answer Timeout (sec): 60
 - Alerting (sec): 30
- Call-Type Ordering Within Priority Levels?: y

Station Administration

- Attendant
 - Type: 302B1
 - Extension: blank
 - COS: 0
 - COR: 0
 - Atd-qtime feature button is mandatory
 - type-disp feature button is mandatory
- 603/302B1 Terminal Parameters
 - Default Parameter Set: 12
 - Customize Parameters: n
- 310 Touch Tone Dialing Display Station
 - Type: 2500
 - COR: 1
 - Coverage Path: 1 (mandatory)
 - Call Waiting Indication?: y
 - Att. Call Waiting Indication?: y
 - Distinctive Audible Alert?: n
 - Message Waiting Indicator: led
 - Adjunct Supervision?: n
- 311 Rotary Dialing Display Station
 - Type: 500
 - COR: 1
 - Coverage Path: 1 (mandatory/cannot be blank)
 - Call Waiting Indication?: n
 - Att. Call Waiting Indication?: n
 - Distinctive Audible Alert?: n

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- Adjunct Supervision?: n
- 314 Phantom Station
 - Type: 2500
 - COR: 95
 - Port: x
- 8400 and 9400 Type Station
 - Extension: 300
 - Type: 8403B
 - Coverage Path: 1(mandatory/cannot be blank)
 - Active Station Ringing: continuous
 - Restrict Last Appearance? n
 - Button Assign 3: brdg-appr
 - Btn: 1
 - Ext: X (where X is extension of a phantom station)
- 8400 and 9400 Terminal Parameters
 - Default Parameter Set: 12
 - Customize Parameters: n
- Call Master Station
 - Type: 603E1
 - Coverage Path: 1 (mandatory/cannot be blank)
 - Restrict Last Appearance? n
- WCBRI Interface Station
 - Extension: 306
 - Type: WCBRI
 - Coverage Path: 1 (mandatory/cannot be blank)
 - Country Protocol: etsi
 - Endpt Init?: n

Group Administration

- ACD Group
 - Hunt-Group screen
 - ACD?: y
 - Queue? y
 - COR: 95

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Application Notes for Type Approval *France*

- Coverage Path> 1 (mandatory/cannot be blank)
- First announcement extension: 5555 (mandatory/cannot be blank)
- Hunt Group
 - Hunt-Group screen
 - Group Number: 4
 - Queue? n
 - Coverage Path> 1 (mandatory/cannot be blank)
 - First announcement extension: 5555 (mandatory/cannot be blank)

Coverage Path Administration

- Coverage Path screen
 - Coverage Criteria for Outside Call field:
 - Active? n
 - Busy?: y
 - Don't Answer?: y
 - Number of Rings: 8 (equivalent to 40 seconds)
 - Point1: 303 (extension number of the first point of coverage)
 - Point2: attd (the attendant console)
 - Point3: 550 (extension number of an announcement)

```
COR Number: 1
         COR Description: COR of stations
                     FRL: 0
                                                           APLT? y
  Can Be Service Observed? n
                                     Calling Party Restriction: none
Can Be A Service Observer? n
                                      Called Party Restriction: none
                                Forced Entry of Account Codes? n
        Priority Queuing? n
                                           Direct Agent Calling? n
    Restriction Override: all
                                    Facility Access Trunk Test? n
    Restricted Call List? n
           Access to MCT? y
                                       Fully Restricted Service? n
     Category For MFC ANI: 7
                                       Hear VDN of Origin Annc.? n
        Send ANI for MFE? n
Hear System Music on Hold? y PASTE (Display PBX Data on Phone)? n
```

Application Notes for Type Approval *France*

168

1	display cor 95			
	COR Number:	95		
	COR Description:	COR	of phantom stations and ACD group	
	FRL:	0	APLT?	У
	Can Be Service Observed?	n	Calling Party Restriction:	none
	Can Be A Service Observer?	n	Called Party Restriction:	termination
			Forced Entry of Account Codes?	n
	Priority Queuing?	n	Direct Agent Calling?	n
	Restriction Override:	all	Facility Access Trunk Test?	n
	Restricted Call List?	n		
	Access to MCT?	У	Fully Restricted Service?	n
	Category For MFC ANI:	7	Hear VDN of Origin Annc.?	n
	Send ANI for MFE?	n		
	Hear System Music on Hold?	У	PASTE (Display PBX Data on Phone)?	n
l	\			
	\			

display cos																
	0	1	2	3	4	5	б	7	8	9	10	11	12	13	14	15
Auto Callback	У	У	У	n	У	n	У	n	У	n	У	n	У	n	У	n
Call Fwd-All Calls	У	У	n	У	У	n	n	У	У	n	n	У	У	n	n	У
Data Privacy	У	У	n	n	n	У	У	У	У	n	n	n	n	У	У	У
Priority Calling	n	n	n	n	n	n	n	n	n	n	n	n	n	n	n	n
Console Permissions	У	n	n	n	n	n	n	n	n	n	n	n	n	n	n	n
Off-hook Alert	n	n	n	n	n	n	n	n	n	n	n	n	n	n	n	n
Client Room	У	n	n	n	n	n	n	n	n	n	n	n	n	n	n	n
Restrict Call Fwd-Off Net	У	n	n	n	n	n	n	n	n	n	n	n	n	n	n	n
Call Forwarding Busy/DA	n	n	n	n	n	n	n	n	n	n	n	n	n	n	n	n

ISDN PRI Administration

- DS1 Administration screen
 - Country Protocol: 12
 - Bit Rate: 2.048
 - Line Codeing: hdb3
 - Version Protocol: b (ETSI and French Delta) a (France VN4 mode)
 - Interface Companding: alaw
 - Idle Code: 01010100CRC? n
 - Slip Detection? y

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```
    display dsl xxyzz
    Page l of l

    Location: xxyzz
    Name:

    Bit Rate: 2.048
    Line Coding: hdb3

    Signaling Mode: isdn-pri
    Connect: pbx

    Connect: pbx
    Interface: Peer-master

    Peer_protocole: ecma
    Side: a

    Interface Companding: alaw
    CRC? n

    Idle Code: 01010100
    CRC? n

    MAINTENANCE PARAMETERS
    Slip Detection? y
```

- Trunk Group Administration screen
 - Dial Access? n
 - Busy Threshold: 20 (set at a value less than 30)
 - Night Service: 555 (extension number of an answering group)
 - Supplementary Service Protocol: b (for QSIG network) a (France VN4 mode)
 - Disconnect Supervision In? n Out? n set (both fields to n)
 - Send Name: n
 - Send Connected Number: n
 - Numbering format: unknown (for transgroupe or connection to VN2/VN3 public network)
- Synchronization Source screen (DS1 circuit pack location)
 - Primary: 01A07 (port identifier of the ISDN PRI board connected to the public network)
 - Secondary 01A08 (if there is more than one DS1 board, port identifier of the second ISDN PRI board connected to the public network)
- Route Pattern screen
 - Numbering Format: unkn-unkn (for connection to VN2/VN3 network or connection to transgroupe network) and pubu (for VN4 network)
 - ARS Analysis: all entries must be distinct in Dialed String and have Max=Min

Numbering Format

_	ARS Call Type	RoutePattern	TG
VN4	pubu	blank	blank
Transgroupe	pubu	unknown-unknown	unkn

Tie Trunk Administration

- Trunk-Group screen
 - Group Type: tie
 - Trunk Type (in/out): immed/auto
 - Outgoing Dial Type: tone
 - Incoming Dial Type: tone
 - Mode field: e&m
 - Type field: type-5

Feature Access Codes

- ARS: use is mandatory
- Priority Calling: blank
- TAAS: required

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System Parameters Maintenance

```
OPERATIONS SUPPORT PARAMETERS
           Product Identification: 111111111
             OSS Telephone Number:
      Alarm Origination Activated? n
       Cleared Alarm Notification? n
             Restart Notification? n
          Test Remote Access Port? n
       CPE Alarm Activation Level: major
             Packet Bus Activated? y
    Customer Access to INADS Port? n
SCHEDULED MAINTENANCE
                       Start Time: 21 : 00
                                            Stop Time: 22 : 01
                Daily Maintenance: daily
                 Save Translation: daily
      Control Channel Interchange: no
        System Clocks Interchange: no
                  SPE Interchange: no
                        EXP-LINK Interchange: no
```

Page 2 of 2 display system-parameters maintenance MAINTENANCE THRESHOLDS (Before Notification) Minimum Threshold for TTRs : 2 Minimum Threshold for CPTRs: 2 Minimum Threshold for Call Classifier Ports: 2 TERMINATING TRUNK TRANSMISSION TEST (Extension) Test Type 102: Test Type 100: Test Type 105: ISDN MAINTENANCE ISDN-PRI Test Call Extension: ISDN-BRI Service SPID: DS1 MAINTENANCE DS0 Loop-Around Test Call Extension: LOSS PLAN (Leave Blank if no Extra Loss is Required) Minimum Number of Parties in a Conference Before Adding Extra Loss:

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Set Options

et options	Page 1 of 2
	Major Minor
	On-board Station Alarms: w w
	Off-board Station Alarms: w w
	On-board Trunk Alarms (Alarm Group 1): y y
	Off-board Trunk Alarms (Alarm Group 1): w w
	On-board Trunk Alarms (Alarm Group 2): w 🛛 w
	Off-board Trunk Alarms (Alarm Group 2): w w
	On-board Trunk Alarms (Alarm Group 3): w w
	Off-board Trunk Alarms (Alarm Group 3): w w
	On-board Trunk Alarms (Alarm Group 4): w 🛛 w
	Off-board Trunk Alarms (Alarm Group 4): w w
	On-board Adjunct Link Alarms: w 🛛 w
	Off-board Adjunct Link Alarms: w w
	Off-board DS1 Alarms: w
	Off-board PI-LINK Alarms: w w
	Off-board Alarms (Other): w w
	Memory Card Capacity Alarms: w

Set optic	ons			Page 2 of 2	
		(Ala	rm Group)		
02: 1 1 03: 1 1 04: 1 1 05: 1 1 06: 1 1 07: 1 1 08: 1 1 09: 1 1	L1: 1 L2: 1 L3: 1 L4: 1 L5: 1 L6: 1 L7: 1 L8: 1 L9: 1	21: 1 22: 1 23: 1 24: 1 25: 1 26: 1 27: 1 28: 1 29: 1	31: 1 32: 1		
10:1 2	20: 1	30: 1			

Language

The following are the call-progress display messages and button labels that are translated into French. The translation is a generic form of the language so that it provides the widest customer base coverage. The entity providing a Lucent Technologies presence in a country is expected to provide each system with the following translations as a base "user-defined" set for systems sold within the corresponding market.

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The following set of "user-defined" translations apply to France. The "user-defined" selection is an option for the end-user display that is administered on the Station and Attendant Administration screens. For all phone types that support the "Display Module," except for 85XX phones, set the Display Language field to **user-defined** once the following administration is done. On the 85XX phone users screen, set the Display Language field to **English** to provide a consistent language interface for users of those phones (85XX phones support only English program prompts and faceplates). On the Console-Parameters screen, set the Attendant Group Name field from the English default of **OPERATOR**. On the trunk group screen, set the Group Name field for each trunk to something other than the English default of **OUTSIDE CALL**.

Automatic Wakeup Do Not Disturb

- OBJECT: auto-wakeup-dn-dst
 - English: AUTO WAKEUP Ext:

Translation: RDV/REVEIL - Poste:

- English: WAKEUP ENTRY DENIED
 Translation: RDV/REVEIL REFUSE
- English: WAKEUP REQUEST CANCELED
 Translation: DEMANDE RDV/REVEIL ANNULEE
- English: WAKEUP REQUEST CONFIRMED
 Translation: DEMANDE RDV/REVEIL CONFIRMEE
- English: Wakeup Call

Translation: Rappel de RDV/REVEIL

— English: Time:

Translation: Heure:

- English: DO NOT DIST Ext: Translation: NPD - Poste:
- English: DO NOT DIST Group:

Translation: NPD - Groupe:

- English: DO NOT DIST ENTRY DENIED
 Translation: NPD REFUSE
- English: THANK YOU DO NOT DIST ENTRY CONFIRMED Translation: NPD CONFIRME
- English: THANK YOU DO NOT DIST REQUEST CANCELED
 Translation: NPD ANNULE

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- OBJECT: auto-wakeup-dn-dst
 - English: INTERVAL FULL
 Translation: 1/4 H SATURE
 - English: NO PERMISSION
 - Translation: NON AUTORISE.
 - English: SYSTEM FULL
 Translation: SATURATION
 - English: TOO SOON
 Translation: TROP PROCHE
 - English: INVALID EXTENSION TRY AGAIN
 Translation: NUMERO DE POSTE ERRONE RECOMMENCER
 - English: INVALID GROUP TRY AGAIN
 Translation: NUMERO DE GROUPE ERRONE RECOMMENCER
 - English: WAKEUP MESSAGE:

Translation: ANNOUNCE RAPPEL RDV/REVEIL:

English: INVALID NUMBER - TRY AGAIN
 Translation: NUMERO ERRONE - RECOMMENCER

Call Identifiers

OBJECT: call-identifiers

English Term	Meaning of English Term	Translated Term
sa	ACD Supervisor Assistance	as
ac	Attendant Assistance Call	ао
tc	Attendant Control Of A Trunk Group	ао
an	Attendant No Answer	on
рс	Attendant Personal Call	рс
rc	Attendant Recall Call	ro
rt	Attendant Return Call	ra
SC	Attendant Serial Call	ch

Table 28.Call Identifiers

English Term	Meaning of English Term	Translated Term
со	Controlled Outward Restriction	cd
CS	Controlled Station To Station Restriction	сі
ct	Controlled Termination Restriction	са
db	DID Find Busy Station With CO Tones	SO
da	DID Recall Go To Attendant	sr
qf	Emergency Queue Full Redirection	ur
hc	Held Call Timed Reminder	aa
ic	Intercept	fm
ip	Interposition Call	ai
ld	LDN Calls On DID Trunks	si
	LDN: Listed Directory Number	
SO	Service Observing	ob
na	Unanswered Or Incomplete DID Call	sn
ACB	Automatic Callback	Rap
callback	Callback Call	Rappel
park	Call Park	Parcage
control	Control	Controle
ICOM	Intercom Call	Intercom
OTQ	Outgoing Trunk Queuing	At.Ligne
priority	Priority Call	Priorite
	Prioritaets-Ruf	
recall	Recall Call	Rappl Op
return	Return Call	Retour
ARS	Automatic Route Selection	Depart

Table 28. Call Identifiers — Continued

English Term	Meaning of English Term	Translated Term
forward	Call Forwarding	R.Temp
cover	Cover	Debord.
DND	Do Not Disturb	NPD
р	Call Pickup	i
С	Cover All Calls	С
n	Night Station Service, Including No Answer	N
В	All Calls Busy	0
f	Call Forwarding	t
b	Cover Busy	0
d	Cover On Don't Answer	n
S	Send All Calls	f
OPERATOR	Operator	OPERATEUR
EXT	Extension	POSTE/GROUPE
OUTSIDE CALL	Outside Call	APPEL EXT.
UNKNOWN	Unknown Name	INCONNU
NAME		
CONFERENCE	Conference	CONFERENCE
ringing	Ringing	Sonne
busy	Busy	Occupe
busy (I)	Busy With Intrusion Allowed	Occupe I
wait	Wait	att.
(I)	Intrusion	(I)
to187	<calling party=""> to <calling party></calling </calling>	а
Sta	Station	Poste
Trk	Trunk	Ligne
VDN	Vector Directory Number	VDN

Table 20. Call Identifiers — Continued	Table 28.	Call Identifiers — Continued
--	-----------	------------------------------

 The following table presents a translation of days of the week and months of the year.

English—Days	French—Days	English—Months	French—Months
Sunday	Dimanche	January	Janvier
Monday	Lundi	February	Fevrier
Tuesday	Mardi	March	Mars
Wednesday	Mercredi	April	Avril
Thursday	Jeudi	Мау	Маі
Friday	Vendredi	June	Juin
Saturday	Samedi	July	Juillet
		August	Aout
		September	Septembre
		October	Octobre
		November	Novembre
		December	Decembre

Leave Word Calling

- OBJECT: leave-word-calling
 - English: MESSAGES FOR
 - Translation: MESSAGES POUR
 - English: WHOSE MESSAGES? (DIAL EXTENSION NUMBER)
 Translation: MESSAGES DESTINES A? (SAISIR NO POSTE)
 - English: END OF MESSAGES (NEXT TO REPEAT)
 Translation: FIN DES MESSAGES (SUIVANT POUR RELIRE)
 - English: MESSAGES UNAVAILABLE TRY LATER
 Translation: MESSAGES NON DISPO ESSAYER PLUS TARD
 - English: MESSAGE RETRIEVAL DENIED
 Translation: CONSULTATION MESSAGES REFUSEE
 - English: MESSAGE RETRIEVAL LOCKED
 Translation: CONSULTATION MESSAGES VERROUILLEE
 - English: NO MESSAGES
 Translation: PAS DE MESSAGES
 - English: IN PROGRESS
 Translation: EN COURS

- English: DELETED
 - Translation: EFFACE
- English: GET DIAL TONE, PUSH Cover Msg Retrieval
 Translation: TONALITE, APPUYEZ SUR Lire Msg des Tiers
- English: Message Center (AUDIX) CALL
 Translation: Appel de la messagerie vocale (AUDIX)
- English: CANNOT BE DELETED CALL MESSAGE CENTER
 Translation: IMPOSSIBLE D'EFFACER APPELER MESSAGERIE

Malicious Call Trace

- OBJECT: malicious-call-trace
 - English: MALICIOUS CALL TRACE REQUEST
 Translation: DEMANDE D'IDENTIF.D'APPELS MALVEILLANTS
 - English: END OF TRACE INFORMATION
 Translation: FIN DE RECHERCHE DES APPELS MALVEILLANTS
 - English: original call redirected from:
 Translation: appel redirige de:
 - English: voice recorder port:

Translation: acces enregistrement:

- English: MCT activated by: for: Translation: IAM Active par: pour:
- English: party: (EXTENSION)
 Translation: corresp.: NUMERO POSTE/GROUPE
- English: party: (ISDN SID/CNI)
 Translation: corresp.: (IDENTIF. RNIS)
- English: party: (PORT ID)
 Translation: Corresp.: (NUMERO DE PORT)
- English: party: (ISDN PORT ID)
 Translation: Corresp.: (NUMERO DE PORT RNIS)

Miscellaneous Features

- OBJECT: miscellaneous-features
 - English: ALL MADE BUSY
 Translation: TOUS OCCUPES

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— English: BRIDGED	

- Translation: ASSOCIE(S)
- English: DENIED
 Translation: REFUSE
- English: INVALID
 Translation: ERRONE
- English: NO MEMBER
 Translation: VIDE
- English: OUT OF SERVICE
 Translation: HORS SERVICE
- English: RESTRICTED
 Translation: RESTREINT
- English: TERMINATED
 Translation: TERMINE
- English: TRUNK SEIZED
 Translation: LIGNE UTILISEE
- English: VERIFIED
 Translation: VERIFIE
- English: CDR OVERLOAD
 Translation: SURCHARGE TAXA.
- English: ANSWERED BY
 Translation: REPONDU PAR
- English: CALL FROM
 Translation: APPEL DE
- English: Skills
 Translation: SPECIALITES
- English:TOLL
 Translation: CAED
- English: FULL
 Translation: AEDA
- English: NONE
 - Translation: AR

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France	180
 — English: ORIG (Origination) 	
Translation: AEID	
 English: OTWD (Outward) 	
Translation: AED	
 English: CALL (<call> This Number)</call> 	
Translation: APPEL	
— English: INTL (International)	
Translation: INTL	
 — English: Info (Information) 	
Translation: INFO	
— English: p (Primary)	
Translation: p	
— English: s (Secondary)	
Translation: s	
— English: m (Mark)	
Translation: m	
— English: p (Pause)	
Translation: p	
— English: s (Suppress)	
Translation: s	
 English: w (Wait For A Specified Time) 	
Translation: a	
 English: W (Wait For Off-Premise Dial Tone) 	
Translation: A	
 English: You have adjunct messages 	
Translation: Vous avez des messages	
— English: Login Violation	
Translation: Connexion illicite	
 English: Barrier Code Violation 	
Translation: Code de connexion a distance illicite	
 English: Authorization Code Violation 	
Translation: Code authorisation illicite	

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— English: DIRECTORY - PLEASE ENTER NAME	
Translation: REPERTOIRE - SAISIR LE NOM	
— English: DIRECTORY UNAVAILABLE - TRY LATER	
Translation: REPERTOIRE NON DISPO ESSAYER PLUS	3 TARD
— English: NO MATCH - TRY AGAIN	
Translation: AUCUNE SOLUTION - RECOMMENCER	
— English: NO NUMBER STORED	
Translation: AUCUN NUMERO ENRESISTRE	
— English: TRY AGAIN	
Translation: RECOMMENCER	
— English: Ext (in EMRG Q)	
Translation: NO (FILE URG.)	
— English: HUNT GROUP NOT ADMINISTERED	
Translation: GROUPE DE POSTES NON ADMINISTRE	
— English: Q-time calls	
Translation: TpsAtt Appel	
 — English: Add Skill: Enter number, then # sign 	
Translation: Ajout specialite: saisir No puis #	
 — English: Remove Skill: Enter number, then # sign 	
Translation: Sortie specialite: Saisir No puis #	
 English: Press 1 for primary or 2 for secondary 	
Translation: 1 pour principale ou 2 pour secondaire	
— English: Enter Agent LoginID	
Translation: Saisir No Identification Agent	
— English: Call Type	
Translation: Type d'appel	
Property Management	
 OBJECT: property-management 	
— English: CHECK IN - Ext:	
Translation: ENTREE - Poste:	

English: CHECK IN: ROOM ALREADY OCCUPIED
 Translation: ENTREE: CHAMBRE INOCCUPEE

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Application Notes for Type Approval <i>France</i>	182
 English: CHECK IN COMPLETE Translation: ENTREE EFFECTUEE English: CHECK IN FAILED Translation: ENTREE NON VALIDEE English: CHECK OUT - Ext: Translation: SORTIE: Poste: English: CHECK OUT: ROOM ALREADY VACANT Translation: SORTIE: CHAMBRE INOCCUPEE 	
 English: CHECK OUT FAILED Translation: SORTIE NON VALIDEE English: MESSAGE NOTIFICATION FAILED Translation: ECHEC D'AVIS DE MESSAGE English: MESSAGE NOTIFICATION ON - Ext: Translation: AVIS DE MSG ACTIVE - Poste English: MESSAGE NOTIFICATION OFF - Ext: Translation: AVIS DE MSG DESACTIVE - Poste: English: CHECK OUT COMPLETE: MESSAGE LAMP OFF Translation: SORTIE EFFECTUEE: PAS DE MESSAGE English: CHECK OUT COMPLETE: MESSAGE LAMP ON Translation: SORTIE EFFECTUEE: MESSAGE LAMP ON Translation: SORTIE EFFECTUEE: MESSAGES English: MESSAGE LAMP ON 	-
 Translation: MESSAGES English: MESSAGE LAMP OFF Translation: PAS DE MESSAGE English: Occupied Rooms Translation: Chambres occupees English: Enter Desired Room State (1-6) Translation: Saisir etat de la chambre (1-6) English: Undefined State, Enter number from 1 - 6 Translation: Etat indefini, Saisir no de 1 a 6 	

Time of Day Routing

- OBJECT: time-of-day-routing
 - English: ENTER ACTIVATION ROUTE PLAN, DAY & TIME
 Translation: SAISIR H/DATE ACTIVATION AGENDA ROUTAGE
 - English: ENTER DEACTIVATION DAY AND TIME
 Translation: SAISIR H/DATE DESACTIVATION AGENDA
 - English: OLD ROUTE PLAN: ENTER NEW PLAN:
 Translation: ANCIEN AGENDA: SAISIR NOUVEAU:
 - English: OLD ROUTE PLAN: NEW PLAN: Translation: ACIEN AGENDA: NOUVEAU:
 - English: ROUTE PLAN: FOR ACT-TIME: Translation: AGENDA: HeureDebut:
 - English: ROUTE PLAN: FOR DEACT-TIME:
 Translation: AGENDA: POUR Heure Fin:

Softkey Labels

The following translations are consistent with the 8400 and 9400 DCP Terminals - Foreign Language Translation Requirements).

- OBJECT: softkey-labels
 - English: AD

Translation: NoAbr

— English: AutCB

Translation: Rappl

— English: CFrwd

Translation: RTemp

— English: CnLWC

Translation: AnMsg

- English: Cnslt
 Translation: Notif
- English: Count
 Translation: Compt
- English: CPark
 Translation: Parc

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— English: CPkUp	

- Translation: Intcp
- English: Dir
 Translation: Rpert
- English: Excl

Translation: Protc

- English: HFAns
 Translation: inter
- English: IAuto
 Translation: IAuto
- English: IDial

Translation: IAbr

- English: Inspt
 Translation: Info
- English: Last
 Translation: Bis
- English: LWC
 Translation: Msg
- English: Mark
 Translation: ModMF
- English: Pause
 Translation: Pause
- English: PCall
 Translation: Prior
- English: Prog
 Translation: Prog
- English: RngOf
 Translation: SOff
- English: SAC
 Translation: RFixe
- English:SFunc
 Translation: FSpec

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- English: Spres
 - Translation: Suppr
- English: Stats
 Translation: Stats
- English: Stop
 - Translation: Stop
- English: Timer
 Translation: Chron
- English: TmDay
 Translation: H/Dat
- English: View
 - Translation: AffNo
- English: Wait
 Translation: AttTo

VuStats

- OBJECT: vustats
 - English: FORMAT
 - Translation: FORMAT
 - English: NOT DEFINED
 - Translation: NON DEFINI
 - English: DOES NOT ALLOW OR REQUIRE ID Translation: NO IDENTIFICATION REQUIS
 - English: AGENT
 - Translation: AGENT
 - English: SPLIT/SKILL
 Translation: GROUPE ACD
 - English: TRUNK GROUP
 - Translation: GR. LIGNES
 - English: VDN
 - Translation: VDN
 - English: NOT ADMINISTERED
 Translation: NON ADMINISTRE

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— English: NOT MEASURED	
Translation: NON MESURE	
— English: AGENT NOT LOGGED IN	

Translation: AGENT N'AYANT PAS ETABLI LA

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Germany

Table 29 shows the recommended circuit packs.

Table 29. Recommended and Available CPs in Germany

Equipment	Equipment Type
Cabinet Type & Power	GAC-MCC DC-MCC AC-SCC AC-CSCC AC-CMC
AC Power Voltage & Freq	220V/50Hz
Ring Generator	25Hz
Tone Detector	>TN2182B >TN744D TN420C
Tone Clock	>TN2182B TN780
R2MFC Circuit	n/a
Speech Synthesizer	n/a
Call Classifier	>TN744D
Announcement	#TN750C >TN750B
Analog DID Trunk	>TN2184 (See the note that follows this table.)
Analog CO Trunk (No PPM)	>TN2147C
Analog CO Trunk (w/PPM)	>TN2184
4 Wire Tie Trunk	n/a
2 Wire Tie Trunk	n/a
Auxiliary Trunk	>TN763D
Digital CO/DID Trunk	n/a
Digital Tie Trunk	>TN464F TN464E
Digital PRI CO Trunk	>TN464F
Digital BRI Trunk	>TN2185
Digital Converter PRI-DASS	
Digital Converter PRI-DPNSS	
Digital Converter PRI-BRI	#TN-PRI-BRI
8 Port Analog Line	n/a
16 Port Analog Line	#TN2183 >TN2180

Equipment	Equipment Type
24 Port Analog Line	n/a
4 Wire Digital Line	>TN754B
2 Wire Digital Line	#TN2224 >TN2181
Data Line	>TN726B
BRI-U Line	
BRI-ST Line	TN556B

Table 29. Recommended and Available CPs in Germany — Continued



TN2184 provides DIOD operation and PPM at 12Hz or 16Hz, but not at 50Hz.

Feature Administration

The screen displays shown in this section were effective the date the type approval was awarded. The screens may have changed since that date.

Only those feature-related parameters that may have a Type Approval or basic connectivity implication for a particular country are listed here.

ARS/AAR Administration

> To enable ARS administration, on the System-Parameters Customer-Options screen, set the ARS field to y. You also should check all ARS/AAR defaults. All default ARS analysis codes are deleted before dialed strings are added for routing when DEFINITY is installed outside of North America. Be aware that the default for the 10 digits cause dialing problems. In particular, the following call types (appear as ARS/AAR defaults) typically are not used in non-North American ARS/AAR tables:

fnpa:	North American numbers with an area code.
hnpa:	North American numbers without an area code.
SVC:	North American numbers of the screen "x11".

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Lucent recommends only the following call types be used outside North America:

int:	For all international numbers.
natl:	For all national PN numbers.
pubu:	For all other external (that is, not extensions) numbers.

System Parameter Administration

Only those feature-related parameters that may have a Type Approval or basic connectivity implication for a particular country are listed here.

- Feature-Related System Parameters Administration
 - Trunk-to-Trunk Transfer: Restricted (of Public trunks not permitted in Germany)
 - Coverage Subsequent Redirection No Answer Interval: 1
 - Coverage Caller Response Interval (seconds): 1
 - Keep Held SBA at Coverage Point? y
 - Automatic Callback No Answer Timeout Interval (rings): 2
 - Call Park Timeout Interval (minutes): 3
 - Off-Premises Tone Detect Timeout Interval (seconds): 15
 - AAR/ARS Dial Tone Required: y
 - DID/TIE/ISDN Intercept Treatment: Attendant
 - Time before Off-hook Alert: 10
 - Service Observing Warning Tone: Yes
 - Public Network Trunks on Conference Call: 1
 - Conference Parties With PNTs: 3
 - Conference Parties Without PNTs: 6
 - Night Service Disconnect Timer: 180 sec
 - Short Interdigit Timer: 3 sec
 - Unanswered DID Call Timer: 25 sec
 - Line Intercept Tone Timer (seconds): 30
 - Auto-Hold: Yes1
 - Attendant Tone: Yes
 - Bridging Tone: No

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- Conference Tone: Yes
- Intrusion Tone: Yes
- DID Busy Treatment: Attendant
- Pull Transfer: No
- Level of Tone Detection: Medium
- Wait Answer Supervision Timer: No
- Repetitive Call Waiting Tone: Yes
- Outpulse Without Tone: No
- Network Feedback During Tone Detection: No
- Intercept Treatment On Failed Trunk Transfers: No
- (Station-to-switch) Recall Timing:
 - Flashhook Interval: No
 - Disconnect Timing: 250 ms
- System Parameter Country Options Administration
 - Companding Mode: A-law
 - Base Tone Generation Set: 13
 - Tone Detection Mode: 4
 - Interdigit Pause: long
 - Dial Tone Validation Timer: 600ms
 - Analog Ringing Cadence: 13
 - Customized Individual Tones
 - Customized tone definitions follow the syntax as specified:
 - [(Frequency/Level)|silence|goto)][(Duration ms)|(Step)]
 - Busy
 - (425/-4)(500)
 - (silence)(500) (475 is desired, but not possible)
 - (go to)(1)
 - Reorder
 - (425/-4)(250)
 - (silence)(250)
 - (go to)(1)
 - Ringback
 - (425/-4)(1000)

— (silence)(4000)

— (go to)(1)

Analog Trunk Administration

CO Trunks

— Trunk Group Screen

- Group Type: CO
- COR: COR for CO trunks must have a higher FRL than all incoming Tie trunk groups. (This is required since German regulations prohibit connecting two trunks even through a private network.)
- Direction: two-way
- Dial Access: Customer Option, No is recommended to avoid toll fraud
- Country Code: 13
- Digit Absorption List: blank
- Prefix-1: No
- Trunk Type: loop-start
- Outgoing Dial Type: tone
- Trunk Termination: rc (complex impedance)
- Parameters based on loop length (which itself is not administrable)

Loop Length	Trunk Gain	Terminal Balance	RA Trunk Loss
short	low	n	0dB
long	high	n	2dB

- Auto Guard: no
- Sig Bit Inversion: none
- Call Still Held: no
- Receive Answer Supervision: no
- Answer Supervision Timeout: 10 (This sets both the CP firmware timer and software timer. Set to **0** for any trunk receiving answer supervision.)
- Disconnect Supervision In:
 - Analog Trunks: yes
 - Digital Trunks: yes

- Disconnect Supervision Out: no
- Disconnect Timing: 500 msec (This field will not be used with CPs that can accept the Incoming Disconnect and Outgoing Disconnect timers. Set these latter two timers from the Administrable Timers Screen.)
- Suppress # Outpulsing: yes
- Trunk Group Administration Screen (Timing)

Set the following timers from the Administrable Timers screen during administration of each trunk group. Select the following CO trunk timer values for this country:

- Incoming Disconnect: 1100 ms
- Outgoing Disconnect: 1100 ms
- Outgoing Dial Guard: 4000 ms
- Incoming Glare Guard: 1500 ms
- Outgoing Glare Guard: 1500 ms
- Outgoing Rotary Dial Interdigit: 800 ms
- Ring Monitor Timer: 5200 ms
- Incoming Seizure: 500 ms
- Outgoing End-of-Dial: 10 sec
- Outgoing Seizure Response:
 - Analog trunks: 5 sec
 - Digital trunks: 2 sec
- Programmed Dial Pause: 1500 ms
- Flash Length: 540 ms
- End-To-End Signaling Pause: 150 ms
- End-To-End Signaling Tone: 350 ms
- PPS: 10
- Make: 40 ms
- Break: 60 ms
- PPM: n
- DIOD Trunks
 - Trunk Group Screen
 - Group Type: DIOD
 - Direction: two-way
 - Country Code: 13

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 Digit Absorption List: blank 	
Trunk Type: loop-start	

- Incoming Dial Type: rotary
- Outgoing Dial Type: rotary
- Trunk Termination: rc (complex impedance)
- Digit Treatment: blank
- Digits: blank
- Expected Digits: (depends on system size and numbering plan)
- Trunk Gain: low
- Parameters based on loop length (which itself is not administrable).

Loop Length	Terminal Balance	RA Trunk Loss
short	n	0dB
long	n	2dB

- Drop Treatment: silence
- Disconnect Supervision In:
- Analog Trunks: no
- Digital Trunks: yes
- Disconnect Supervision Out: no
- Suppress # Outpulsing: yes
- Trunk Group Administration Screen (Timing)

Set the following timers from the Administrable Timers screen during administration of each trunk group. Select the following DID trunk timer values for this country:

- Incoming Disconnect: 600 ms
- Outgoing Disconnect: 500 ms
- Incoming Dial Guard: 70 ms
- Outgoing Dial Guard: 1600 ms
- Outgoing Glare Guard: 100 ms Note: This blocks outgoing call attempts for 100 ms after previous release of trunk
- Incoming Glare Guard: 100 ms Note: This blocks incoming call attempts for 100 ms after previous release of trunk
- Incoming Partial Dial: 18 sec

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	Outgoing Rotary Dial Interdigit: 800 ms Ring Monitor Timer: 5200 ms Incoming Seizure: 500 ms Outgoing End of Dial: 10 sec Outgoing Seizure Response: 5 sec Programmed Dial Pause: 1500 ms Flash Length: 100 ms Tone: 350 ms Pause: 150 ms Incoming Incomplete Dial Alarm: 160 sec Outgoing Dial Pulse Rate (PPS): 10 pps	194
•	Outgoing Rotary Digit Dial Make: 40 ms Outgoing Rotary Digit Dial Break: 60 ms	
•	Outgoing Notary Digit Dial Dieak. 00 115	

- PPM: yes
- Frequency: 16khz

Digital Trunk Administration

In Germany, the public network does not cut through the voice path to an incoming B-channel until a CONNECT message is received from the called party. This is true for the VN4, 1TR6, and E- DSS1 protocols. Thus, it is not advisable to route incoming ISDN-PRI calls from the German public network over non-ISDN trunks, because the calling party will not hear any tones (ringback, busy, etc.) The best that can be done is to have an attendant or a vector handle incoming calls that might need to be routed over a non-ISDN trunk. This section does not list all possible valid administrable combinations. Rather the most common or standard combination, compatible with public-network and Type Approval standards for each country, is presented:

- Tie Trunks
 - Non-ISDN Signaling Example (DS1 Administration screen)
 - Circuit Pack: TN464E or later
 - Bit Rate: 2.048
 - Interface Companding: A-law
 - Line Coding: HDB3
 - Signaling Mode: CAS
 - Country Protocol: 13
 - Interconnect: pbx

- CRC?: no
- Idle Code: (accept the default)
- ISDN-PRI Signaling (Private Network for a connection to another DEFINITY only)

This example assumes use of AT&T Country Protocol with facility associated signaling. Other feature options will require changes in one or more administered items.

- DS1 Administration screen
- Circuit Pack: TN464E or later
- Bit Rate: 2.048
- Interface Companding: A-law
- Line Coding: HDB3
- Signaling Mode: isdn-pri
- Connect: pbx
- Interface: user (on one side and "network" on the other side)
- Country Protocol: 1
- Protocol Version: a
- CRC: No
- Idle Code: (accept the default)
- Signaling Group screen
 - Associated Signaling: Yes
 - Primary D_Channel: xxxx16 (xxxx=>depends on CP physical location)
- Trunk Group Administration screen
 - Group Type: isdn-pri
 - COR: COR for Tie trunks must have a lower FRL than the FRL of all CO/DID Trunk Groups and lower FRL than assigned to each Route Pattern Preferences for all CO and DIOD trunk groups. This is required since German regulations prohibit connecting two CO trunks even through a private network.
 - Service Type: tie
 - Supplementary Service Protocol: a
- ISDN-PRI (Private Network for a connection to a non-DEFINITY via QSIG) Signaling

This example assumes use of AT&T Country Protocol with facility associated signaling. Other feature options will require changes in one or more administered items.

- DS1 Administration screen
 - Circuit Pack: TN464E or later
 - Bit Rate: 2.048
 - Interface Companding: A-law
 - Line Coding: HDB3 or AMI-BASIC depending on the administration of the other PBX
 - Signaling Mode: isdn-pri
 - Connect: pbx
 - Interface: peer-master or peer-slave (this affects layer 2; it should be set based on the administration of the other PBX)
 - Peer Protocol: ecma Side: a or b (this affects glare handling; it should be set based on the administration of the other PBX)
 - Country Protocol: 1
 - Protocol Version: a
 - CRC: No (yes is also possible, depending on the administration of the other PBX)
 - Idle Code: (must match the idle code of the other PBX)
- Signaling Group screen
 - Associated Signaling: Yes
 - Primary D_Channel: xxxx16 (xxxx=>depends on CP physical location)
- Trunk Group Administration screen
 - Group Type: isdn-pri
 - COR: COR for Tie trunks must have a lower FRL than the FRL of all CO/DID Trunk Groups and lower FRL than assigned to each Route Pattern Preferences for all CO and DIOD trunk groups. This is required since German regulations prohibit connecting two CO trunks even through a private network.
 - Service Type: tie
 - Supplementary Service Protocol: a
- ISDN-PRI (Public Network)

Temporary Signaling Connections and D-Channel Backup features must not be administered for E1 interfaces that use country protocol 13 (Germany).

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- DS1 Administration screen
 - Circuit Pack: TN464E or later
 - Bit Rate: 2.048
 - Interface Companding: A-law
 - Line Coding: HDB3
 - Signaling Mode: isdn-pri
 - Connect: Network
 - Country Protocol: 13
 - Protocol Version: a, for 1TR6 and b, for E-DSS1. Protocol version selection depends on the type of public network service purchased by the customer
 - CRC: yes
 - Idle Code: 01010100
- Signaling Group screen
 - Associated Signaling: Yes
 - Primary D_Channel: xxxx16 (xxxx=>depends on CP physical location)
- Trunk Group Administration screen
 - Group Type: isdn-pri
 - COR: COR for Tie trunks must have a lower FRL than the FRL of all CO/DID Trunk Groups and lower FRL than assigned to each Route Pattern Preferences for all CO and DIOD trunk groups. This is required since German regulations prohibit connecting two CO trunks even through a private network.
 - Service Type: public_ntwrk
 - Overlap Receiving: yes, a must for DID trunk operation

Station Administration

In general, once the user defined language is administered to contain the translations for German language, the administrator selects "user-defined" on station administration and attendant administration to pick German as the display language for the corresponding display set user.

85XX Phones

In G3V3, the 8510 phone must be administered as a 7507 when you use it for both voice and data operation. If you use it for voice only operation, a phone type of 8510D is sufficient. Aliasing a phone type of 8510+ to a 7507 is a preferable way of handling the situation. In G3V4, there is native support for the 8510/8520 voice/data operation and aliasing is not required.

- Country Code = 9
- Companding Mode = a-law
- Transmit Value = +3
- Receive Value = -5
- Side Tone Value = 0
- 84XX(94XX) Phones

Aliasing the phone types of 9403B to 8403B, 9410B to 8410B, 9410D to 8410D, and 9434D to 8434D would be a preferable way of handling the administration for the 94XX family of phones.

- Phone Parameters
 - Default Parameter Set: 13
 - Customize Parameters? n

NOTE:

The default parameters for selecting Germany country code 13 are as follows and SHOULD NOT BE ADMINISTERED INDIVIDUALLY with software load G3V3i.02.0.044.0 or later loads. These values are included as reference information only.

- Display Mode: 2
- DLI Voltage Level: auto
- Handset Expander Enabled? n
- Primary Levels:
 - Voice Transmit (dB): +5.0
 - Voice Sidetone (dB): -12.0
 - Voice Receive (dB): -11.5
 - Touch Tone Sidetone (dB): -25.0
 - Touch Tone Transmit (dB): -4.0
- Adjunct Levels
 - Voice Transmit (dB): -5.0
 - Voice Receive (dB): -2.0
 - Voice Sidetone (dB): -21.5
 - Touch Tone Sidetone (dB): -25.0
- Station Administration (nothing except for alias of 94XX to 84XX equivalent)

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- VISTA Headset adaptor settings:
 - Switch: Position 5
 - Tx-pot: 1 o'clock
 - Volume-control on the Phone: Nominal
- Valid Nordcom combinations:
 - Profile Monaural Headset <or>
 - Profile Binaural Headset <or>
 - Stetomike HMT Headset
- 603/302B Phones
 - Phone Parameters
 - Default Parameter Set: 13
 - Customize Parameters? n

NOTE:

The default parameters for selecting Germany country code 13 are as follows and SHOULD NOT BE ADMINISTERED INDIVIDUALLY with software load G3V3i.02.0.044.0 or later loads. These values are included as reference information only.

- Display Mode: 2
- DLI Voltage Level: auto
- Primary Levels:
 - Voice Transmit (dB): +1.5
 - Voice Sidetone (dB): -10.5
 - Voice Receive (dB): -7.5
 - Touch Tone Sidetone (dB): -25.0
 - Touch Tone Transmit (dB): -4.0
- VISTA Headset adaptor settings:
 - Switch: Position 1
 - Tx-pot: 3 o'clock
 - Volume-control on the 603: Nominal
- Valid Nordcom combinations:
 - Profile Monaural Headset and Headset Amplifier 54 <or>

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	 Profile Binaural Headset and Headset A <or></or> 	Amplifier 54

Stetomike HMT Headset

Language

The following are the call progress display messages and button labels that are translated into German. The translation is a generic form of the language so that it provides the widest customer base coverage. The entity providing AT&T presence in a country is expected to provide each system with the following translations as a base "user-defined" set for systems sold within the corresponding market.

The following set of "user-defined" translations apply to Germany, Switzerland, and Austria. The "user-defined" selection is an option for the end-user display that is administered on the Station and Attendant Administration screens. For all phone types that support the "Display Module," except for 85XX phones, set the Display Language field to **user-defined** once the following administration is done. On the 85XX phone users screen, set the Display Language field to **English** to provide a consistent language interface for users of those phones (85XX phones support only English program prompts and faceplates). On the Console-Parameters screen, set the Attendant Group Name field to **Telefonist** from the English default of **OPERATOR**. On the trunk group screen, set the Group Name field for each trunk to something other than the English default of **OUTSIDE CALL**.

Automatic Wakeup Do Not Disturb

- OBJECT: auto-wakeup-dn-dst
 - English: AUTO WAKEUP Ext:

Translation: Autom. Weckruf - NSt:

English: WAKEUP ENTRY DENIED

Translation: Weckruf nicht angenommen

- English: WAKEUP REQUEST CANCELED
 Translation: Weckruf Eingabe abgebrochen
- English: WAKEUP REQUEST CONFIRMED
 Translation: Weckruf Eingabe bestaetigt
- English: Wakeup Call
 - Translation: Weckruf
- English: Time:
 - Translation: Zeit:
- English: DO NOT DIST Ext:

Translation: Nicht stoeren - NSt:

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— English: DO NOT DIST - Group:	
Translation: Nicht stoeren - Gruppe:	
 — English: DO NOT DIST ENTRY DENIED 	
Translation: Eingabe zurueckgewiesen	
— English: THANK YOU - DO NOT DIST ENTRY CONFIRME	D
Translation: Eingabe 'nicht stoeren' bestaetigt	
— English: THANK YOU - DO NOT DIST REQUEST CANCEL	ED
Translation: Eingabe 'nicht stoeren' abgebrochen	
 OBJECT: auto-wakeup-dn-dst 	
— English: INTERVAL FULL	
Translation: W-Zeit belegt	
(Explanation: nur maximale Weckrufe zur gleichen Zeit)	
— English: NO PERMISSION	
Translation: K. Berechtig.	
— English: SYSTEM FULL	
Translation: System voll	
— English: TOO SOON	
Translation: Zu frueh	
— English: INVALID EXTENSION - TRY AGAIN	
Translation: Falsche NSt - Bitte wiederholen	
— English: INVALID GROUP - TRY AGAIN	
Translation: Falsche Gruppe - Bitte wiederholen	
— English: WAKEUP MESSAGE:	
Translation: Weckruf Nachricht:	
— English: INVALID NUMBER - TRY AGAIN	
Translation: Falsche Nummer - Bitte wiederholen	

Call Identifiers

OBJECT: call-identifiers

English Term	Meaning of English Term with German Expansion	Translated Term	
sa	ACD Supervisor Assistance	GH	
	ACD Hilfe vom Gruppenleiter		
ac	Attendant Assistance Call	GT	
	Gespraeuchsaufbau durch Telefonisten		
tc	Attendant Control Of A Trunk Group	AK	
	Amtsleitungs Kontrolle durch Telefonisten		
an	Attendant No Answer	kA	
	Keine Antwort		
рс	Attendant Personal Call	TG	
	Telefonisten-Gespraech		
rc	Attendant Recall Call	RR	
rt	Attendant Return Call	RT	
	Rueckruf vom Telefonisten		
SC	Attendant Serial Call	SG	
	Serien-Gespraech (Gepraech wird nach Beendigung jeweils zum Telefonisten zurueckgegeben)		
со	Controlled Outward Restriction	AS	
	Kontrollierte Amtswahlsperre		
CS	Controlled Station To Station Restriction	IS	
	Kontrollierte Internsperre		
ct	Controlled Termination Restriction	ES	
	Kontrollierte Empfangssperre		

Table 30. English-German Call Identifiers

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English Term	Meaning of English Term with German Expansion	Translated Term
db	DID Find Busy Station With CO Tones	DZ
	Durchwahlgespraech: Zwangsabwurf zum Telefonisten	
da	DID Recall Go To Attendant	DT
	Durchwahl Rueckruf umgleitet zum Telefonisten	
qf	Emergency Queue Full Redirection	UW
	Umleitung bei voller Warteschlange	
hc	Held Call Timed Reminder	HT
	Halte-Timer	
ic	Intercept	DF
	Abwurf bei Durchwahl-Fehler (Aufschaltung)	
ip	Interposition Call	GG
	Gruppeninternes Gespraech	
ld	LDN Calls On DID Trunks	DG
	LDN: Listed Directory Number	
	(Durchwahlgespraech)	
	(Call to an extension which has the allowance to get DID-calls)	
SO	Service Observing	Ue
	Ueberpruefung des Gespraechs	

Table 30. English-German Call Identifiers — Continued

Continued on next page

English Term	Meaning of English Term with German Expansion	Translated Term	
na	Unanswered Or Incomplete DID Call	e UD	
	Unbeantworteter oder unvollstaendiger Durchwahl Anruf		
ACB	Automatic Callback	ARueckr	
callback	Callback Call	Rueckruf	
park	Call Park	Parken	
	Gespraech parken		
control	Control	Kontr.	
ICOM	Intercom Call	Int.Ruf	
	Intern Ruf		
OTQ	Outgoing Trunk Queuing	W auf Al	
	Warten auf abgehende Amtsleitung		
priority	Priority Call		
	Prioritaets-Ruf		
recall	Recall Call	Rueckruf	
return	Return Call	Rufe zur	
	Rufe zurueck		
ARS	Automatic Route Selection	ARS	
	(ALL = Automatische Leitweglenkung is not as nice)		
forward	Call Forwarding	Ruf-Uml	
	Rufumleitung		
cover	Cover	Ruf-WL	
	Kontrollierte Rufumleitung (mehrere Ziele)		
	(Rufweiterleitung)		

Table 30. English-German Call Identifiers — Continued

English Term	Meaning of English Term with German Expansion	Translated Term
DND	Do Not Disturb	N.stoer
	Nicht Stoeren	
р	Call Pickup	р
	Heranholen (Pick-up)	
С	Cover All Calls	R
	Generelle Rufumleitung an vordefinierte Ziele	
n	Night Station Service, Including No Answer	n
	Nachtabfragestelle, incl. Keine Antwort	
В	All Calls Busy	A
f	Call Forwarding	r
	Rufumleitung	
b	Cover Busy	В
	Rufumleitung bei Besetzt	
d	Cover On Don't Answer	к
	Rufumleitung bei keiner Antwort	
S	Send All Calls	Р
	Spezielle Rufumleitung an vom Benutzer programmierte Ziel(e)	
OPERATOR	Operator	Telefonist
EXT	Extension	Nebenstelle
OUTSIDE CALL	Outside Call	Amtsgespraech
UNKNOWN	Unknown Name	unbekannte Mst
NAME		
CONFERENCE	Conference	Konferenz
ringing	Ringing ruft	

Table 30. English-German Call Identifiers — Continued

English Term	Meaning of English Term with German Expansion Translated Term		
busy	Busy	besetzt	
busy (I)	Busy With Intrusion Allowed	bes.(A)	
	Besetzt - Aufschalten erlaubt		
wait	Anklopfen	Ankl.	
(I)	Intrusion	auf	
	Aufschalten		
to	<calling party=""> to <calling party></calling </calling>	zu	
	<anrufender tln.=""> zu <angerufenem tln.=""></angerufenem></anrufender>		
Sta	Station	NST	
Trk	Trunk	Amts-Ltg	
	Amtsleitung		
VDN	Vector Directory Number	VDN	
	Vektorisiertes Durchwahl-Nummer		

Table 30. English-German Call Identifiers — Continued

Date/Time

- OBJECT: date-time
 - English: SORRY, TIME UNAVAILABLE NOW
 - Translation: Zeitanzeige leider jetzt nicht verfuegbar
 - The following table presents a translation of days of the week and months of the year.

English — Days	German — Days	English — Months	German — Months
Sunday	Sonntag	January	Januar
Monday	Montag	February	Februar
Tuesday	Dienstag	March	Maerz
Wednesday	Mittwoch	April	April
Thursday	Donnerstag	Мау	Mai

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Friday	Freitag	June	Juni
Saturday	Samstag	July	Juli
		August	August
		September	September
		October	Oktober
		November	November
		December	Dezember

Leave Word Calling

- OBJECT: leave-word-calling
 - English: MESSAGES FOR
 - Translation: Nachrichten fuer
 - English: WHOSE MESSAGES? (DIAL EXTENSION NUMBER) Translation: Wessen Nachrichten? (Waehle NSt-Nummer)
 - English: END OF MESSAGES (NEXT TO REPEAT) Translation: Ende der Nachrichten (Weiter-Nochmal)
 - English: MESSAGES UNAVAILABLE TRY LATER Translation: Nachrichten jetzt nicht verfuegbar
 - English: MESSAGE RETRIEVAL DENIED Translation: Zugang zu Nachrichten zurueckgewiesen
 - English: MESSAGE RETRIEVAL LOCKED

Translation: Zugang zu Nachrichten gesperrt

- English: NO MESSAGES
 - Translation: Keine Nachrichten
- English: IN PROGRESS Translation: In Bearbeitung
- English: DELETED Translation: Geloescht
- English: GET DIAL TONE, PUSH Cover Msg Retrieval Translation: Leitung belegen, dann "Nachr.-Zugriff"
- English: Message Center (AUDIX) CALL Translation: Nachrichten-Hinweis auf (AUDIX)
- English: CANNOT BE DELETED CALL MESSAGE CENTER Translation: Loeschen nicht moeglich - Rufe Nachr-Verw

Malicious Call Trace

- OBJECT: malicious-call-trace
 - English: MALICIOUS CALL TRACE REQUEST
 Translation: Fangschaltung aktivieren
 - English: END OF TRACE INFORMATION
 Translation: Ende der Fangschalt-Info
 - English: original call redirected from:
 Translation: Anruf umgeleitet von:
 - English: voice recorder port:
 Translation: Sprachaufzeichnung-Port:
 - English: MCT activated by: for:
 Translation: FS aktiviert von: fuer:
 (Explanation: FangSchaltung aktiviert von: fuer:)
 - English: party : (EXTENSION)

Translation: Teiln. : (Nebenstelle)

- English: party : (ISDN SID/CNI)
 Translation: Teiln. : (ISDN Tln 1-Tln 2)
- English: party : (PORT ID)
 Translation: Teiln. : (Port Ref-Nr)
- English: party : (ISDN PORT ID)
 Translation: Teiln. : (ISDN Port Ref-Nr)

Miscellaneous Features

- OBJECT: miscellaneous-features
 - English: ALL MADE BUSY
 - Translation: Alle Besetzt
 - English: BRIDGED
 - Translation: Gemeinsame Ltg.
 - English: DENIED
 - Translation: Abgewiesen
 - English: INVALID
 Translation: Ungueltig

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— English: NO MEMBER	
Translation: N. im Amts-Buend	
(Explanation: Nicht im Amtsbuendel)	

- English: OUT OF SERVICE
 Translation: Ausser Betrieb
- English: RESTRICTED
 Translation: Gesperrt
- English: TERMINATED
 Translation: Beendet
- English: TRUNK SEIZED
 - Translation: Amtsltg. belegt
- English: VERIFIED
 - Translation: Uberprueft
- English: CDR OVERLOAD
 - Translation: GDE Ueberlastet
 - (Explanation: Call detailed recording Gespraechs-Daten-Erfassung) Ueberlastet
- English: ANSWERED BY
 - Translation: Beantwortet von
- English: CALL FROM
 - Translation: Anruf von
- English: Skills
 - Translation: Fertigkeit
 - (REMARK: ACD Agent Belastbarkeit)
- English:TOLL
 - Translation: AAnf
 - (Explanation: Amtsleitungs-Anforderung)
- English: FULL
 - Translation: K-Be
 - (Explanation: Keine Berechtigung fuer Amtsleitung)
- English: NONE
 - Translation: Kein
- English: ORIG (Origination)
 - Translation: Orig

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-	 English: OTWD (Outward) 	
	Translation: Abg.	
-	 English: CALL (<call> This Number)</call> 	
	Translation: Rufe	
-	 English: INTL (International) 	
	Translation: Intl	
-	 English: Info (Information) 	
	Translation: Info	
-	– English: p (Primary)	
	Translation: p	
-	 English: s (Secondary) 	
	Translation: s	
-	 English: m (Mark) 	
	Translation: m	
-	– English: p (Pause)	
	Translation: p	
-	 English: s (Suppress) 	
	Translation: u (unterdruecke)	
-	 English: w (Wait For A Specified Time) 	
	Translation: w	
-	 English: W (Wait For Off-Premise Dial Tone) 	
	Translation: W	
-	 English: You have adjunct messages 	
	Translation: Sie haben Nachrichten auf Zusatzsystem	
-	 English: Login Violation 	
	Translation: Login Verletzung	
-	 English: Barrier Code Violation 	
	Translation: Passwort Verletzung	
-	 English: Authorization Code Violation 	
	Translation: Berechtigungs-Code Verletzung	
-	– English: DIRECTORY - PLEASE ENTER NAME	
	Translation: Telefonverzeichnis: Bitte Namen eingeben	

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 English: DIRECTORY UNAVAILABLE - TRY LATER Translation: Tel-Verz: Kein Zugang - Spaeter probieren English: NO MATCH - TRY AGAIN Translation: Nicht gefunden - Bitte wiederholen English: NO NUMBER STORED Translation: Keine Nummer gespeichert English: TRY AGAIN Translation: Bitte wiederholen English: Ext (in EMRG Q) Translation: NSt (in Not-WS) (Explanation: in Notruf-Warteschlange) English: HUNT GROUP NOT ADMINISTERED Translation: Sammelgruppe Nicht eingetragen English: Q-time calls Translation: W-Zeit Anr. English: Add Skill: Enter number, then # sign Translation: Fertigkeit eing.: Nummer eing., dann # English: Press 1 for primary or 2 for secondary Translation: 1 fuer Primaer oder 2 fuer Sekundaer English: Enter Agent LoginID Translation: Login-ID des Agenten eingeben 	
Property Management	
 OBJECT: property-management 	
— English: CHECK IN - Ext:	
Translation: Check in - NSt:	
 English: CHECK IN: ROOM ALREADY OCCUPIED 	
Translation: Check in: Zimmer bereits besetzt	
 English: CHECK IN COMPLETE 	

- English: CHECK IN COMPLETE
 Translation: Check in fertig
- English: CHECK IN FAILED

Translation: Check in nicht erfolgt

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— English: CHECK OUT - Ext:	
Translation: Check out - NSt:	
— English: CHECK OUT: ROOM ALREADY VACANT	
Translation: Check out: Zimmer bereits frei	
— English: CHECK OUT FAILED	
Translation: Check out nicht erfolgreich	
— English: MESSAGE NOTIFICATION FAILED	
Translation: Nachrichten-Hinweis nicht erfolgreich	
— English: MESSAGE NOTIFICATION ON - Ext:	
Translation: Nachrichten-Hinweis ein - NSt:	
- English: MESSAGE NOTIFICATION OFE - Ext:	

- English: MESSAGE NOTIFICATION OFF Ext: Translation: Nachrichten-Hinweis aus - NSt:
- English: CHECK OUT COMPLETE: MESSAGE LAMP OFF
 Translation: Check out fertig: Nachrichten-Licht aus
- English: CHECK OUT COMPLETE: MESSAGE LAMP ON Translation: Check out fertig: Nachrichten-Licht ein
- English: MESSAGE LAMP ON
 Translation: Nachrichten-Licht ein
- English: MESSAGE LAMP OFF
 Translation: Nachrichten-Licht aus
- English: Occupied Rooms
 Translation: Besetzte Zimmer
- English: Enter Room Status
 Translation: Zimmer-Status eingeben
- English: Invalid Maid State
 Translation: Zimmermaedchen Status ungueltig

Time of Day Routing

- OBJECT: time-of-day-routing
 - English: ENTER ACTIVATION ROUTE PLAN, DAY & TIME
 Translation: Eingabe: Routenplan ein, Tag & Uhrzeit
 - English: ENTER DEACTIVATION DAY AND TIME
 Translation: Eingabe: Routenplan aus, Tag & Uhrzeit

DEFINITY® Enterprise Communications Server Application Notes for Type Approval	lssue 1 June 1999
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— English: OLD ROUTE PLAN: ENTER NEW PLAN:	
Translation: Alter Routenplan: Eingabe neuer Plan:	
— English: OLD ROUTE PLAN: NEW PLAN:	
Translation: Alter Routenplan: Neuer Routenplan:	
— English: ROUTE PLAN: FOR ACT-TIME:	
Translation: Routenplan: fuer Ein-Zeit:	
 English: ROUTE PLAN: FOR DEACT-TIME: 	

Translation: Routenplan: fuer Aus-Zeit:

Softkey Labels

The following translations are consistent with the 8400 and 9400 DCP phones - Foreign Language Translation Requirements).

- OBJECT: softkey-labels
 - English: AD

Translation: K-Wa

English: AutCB

Translation: RRuf

English: CFrwd

Translation: RufUm

- English: CnLWC

Translation: NaAnn

(Explanation: Nachricht annullieren)

- English: Cnslt

Translation: Direk

English: Count

Translation: Zaehl

- English: CPark
 Translation: Park
- English: CPkUp
 Translation: Pick
- English: Dir
 Translation: Verz
- English: Excl
 Translation: ASper

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— English: HFAns	
Translation: AutoA	
— English: IAuto	
Translation: I-Ver	
(Explanation: Automatische Intern-VerbindungStoppuhr)	
— English: IDial	
Translation: I-KW	
— English: Inspt	
Translation: Info	
— English: Last	
Translation: WahlW	
— English: LWC	
Translation: Nachr	
(Explanation: Zielwahl-TasteNachricht)	
— English: Mark	
Translation: TmpTW	
(Explanation: RueckrufTemporaere(zeitweise)Tonwahl)	
— English: Pause	
Translation: Pause	
(Explanation: Rufumleitung)	
— English: PCall	
Translation: Prio	
(Explanation: Prioritaets-Ruf)	
— English: Prog	
Translation: Progr	
(Explanation: DirektrufProgrammieren)	
— English: RngOf	
Translation: R.aus	
(Explanation: EreigniszaehlerRufsignal aus)	
— English: SAC	
Translation: Abwrf	
(Explanation: Gespraech parkenAbwurf aller Gespraech	e)

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— English:SFunc	
Translation: Z-Fkt	
(Explanation: Heranholen (Pick-up)Zusatzfunktion)	
— English: Spres	

Translation: K.Anz

(Explanation: VerzeichnisAnzeige unterdruecken (Keine Anzeige))

- English: Stats

Translation: Stat

(Explanation: Aufschaltsperre ACD Statistik)

- English: Stop

Translation: U.WaW

(Explanation: Automatisches Antworten Unbestimmtes Warten auf Waehlton)

— English: Timer

Translation: Timer

- English: TmDay

Translation: Uhr

(Explanation: Interne KurzwahlUhrzeit/Datum)

- English: View

Translation: NrAnz

(Explanation: GespraechsinformationRufnummer Anzeige)

English: Wait

Translation: Warte

(Explanation: WahlwiederholungWarten auf Waehlton)

VuStats

- OBJECT: vustats
 - English: FORMAT
 - Translation: Format
 - English: NOT DEFINED
 - Translation: Undefiniert
 - English: DOES NOT ALLOW OR REQUIRE ID
 Translation: ID nicht noetig/erforderlich

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English: AGENT Translation: Agent	

- English: SPLIT/SKILL
 - Translation: (Tlg./Fert.)
 - (Explanation: Teilung nach Fertigkeit)
 - (Split according to skill)
- English: TRUNK GROUP
 - Translation: Amtsbuendel
- English: VDN
 - Translation: Vekt-DuWa-Nr
 - (Explanation: Vektorisierte Durchwahl Nummer)
- English: NOT ADMINISTERED
 Translation: Nicht eingetragen
- English: NOT MEASURED
 - Translation: Nicht gemessen

<OR>

Translation: Nicht erfasst

- English: AGENT NOT LOGGED IN
 - Translation: Agent nicht eingeloggt <OR>

Translation: Agent nicht angemeldet

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Greece

Table 31 shows the recommended circuit packs.

Table 31. Recommended and Available CPs in Greece

Equipment	Equipment Type
Cabinet Type & Power	GAC-MCC DC-MCC AC-SCC AC-CSCC AC-CMC
AC Power Voltage & Freq	220V/50Hz
Ring Generator	20Hz
Tone Detector	>TN2182B >TN744D TN748D TN756
Tone Clock	>TN2182B TN780 TN756
R2MFC Circuit	n/a
Speech Synthesizer	>TN725B
Call Classifier	>TN744D
Announcement	TN750C TN750B TN750
Analog DID Trunk	>TN753
Analog CO Trunk (No PPM)	>TN747B
Analog CO Trunk (w/PPM)	#TN465C>TN465B TN465
4 Wire Tie Trunk	>TN760D
2 Wire Tie Trunk	
Auxiliary Trunk	>TN763D TN763C
Digital CO/DID Trunk	>TN464F TN464E TN464D
Digital Tie Trunk	>TN464F TN464E TN464D TN464C
Digital PRI CO Trunk	n/a
Digital BRI Trunk	
Digital Converter PRI-DASS	
Digital Converter PRI-DPNSS	
Digital Converter PRI-BRI	
8 Port Analog Line	TN742
16 Port Analog Line	>TN746B
24 Port Analog Line	n/a

Equipment	Equipment Type
4 Wire Digital Line	>TN754B
2 Wire Digital Line	#TN2224 >TN2181
Data Line	>TN726B
BRI-U Line	
BRI-ST Line	TN556B

Table 31. Recommended and Available CPs in Greece — Continued



A-law companding is the national standard in Greece. However, Mu-law is used internally to the system for service circuits and analog lines. Network interfaces are configured as A-law if required.

Feature Administration

The screen displays shown in this section were effective the date the type approval was awarded. The screens may have changed since that date.

Only those feature-related parameters that may have a Type Approval or basic connectivity implication for a particular country are listed here.

ARS/AAR Administration

To enable ARS administration, on the System-Parameters Customer-Options screen, set the ARS field to **y**. You also should check all ARS/AAR defaults. All default ARS analysis codes are deleted before dialed strings are added for routing when DEFINITY is installed outside of North America. Be aware that the default for the 10 digits cause dialing problems. In particular, the following call types (appear as ARS/AAR defaults) typically are not used in non-North American ARS/AAR tables:

fnpa:	North American numbers with an area code.
hnpa:	North American numbers without an area code.
SVC:	North American numbers of the screen "x11".

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Lucent recommends only the following call types be used outside North America:

int:	For all international numbers.
natl:	For all national PN numbers.
pubu:	For all other external (that is, not extensions) numbers.

System Parameter Administration

Only those feature-related parameters that may have a Type Approval or basic connectivity implication for a particular country are listed here.

- Feature-Related System Parameters Administration
 - Trunk-to-Trunk Transfer: Permitted by country's regulations -Selection is customer's choice.
 - Public Network Trunks on Conference Call: 5
 - Conference Parties With PNTs: 6
 - Conference Parties Without PNTs: 6
 - Line Intercept Tone Timer: 30
 - Night Service Disconnect Timer: 180 sec
 - Short Interdigit Timer: 3 sec
 - Unanswered DID Call Timer: 60
 - Auto-Hold: Yes ⁷
 - Attendant Tone: Yes
 - Bridging Tone: No
 - Conference Tone: No
 - Intrusion Tone: Yes
 - Repetitive Call Waiting Tone: No
 - DID Busy Treatment: Attendant
 - Pull Transfer: No
 - Level of Tone Detection: Broadband
 - Outpulse Without Tone: Yes
 - (Station-to-switch) Recall Timing:
 - Flashhook Interval: Yes
 - Upper Bound: 1000 ms

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■ Lower Bound: 200 ms	

- Lower Bound: 200 ms
- System Parameter Country Options Administration
 - Companding Mode: mu-law
 - Base Tone Generation Set: 17
 - Tone Detection Mode: 1
 - Interdigit Pause: short
 - Digital Loss Plan: 17
 - Analog Ringing Cadence: 17
 - 440 Hz PBX-dial Tone: no
 - 440 Hz Secondary-dial Tone: yes

Analog Trunk Administration

- CO Trunks
 - Trunk Group Screen
 - Group Type: CO
 - Country: 17
 - Trunk Gain: high
 - Direction: two-way
 - Digit Absorption List: blank
 - Prefix-1: No
 - Trunk Type: loop-start
 - Outgoing Dial Type: tone
 - Trunk Termination: rc (complex impedance)
 - Auto Guard: no
 - Dial Access: yes
 - Call Still Held: no
 - Terminal Balanced: yes
 - Receive Answer Supervision: no
 - Answer Supervision Timeout: 10 (This sets both the CP firmware timer and software timer. Set to 0 for any trunk receiving answer supervision.)
 - Disconnect Supervision In: no
 - Disconnect Supervision Out: Selection is customer's choice.

— Trunk Group Administration Screen (Timing)

Set the following timers from the Administrable Timers screen during administration of each trunk group. Select the following CO trunk timer values for this country:

- Incoming Disconnect: 500 ms
- Outgoing Disconnect: 500 ms
- Outgoing Dial Guard: 1600 ms
- Incoming Glare Guard: 1500 ms
- Outgoing Glare Guard: 1500 ms
- Outgoing Dial Pulse Rate (PPS): 10 pps
- Outgoing Rotary Digit Dial Make: 35 ms
- Outgoing Rotary Digit Dial Break: 65 ms
- Outgoing Rotary Dial Interdigit: 800 ms
- Ring Monitor Timer: 5200 ms
- Incoming Seizure: 500 ms
- Outgoing End-of-Dial: 10 sec
- Outgoing Seizure Response: 240 sec
- Programmed Dial Pause: 1500 ms
- Disconnect Signal Error: 240 sec
- Flash Length: 100 ms
- PPM: Yes
- Frequency: 16kHz
- DID Trunks
 - Trunk Group Screen
 - Group Type: DID
 - Country: 17
 - Trunk Gain: high
 - Digit Absorption List: blank
 - Incoming Dial Type: tone
 - Trunk Type: immed-start
 - Trunk Termination: rc (complex impedance)

- Disconnect Supervision: no
- Disconnect Timing: 500 ms (This field will not be used with CPs that can accept the Incoming Disconnect and Outgoing Disconnect timers. Set these latter two timers from the Administrable Timers Screen.)
- Digit Treatment: blank
- Digits: blank
- Expected Digits: depends on system size and numbering plan
- Terminal Balanced: yes
- Extended Loop Range: (Used Only with TN459) no
- Drop Treatment: silence
- Incoming Rotary Timeout (sec): 5 sec (This field will not be used with CPs that can accept the Incoming Partial Dial timer. Set this timer from the Administrable Timers Screen.)
- Trunk Group Administration Screen (Timing)

Set the following timers from the Administrable Timers screen during administration of each trunk group. Select the following DID trunk timer values for this country:

- Incoming Disconnect: 500 ms
- Incoming Dial Guard: 50 ms
- Incoming Partial Dial: 18 sec
- Incoming Incomplete Dial: 255 sec
- Flash Length: 100 ms
- Tie Trunks

No special Type Approval regulations apply. Tie trunks are administered on a case-by-case basis.

Digital Trunk Administration

This section does not list all possible valid administrable combinations. Rather the most common or standard combination, compatible with public-network and Type Approval standards for each country, is presented:

- CO Trunks
 - Circuit Pack: TN464Dv.3
 - Bit Rate: 2.048
 - Interface Companding: mu-law
 - Line Coding: HDB3

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- Signaling Mode: CAS
- Country Protocol: 17
- Interconnect: CO
- CRC?: no
- Idle Code: 11111111
- DID Trunks
 - Circuit Pack: TN464Dv.3
 - Bit Rate: 2.048
 - Interface Companding: mu-law
 - Line Coding: HDB3
 - Signaling Mode: CAS
 - Country Protocol: 17
 - Interconnect: CO
 - CRC?: no
 - Idle Code: 11111111
- Tie Trunks
 - Non-ISDN Signaling Example (DS1 Administration screen)
 - Circuit Pack: TN464D
 - Bit Rate: 2.048
 - Interface Companding: mu-law
 - Line Coding: HDB3
 - Signaling Mode: CAS
 - Country Protocol: 17
 - Interconnect: pbx
 - CRC?: no
 - Idle Code: 11111111
 - ISDN-PRI (Private Network) Signaling

This example assumes use of US Option 1 with facility associated signaling. Other feature options will require changes in one or more administered items.

- DS1 Administration screen
 - Circuit Pack: TN464D
 - Bit Rate: 2.048
 - Interface Companding: A-law

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Line Coding: HDB3	
 Signaling Mode: isdn-pri 	
 Country Protocol: 1 	

- Connect: pbx
- Interface: user
- CRC: No
- Idle Code: 11111111
- Signaling Group screen
 - Associated Signaling: Yes
 - Primary D_Channel: xxxx16 (xxxx=>depends on CP physical location)
- Trunk Group Administration screen
 - Group Type: isdn-pri
 - Service Type: tie
- ISDN-PRI (Public Network)

Not available in this country.

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Hong Kong

Table 32 shows the recommended circuit packs.

Table 32. Recommended and Available CPs in Hong Kong

Equipment	Equipment Type
Cabinet Type & Power	GAC-MCC DC-MCC AC-SCC DC-SCC AC-CSCC AC-CMC
AC Power Voltage & Freq	200V/50Hz
Ring Generator	20Hz
Tone Detector	>TN2182B >TN744D TN748D TN756
Tone Clock	>TN2182B TN780 TN756
R2MFC Circuit	n/a
Speech Synthesizer	>TN725B
Call Classifier	>TN744D
Announcement	TN750C TN750B TN750
Analog DID Trunk	>TN753
Analog CO Trunk (No PPM)	>TN747B TN465
Analog CO Trunk (w/PPM)	n/a
4 Wire Tie Trunk	>TN760D
2 Wire Tie Trunk	
Auxiliary Trunk	>TN763D TN763C
Digital CO/DID Trunk	n/a
Digital Tie Trunk	>TN464F TN464E TN464D TN464C
Digital PRI CO Trunk	n/a
Digital BRI Trunk	
Digital Converter PRI-DASS	
Digital Converter PRI-DPNSS	
Digital Converter PRI-BRI	
8 Port Analog Line	TN742
16 Port Analog Line	>TN746B
24 Port Analog Line	TN2793

Equipment	Equipment Type
4 Wire Digital Line	>TN754B
2 Wire Digital Line	#TN2224 >TN2181
Data Line	>TN726B
BRI-U Line	
BRI-ST Line	

Table 32. Recommended and Available CPs in Hong Kong — Continued



A-law companding is the national standard in Hong Kong. However, Mu-law is used internally to the system for service circuits and analog lines. Network interfaces are configured as A-law if required.

Feature Administration

The screen displays shown in this section were effective the date the type approval was awarded. The screens may have changed since that date.

Only those feature-related parameters that may have a Type Approval or basic connectivity implication for a particular country are listed here.

ARS/AAR Administration

To enable ARS administration, on the System-Parameters Customer-Options screen, set the ARS field to **y**. You also should check all ARS/AAR defaults. All default ARS analysis codes are deleted before dialed strings are added for routing when DEFINITY is installed outside of North America. Be aware that the default for the 10 digits cause dialing problems. In particular, the following call types (appear as ARS/AAR defaults) typically are not used in non-North American ARS/AAR tables:

fnpa:	North American numbers with an area code.
hnpa:	North American numbers without an area code.
SVC:	North American numbers of the screen "x11".

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Lucent recommends only the following call types be used outside North America:

int:	For all international numbers.
natl:	For all national PN numbers.
pubu:	For all other external (that is, not extensions) numbers.

System Parameter Administration

Only those feature-related parameters that may have a Type Approval or basic connectivity implication for a particular country are listed here.

- Feature-Related System Parameters Administration
 - Trunk-to-Trunk Transfer: Permitted by country's regulations -Selection is customer's choice.
 - Public Network Trunks on Conference Call: 5
 - Conference Parties With PNTs: 6
 - Conference Parties Without PNTs: 6
 - Line Intercept Tone Timer: 30
 - Night Service Disconnect Timer: 180 sec
 - Short Interdigit Timer: 3 sec
 - Unanswered DID Call Timer: 60
 - Auto-Hold: yes 8
 - Attendant Tone: Yes
 - Bridging Tone: No
 - Conference Tone: No
 - Intrusion Tone: Yes
 - Repetitive Call Waiting Tone: No
 - DID Busy Treatment: Attendant
 - Pull Transfer: No
 - Level of Tone Detection: Precise
 - Outpulse Without Tone: Yes
 - (Station-to-Switch) Recall Timing:
 - Flashhook Interval: Yes

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Application Notes for Type Approval Hong Kong

- Lower Bound: 200
- System Parameter Country Options Administration
 - Companding Mode: mu-law
 - Base Tone Generation Set: 1
 - Tone Detection Mode: 1
 - Interdigit Pause: default
 - Digital Loss Plan: 1
 - Analog Ringing Cadence: 1

Analog Trunk Administration

- CO Trunks
 - Trunk Group Screen
 - Group Type: CO
 - Country: 1
 - Trunk Gain: high
 - Direction: two-way
 - Digit Absorption List: blank
 - Prefix-1: No
 - Trunk Type: loop-start
 - Outgoing Dial Type: tone
 - Trunk Termination: rc (complex impedance)
 - Dial Access: yes
 - Auto Guard: no
 - Call Still Held: no
 - Terminal Balanced: yes
 - Receive Answer Supervision: no
 - Answer Supervision Timeout: 10 (This sets both the CP firmware timer and software timer. Set to 0 for any trunk that will receive answer supervision.)
 - Disconnect Supervision In: no
 - Disconnect Supervision Out: Selection is customer's choice.

Issue 1 June 1999 — Trunk Group Administration Screen (Timing)

Set the following timers from the Administrable Timers screen during administration of each trunk group. Select the following CO trunk timer values for this country:

- Incoming Disconnect: 500 ms
- Outgoing Disconnect: 500 ms
- Outgoing Dial Guard: 1600 ms
- Incoming Glare Guard: 1500 ms
- Outgoing Glare Guard: 1500 ms
- Outgoing Dial Pulse Rate (PPS): 10 pps
- Outgoing Rotary Digit Dial Make: 35 ms
- Outgoing Rotary Digit Dial Break: 65 ms
- Outgoing Rotary Dial Interdigit: 800 ms
- Ring Monitor Timer: 5200 ms
- Incoming Seizure: 500 ms
- Outgoing End-of-Dial: 10 sec
- Outgoing Seizure Response: 240 sec
- Programmed Dial Pause: 1500 ms
- Disconnect Signal Error: 240 sec
- End-To-End Signaling Pause: 150 ms (accept default)
- End-To-End Signaling Tone: 350 ms (accept default)
- Flash Length: 100 ms
- PPM: no
- DID Trunks
 - Trunk Group Screen
 - Group Type: DID
 - Country Code: 1
 - Trunk Gain: high
 - Digit Absorption List: blank
 - Incoming Dial Type: tone
 - Trunk Type: immed-start

Application Notes for Type Approval Hong Kong

- Trunk Termination: rc (complex impedance)
- Disconnect Supervision: no
- Disconnect Timing: 500 msec (This field will not be used with CPs that can accept the Incoming Disconnect and Outgoing Disconnect timers. Set these latter two timers from the Administrable Timers Screen.)
- Digit Treatment: blank
- Digits: blank
- Expected Digits: depends on system size and numbering plan
- Terminal Balanced: yes
- Extended Loop Range: (Used Only with TN459) no
- Drop Treatment: silence
- Incoming Rotary Timeout: 5 sec (This field will not be used with CPs that can accept the Incoming Partial Dial timer.
- Trunk Group Administration Screen (Timing)

Set the following timers from the Administrable Timers screen during administration of each trunk group. Select the following DID trunk timer values for this country:

- Incoming Disconnect: 500 ms
- Incoming Dial Guard: 50 ms
- Incoming Partial Dial: 18 sec
- Incoming Incomplete Dial: 255 sec
- Flash Length: 100 ms
- Tie Trunks

No special Type Approval regulations apply. Tie trunks are administered on a case-by-case basis.

Digital Trunk Administration

This section does not list all possible valid administrable combinations. Rather the most common or standard combination, compatible with public-network and Type Approval standards for each country, is presented:

CO Trunks

Digital CO trunks are not available in this country.

DID Trunks

Digital DID trunks are not available in this country.

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- Tie Trunks
 - Non-ISDN Signaling Example (DS1 Administration screen)
 - Circuit Pack: TN464D
 - Bit Rate: 2.048
 - Interface Companding: A-law
 - Line Coding: HDB3
 - Signaling Mode: CAS
 - Country Protocol: 1
 - Interconnect: pbx
 - CRC?: No
 - Idle Code: 11111111
 - ISDN-PRI (Private Network) Signaling

This example assumes use of US Option 1 with facility associated signaling. Other feature options will require changes in one or more administered screens.

- DS1 Administration screen
 - Circuit Pack: TN464D
 - Bit Rate: 2.048
 - Interface Companding: A-law
 - Line Coding: HDB3
 - Signaling Mode: isdn-pri
 - Country Protocol: 1
 - Connect: pbx
 - Interface: user
 - CRC: No
 - Idle Code: 11111111
- Signaling Group screen
 - Associated Signaling: Yes
 - Primary D_Channel: xxxx16 (xxxx=>depends on CP physical location)

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— Trunk Group Administration screen	
 Group Type: isdn-pri 	
 Service Type: tie 	

— ISDN-PRI (Public Network)

Not available for this country.

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Hungary

Table 33 shows the recommended circuit packs.

Equipment	Equipment Type
Cabinet Type & Power	GAC-MCC DC-MCC AC-SCC AC-CSCC AC-CMC
AC Power Voltage & Freq	220V/50Hz
Ring Generator	20Hz
Tone Detector	>TN2182B >TN744D TN748D TN748C
Tone Clock	>TN2182B TN780 TN756
R2MFC Circuit	>TN744D TN744B
Speech Synthesizer	>TN725B
Call Classifier	>TN744D
Announcement	TN750C TN750B
Analog DID Trunk	>TN753
Analog CO Trunk (No PPM)	>TN747B
Analog CO Trunk (w/PPM)	#TN465C >TN465B
4 Wire Tie Trunk	>TN760D >TN2140B
2 Wire Tie Trunk	
Auxiliary Trunk	>TN763D
Digital CO/DID Trunk	>TN464F TN464E TN464D
Digital Tie Trunk	>TN464F TN464E TN464D
Digital PRI CO Trunk	n/a
Digital BRI Trunk	>TN2185
Digital Converter PRI-DASS	
Digital Converter PRI-DPNSS	
Digital Converter PRI-BRI	
8 Port Analog Line	TN742
16 Port Analog Line	>TN746B

Table 33. Recommended and Available CPs in Hungary

Table 33.	Recommended and Ava	ilable CPs in Hungary —	Continued
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Equipment	Equipment Type
24 Port Analog Line	n/a
4 Wire Digital Line	>TN754B
2 Wire Digital Line	#TN2224 >TN2181 TN2136
Data Line	>TN726B
BRI-U Line	
BRI-ST Line	



A-law companding is the national standard in Hungary. However, Mu-law is used internally to the system for service circuits and analog lines. Network interfaces are configured as A-law if required.

Country-Specific Feature

You can use DEFINITY ECS in the Hungarian Private Network. With the administration specified in this section, the following are available:

- Overlap sending
- Group II permissions checking
- Public and Private Network interworking
- Limit on resed requests
- 1.15 transit signaling

Refer to "Hungarian Private Network Administration" on page 244 for more information.

Feature Administration

The screen displays shown in this section were effective the date the type approval was awarded. The screens may have changed since that date.

Only those feature-related parameters that may have a Type Approval or basic connectivity implication for a particular country are listed here.

ARS/AAR Administration

Application Notes for Type Approval *Hungary*

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To enable ARS administration, on the System-Parameters Customer-Options screen, set the ARS field to **y**. You also should check all ARS/AAR defaults. All default ARS analysis codes are deleted before dialed strings are added for routing when DEFINITY is installed outside of North America. Be aware that the default for the 10 digits cause dialing problems. In particular, the following call types (appear as ARS/AAR defaults) typically are not used in non-North American ARS/AAR tables:

fnpa:	North American numbers with an area code.
hnpa:	North American numbers without an area code.
SVC:	North American numbers of the screen "x11".

Lucent recommends only the following call types be used outside North America:

int:	For all international numbers.
natl:	For all national PN numbers.
pubu:	For all other external (that is, not extensions) numbers.

System Parameter Administration

Only those feature-related parameters that may have a Type Approval or basic connectivity implication for a particular country are listed here.

- Feature-Related System Parameters Administration
 - Trunk-to-Trunk Transfer: Permitted by country's regulations -Selection is customer's choice.
 - Public Network Trunks on Conference Call: 5
 - Conference Parties With PNTs: 6
 - Conference Parties Without PNTs: 6
 - Line Intercept Tone Timer: 30
 - Night Service Disconnect Timer: 180 sec
 - Short Interdigit Timer: 3 sec
 - Unanswered DID Call Timer: 60
 - Auto-Hold: Yes 9
 - Attendant Tone: Yes
 - Bridging Tone: No

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- Conference Tone: No
- Intrusion Tone: Yes
- Repetitive Call Waiting Tone: No
- DID Busy Treatment: Attendant
- Pull Transfer: No
- Level of Tone Detection: Medium
- Outpulse Without Tone: Yes
- (Station-to-switch) Recall Timing:
 - Flashhook Interval: No
 - Disconnect Timing: 350 ms
- System Parameter Country Options Administration
 - Companding Mode: A-law

\blacksquare NOTE:

Companding Mode: A-law is the national standard. Mu-law is used internal to the system for service circuits and analog lines. Network interfaces are configured as A-law if required.

- Base Tone Generation Set:
- Tone Detection Mode: 2
- Interdigit Pause: short
- Digital Loss Plan:
- Analog Ringing Cadence:

Analog Trunk Administration

CO Trunks

— Trunk Group Screen

- Group Type: CO
- Country:
- Trunk Gain: high
- Direction: two-way
- Digit Absorption List: blank
- Prefix-1: No
- Trunk Type: loop-start
- Outgoing Dial Type: tone
- Trunk Termination: 600 ohm

- Auto Guard: no
- Dial Access: Yes
- Call Still Held: no
- Terminal Balanced: yes
- Receive Answer Supervision: no
- Answer Supervision Timeout: 10 (This sets both the CP firmware timer and software timer. Set to 0 for any trunk that will receive answer supervision.)
- Disconnect Supervision In: no
- Disconnect Supervision Out: Selection is customer's choice.
- Disconnect Timing: 100 ms (This field will not be used with CPs that can accept the Incoming Disconnect and Outgoing Disconnect timers. Set these latter two timers from the Administrable Timers Screen.)
- Trunk Group Administration Screen (Timing)

Set the following timers from the Administrable Timers screen during administration of each trunk group. Select the following CO trunk timer values for this country:

- Incoming Glare Guard: 1500 ms
- Outgoing Glare Guard: 1500 ms
- Outgoing Rotary Digit Dial Make: 40 ms
- Outgoing Rotary Digit Dial Break: 60 ms
- Outgoing Rotary Dial Interdigit: 800 ms
- DID Trunks
 - Trunk Group Screen
 - Group Type: DID
 - Country:
 - Trunk Gain: high
 - Digit Absorption List: blank
 - Incoming Dial Type: tone
 - Trunk Type: immed-start
 - Trunk Termination: rc (complex impedance)
 - Disconnect Supervision: no

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- Digit Treatment: blank
- Digits: blank
- Expected Digits: depends on system size and numbering Plan
- Terminal Balanced: yes
- Extended Loop Range: (Used Only with TN459) no
- Drop Treatment: silence
- Incoming Rotary Timeout (sec): 5 sec (This field will not be used with CPs that can accept the Incoming Partial Dial timer. Set this timer from the Administrable Timers Screen.)
- Trunk Group Administration Screen (Timing)

Set the following timers from the Administrable Timers screen during administration of each trunk group. Select the following DID trunk timer values for this country:

- Incoming Disconnect: 100 ms
- Incoming Dial Guard: 10 ms
- Incoming Partial Dial: 18 sec
- Incoming Incomplete Dial: 255 sec
- Tie Trunks (Discontinuous MOL)
 - Group Type: tie, tandem, access, aplt, or rlt
 - Trunk Signaling Type: dis
 - Direction: Two-way
 - Dial Access: Yes
 - Trunk Type: Immed/Immed
 - Disconnect supervision In:Y Out: Y
 - Send Release Ack: Yes
 - Receive Release Ack: Yes
 - Send Answer Supervision: Yes
 - Receive Answer Supervision: Yes

Set the following are the administrable timer values:

- Outgoing Dial Guard: 1600 ms
- Incoming Glare Guard: 5000 ms

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•	Outgoing Glare Guard: 5000 ms	
-	Outgoing End-of-Dial: 10 sec	
•	Outgoing Seizure Response: 5 sec:	
•	Disconnect Signal Error: 90 sec	
•	Incoming Partial Dial: 15 sec (FW default, canno administered)	ot be
•	Release Ack Send: 600 ms	
	Anower Cond. 450 me /if CM/ still limits to 400me	

- Answer Send: 150 ms (if SW still limits to 120ms, FW will change to 150ms if Hungarian MOL)
- Outgoing Disconnect Send: 600 ms
- Incoming disconnect Send: 600 ms
- Normal Outgoing Seize Send: 150 ms

Digital Trunk Administration

This section does not list all possible valid administrable combinations. Rather the most common or standard combination, compatible with public-network and Type Approval standards for each country, is presented:

- CO Trunks
 - DS1 Administration Screen ¹⁰
 - Circuit Pack: TN464D (not entered as an administrable item)
 - Bit Rate: 2.048
 - Interface Companding: A-law
 - Line Coding: HDB3
 - Signaling Mode: CAS
 - Country Protocol: 8
 - Interconnect: CO
 - CRC?: No
 - Idle Code: 01010100
 - Trunk Group Administration Screen (Timing)

Digital trunk timing values should be set as for analog CO trunks.

- DID Trunks
 - DS1 Administration Screen
 - Circuit Pack: TN464D (not entered as an administrable item)

DS1 is also analogous to the term E1 that has been coined for the European T1 or 2 mbit interface.

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- Bit Rate: 2.048
- Interface Companding: A-law
- Line Coding: HDB3
- Signaling Mode: CAS
- Country Protocol: 8
- Interconnect: CO
- CRC?: No
- Idle Code: 01010100
- Trunk Group Administration Screen (Timing)

Digital trunk timing values should be set as for analog DID trunks.

- Tie Trunks
 - Non-ISDN Signaling Example (DS1 Administration Screen)
 - Circuit Pack: TN464D (Not entered as administrable item; TN464C from upgrades)
 - Bit Rate: 2.048
 - Interface Companding: A-law
 - Line Coding: HDB3
 - Signaling Mode: CAS
 - Country Protocol:
 - Interconnect: pbx
 - CRC?: no
 - Idle Code: 01010100
 - ISDN-PRI (Private Network) Signaling

This example assumes use of US Option 1 with facility associated signaling. Other feature options will require changes in one or more administered items.

- DS1 Administration screen
 - Circuit Pack: TN464D (or TN464C from upgrades)
 - Bit Rate: 2.048
 - Interface Companding: A-law
 - Line Coding: HDB3
 - Signaling Mode: isdn-pri
 - Country Protocol: 8
 - Connect: pbx

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- Interface: user
- CRC: No
- Idle Code: 01010100
- Signaling Group screen
 - Associated Signaling: Yes
 - Primary D_Channel: xxxx16 (xxxx=>depends on CP physical location)
- Trunk Group Administration screen
 - Group Type: isdn-pri
 - Service Type: public_ntwrk
- ISDN-PRI (Public Network) Not available for this country.

MFC Signaling

Additional MFC signals can be used in Hungary.

• The MFC signal "end-of-digits" and the symbol "*" in the route pattern.

When the symbol "*" is translated in the route pattern and the signal "end-of-dial" is translated on the multi-frequency screen, the MFC tone for the "end-of-digits" is sent out to the CO in the place of the symbol "*".

The MFC signal "ANI-avail".

When the MFC signal "ANI-avail" is translated on the mutli-frequency screen, the MFC tone for the "ANI-avail" signal is sent after the group II category signal in the ANI digit response on an outgoing call. On an incoming call, the MFC signal "ANI-avail" is translated, then the ANI digits are requested on the response of the MFC tone for the "ANI-avail" signal.

Incoming Only

change system-parameters multifrequency-signaling Page 1 of 2
MULTIFREQUENCY-SIGNALING-RELATED SYSTEM PARAMETERS
Incoming Call Type: group-ii-mfc
Outgoing Call Type: none
Maintenance Call Type: none
Test Call Extension:
Interdigit Timer (sec): 10
Multifrequency Signaling Incoming Intercept Treatment? y
Received Signal Gain(-Loss) (dB): 0
Transmitted Signal Gain(-Loss) (dB): -3

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<pre>change system-parameters multifrequency-signaling Page 2 of : MULTIFREQUENCY-SIGNALING-RELATED SYSTEM PARAMETERS INCOMING FORWARD SIGNAL TYPES INCOMING BACKWARD SIGNAL TYPES (Tones from CO) (Tones to CO)</pre>	2 oup-B
INCOMING FORWARD SIGNAL TYPES INCOMING BACKWARD SIGNAL TYPES (Tones from CO) (Tones to CO)	מנור−B
(Tones from CO) (Tones to CO)	- מנור
	-αιις
	- מנור
Group-I Group-II Group-A Gro	
11: ignored 1: normal 1: next-digit 1: busy	У
12: ignored 2: normal 3: end-of-dial 2: cong	gestion
13: ignored 3: maint-call : 4 : free	e
14: ignored 4: normal : 7 : inte	ercept
15: ignored 5: normal : :	
6: data-call : :	
7: normal : :	
8: normal : :	
9: normal : :	
10: normal : :	
11: normal : :	
12: normal : :	
13: normal : :	
14: normal : :	
15: normal : :	
\mathbf{X}	/

Two Way

```
change system-parameters multifrequency-signaling
                                                        Page 1 of 3
      MULTIFREQUENCY-SIGNALING-RELATED SYSTEM PARAMETERS
                      Incoming Call Type: group-ii-mfc
                     Outgoing Call Type: group-ii-mfc
                   Maintenance Call Type: none
                    Test Call Extension:
                   Interdigit Timer (sec): 10
        Outgoing Forward Signal Present Timer (sec): 15
         Outgoing Forward Signal Absent Timer (sec): 30
   Multifrequency Signaling Incoming Intercept Treatment? y
              Received Signal Gain(-Loss) (dB): 0
            Transmitted Signal Gain(-Loss) (dB): -3
                         ANI Prefix:
                        ANI for PBX:
                       Next ANI Digit: send-ani
             Collect All Digits Before Seizure? n
```

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~	GNALING-REL	ATED SYSTEM PARAMETER	RS
INCOMING FORWARD SIGNAL	TYPES	INCOMING BACKWARD SI	GNAL TYPES
(Tones from CO)	(Tones	to CO)	
Group-I	Group-II	Group-A	Group-B
11: ignored 1			
12: ignored 2			
13: ignored 3			-
14: ignored 4	: normal7 :	intercept	
15: ignored 5	: normal	:	:
6	: data-call	:	:
7	: normal	:	:
8	: normal	:	:
9	: normal	:	:
10	: normal	:	:
11	: normal	:	:
12	: normal	:	:
13	: normal	:	:
14	: normal	:	:
15	: normal	:	:
			/

change system-paramet MULTIFREQUENC OUTGOING FORWARD SIG (Tones from CO)	Y-SIGNALING-RELAT GNAL TYPES O	ED SYSTEM PARAMETER UTGOING BACKWARD SI	S
GROUP-I	GROUP-II	GROUP-A	GROUP-B
15: end-of-digits	1: normal 1: attendant 6: data-call	5	2: congestion 3: busy 4: congestion 5: intercept 6: free 7: free 8: congestion 9: congestion 10: congestion 11: congestion 12: congestion 13: congestion 14: congestion

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Hungarian Private Network Administration

For this feature to work in Hungary, fill out the following:

- Dial Plan Record screen
 - First Digit 0 : misc
 - Second Digit 03: FAC
- Feature Access Code screen
 - AAR access code: 03
- Multifrequency-Signaling-Related System Parameters screen (first page)
 - Request Incoming ANI (non-AAR/ARS): n
 - Private Group II Permissions and Public Interworking: y
 - Overlap Sending on Link-to-Link Tandem Calls: y
 - Collect all digits before seizure: n
- Multifrequency-Signaling-Related System Parameters screen (subsequent page)
 - Tones from CO on Incoming Forward Calls-Group I: I15 = end-of-ani
 - Convert initial end-of-ani signal to digits: 0
 - Tones to CO on Outgoing Forward Calls -Group I: I15 = end-of-digit
 - Tones from CO on Incoming Forward Call-Group II n: normal (for each n that is administered as Class of Restriction Category for MFC ANI:n)
 - Tones to CO on Incoming Backward Calls-Group A: A5: send-ani

Tie trunk group screen

- Trunk Type: imed/imed
- Incoming Dial Type: mf
- Outgoing Dial Type: mf
- Incoming digit treatment: inserted digits
- Inserted digits fields: 03
- DID trunk group screen
 - Incoming Dial Type: mf
 - Trunk Type: imed-start

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- Incoming digit treatment: inserted digits
- Inserted digits fields: 03
- AAR Digit Conversion Table (for long-distance private-network call)
 - Match. Pat.: 0
 - min: 3
 - max: 7
 - del: 0
 - Repl String:
 - Net: AAR
 - Conv: n
 - ANI req: n
- AAR Digit Conversion Table (for tandem local-area private-network call)
 - Match. Pat.: 12
 - min: 4
 - max: 4
 - del: 0
 - Repl String:
 - Net: AAR
 - Conv: n
 - ANI req: n
- AAR Digit Conversion Table (for terminating private-network call)
 - Match. Pat.: 22
 - min: 4
 - max: 4
 - del: 0
 - Repl String:
 - Net: ext
 - Conv: n
 - ANI req: n
- AAR Digit Conversion Table (for terminating DID call from public network)
 - Match. Pat.: 12
 - min: 4

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- max: 4
- del: 0
- Repl String:
- Net: ext
- Conv: n
- ANI req: n

 AAR Digit Conversion Table (for terminating DID call to special emergency service providing extension)

- Match. Pat.: 07
- min: 2
- max: 2
- del: 2
- Repl String: 1000 (for example)
- Net: ext
- Conv: n
- ANI req: y
- Class of Restriction screens (COR #1 COR #8)
 - Category for MFC ANI: 1 8 (respectively)
- AAR Route Pattern screen
 - No. Del. digits: 1 or 3
 - Inserted digits: * (If No. Del. digits = 1. Leave blank if No. Del. digits = 3)

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India

Table 34 shows the recommended circuit packs.

Table 34. Recommended and Available CPs in India

Equipment	Equipment Type
Cabinet Type & Power	GAC-MCC DC-MCC AC-SCC AC-CSCC AC-CMC
AC Power Voltage & Freq	220V/50Hz
Ring Generator	25Hz
Tone Detector	#TN2182B #TN744D
Tone Clock	#TN2182B
R2MFC Circuit	n/a
Speech Synthesizer	#TN433
Call Classifier	>TN744D
Announcement	#TN750C
Analog DID Trunk	#TN753
Analog CO Trunk (No PPM)	#TN747B
Analog CO Trunk (w/PPM)	#TN465C
4 Wire Tie Trunk	#TN760D
2 Wire Tie Trunk	
Auxiliary Trunk	#TN763D
Digital CO/DID Trunk	>TN464Fv5
Digital Tie Trunk	>TN464Fv5
Digital PRI CO Trunk	
Digital BRI Trunk	
Digital Converter PRI-DASS	
Digital Converter PRI-DPNSS	
Digital Converter PRI-BRI	
8 Port Analog Line	n/a
16 Port Analog Line	#TN2183
24 Port Analog Line	TN2793

Equipment	Equipment Type
4 Wire Digital Line	#TN754C
2 Wire Digital Line	#TN2224
Data Line	#TN726B
BRI-U Line	#TN2198
BRI-ST Line	

Table 34. Recommended and Available CPs in India — Continued



A-law companding is the national standard in India. However, Mu-law is used internally to the system for service circuits and analog lines. Network interfaces are configured as A-law if required.

Feature Administration

The screen displays shown in this section were effective the date the type approval was awarded. The screens may have changed since that date.

Only those feature-related parameters that may have a Type Approval or basic connectivity implication for a particular country are listed here.

ARS/AAR Administration

In the AAR Digit Conversion table, delete all default entries. In the IXC table, delete all default values on page 2.

To enable ARS administration, on the System-Parameters Customer-Options screen, set the ARS field to **y**. You also should check all ARS/AAR defaults. All default ARS analysis codes are deleted before dialed strings are added for routing when DEFINITY is installed outside of North America. Be aware that the default for the 10 digits cause dialing problems. In particular, the following call types (appear as ARS/AAR defaults) typically are not used in non-North American ARS/AAR tables:

fnpa:	North American numbers with an area code.
hnpa:	North American numbers without an area code.
SVC:	North American numbers of the screen "x11".

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Lucent recommends only the following call types be used outside North America:

int:	For all international numbers.
natl:	For all national PN numbers.
pubu:	For all other external (that is, not extensions) numbers.

System Parameter Administration

Only those feature-related parameters that may have a Type Approval or basic connectivity implication for a particular country are listed here.

Feature-Related System Parameters

	Page	1 of	6
FEATURE-RELATED SYSTEM PARAMETERS			
Trunk-to-Trunk Transfer: all			
Coverage Subsequent Redirection/CFWD No Answer Interval: 2			
Coverage - Caller Response Interval (seconds): 4			
Keep Held SBA at Coverage Point? y			
Automatic Callback - No Answer Timeout Interval (rings): 3			
Call Park Timeout Interval (minutes): 10			
Off-Premises Tone Detect Timeout Interval (seconds): 20			
AAR/ARS Dial Tone Required? y			
Music/Tone on Hold: tone			
Music (or Silence) on Transferred Trunk Calls? no			
DID/Tie/ISDN Intercept Treatment: attd			
Messaging Service Adjunct (MSA) Connected? n			
Internal Automatic Answer for Attendant Extended Calls? n			
Automatic Circuit Assurance (ACA) Enabled? n			

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```
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                                                                Page
                            FEATURE-RELATED SYSTEM PARAMETERS
LEAVE WORD CALLING PARAMETERS
 Maximum Number of Messages Per Station (when MSA not in service):10
  Stations with System-wide Retrieval Permission (enter extension)
             2:
                         3:
                                      4:
                                                 5:
  1:
              7:
                         8:
                                      9:
                                                 10:
  6:
  WARNING!
             SEE USER DOCUMENTATION BEFORE CHANGING TTI STATE
                Terminal Translation Initialization (TTI) Enabled? n
                   Prohibit Bridging Onto Calls With Data Privacy? n
                        Enhanced Abbreviated Dial Length (3 or 4): 3
                                           Call Forward Override? n
       External Coverage Treatment for Transferred Incoming Calls? n
SECURITY VIOLATION NOTIFICATION (SVN) PARAMETERS HAVE MOVED TO
THE SYSTEM-PARAMETERS SECURITY SCREEN
```

```
FEATURE-RELATED SYSTEM PARAMETERS

Reserved Slots for Attendant Priority Queue: 5

Time before Off-hook Alert: 10

Emergency Access Redirection Extension:

Service Observing Warning Tone? y

Number of Emergency Calls Allowed in Attendant Queue: 5

Call Pickup Alerting? n

Deluxe Paging and Call Park Timeout to Originator? n

Controlled Outward Restriction Intercept Treatment: tone

Controlled Termination Restriction (Do Not Disturb): tone

Controlled Station to Station Restriction: tone

AUTHORIZATION CODE PARAMETERS Authorization Codes Enabled? n
```

 $\label{eq:def-DEFINITY} \begin{array}{l} \textbf{DEFINITY} \circledast \ \textbf{Enterprise Communications Server Application Notes} \\ \textbf{for Type Approval} \end{array}$

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FEATURE-RELATED SYSTEM PARAMETERS
SYSTEM PRINTER PARAMETERS System Printer Extension: Lines Per Page: 30 EIA Device Bit Rate: 9600
SYSTEM-WIDE PARAMETERS Switch Name: H.V.NET THANE
CALL CENTER SYSTEM PARAMETERS
CALL MANAGEMENT SYSTEM PARAMETERS BCMS/VuStats Measurement Interval: hour BCMS/VuStats Abandon Call Timer (seconds): Validate Login IDs? n ACD Login Identification Length: 0 Adjunct CMS Release:
MALICIOUS CALL TRACE PARAMETERS Apply MCT Warning Tone? n MCT Voice Recorder Trunk Group:

	Page	e 5 o	E 6	
FEATURE-RELATED SYSTEM PARAMETERS				
	Trunks: Trunks: conds): conds): conds): Start?	6 6 180 5 30 n		
Attendan Bridgin Bridgin Conferenc Intrusio	g Tone? g Tone? e Tone? n Tone?	y y n n n		
DID Busy Tre Allow AAR/ARS Access from DI DISTINCTIVE AUDIBLE ALERTING Internal: 1 External: 2 Priority: Attendant Originated Calls:	D/DIOD? 3	n		

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```
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                         FEATURE-RELATED SYSTEM PARAMETERS
                  Pull Transfer: n
                                                Update Transferred Ring Pattern? n
         Outpulse Without Tone? y
                                                  Wait Answer Supervision Timer? n
         Misoperation Alerting? n
    Misoperation Alerting? n
Allow Conference via Flash? y
tor Disconnect Timer (min):
Network Feedback During Tone Detection? y
                                                   Repetitive Call Waiting Tone? y
 Vector Disconnect Timer (min):
                                       System Updates Time On Station Displays? n
      Intercept Treatment On Failed Trunk Transfers? n
                     Station Tone Forward Disconnect: silence
                              Level Of Tone Detection: precise
RECALL TIMING
        Flashhook Interval? y
                                                       Upper Bound (msec): 760
                                                       Lower Bound (msec): 200
                                         Forward Disconnect Timer (msec): 600
ENHANCED DCS
      Enhanced DCS Enabled? n
```

System Parameters Country-Options

	Page	1	of	21	
SYSTEM PARAMETERS COUNTRY-OPTIONS					
SISTEM FRAMETERS COUNTRI-OFTIONS					
Companding Mode: Mu-Law Base Tone Genera	tor Set	t:	1		
440Hz PBX-dial Tone? n 440Hz Secondary-di	al Tone	e? :	n		
Digital Loss Plan: 1					
Analog Ringing Cadence: 1 Set Layer 1 timer T1 to 30	seconds	s? :	n		
Analog Line Transmission: 1 Enhanced 84xx Display Charac	ter Set	t?:	n		
TONE DETECTION PARAMETERS					
Tone Detection Mode: 6					
Interdigit Pause: short					
-					,

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				Page	2 of	21
	SYSTEM PAR	AMETERS COUNTRY-OPTI	ONS			
Tone Name	-	Tone (Frequency/Level)				
hold	1:		Duration			
		silence	Duration			
		330/-8.0	Duration			
		silence	Duration			
		goto		Step:	2	
	6:					
	7:					
	8:					
	9:					
	10:					
	11:					
	12:					
	13:					
	14:					
	15:					
<						



A-law companding is the national standard in India. However, Mu-law is used internally to the system for service circuits and analog lines. Network interfaces are configured as A-law if required.

Multifrequency-Signaling-Related System **Parameters**

NOTE:

The screen displays below for Multifrequency-Signaling-Related System Parameters are effective from Release 6.1. For documentation up to Release 5, use the older administration screens.

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1 of 4 Page MULTIFREQUENCY-SIGNALING-RELATED SYSTEM PARAMETERS Incoming Call Type: group-ii-mfc ANI Prefix: 538 Outgoing Call Type: group-ii-mfc ANI for PBX: Maintenance Call Type: none NEXT ANI DIGIT Test Call Extension: Incomiing: next-ani-digit Interdigit Timer (sec): 10 Outgoing: next-ani-digit Maximum Resend Requests: Received Signal Gain (dB): 0 Transmitted Signal Gain (dB): -3 Request Incoming ANI (non-AAR/ARS)? y Outgoing Forward Signal Present Timer (sec): 15 Outgoing Forward Signal Absent Timer (sec): 30 Multifrequency Signaling Incoming Intercept Treatment? y Collect All Digits Before Seizure? n Overlap Sending on Link-to-Link Tandem Calls? n Private Group II Permissions and Public Interworking? n Group II Called Party Category: user-type Use COR for Calling Party Category? n

Page 2 of 4 MULTIFREQUENCY-SIGNALING-RELATED SYSTEM PARAMETERS Request Call Category at Start of Call: y Restart ANI from Caller Category: n Number of Incoming ANI Digits: 10 Number of Outgoing ANI Digits: 10 Incoming Outgoing ANI Available: 1_____1__ ANI Not Available: 10_____10__

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М	ULTIFRE	QUENCY-SIGNALI	ING-REL	ATED SYSTEM PARAM	IETERS		
INCOMING FORWARD (Tones from CO)	SIGNAL	TYPES		COMING BACKWARD S ones to CO)	IGNAL 7	TYPES	
Group-I		Group-II		Group-A		Group-B	
11: ignored	1:	normal	1:	next-digit	3:	busy	
12: ignored	2:	normal	3:	end-of-dial	4:	congestion	
13: ignored	3:	normal	4:	next-ani-digit	5:	intercept	
14: ignored	4:	normal	5:	send-ani	6:	free	
15: ignored	5:	attendant	:		:		
	6:	data-call	:		:		
	7:	normal	:		:		
	8:	normal	:		:		
	9:	normal	:		:		
	10:	normal	:		:		
	11:	normal	:		:		
	12:	normal	:		:		
	13:	normal	:		:		

				P	age 4 of 4	
MULTIFRI	EQUENCY-SIGNALING	-REL	ATED SYSTEM PAR	AMETERS		
OUTGOING FORWARD SIGNAD (Tones to CO)	J TYPES		TGOING BACKWARD ones from CO)	SIGNAL	TYPES	
Group-I	Group-II		Group-A		Group-B	
: 2	normal	1:	next-digit	1:	free	
: 5	attendant	2:	restart	2:	intercept	
: 6	data-call	3:	end-of-dial	3:	busy	
:		4:	next-ani	4:	congestion	
:		5:	send-ani	5:	intercept	
:		6:	setup-sppath	6:	free	
			last-2-digits		congestion	
:			last-3-digits	8:	congestion	
		9:	last-digit	9:	congestion	
:		10:	congestion	10:	congestion	
:		11:	congestion	11:	congestion	
:		12:	congestion	12:	congestion	
:		13:	congestion	13:	congestion	
:		14:	congestion	14:	congestion	
		15:	congestion	15:	congestion	
\mathbf{X}						

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Trunk Group Administration

CO Trunk Group Administration

Page 1 of 10 TRUNK GROUP Group Type: co COR: 50 CDR Reports: y TN: 1 TAC: 888 Group Number: 4 Group Name: M.T.N.L. LINE Direction: two-way Outgoing Display? n Dial Access? y Busy 2 Queue Length: 0 Country: 1 Comm Type: voice Busy Threshold: 99 Night Service: Incoming Destination: 200 1 Incoming Destination: Auth Code? n Digit Absorption List: Trunk Flash? n Prefix-1? y Toll Restricted? y TRUNK PARAMETERS Trunk Type: loop-start Outgoing Dial Type: rotary Cut-Through? n Disconnect Timing(msec): 500 Trunk Termination: rc Auto Guard? n Call Still Held? n Sig Bit Inversion: none Terminal Balanced? n RA Trunk Loss: 0db Trunk Gain: high Disconnect Supervision - In? y Out? n Cyclical Hunt? n Answer Supervision Timeout: 10 Receive Answer Supervision? n

Page 2 of 10 TRUNK FEATURES ACA Assignment? n Measured: none Data Restriction? n Abandoned Call Search? n Suppress # Outpulsing? n

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Page 3 of 10 TRUNK GROUP ADMINISTRABLE TIMERS Outgoing Disconnect (msec): 500 Incoming Disconnect(msec): 500 Outgoing Dial Guard (msec): 1600 Outgoing Glare Guard (msec): 1500 Incoming Glare Guard (msec): 1500 Outgoing Rotary Dial Interdigit (msec): 800 Ringing Monitor (msec): 5200 Incoming Seizure (msec): 500 Outgoing End of Dial (sec): 10 Outgoing Seizure Response (sec): 5 Programmed Dial Pause (msec): 1500 Flash Length(msec): 540 END TO END SIGNALING Tone (msec): 350 Pause (msec): 150 OUTPULSING INFORMATION PPS: 10 Make (msec): 40 Break (msec): 60 PPM? n

							Page	4 of 10
					TRUNK GROUI	P		
	ROUP MEMBER				Total	red Members Administere	d Members:	3
	ort	Code	Sfx	Name	Night	Mode	Туре	Ans Delay
	: 01A0808		В					
		TN747	B B					
4	: 01A0808	TN747	в					
5								
6								
7								
8								
9								
1	0:							
1	1:							
1	2:							
	3:							
	4:							
1	5:							
)

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Tie Trunk Group Administration

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	TRUNK GROUP
	Group Number: 1 Group Type: tie CDR Reports: y Group Name: Outgoing-2MB COR: 1 TN: 1 TAC: 51 Direction: outgoing Outgoing Display? n Trunk Signaling Type: Dial Access? y Busy Threshold: 99 Queue Length: 0 Comm Type: voice
	TRUNK PARAMETERS Trunk Type (in/out): immed/immed Incoming Rotary Timeout (sec): 5 Outgoing Dial Type: mf Incoming Dial Type: mf Disconnect Timing(msec): 500
	Digit Treatment: insertion Digits: 0 Sig Bit Inversion: none
	Connected to Toll? n STT Loss: normal DTT to DCO Loss: normal Incoming Dial Tone? n
	Disconnect Supervision - Out? y Answer Supervision Timeout: 0 Receive Answer Supervision? y

Page 2 of 11 TRUNK FEATURES ACA Assignment? n Measured: none Internal Alert? n Maintenance Tests? y Data Restriction? n Used for DCS? n Suppress # Outpulsing? n Seize When Maintenance Busy: neither-end

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TRUNK	GROUP
ADMINISTRABLE TIMERS	
Incoming Dial Guard (msec): 70	Outgoing Disconnect (msec): 500 Outgoing Dial Guard (msec): 1600 Outgoing Glare Guard (msec): 1500
Programmed Dial Pause (msec): 1500 Inc	Outgoing Seizure Response (sec): 5 Disconnect Signal Error (sec): 240 coming Incomplete Dial Alarm (sec): 255
END TO END SIGNALING Tone (msec): 350 Pause (msec): 1	.50
OUTPULSING INFORMATION PPS: 10 Make (msec): 40 Break	(msec): 60

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Indonesia

Table 35 shows the recommended circuit packs.

Table 35. Recommended and Available CPs in Indonesia

Equipment	Equipment Type
Cabinet Type & Power	GAC-MCC DC-MCC AC-SCC DC-SCC AC-CMC
AC Power Voltage & Freq	220V/50Hz
Ring Generator	25Hz
Tone Detector	>TN2182B >TN784D
Tone Clock	>TN2182B
R2MFC Circuit	TN744D
Speech Synthesizer	>TN725B
Call Classifier	>TN744D TN744C
Announcement	TN750C TN750B
Analog DID Trunk	>TN753
Analog CO Trunk (No PPM)	TN747B
Analog CO Trunk (w/PPM)	#TN465C
4 Wire Tie Trunk	>TN760D
2 Wire Tie Trunk	n/a
Auxiliary Trunk	>TN763D
Digital CO/DID Trunk	>TN2464
Digital Tie Trunk	>TN2464
Digital PRI CO Trunk	TN2464
Digital BRI Trunk	>TN2185
Digital Converter PRI-DASS	TNCCSC-1
Digital Converter PRI-DPNSS	TN-CCSC-2
Digital Converter PRI-BRI	TNPRI/BRI
8 Port Analog Line	n/a
16 Port Analog Line	#TN791 TN746B
24 Port Analog Line	TN2793

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Equipment	Equipment Type
4 Wire Digital Line	>TN754B
2 Wire Digital Line	#TN2214 >TN2181
Data Line	>TN726B
BRI-U Line	TN2198
BRI-ST Line	TN556B

Table 35. Recommended and Available CPs in Indonesia

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Israel

Table 36 shows the recommended circuit packs.

Table 36. Recommended and Available CPs in Israel

Equipment	Equipment Type
Cabinet Type & Power	GAC-MCC DC-MCC AC-SCC AC-CSCC AC-CMC
AC Power Voltage & Freq	220V/50Hz
Ring Generator	25Hz
Tone Detector	#TN2182B #TN744D
Tone Clock	#TN2182B
R2MFC Circuit	n/a
Speech Synthesizer	#TN433
Call Classifier	>TN744D
Announcement	TN750C
Analog DID Trunk	
Analog CO Trunk (No PPM)	
Analog CO Trunk (w/PPM)	
4 Wire Tie Trunk	
2 Wire Tie Trunk	
Auxiliary Trunk	
Digital CO/DID Trunk	
Digital Tie Trunk	
Digital PRI CO Trunk	
Digital BRI Trunk	
Digital Converter PRI-DASS	
Digital Converter PRI-DPNSS	
Digital Converter PRI-BRI	
8 Port Analog Line	
16 Port Analog Line	
24 Port Analog Line	n/a

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Table 36. Recommended and Available CPs in Israel

Equipment	Equipment Type
4 Wire Digital Line	
2 Wire Digital Line	
Data Line	
BRI-U Line	
BRI-ST Line	

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Ap Italy (Lucent Technologies)

Italy (Lucent Technologies)

Table 37 shows the recommended circuit packs.

Recommended and Available CPs in Italy (Lucent Technologies) Table 37.

Equipment	Equipment Type
Cabinet Type & Power	GAC-MCC DC-MCC AC-SCC AC-CSCC AC-CMC
AC Power Voltage & Freq	220V/50Hz
Ring Generator	25Hz
Tone Detector	>TN2182B >TN744D TN420C
Tone Clock	>TN2182B TN780
R2MFC Circuit	n/a
Speech Synthesizer	>TN433
Call Classifier	>TN744D
Announcement	TN750C TN750B
Analog DID Trunk	>TN2179
Analog CO Trunk (No PPM)	n/a
Analog CO Trunk (w/PPM)	#TN465C >TN2138
4 Wire Tie Trunk	>TN2140B TN2140
2 Wire Tie Trunk	n/a
Auxiliary Trunk	>TN763D
Digital CO/DID Trunk	>TN464Fv5
Digital Tie Trunk	>TN464Fv5
Digital PRI CO Trunk	
Digital BRI Trunk	>TN2185
Digital Converter PRI-DASS	
Digital Converter PRI-DPNSS	TN-CCSC-2
Digital Converter PRI-BRI	
8 Port Analog Line	n/a
16 Port Analog Line	#TN2183 > TN2135
24 Port Analog Line	n/a

Equipment	Equipment Type
4 Wire Digital Line	>TN754B
2 Wire Digital Line	#TN2224 >TN2181
Data Line	>TN726B
BRI-U Line	
BRI-ST Line	

Table 37. Recommended and Available CPs in Italy (Lucent Technologies)

Country-Specific Feature

You can use DEFINITY ECS the European CEPT Advice of Charge feature in Italy. Refer to the DEFINITY ECS Administration and Feature Description for more information about Advice of Charge.

Feature Administration

The screen displays shown in this section were effective the date the type approval was awarded. The screens may have changed since that date.

Only those feature-related parameters that may have a Type Approval or basic connectivity implication for a particular country are listed here.

ARS/AAR Administration

To enable ARS administration, on the System-Parameters Customer-Options screen, set the ARS field to **y**. You also should check all ARS/AAR defaults. These defaults were intended for U.S. operation and certain values are likely to be inappropriate internally. In particular, the following call types (appear as ARS/AAR defaults) typically are not used in non-North American ARS/AAR tables:

fnpa:	North American numbers with an area code.
hnpa:	North American numbers without an area code.
SVC	North American numbers of the screen "x11".

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Lucent recommends only the following call types be used outside North America:

int:	For all international numbers.
natl:	For all national PN numbers.
pubu:	For all other external (that is, not extensions) numbers.

System Parameter Administration

Only those feature-related parameters that may have a Type Approval or basic connectivity implication for a particular country are listed here.

- Feature-Related System Parameters Administration
 - System-Parameters Customer-Options
 - Off Premise Tone Detection Timeout: 10 sec
 - Trunk-to-Trunk Transfer: Restricted
 - Coverage Subsequent Redirection No Answer Interval: 3
 - Music/Tone on Hold: tone
 - DID/TIE/ISDN Intercept Treatment: Attendant
 - Time before Off-hook Alert: 10
 - Service Observing Warning Tone: Yes
 - Public Network Trunks on Conference Call: 1
 - Conference Parties With PNTs: 3
 - Conference Parties Without PNTs: 6
 - Line Intercept Tone Timer: 30
 - Night Service Disconnect Timer: 180 sec
 - Short Interdigit Timer: 3 sec
 - Unanswered DID Call Timer: 25 sec
 - Auto-Hold: Yes1
 - Attendant Tone: Yes
 - Bridging Tone: No
 - Conference Tone: No
 - Intrusion Tone: Yes
 - Repetitive Call Waiting Tone: Yes
 - DID Busy Treatment: Attendant
 - Pull Transfer: Yes

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Italy (Lucent Technologies) Update Transferred Ring Pattern: Yes Level of Tone Detection: Precise Wait Answer Supervision Timer: Yes Misoperation Alerting: Yes Allow conference via Flash: Yes Outpulse Without Tone: No Network Feedback During Tone Detection: No Intercept Treatment On Failed Trunk Transfers: Yes Station Tone Forward Disconnect: Intercept (Station-to-switch) Recall Timing: Flashhook Interval: Yes Upper Bound: 1000 ms Lower Bound: 200 ms System Parameter Country Options Administration Companding Mode: A-law Base Tone Generation Set: 4 Tone Detection Mode: 1 Digital Loss Plan: 4			
 Interdigit Pause: short Analog Ringing Cadence: 4 Analog Line Transmission: 4 Customized Individual Tones 			
Analog Trunk Administration CO Trunks 			
 Trunk Group Screen Group Type: CO Direction: two-way Dial Access: Customer Option (No is recommended toll fraud) (Yes, for approval testing) 	d to avoid		

- Country: 4
- Trunk Gain: high
- Digit Absorption List: blank
- Prefix-1: No

Application Notes for Type Approval *Italy (Lucent Technologies)*

- Trunk Type: loop-start or ground-start
- Outgoing Dial Type: tone
- Trunk Termination: rc (complex impedance)
- Disconnect Timing: 500 ms (This field will not be used with CPs that can accept the Incoming Disconnect and Outgoing Disconnect timers. Set these latter two timers from the Administrable Timers Screen.)
- Parameters based on loop length (which itself is not administrable)

Loop Length	Trunk Gain	Terminal Balance
short	low	у
long	high	у

- Auto Guard: no
- Call Still Held: no
- Receive Answer Supervision: no
- Answer Supervision Timeout: 10 (This sets both the CP firmware timer and software timer. Set to 0 for any trunk that will receive answer supervision.)
- Disconnect Supervision In: no
- Disconnect Supervision Out: (Selection is customer's choice.
- Trunk Group Administration screen (Timing)

Set the following timers from the Administrable Timers screen during administration of each trunk group. Select the following CO trunk timer values for this country:

- Incoming Disconnect: 50 ms
- Outgoing Disconnect: 50 ms
- Outgoing Dial Guard: 1000 ms
- Incoming Glare Guard: 200 ms
- Outgoing Glare Guard: 200 ms
- Ring Monitor Timer: 5200 ms
- Incoming Seizure: 500 ms
- Outgoing End-of-Dial: 10 sec
- Outgoing Seizure Response: 20 sec
- Programmed Dial Pause: 1500 ms

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Application Notes for Type Approval *Italy (Lucent Technologies)*

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- Disconnect Signal Error: 255 sec (only Ground Start)
- Flash Length: 100 ms
- Outpulsing Information:
 - PPS: 10 pps
 - Make: 50 ms
 - Break: 50 ms
 - PPM: Yes
 - Frequency: 12kHz
- End to End Signaling
 - Tone: 350 ms (accept default)
- DID Trunks
 - Trunk Group screen
 - Group Type: DID
 - Country: 4
 - Trunk Type: immed-start
 - Incoming Dial Type: tone
 - Trunk Termination: rc (complex impedance)
 - Disconnect Timing: 500 ms (This field will not be used with CPs that can accept the Incoming Disconnect and Outgoing Disconnect timers. Set these latter two timers from the Administrable Timers Screen.)
 - Digit Treatment: blank
 - Digits: blank
 - Expected Digits: depends on system size and numbering plan
 - Terminal Balanced: yes
 - Extended Loop Range: (Used Only with TN459) no
 - Drop Treatment: silence
 - Trunk Gain: high
 - Disconnect Supervision: no
 - Incoming Rotary Timeout (sec): 5 sec (This field will not be used with CPs that can accept the Incoming Partial Dial timer. Set this timer from the Administrable Timers screen.)

— Trunk Group Administration screen (Timing)

Set the following timers from the Administrable Timers screen during administration of each trunk group. Select the following DID trunk timer values for this country:

- Incoming Disconnect: 500 ms
- Incoming Dial Guard: 50 ms
- Flash Length: 100 ms
- Incoming Incomplete Dial Alarm: 255 sec
- Tie Trunks

The TN2140B is used for E&M trunks that may be administered as either Continuous or Discontinuous. This section lists the only valid administration combinations possible for these trunks.

Use the following administration for these types:

- Continuous T1
 - Group Type: tie, tandem, access, aplt, or rlt
 - Dial Access: Customer Option (No is recommended to avoid toll fraud) (Yes, for approval testing)
 - Trunk Signaling Type: cont
 - Trunk Type (in/out): cont/cont
 - Send Release Ack: y
 - Receive Release Ack: y
 - Disconnect Supervision In: no
 - Disconnect Supervision Out: (Selection is customer's choice.)
 - Send Answer Supervision: n
 - Receive Answer Supervision: n
- Continuous T2
 - Group Type: tie, tandem, access, aplt, or rlt
 - Trunk Signaling Type: cont
 - Dial Access: Customer Option (No is recommended to avoid toll fraud) (Yes, for approval testing)
 - Trunk Type (in/out): immed/immed
 - Send Release Ack: y
 - Receive Release Ack: y
 - Disconnect Supervision In: no

- Disconnect Supervision Out: (Selection is customer's choice.)
- Send Answer Supervision: y
- Receive Answer Supervision: y
- Discontinuous T1
 - Group Type: tie, tandem, access, aplt, or rlt
 - Trunk Signaling Type: dis
 - Dial Access: Customer Option (No is recommended to avoid toll fraud) (Yes, for approval testing)
 - Trunk Type (in/out): immed/immed
 - Send Release Ack: y
 - Receive Release Ack: y
 - Disconnect Supervision In: no
 - Disconnect Supervision Out: (Selection is customer's choice.)
 - Send Answer Supervision: n
 - Receive Answer Supervision: n
- Discontinuous T2
 - Group Type: tie, tandem, access, aplt, or rlt
 - Trunk Signaling Type: dis
 - Dial Access: Customer Option (No is recommended to avoid toll fraud) (Yes, for approval testing)
 - Trunk Type (in/out): disc/disc
 - Send Release Ack: n
 - Receive Release Ack: n
 - Disconnect Supervision In: no
 - Disconnect Supervision Out: (Selection is customer's choice.)
 - Send Answer Supervision: y
 - Receive Answer Supervision: y
- Discontinuous T3
 - Group Type: tie, tandem, access, aplt, or rlt
 - Trunk Signaling Type: dis
 - Dial Access: Customer Option (No is recommended to avoid toll fraud) (Yes, for approval testing)

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	Trunk Type (in/out): disc/disc Send Release Ack: n Receive Release Ack: n Disconnect Supervision - In: no Disconnect Supervision - Out: (Selection is custom choice.)	ner's
•	Send Answer Supervision: n Receive Answer Supervision: n	
■ — Disco	ntinuous T5	
	Group Type: tie, tandem, access, aplt, or rlt Trunk Signaling Type: dis Dial Access: Customer Option (No is recommende toll fraud) (Yes, for approval testing) Trunk Type (in/out): immed/immed Send Release Ack: n Receive Release Ack: n	d to avoid
:	Disconnect Supervision - In: no Disconnect Supervision - Out: (Selection is custom choice.)	ner's
•	Send Answer Supervision: n	
•	Receive Answer Supervision: n	
— Trunk	Group Administration screen (Timing)	
during	e following timers from the Administrable Timers sci administration of each trunk group. Select the follo timer values for this country:	
•	Incoming Disconnect: 300 ms (E&M cont)	
•	Outgoing Disconnect: 300 ms (E&M cont)	
•	Outgoing Dial Guard: 400 ms (E&M cont, dis)	
•	Incoming Glare Guard: 800 ms (E&M cont, dis)	
•	Outgoing Glare Guard: 1000 ms (E&M cont)	
•	Outgoing Glare Guard: 1200 ms (E&M dis)	
•	Outgoing Dial Pulse Rate (PPS): 10 pps	
•	Outgoing Rotary Digit Dial Make: 40 ms	

Application Notes for Type Approval *Italy (Lucent Technologies)*

\blacksquare NOTE:

If connected to a 20-pps system, then set the Outgoing Rotary Digit Dial Make and Outgoing Rotary Digit Dial Break times to 20 and 30 ms respectively.

- Outgoing Rotary Digit Dial Break: 60 ms
- Outgoing Rotary Dial Interdigit: 700 ms
- Incoming Seizure: 100 ms (E&M cont)
- Outgoing End-of-Dial: 10 sec
- Outgoing Seizure Response: 1 sec (E&M cont, dis)
- Disconnect Signal Error: 2 sec (E&M cont)
- Disconnect Signal Error: 1 sec (E&M dis)
- Incoming Partial Dial: 15 sec

Digital Trunk Administration

This section does not list all possible valid administrable combinations. Rather the most common or standard combination, compatible with public-network and Type Approval standards for each country, is presented:

- CO Trunks
 - DS1 Administration Screen
 - Circuit Pack: TN464F (Not entered as administrable item)
 - Bit Rate: 2.048
 - Interface Companding: A-law
 - Line Coding: HDB3
 - Signaling Mode: CAS
 - Country Protocol: 4
 - Interconnect: CO
 - CRC?: Yes
 - Idle Code: 01010100
 - Trunk Group Administration screen (Timing)
 - Digital trunk timing values should be set as for analog CO trunks.
- DID Trunks
 - DS1 Administration screen
 - Circuit Pack: TN464F
 - Bit Rate: 2.048

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■ Ir	nterface Companding: A-law
• L	ine Coding: HDB3
∎ S	Signaling Mode: CAS
■ C	Country Protocol: 4
∎ Ir	nterconnect: CO
∎ C	CRC?: No
∎ lo	dle Code: 01010100
— Trunk Group Administration screen (Timing)	
Digital ti	runk timing values should be set as for analog DID trunks.
- Tie Trunks	

- Lie Trunks
 - Non-ISDN Signaling Example (DS1 Administration screen)
 - Group Type: tie
 - Circuit Pack: TN464F
 - Bit Rate: 2.048
 - Interface Companding: A-law
 - Line Coding: HDB3
 - Signaling Mode: CAS
 - Country Protocol: 4
 - Interconnect: pbx
 - CRC?: no
 - Idle Code: 01010101
 - Trunk Group Administration screen (Timing)

Set the following timers from the Administrable Timers screen during administration of each trunk group. Select the following Tie trunk timer values for this country:

- Incoming Disconnect: 50 ms
- Outgoing Disconnect: 50 ms
- Incoming Dial Guard: 70 ms
- Outgoing Dial Guard: 1000 ms
- Incoming Glare Guard: 200 ms
- Outgoing Glare Guard: 200 ms
- Outgoing Dial Pulse Rate (PPS): 10 pps
- Outgoing Rotary Digit Dial Make: 50 ms
- Outgoing Rotary Digit Dial Break: 50 ms

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 Outgoing Rotary Dial Interdigit: 700 ms Incoming Seizure: 100 ms Outgoing Seizure Response: 60 sec 	
 Disconnect Signal Error: 255 sec 	
 Incoming Partial Dial: 6 sec 	
 — ISDN-PRI (Private Network) Signaling (DS1 Administration 	n screen)
This example assumes use of US Option 1 with facility ass signaling. Other feature options will require changes in one administered items.	
 Circuit Pack: TN464F 	
 Bit Rate: 2.048 	
 Interface Companding: A-law 	
 Line Coding: HDB3 	
 Signaling Mode: isdn-pri 	
 Country Protocol: 4 	
 Connect: pbx 	
 Interface: user 	
CRC: No	
 Idle Code: 01010101 	
 Signaling Group screen 	
 Associated Signaling: Yes 	
 Primary D_Channel: xxxx16 (xxxx=>depends on C physical location) 	Ρ
 Trunk Group Administration screen 	
 Group Type: isdn-pri 	
 Service Type: tie 	
 ISDN-PRI (Public Network) (DS1 Administration scr 	een)
Temporary Signaling Connections and D-Channel E features must not be administered for E1 interfaces country protocol 13 (Italy).	•
 Circuit Pack: TN464F 	
■ Bit Rate: 2.048	
 Interface Companding: A-law 	
 Line Coding: HDB3 	

Signaling Mode: isdn-pri

Application Notes for Type Approval *Italy (Lucent Technologies)*

- Connect: Network
- Country Protocol: 13
- Protocol Version: a, for 1TR6 and b, for E-DSS1.

Protocol version selection depends on the type of public network service purchased by the customer

- CRC: yes
- Idle Code: 01010100
- Signaling Group screen
- Associated Signaling: Yes
- Primary D_Channel: xxxx16 (xxxx=>depends on CP physical location)

— Trunk Group Administration screen

- Group Type: isdn-pri
- COR: COR for isdn-pri public_ntwrk trunks must have a higher FRL than all Tie Trunks
- Service Type: public_ntwrk
- Overlap Receiving: yes, a must for DID trunk operation

Station Administration

The administrator can select "italian" on station administration and attendant administration to pick Italian as the display language for the corresponding display set user.

85XX Terminals

The 8510 terminal must be administered as a 7507 terminal to be able to use the 8510 terminal for both voice and data operation. If used for voice only operation, a terminal type of 8510D is sufficient. Aliasing a terminal type of 8510+ to a 7507 is preferable.

- Terminal Settings:

Each 8510 must be programed with the following parameters:

- Country Code = 6
- Companding Mode = a-law
- Transmit Value = +3
- Receive Value = -5
- Side Tone Value = 0
- Use the following programming sequence.
- 8510 Program Instructions: (items in brackets [] mean use that button) for setting the proper country code of 6.

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Enter:		
	Value	Meaning
	[MENU]	
	[MUTE]	
	2	program for
	4	setting country option
	6	country code 6
	#	save value
For setting the	proper trai	nsmission values for Italy (G3V3):

Enter:	
Value	Meaning
[MENU]	
[MUTE]	
2	program for
5	setting transmission values
2	a-law
#	save value and proceed to next step
3	transmit value of "+3" desired
*	toggle to select "+"
#	save value and proceed to next step
5	receive value of "-5" desired
*	toggle to select "-"
#	save value and proceed to next step
0	side tone value of "0" desired
#	save value and complete setup steps for both voice and data operation

The following values have been determined as a result of type approval.

84XX (94XX) Terminals

Aliasing the terminal types of 9403B to 8403B, 9410B to 8410B, 9410D to 8410D, and 9434D to 8434D is a preferable way of handling the administration for the 94XX family of terminals.

- Terminal Parameters
 - Default Parameter Set: 4
 - Customize Parameters? n

The default parameters for selecting Italy country code 4 are as follows and ARE PROGRAMMED AUTOMATICALLY. These values are included as reference information only.

- Display Mode: 1
- DLI Voltage Level: auto
- Handset Expander Enabled? n

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- Primary Levels	

Primary Levels:

- Voice Transmit (dB): +14.0
- Voice Sidetone (dB): -25.0
- Voice Receive (dB): -5.0
- Touch Tone Sidetone (dB): -25.0
- Touch Tone Transmit (dB): -4.0
- Adjunct Levels
 - Voice Transmit (dB): 0.0
 - Voice Receive (dB): -2.0
 - Voice Sidetone (dB): -14.5
 - Touch Tone Sidetone (dB): -25.0
- 603/302B Terminals (nothing except for alias of 94XX to 84XX equivalent)
 - Terminal Parameters
 - Default Parameter Set: 4
 - Customize Parameters? n

The default parameters for selecting Italy country code 4 are as follows and ARE PROGRAMMED AUTOMATICALLY with software load G3V3i.02.0.044.0 or later loads. These values are included as reference information only.

- Display Mode: 1
- DLI Voltage Level: auto
- Primary Levels:
 - Voice Transmit (dB): +7.0
 - Voice Sidetone (dB): -35.5
 - Voice Receive (dB): -6.5
 - Touch Tone Sidetone (dB): -25.0
 - Touch Tone Transmit (dB): -4.0

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Italy-Italtel

Table 38 shows the recommended circuit packs.

Table 38. Recommended and Available CPs in Italy-Italtel

Equipment	Equipment Type
Cabinet Type & Power	GAC-MCC DC-MCC AC-SCC AC-CSCC AC-CMC
AC Power Voltage & Freq	220V/50Hz
Ring Generator	20Hz
Tone Detector	>TN420C
Tone Clock	>TN780 TN419B
R2MFC Circuit	n/a
Speech Synthesizer	>TN433
Call Classifier	>TN2182B >TN744D
Announcement	#TN750C >TN750B
Analog DID Trunk	>TN2139
Analog CO Trunk (No PPM)	>n/a
Analog CO Trunk (w/PPM)	>TN2138
4 Wire Tie Trunk	#TN2140B TN2140
2 Wire Tie Trunk	>TN497
Auxiliary Trunk	>TN763D TN417
Digital CO/DID Trunk	>TN464F TN464E TN464D TN464C TN464B
Digital Tie Trunk	>TN464F TN464E TN464D TN464C TN464B
Digital PRI CO Trunk	n/a
Digital BRI Trunk	
Digital Converter PRI-DASS	
Digital Converter PRI-DPNSS	
Digital Converter PRI-BRI	
8 Port Analog Line	n/a
16 Port Analog Line	>TN2183 >TN2135
24 Port Analog Line	n/a

Continued on next page

Equipment	Equipment Type
4 Wire Digital Line	>TN754B TN413
2 Wire Digital Line	>TN2181 TN2136
Data Line	>TN726B
BRI-U	
BRI-ST	

Table 38. Recommended and Available CPs in Italy-Italtel — Continued

Feature Administration

The screen displays shown in this section were effective the date the type approval was awarded. The screens may have changed since that date.

Only those feature-related parameters that may have a Type Approval or basic connectivity implication for a particular country are listed here.

ARS/AAR Administration

i.

To enable ARS administration, on the System-Parameters Customer-Options screen, set the ARS field to **y**. You also should check all ARS/AAR defaults. All default ARS analysis codes are deleted before dialed strings are added for routing when DEFINITY is installed outside of North America. Be aware that the default for the 10 digits cause dialing problems. In particular, the following call types (appear as ARS/AAR defaults) typically are not used in non-North American ARS/AAR tables:

fnpa:	North American numbers with an area code.
hnpa:	North American numbers without an area code.
SVC:	North American numbers of the screen "x11".

Lucent recommends only the following call types be used outside North America:

int:	For all international numbers.
natl:	For all national PN numbers.
pubu:	For all other external (that is, not extensions) numbers.

Application Notes for Type Approval *Italy-Italtel*

System Parameter Administration

Only those feature-related parameters that may have a Type Approval or basic connectivity implication for a particular country are listed here.

- Console Parameters Administration
 - Return Call Timeout (sec): 10 sec
- Feature-Related System Parameters Administration
 - Trunk-to-Trunk Transfer: Permitted by country's regulations -Selection is customer's choice.
 - Public Network Trunks on Conference Call: 5
 - Conference Parties With PNTs: 6
 - Conference Parties Without PNTs: 6
 - Line Intercept Tone Timer: 30
 - Night Service Disconnect Timer: 180 sec
 - Short Interdigit Timer: 3 sec
 - Unanswered DID Call Timer: 60
 - Auto-Hold: Yes 11
 - Attendant Tone: Yes
 - Bridging Tone: No
 - Conference Tone: No
 - Intrusion Tone: Yes
 - Repetitive Call Waiting Tone: No
 - DID Busy Treatment: Attendant
 - Pull Transfer: No
 - Level of Tone Detection: Precise
 - Outpulse Without Tone: Yes
 - (Station-to-Switch) Recall Timing:
 - Flashhook Interval: Yes
 - Upper Bound: 1000 ms
 - Lower Bound: 200 ms
- Country Options Parameters

11.

- Companding Mode: A-law
- Base Tone Generation Set: 4

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- Tone Detection Mode: 1
- Interdigit Pause: short
- Digital Loss Plan: 4
- Analog Ringing Cadence: 4

Analog Trunk Administration

- CO Trunks
 - Trunk Group Screen
 - Group Type: CO
 - Country: 4
 - Trunk Gain: high
 - Direction: two-way
 - Digit Absorption List: blank
 - Prefix-1: No
 - Trunk Type: loop-start or ground-start
 - Outgoing Dial Type: tone
 - Trunk Termination: rc (complex impedance)
 - Auto Guard: no
 - Dial Access: yes
 - Call Still Held: no
 - Terminal Balanced: yes
 - Receive Answer Supervision: no
 - Answer Supervision Timeout: 10 (This sets both the CP firmware timer and software timer. This should be set to 0 for any trunk that will receive answer supervision.)
 - Disconnect Supervision In: no
 - Disconnect Supervision Out: Selection is customer's choice.
 - Disconnect Timing: 500 ms (This field will not be used with CPs that can accept the Incoming Disconnect and Outgoing Disconnect timers. Set these latter two timers from the Administrable Timers Screen.)
 - Trunk Group Administration Screen (Timing)

Set the following timers from the Administrable Timers screen during administration of each trunk group. Select the following CO trunk timer values for this country:

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 Incomi Outgoi Incomi Outgoi Incomi Outgoi Prograt Discon End-To 	ng Disconnect: 50 ms ng Disconnect: 50 ms ng Dial Guard: 70 ms ng Dial Guard: 1000 ms ng Glare Guard: 200 ms ng Glare Guard: 200 ms ng Glare Guard: 200 ms ng Dial Pulse Rate (PPS): 10 pps ng Rotary Digit Dial Make: 50 ms ng Rotary Digit Dial Break: 50 ms ng Rotary Digit Dial Break: 50 ms ng Rotary Digit Interdigit: 700 ms onitor Timer: 5200 ms ng Seizure: 500 ms ng Seizure: 500 ms ng End-of-Dial: 10 sec ng Seizure Response: 60 sec mmed Dial Pause: 1500 ms nect Signal Error: 255 sec -End Signaling Tone: 350 ms (accept defaul tength: 100 ms	
	ncy: 12kHz	
— Trunk Group S	Screen	
GroupCountriTrunk C	Type: DID	
Incomi	ng Dial Type: tone	

- Trunk Type: immed-start
- Trunk Termination: rc (complex impedance)
- Disconnect Supervision: no
- Disconnect Timing: 500 ms (This field will not be used with CPs that can accept the Incoming Disconnect and Outgoing Disconnect timers. Set these latter two timers from the Administrable Timers Screen.)

- Digit Treatment: blank
- Digits: blank
- Expected Digits: depends on system size and numbering plan
- Terminal Balanced: yes
- Extended Loop Range: (Used Only with TN459) no
- Drop Treatment: silence
- Incoming Rotary Timeout (sec): 5 sec (This field will not be used with CPs that can accept the Incoming Partial Dial timer. Set this timer from the Administrable Timers Screen.)
- Trunk Group Administration Screen (Timing)

Set the following timers from the Administrable Timers screen during administration of each trunk group. Select the following DID trunk timer values for this country:

- Incoming Disconnect: 500 ms
- Incoming Dial Guard: 50 ms
- Incoming Partial Dial: 6 sec
- Incoming Incomplete Dial: 255 sec
- Flash Length: 100 ms
- Tie Trunks

The TN2140 is used for E&M trunks that may be administered as either Continuous or Discontinuous. This section lists the only valid administration combinations possible for these trunks.

Use the following administration for these types:

- Continuous T1
 - Group Type: tie, tandem, access, aplt, or rlt
 - Trunk Signaling Type: cont
 - Trunk Type (in/out): cont/cont
 - Send Release Ack: y
 - Receive Release Ack: y
 - Send Answer Supervision: n
 - Receive Answer Supervision: n
- Continuous T2
 - Group Type: tie, tandem, access, aplt, or rlt
 - Trunk Signaling Type: cont
 - Trunk Type (in/out): immed/immed

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Send Release Ack: yReceive Release Ack: y	
 Send Answer Supervision: y 	
 Receive Answer Supervision: y 	
— Discontinuous T1	
 Group Type: tie, tandem, access, aplt, or rlt 	
 Trunk Signaling Type: dis 	
 Trunk Type (in/out): immed/immed 	
 Send Release Ack: y 	
 Receive Release Ack: y 	
 Send Answer Supervision: n 	
 Receive Answer Supervision: n 	
— Discontinuous T2	
 Group Type: tie, tandem, access, aplt, or rlt 	
 Trunk Signaling Type: dis 	
 Trunk Type (in/out): disc/disc 	
 Send Release Ack: n 	
 Receive Release Ack: n 	
 Send Answer Supervision: y 	
 Receive Answer Supervision: y 	
— Discontinuous T3	
 Group Type: tie, tandem, access, aplt, or rlt 	
 Trunk Signaling Type: dis 	
 Trunk Type (in/out): immed/immed 	
 Send Release Ack: n 	
 Receive Release Ack: n 	
 Send Answer Supervision: y 	
 Receive Answer Supervision: y 	
— Discontinuous T4	
 Group Type: tie, tandem, access, aplt, or rlt 	
 Trunk Signaling Type: dis 	
 Trunk Type (in/out): disc/disc 	
 Send Release Ack: n 	

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 Receive Release Ack: n 	
 Send Answer Supervision: n 	
 Receive Answer Supervision: n 	
— Discontinuous T5	
 Group Type: tie, tandem, access, aplt, or rlt 	
 Trunk Signaling Type: dis 	
 Trunk Type (in/out): immed/immed 	
Send Release Ack: n	
 Receive Release Ack: n 	
 Send Answer Supervision: n 	
 Receive Answer Supervision: n 	
If the TN497 is used as tie trunk interface CP, se and Signaling Type fields as follows:	et Group Type
 Group Type: tie 	
 Signaling Type: tge, tgu or tgi 	
— Trunk Group Administration Screen (Timing)	
Set the following timers from the Administrable Timers during administration of each trunk group. Select the trunk timer values for this country:	
 Incoming Disconnect: 300 ms (E&M cont) 	
 Outgoing Disconnect: 300 ms (E&M cont) 	
 Outgoing Dial Guard: 400 ms (E&M cont, dis) 	
 Incoming Glare Guard: 800 ms (E&M cont, displayed))
 Outgoing Glare Guard: 1000 ms (E&M cont) O Guard: 1200 ms (E&M dis) 	utgoing Glare
 Outgoing Dial Pulse Rate (PPS): 10 pps 	
 Outgoing Rotary Digit Dial Make: 40 ms¹² 	
 Outgoing Rotary Digit Dial Break: 60 ms 	
 Outgoing Rotary Dial Interdigit: 700 ms 	
 Incoming Seizure: 100 ms (E&M cont) 	
 Outgoing End-of-Dial: 10 sec 	
 Outgoing Seizure Response: 1 sec (E&M cont, 	, dis)

If connected to a 20-pps system, then set the Outgoing Rotary Digit Dial Make and Outgoing Rotary Digit Dial Break times to 20 and 30 ms, respectively.

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- Disconnect Signal Error: 2 sec (E&M cont) Disconnect Signal Error: 1 sec (E&M dis)
- Incoming Partial Dial: 15 sec

Digital Trunk Administration

This section does not list all possible valid administrable combinations. Rather the most common or standard combination, compatible with public-network and Type Approval standards for each country, is presented:

- CO Trunks
 - DS1 Administration Screen
 - Circuit Pack: TN464D (Not entered as administrable item; TN464C from upgrades)
 - Bit Rate: 2.048
 - Interface Companding: A-law
 - Line Coding: HDB3
 - Signaling Mode: CAS
 - Country Protocol: 4
 - Interconnect: CO
 - CRC?: No
 - Idle Code: 01010100
 - Trunk Group Administration Screen (Timing) Digital trunk timing values should be set as for analog CO trunks.
- DID Trunks
 - DS1 Administration Screen
 - Circuit Pack: TN464D (or TN464C,B)
 - Bit Rate: 2.048
 - Interface Companding: A-law
 - Line Coding: HDB3
 - Signaling Mode: CAS
 - Country Protocol: 4
 - Interconnect: CO
 - CRC?: No
 - Idle Code: 01010100
 - Trunk Group Administration Screen (Timing) Digital trunk timing values should be set as for analog DID trunks.

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- Tie Trunks
 - Non-ISDN Signaling Example (DS1 Administration screen)
 - Group Type: tie
 - Circuit Pack: TN464D (or TN464C,B)
 - Bit Rate: 2.048
 - Interface Companding: A-law
 - Line Coding: HDB3
 - Signaling Mode: CAS
 - Country Protocol: 4
 - Interconnect: pbx
 - CRC?: no
 - Idle Code: 01010101
 - Trunk Group Administration Screen (Timing)

Set the following timers from the Administrable Timers screen during administration of each trunk group. Select the following tie trunk timer values for this country:

- Incoming Disconnect: 50 ms
- Outgoing Disconnect: 50 ms
- Incoming Dial Guard: 70 ms
- Outgoing Dial Guard: 1000 ms
- Incoming Glare Guard: 200 ms
- Outgoing Glare Guard: 200 ms
- Outgoing Dial Pulse Rate (PPS): 10 pps
- Outgoing Rotary Digit Dial Make: 50 ms
- Outgoing Rotary Digit Dial Break: 50 ms
- Outgoing Rotary Dial Interdigit: 700 ms
- Incoming Seizure: 100 ms
- Outgoing Seizure Response: 60 sec
- Disconnect Signal Error: 255 sec
- Incoming Partial Dial: 6 sec
- ISDN-PRI (Private Network) Signaling

This example assumes use of US Option 1 with facility associated signaling. Other feature options will require changes in one or more administered items.

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- Circuit Pack: TN464D (or TN464C,B from upgrades)
- Bit Rate: 2.048
- Interface Companding: A-law
- Line Coding: HDB3
- Signaling Mode: isdn-pri
- Country Protocol: 4
- Connect: pbx
- Interface: user
- CRC: No
- Idle Code: 01010101
- Signaling Group screen
 - Associated Signaling: Yes
 - Primary D_Channel: xxxx16 (xxxx=>depends on CP physical location)
- Trunk Group Administration screen
 - Group Type: isdn-pri
 - Service Type: tie
- ISDN-PRI (Public Network) Not available in this country.

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Japan

Table 39 shows the recommended circuit packs.

Table 39. Recommended and Available CPs in Japan

Equipment	Equipment Type
Cabinet Type & Power	GAC-MCC AC-MCC DC-MCC AC-SCC DC-SCC AC-CSCC AC-CMC
AC Power Voltage & Freq	100V/50Hz 100V/60Hz 200V/50Hz 200V/60Hz
Ring Generator	20Hz
Tone Detector	>TN2182B >TN744D TN748D TN756
Tone Clock	>TN2182B TN780 TN756
R2MFC Circuit	n/a
Speech Synthesizer	>TN725B
Call Classifier	>TN744D
Announcement	TN750C TN750B TN750
Analog DID Trunk	>TN429B
Analog CO Trunk (No PPM)	>TN429B TN465
Analog CO Trunk (w/PPM)	n/a
4 Wire Tie Trunk	>TN760D
2 Wire Tie Trunk	>TN439
Auxiliary Trunk	>TN763D TN763C
Digital CO/DID Trunk	>TN464F TN464E TN464D TN464C TN767
Digital Tie Trunk	>TN464F TN464E TN464D TN464C TN767 TN2242
Digital PRI CO Trunk	>TN464F TN464E TN464D TN464C TN2242
Digital BRI Trunk	>TN2185
Digital Converter PRI-DASS	
Digital Converter PRI-DPNSS	
Digital Converter PRI-BRI	
8 Port Analog Line	TN742

Equipment	Equipment Type	
16 Port Analog Line	>TN746B TN479	
24 Port Analog Line	TN2793	
4 Wire Digital Line	>TN754B	
2 Wire Digital Line	#TN2224 >TN2181	
Data Line	>TN726B	
BRI-U Line		
BRI-ST Line		
	1	

Table 39. Recommended and Available CPs in Japan — Continued

Feature Administration

The screen displays shown in this section were effective the date the type approval was awarded. The screens may have changed since that date.

Only those feature-related parameters that may have a Type Approval or basic connectivity implication for a particular country are listed here.

ARS/AAR Administration

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To enable ARS administration, on the System-Parameters Customer-Options screen, set the ARS field to **y**. You also should check all ARS/AAR defaults. All default ARS analysis codes are deleted before dialed strings are added for routing when DEFINITY is installed outside of North America. Be aware that the default for the 10 digits cause dialing problems. In particular, the following call types (appear as ARS/AAR defaults) typically are not used in non-North American ARS/AAR tables:

fnpa:	North American numbers with an area code.	
hnpa: North American numbers without an area code.		
svc: North American numbers of the screen "x11".		

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Luccent recommends only the following call types be used outside North America:

int:	For all international numbers.	
natl: For all national PN numbers.		
pubu: For all other external (that is, not extensions) numbers		

System Parameter Administration

Only those feature-related parameters that may have a Type Approval or basic connectivity implication for a particular country are listed here.

- Feature-Related System Parameters Administration
 - Trunk-to-Trunk Transfer: Permitted by country's regulations -Selection is customer's choice.
 - Public Network Trunks on Conference Call: 5
 - Conference Parties With PNTs: 6
 - Conference Parties Without PNTs: 6
 - Line Intercept Tone Timer: 30
 - Night Service Disconnect Timer: 180 sec
 - Short Interdigit Timer: 3 sec
 - Unanswered DID Call Timer: 60
 - Auto-Hold: Yes 13
 - Attendant Tone: Yes
 - Bridging Tone: No
 - Conference Tone: No
 - Intrusion Tone: Yes
 - Repetitive Call Waiting Tone: No
 - DID Busy Treatment: Attendant
 - Pull Transfer: No

13.

- Level of Tone Detection: Broadband
- Outpulse Without Tone: Yes
- (Station-to-switch) Recall Timing:
 - Flashhook Interval: Yes

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- Upper Bound: 1000 ms
- Lower Bound: 200 ms
- Country Options Parameters
 - Companding Mode: mu-law
 - Base Tone Generation Set: 3
 - Tone Detection Mode: default
 - Interdigit Pause: default
 - Digital Loss Plan: 3
 - Analog Ringing Cadence: 3

Analog Trunk Administration

- CO Trunks
 - Trunk Group Screen
 - Group Type: CO
 - Country Code: 3
 - Trunk Gain: high
 - Direction: two-way
 - Digit Absorption List: blank
 - Prefix-1: No
 - Trunk Type: loop-start
 - Outgoing Dial Type: tone
 - Trunk Termination: rc (complex impedance)
 - Auto Guard: no
 - Dial Access: Yes
 - Call Still Held: no
 - Terminal Balanced: yes
 - Receive Answer Supervision: no
 - Answer Supervision Timeout: 10 (This sets both the CP firmware timer and software timer. Set to 0 for any trunk that will receive answer supervision.)
 - Disconnect Supervision In: no

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- Disconnect Supervision Out: Selection is customer's choice.
- Disconnect Timing: 500 msec (This field will not be used with CPs that can accept the Incoming Disconnect and Outgoing Disconnect timers. Set these latter two timers from the Administrable Timers Screen.)
- Trunk Group Administration Screen (Timing)

Set the following timers from the Administrable Timers screen during administration of each trunk group. Select the following CO trunk timer values for this country:

- Incoming Disconnect: 500 ms
- Outgoing Disconnect: 500 ms
- Outgoing Dial Guard: 1600 ms
- Incoming Glare Guard: 1500 ms
- Outgoing Glare Guard: 1500 ms
- Outgoing Dial Pulse Rate (PPS): 10 pps
- Outgoing Rotary Digit Dial Make: 35 ms
- Outgoing Rotary Digit Dial Break: 65 ms
- Outgoing Rotary Dial Interdigit: 800 ms
- Ring Monitor Timer: 5200 ms
- Incoming Seizure: 500 ms
- Outgoing End-of-Dial: 10 sec
- Outgoing Seizure Response: 240 sec
- Programmed Dial Pause: 1500 ms
- Disconnect Signal Error: 240 sec
- End-To-End Signaling Pause: 150 ms (accept default)
- End-To-End Signaling Tone: 350 ms (accept default)
- Flash Length: 100 ms
- PPM: no
- DID Trunks
 - Trunk Group Screen
 - Group Type: DID
 - Country: 3
 - Trunk Gain: high
 - Digit Absorption List: blank

- Incoming Dial Type: tone
- Trunk Type: loop-start
- Trunk Termination: rc (complex impedance)
- Disconnect Supervision: no
- Disconnect Timing: 500 msec (This field will not be used with CPs that can accept the Incoming Disconnect and Outgoing Disconnect timers. Set these latter two timers from the Administrable Timers Screen.)
- Digit Treatment: blank
- Digits: blank
- Expected Digits: depends on system size and numbering plan
- Terminal Balanced: yes
- Extended Loop Range: (Used Only with TN459) no
- Drop Treatment: silence
- Incoming Rotary Timeout (sec): 5 sec (This field will not be used with CPs that can accept the Incoming Partial Dial timer. Set this timer from the Administrable Timers Screen.)
- Trunk Group Administration Screen (Timing)

Set the following timers from the Administrable Timers screen during administration of each trunk group. Select the following DID trunk timer values for this country:

- Incoming Disconnect: 500 ms
- Incoming Dial Guard: 50 ms
- Incoming Partial Dial: 18 sec
- Incoming Incomplete Dial: 255 sec
- Flash Length: 100 ms
- Tie Trunks

No special Type Approval regulations apply. Tie trunks are administered on a case-by-case basis.

Digital Trunk Administration

This section does not list all possible valid administrable combinations. Rather the most common or standard combination, compatible with public-network and Type Approval standards for each country, is presented:

CO Trunks

Not available in this country.

DID Trunks

Not available in this country.

- Tie Trunks
 - Non-ISDN Signaling Example (DS1 Administration Screen)
 - Circuit Pack: TN464D (or TN464C,TN767)
 - Bit Rate: 1.544
 - Interface Companding: mu-law
 - Line Coding: B8ZS
 - Line Compensation: 1
 - Framing Mode: esf
 - Signaling Mode: common-chan
 - Country Protocol: 1
 - CRC?: no
 - Idle Code: 11111111 (Idle code must contain at least 3 ones. Accept default.)
 - DMI-BOS? Yes
 - CAS Example (DS1 Administration Screen)
 - Circuit Pack: TN2242
 - Bit Rate: 2.048
 - Interface Companding: mu-law
 - Line Coding: cmi
 - Signaling Mode: cas
 - Country Protocol: 3
 - Idle Code: 11111111 (Idle code must contain at least 3 ones. Accept default.)
 - ISDN-PRI (Private Network) Signaling

This example assumes use of US Option 1 with facility associated signaling. Other feature options will require changes in one or more administered items.

- DS1 Administration screen
 - Circuit Pack: TN464D (or TN464C from upgrades)
 - Bit Rate: 2.048
 - Interface Companding: A-law
 - Line Coding: HDB3
 - Signaling Mode: isdn-pri

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- Country Protocol: 1
- Connect: pbx
- Interface: user
- CRC: No
- Idle Code: 11111111
- DS1 Administration screen
 - Circuit Pack: TN2242
 - Interface Companding: mu-law
 - Line Coding: cmi
 - Signaling Mode: isdn-pri
 - Country Protocol: 3
 - Connect: pbx
 - Interface: user
 - Idle Code: 11111111
 - D-Channel: 1-3D (must match Signaling Group screen)
- Signaling Group screen
 - Associated Signaling: Yes
 - Primary D_Channel: xxxx16 (xxxx=>depends on CP physical location)
- Signaling Group screen
 - Associated Signaling: Yes
 - Primary D_Channel: xxxxyy (xxxx=>depends on CP physical location; yy=>depends on D-channel administered on DS1 screen)
- Trunk Group Administration screen
 - Group Type: isdn-pri
 - Service Type: tie
- ISDN-PRI (Public Network)
- DS1 Administration screen
 - Circuit Pack: TN464C
 - Bit Rate: 1.544
 - Interface Companding: mu-law
 - Line Coding: B8ZS
 - Line Compensation: 1

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Framing Mode: esf	
 Signaling Mode: isdn-pri 	
 Country Protocol: 3 	

- Connect: Network
- DMI-BOS? Yes
- Idle Code: 11111111
- Signaling Group screen
 - Associated Signaling: Yes
 - Primary D_Channel: xxxx16 (xxxx=>depends on CP physical location)
- Trunk Group Administration screen
 - Group Type: isdn-pri
 - Service Type: public_ntwrk

2Mbit Trunk (TN2242)

The following outlines the required administration parameters for this interface to operate in Japan.

- Trunk Group screen
 - Trunk Type (in/out): wink, delay, immed (all permutations)
 - Trunk Signaling Type: blank
 - Answer Supervision Timeout: 0
 - Receive Answer Supervision: y
 - Disconnect Supervision-In: y
 - Disconnect Supervision-Out: y
 - Incoming Dial Type: tone, rotary, mf (to other DEFINITYs only)
 - Wink Timer (msec): 300 (when the Trunk Type (in/out) field is wink), 4500 (when the Trunk Type (in/out) field is delay)
- Trunk Group Administration screen (Timing)
 - Incoming Disconnect (msec): 100
 - Incoming Glare Guard (msec): 800 or higher
 - Incoming Dial Guard (msec): 10
 - Incoming Partial Dial (sec): 18
 - Incoming Incomplete Dial Alarm (sec): 25 or higher
 - PPS: 10, 20

- Make (msec): 35 (when the PPS field is 10), 15 (when the PPS field is 20)
- Break (msec): 65 (when the PPS field is 10), 35 (when the PPS field is 20)
- Outgoing Disconnect (msec): 100
- Outgoing Glare Guard (msec): 800 or higher
- Outgoing Rotary Dial Interdigit (msec): 800
- Outgoing Seizure Response (sec): 5

Incoming Call Line Identification on Analog Trunks

Incoming Call Line Identification (ICLID) provides you with the calling party name and number received from the central office (CO). This occurs on a CO loop-start, DID, or DIOD trunk in Japan.

How to Administer ICLID

To start ICLID, perform the following:

- 1. On System-Parameters Customer-Options form, set the Analog Trunk Incoming Call ID field to y.
- 2. On Trunk Group form, set the:
 - Group Type field to co, did, or diod.
 - Receive Analog Incoming Call ID field to NTT.
 - Direction field is incoming or two-way.
- 3. On Administrable Timers section, set the Incoming Seizure (msec) to 120.

To stop ICLID, perform the following:

- 1. On System-Parameters Customer-Options form, set the Analog Trunk Incoming Call ID field to **n**.
- 2. On Trunk Group form, set the Receive Analog Incoming Call ID field to disable.

Hardware Requirement

TN429D CO Trunk circuit pack or later configuration

Detailed Description

In the US, the CO sends both calling party name and number, if they are available; in Japan, the CO sends only the calling party number.

Display of calling party information works with all DEFINITY ECS digital voice terminals (DCP and BRI) equipped with a 40-character or 32-character alphanumeric display. The analog voice terminals supported are the 7315H and 7317H series (System 25/MERLIN sets supported by DEFINITY).

For the ICLID on analog trunks, DEFINITY ECS stores and displays 15 characters of name and number information. If a name/number is longer than 15 characters, the name/number truncates to 15 characters.

In the absence of caller ID information, or in the case of a CO transmission error, the trunk group name and trunk access code display.

Interactions

Attendant Display Features

A redirected call to either the attendant or attendant queue causes the display on the attendant's station to read similar to that of the connected party station display.

Automatic Display of Incoming Call Identification

If a new call comes in while the station user is off-hook and connected to a call, the display automatically shows the new incoming call identity for 30 seconds. After 30 seconds, the display returns to the selected call. If the call redirects after a few rings, the display returns to the selected call. If an incoming call drops and that call currently displays, the display returns to the selected call.

Bridged Call

Incoming call identity displays on both the primary station and the bridged station.

Call Forwarding

Forwarded-From Station Display — no information displays on the called principal's station.

Forwarded-To Station Display — shows the identity of the calling and called party and the reason (R) code. If the forwarded-to station is on a different switch, the called party information does not forward.

Call Pickup

Called Party Station Display — shows the calling party's identity.

Answering Party Station Display — If Call Pick-Up answers an ICLID call, the display shows both the calling party and the called principal's identities.

Call Coverage

Called Principal's Display — The called principal's display shows the calling party's identity until the coverage party answers the call. If the coverage party answers the call, the principal's station display becomes blank. If the called principal temporarily bridges in after the coverage party answers the call, then the coverage party and the called principal's displays change to indicate a conference call.

Coverage User Station Display — The coverage user's station display shows the same display as the connected party station display.

Call Vector Routing

When an ICLID call coming from analog trunks transfers to a Vector Directory Number (VDN), the incoming calling number is directed to VDN so call vector routing can be based on the ICLID information.

The ANI received for the incoming call (via inband or ISDN) forwards with a route-to step over a trunk that supports ANI delivery (inband or ISDN).

DCS Feature Interaction

If the DEFINITY ECS has both DCS and ISDN display features, the ICLID information displays in DCS formats.

Hold

When activated, the display becomes blank. The party activating the Hold reads the newly connected party's identity. The held station's display remains unchanged. When the party unholds, the display refreshes to indicate the call's current state.

Malicious Call Trace

When activated for a particular call, MCT displays incoming calling numbers to controller stations.

Tandem Operations

The calling party name/number passes to the terminating switch over ISDN trunks with DCS+.

Transfer

When an ICLID call transfers, the display of the transferred-from station becomes blank. The transferred-to station displays the identity of the transferred-from party if the transfer is not yet completed. Once the transfer completes, the transferred-to station displays the identity of the calling party.

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Macedonia

Table 40 shows the recommended circuit packs.

Table 40. Recommended and Available CPs in Macedonia

Equipment	Equipment Type
Cabinet Type & Power	GAC-MCC AC-MCC DC-MCC AC-SCC DC-SCC AC-CSCC
AC Power Voltage & Freq	220V/50Hz
Ring Generator	20Hz
Tone Detector	>TN2182B >TN744D
Tone Clock	>TN2182B
R2MFC Circuit	
Speech Synthesizer	>TN457
Call Classifier	>TN744D
Announcement	TN750C TN750B
Analog DID Trunk	
Analog CO Trunk (No PPM)	
Analog CO Trunk (w/PPM)	
4 Wire Tie Trunk	
2 Wire Tie Trunk	
Auxiliary Trunk	
Digital CO/DID Trunk	>TN464Fv5
Digital Tie Trunk	>TN464Fv5
Digital PRI CO Trunk	
Digital BRI Trunk	
Digital Converter PRI-DASS	
Digital Converter PRI-DPNSS	
Digital Converter PRI-BRI	
8 Port Analog Line	n/a
16 Port Analog Line	>TN746B
24 Port Analog Line	n/a

Equipment	Equipment Type
4 Wire Digital Line	>TN754B
2 Wire Digital Line	#TN2224 >TN2181
Data Line	>TN726B
BRI-U Line	
BRI-ST Line	

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Malaysia

Table 41 shows the recommended circuit packs.

Table 41. Recommended and Available CPs in Malaysia

Equipment	Equipment Type
Cabinet Type & Power	GAC-MCC DC-MCC AC-SCC DC-SCC AC-CSCC AC-CMC
AC Power Voltage & Freq	240V/50Hz
Ring Generator	20Hz
Tone Detector	>TN2182B >TN744D
Tone Clock	>TN2182B TN780
R2MFC Circuit	>TN744D TN744B
Speech Synthesizer	>TN725B TN457
Call Classifier	>TN744D
Announcement	TN750C TN750B
Analog DID Trunk	TN753
Analog CO Trunk (No PPM)	>TN747B
Analog CO Trunk (w/PPM)	#TN465C
4 Wire Tie Trunk	>TN760D
2 Wire Tie Trunk	n/a
Auxiliary Trunk	>TN763D
Digital CO/DID Trunk	>TN2464
Digital Tie Trunk	>TN2464
Digital PRI CO Trunk	TN2464
Digital BRI Trunk	TN2185
Digital Converter PRI-DASS	n/a
Digital Converter PRI-DPNSS	n/a
Digital Converter PRI-BRI	
8 Port Analog Line	n/a
16 Port Analog Line	>TN746B
24 Port Analog Line	n/a

Table 41. Recommended and Available CPs in Malaysia

Equipment	Equipment Type
4 Wire Digital Line	>TN754C
2 Wire Digital Line	#TN2214 >TN2181
Data Line	>TN726B
BRI-U Line	
BRI-ST Line	

Continued on next page

Trunk Group Administration

CO Trunk Group Administration

Page 1 of 10 TRUNK GROUP Group Type: co COR: 50 TN: 1 TAC: 801 COR: 50 COR: 5 Group Number: 1 Group Type: co Group Name: OUTSIDE CALL COR: 50 Direction: two-way Outgoing Display? n Dial Access? y Busy Threshold: 99 Queue Length: 0 Country: 6 Comm Type: voice Prefix-1? y Trecht Night Service: 200 Incoming Destination: 200 Digit Absorption List: Trunk Flash? n Toll Restricted? n TRUNK PARAMETERS Trunk Type: loop-start Outgoing Dial Type: tone Cut-Through? n Trunk Termination: 600ohm Disconnect Timing(msec): 500 Auto Guard? n Call Still Held? n Sig Bit Inversion: none Terminal Balanced? y Trunk Gain: high Disconnect Supervision - In? n Out? n Cyclical Hunt? n Answer Supervision Timeout: 10 Receive Answer Supervision? n

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```
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TRUNK FEATURES

ACA Assignment? n Measured: none

Maintenance Tests? y

Data Restriction? n

Abandoned Call Search? n

Suppress # Outpulsing? n

Charge Conversion: 1

Decimal Point: none

Currency Symbol:

Charge Type: units
```

```
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                                   TRUNK GROUP
ADMINISTRABLE TIMERS
   Incoming Disconnect(msec): 500
                                               Outgoing Disconnect (msec): 500
                                               Outgoing Dial Guard (msec): 1600
 Incoming Glare Guard (msec): 1500
                                             Outgoing Glare Guard (msec): 1500
                                   Outgoing Rotary Dial Interdigit (msec): 800
     Ringing Monitor (msec): 5200
                                                 Incoming Seizure (msec): 50
 Outgoing End of Dial (sec): 10
                                         Outgoing Seizure Response (sec): 5
Programmed Dial Pause (msec): 1500
         Flash Length(msec): 540
END TO END SIGNALING
                     Pause (msec): 150
    Tone (msec): 350
OUTPULSING INFORMATION
    PPS: 10 Make (msec): 35 Break (msec): 65 PPM? n
```

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System Parameters Country-Options

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	SYSTEM PARAMETERS COUNTRY-OPTIONS
	Companding Mode: Mu-LawBase Tone Generator Set: 1440Hz PBX-dial Tone? n440Hz Secondary-dial Tone? nDigital Loss Plan: 6440Hz PBX-dial Tone? n
	Analog Ringing Cadence: 6Set Layer 1 timer T1 to 30 seconds? nAnalog Line Transmission: 2Enhanced 84xx Display Character Set? n
	TONE DETECTION PARAMETERS Tone Detection Mode: 6 Interdigit Pause: short

(
			Page 2 of	21
	SYSTEM	PARAMETERS COUNTRY-	OPTIONS	
Tone Name	Cadence Step	Tone (Frequency/Level)		
secondary-dial	1:		Duration(msec): 200	
	3:			
	4:			
	5: 6:			
	6. 7:			
	8:			
	9:			
	10:			
	11:			
	12:			
	13:			
	14:			
	15:			

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			rage	2 01 2
	SYSTEM	PARAMETERS COUNTRY-	OPTIONS	
Tone Name	Cadence	Tone		
	Step	(Frequency/Level)		
ringback	1:	42/-11.0	Duration(msec):	400
	2:	silence	Duration(msec):	200
	3:	425/-11.0	Duration(mc):	400
	4:	silence	Duration(msec):	2000
	5:	goto	Step:	1
	6:			
	7:			
	8:			
	9:			
	10:			
	11:			
	12:			
	13:			
	14:			
	15:			

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Mexico

Table 42 shows the recommended circuit packs.

Table 42. Recommended and Available CPs in Mexico

Equipment	Equipment Type
Cabinet Type & Power	GAC-MCC AC-MCC DC-MCC AC-SCC DC-SCC AC-CSCC AC-CMC
AC Power Voltage & Freq	127V/60Hz 220V/60Hz
Ring Generator	20Hz
Tone Detector	>TN2182B >TN744D TN748D TN756
Tone Clock	>TN2182B TN780 TN756
R2MFC Circuit	>TN744D TN744B
Speech Synthesizer	>TN725B
Call Classifier	>TN744D
Announcement	TN750C TN750B TN750
Analog DID Trunk	n/a
Analog CO Trunk (No PPM)	>TN747B
Analog CO Trunk (w/PPM)	#TN465C >TN465B
4 Wire Tie Trunk	>TN760D
2 Wire Tie Trunk	
Auxiliary Trunk	>TN763D TN763C
Digital CO/DID Trunk	>TN464F
Digital Tie Trunk	>TN464F TN464E TN464D TN464C
Digital PRI CO Trunk	n/a
Digital BRI Trunk	
Digital Converter PRI-DASS	
Digital Converter PRI-DPNSS	
Digital Converter PRI-BRI	
8 Port Analog Line	TN742
16 Port Analog Line	>TN746B
24 Port Analog Line	n/a

Equipment	Equipment Type
4 Wire Digital Line	>TN754B
2 Wire Digital Line	#TN2224 >TN2181
Data Line	>TN726B
BRI-U Line	
BRI-ST Line	

Table 42. Recommended and Available CPs in Mexico — Continued



A-law companding is the national standard in Mexico. However, Mu-law is used internally to the system for service circuits and analog lines. Network interfaces are configured as A-law if required.

Feature Administration

The screen displays shown in this section were effective the date the type approval was awarded. The screens may have changed since that date.

Only those feature-related parameters that may have a Type Approval or basic connectivity implication for a particular country are listed here.

ARS/AAR Administration

To enable ARS administration, on the System-Parameters Customer-Options screen, set the ARS field to **y**. You also should check all ARS/AAR defaults. All default ARS analysis codes are deleted before dialed strings are added for routing when DEFINITY is installed outside of North America. Be aware that the default for the 10 digits cause dialing problems. In particular, the following call types (appear as ARS/AAR defaults) typically are not used in non-North American ARS/AAR tables:

fnpa:	North American numbers with an area code.
hnpa:	North American numbers without an area code.
SVC:	North American numbers of the screen "x11".

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Lucent recommends only the following call types be used out America:	side North

int: For all international numbers.	
natl:	For all national PN numbers.
pubu:	For all other external (that is, not extensions) numbers.

System Parameter Administration

Only those feature-related parameters that may have a Type Approval or basic connectivity implication for a particular country are listed here.

- Feature-Related System Parameters Administration
 - Trunk-to-Trunk Transfer: Permitted by country's regulations -Selection is customer's choice.
 - Public Network Trunks on Conference Call: 5
 - Conference Parties With PNTs: 6
 - Conference Parties Without PNTs: 6
 - Line Intercept Tone Timer: 30
 - Night Service Disconnect Timer: 180 sec
 - Short Interdigit Timer: 3 sec
 - Unanswered DID Call Timer: 60
 - Auto-Hold: Yes 14
 - Attendant Tone: Yes
 - Bridging Tone: No
 - Conference Tone: No
 - Intrusion Tone: Yes
 - Repetitive Call Waiting Tone: No
 - DID Busy Treatment: Attendant
 - Pull Transfer: No

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- Level of Tone Detection: Precise
- Outpulse Without Tone: No
- (Station-to-switch) Recall Timing:
 - Flashhook Interval: Yes

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- Upper Bound: 1000 ms
- Lower Bound: 200 ms
- System Parameter Multifrequency Signaling Administration
 - Incoming Call Type: group-ii-mfc
 - Outgoing Call Type: group-ii-mfc
 - Test Call Extension: As negotiated
 - Incoming Interdigit Timer: 15 sec
 - Incoming Signal Types:

G	ROUP-I	GROUP-II	GROUP-A	GROUP-B
Us	se defaults	Use defaults	Use defaults	1: free
				2: busy
				4: congestion
				5: intercept

— Outgoing Signal Types:

GROUP-I	GROUP-II	GROUP-A	GROUP-B
Use defaults	2: normal	1: next-digit	1: free
	2:attendant	2: restart	2: busy
	2: data-call	3: end-of-dial	3: congestion
		4: congestion	4: congestion
		5: congestion	5: intercept
		6: congestion	6: congestion
		7: congestion	7: congestion
		8: congestion	8: congestion
		9: congestion	9: congestion
		10: congestion	10: congestion
		11: congestion	11: congestion
		12: congestion	12: congestion
		13: congestion	13: congestion
		14: congestion	14: congestion
		15: congestion	15: congestion

- **Country Options Parameters**
 - Companding Mode: mu-law
 - \blacksquare NOTE:

Companding Mode: A-law is the national standard. Mu-law is used internal to the system for service circuits and analog lines. Network interfaces are configured as A-law if required.

- Base Tone Generation Set: 1
- Tone Detection Mode: 6
- Interdigit Pause: short
- Digital Loss Plan: 1
- Analog Ringing Cadence: 1
- Customized Individual Tones Customized tone definitions follow the syntax as specified: [(Frequency/Level)|silence|goto)][(Duration ms)|(Step)]
- Busy:
 - (350+425/-4)(250)
 - (silence)(250)
 - (goto)(1)
- Secondary Dial Tone:
 - (425/-4)(1000)
 - (goto)(1)
- Intrusion Tone:
 - (425/-4)(500)
 - (silence)(150)
 - (425/-4)(150)
 - (silence)(150)
 - (goto)(1)
- 1-Call Wait:
 - (425/-4)(200)
 - (silence)(600)
 - (425/-4)(200)

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— 2-Call Wait:

- (425/-4)(200)
- (silence)(600)
- (425/-4)(200)

Analog Trunk Administration

- CO Trunks
 - Trunk Group Screen
 - Group Type: CO
 - Country: 7
 - Trunk Gain: high
 - Direction: two-way
 - Digit Absorption List: blank
 - Prefix-1: No
 - Trunk Type: loop-start
 - Outgoing Dial Type: Pulse
 - Trunk Termination: rc (complex impedance)
 - Auto Guard: no
 - Dial Access: Yes
 - Call Still Held: no
 - Terminal Balanced: yes
 - Receive Answer Supervision: no
 - Answer Supervision Timeout: 10 (This sets both the CP firmware timer and software timer. Set to 0 for any trunk that will receive answer supervision.)
 - Disconnect Supervision In: no
 - Disconnect Supervision Out: Selection is customer's choice.
 - Disconnect Timing: 500 ms (This field will not be used with CPs that can accept the Incoming Disconnect and Outgoing Disconnect timers. Set these latter two timers from the Administrable Timers Screen.)
 - Trunk Group Administration Screen (Timing)

Set the following timers from the Administrable Timers screen during administration of each trunk group. Select the following CO trunk timer values for this country:

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Application Notes for Type Approval Mexico Incoming Disconnect: 500 m Outgoing Disconnect: 500 m Outgoing Dial Guard: 1600 n Incoming Glare Guard: 1500 Outgoing Glare Guard: 1500 Outgoing Glare Guard: 1500 Outgoing Dial Pulse Rate (Pf Outgoing Rotary Digit Dial M Outgoing Rotary Digit Dial B Outgoing Rotary Digit Dial Interdig Ring Monitor Timer: 5200 ms Incoming Seizure: 500 ms Outgoing End-of-Dial: 10 sec	316 ns ns ns 0 ms 0 ms 0 ms 0 ms 0 ms 0 ms 0 ms 0 m	
Programmed Dial Pause: 150Disconnect Signal Error: 240		
Disconnect Signal Error: 240Flash Length: 100 ms) sec	
PPM: YesFrequency: 16kHz		

DID Trunks

Analog DID trunks are not provided at present for Mexico.

Analog Tie Trunks

No specific Type Approval requirements apply to tie trunk administration.

Digital Trunk Administration

This section does not list all possible valid administrable combinations. Rather the most common or standard combination, compatible with public-network and Type Approval standards for each country, is presented:

- CO Trunks
 - DS1 Administration Screen
 - Circuit Pack: TN464D (Not entered as administrable item)
 - Bit Rate: 2.048
 - Interface Companding: A-law
 - Line Coding: HDB3
 - Signaling Mode: CAS

Application Notes for Type Approval *Mexico*

- Country Protocol: 7
- Interconnect: co
- CRC?: No
- Idle Code: 11111111

 Trunk Group Administration Screen (Timing) Digital trunk timing values should be set as for analog CO trunks.

- DID Trunks
 - DS1 Administration screen
 - Circuit Pack: TN464D (Not entered as administrable item)
 - Bit Rate: 2.048
 - Interface Companding: A-law
 - Line Coding: HDB3
 - Interconnect: co
 - Signaling Mode: CAS
 - Country Protocol: 7
 - CRC?: No
 - Idle Code: 11111111
- Tie Trunks
 - Mexico Two-Way Operation
 - DS1 Administration screen
 - Circuit Pack: TN464Dv.2 or greater
 - Bit Rate: 2.048
 - Interface Companding: A-law
 - Line Coding: HDB3
 - Signaling Mode: CAS
 - Country Protocol: 7
 - Interconnect: pbx or CO
 - CRC?: no
 - Idle Code: 11111111
 - Trunk Group Administration screen
 - Group Type: tie
 - U.S.A. Tie Operation (DS1 Administration screen)
 - Circuit Pack: TN464D (or TN464C)
 - Bit Rate: 2.048

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 Interface Companding: A-law 	
Line Coding: HDB3	
 Signaling Mode: CAS 	
 Country Protocol: 1 	
 Interconnect: pbx 	
CRC?: no	
Idle Code: 1111111	
 ISDN-PRI (Private Network) Signaling 	
This example assumes use of US Option 1 with facility associated signaling. Other feature options will require changes in one or mo	

Circuit Pack: TN464D (or TN464C,B from upgrades)

Primary D_Channel: xxxx16 (xxxx=>depends on CP

ISDN-PRI (Public Network)

administered items.

DS1 Administration screen

Bit Rate: 2.048

Line Coding: HDB3

Country Protocol: 1

Connect: pbx
Interface: user

CRC: No

- Signaling Group screen

Signaling Mode: isdn-pri

Idle Code: 11111111

physical location)
Trunk Group Administration screen
Group Type: isdn-pri
Service Type: tie

Associated Signaling: Yes

Interface Companding: A-law

Not available for this country.

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Netherlands

Table 43 shows the recommended circuit packs.

Table 43. Recommended and Available CPs in the Netherlands

Equipment	Equipment Type
Cabinet Type & Power	GAC-MCC DC-MCC AC-SCC AC-CSCC AC-CMC
AC Power Voltage & Freq	220V/50Hz
Ring Generator	25Hz
Tone Detector	>TN2182B >TN744D TN420C
Tone Clock	>TN2182B TN780
R2MFC Circuit	n/a
Speech Synthesizer	>TN457
Call Classifier	>TN744D
Announcement	TN750C TN750B
Analog DID Trunk	>TN2146
Analog CO Trunk (No PPM)	>TN2147C
Analog CO Trunk (w/PPM)	n/a (See note 1 that follows this table.)
4 Wire Tie Trunk	>TN760Dv11 (See note 2.)
2 Wire Tie Trunk	
Auxiliary Trunk	>TN763D
Digital CO/DID Trunk	>TN464F TN464E TN464D
Digital Tie Trunk	>TN464F TN464E TN464D
Digital PRI CO Trunk	>TN464F TN464E TN464D
Digital BRI Trunk	>TN2185
Digital Converter PRI-DASS	
Digital Converter PRI-DPNSS	
Digital Converter PRI-BRI	
8 Port Analog Line	n/a
16 Port Analog Line	#TN2183 >TN2144
24 Port Analog Line	n/a

Table 43. Recommended and Available CPs in the Netherlands — Continued
--

Equipment	Equipment Type
4 Wire Digital Line	>TN754B
2 Wire Digital Line	#TN2224 >TN2181 TN2136
Data Line	>TN726B
BRI-U Line	
BRI-ST Line	



Analog trunk (w/PPM) is not available. DEFINITY ECS does not support the required 50Hz.

NOTE:

TN760Dv11 or greater tie trunk requires an additional converter for CEPT-LI:Prescom TS-X1276.

Feature Administration

Only those feature-related parameters that may have a Type Approval or basic connectivity implication for a particular country are listed here.

ARS/AAR Administration

The DEFINITY ECS Administration and Feature Description contains a general discussion of ARS for international applications and an example of ARS administration for dial tone detection and for multi-level call restrictions.

In Netherlands, first dial tone detection is always required. Second dial tone detection for international access is not needed on DTMF trunks.

International access is 00+ and 09+.

System Parameter Administration

Feature-Related System Parameters Administration

The screen displays shown in this section were effective the date the type approval was awarded. The screens may have changed since that date.

- Trunk-to-Trunk Transfer: Permitted by country's regulations Selection is customer's choice.
- Off-Premises Tone Detect Timeout Interval: 10 sec
- Feature Parameters
 - Public Network Trunks on Conference Call: 5
 - Conference Parties With PNTs: 6
 - Conference Parties Without PNTs: 6
 - Line Intercept Tone Timer: 30
 - Night Service Disconnect Timer: 180 sec
 - Short Interdigit Timer: 3 sec
 - Unanswered DID Call Timer: 60
 - Auto-Hold: Yes Although not a Type Approval issue, this represents the convention for this country.
 - Attendant Tone: Yes
 - Bridging Tone: No
 - Conference Tone: No
 - Intrusion Tone: Yes
 - Repetitive Call Waiting Tone: No
 - DID Busy Treatment: Attendant
 - Pull Transfer: No
 - Level of Tone Detection: Medium
 - Outpulse Without Tone: No
 - (Station-to-switch) Recall Timing:
 - Flashhook Interval: Yes
 - Upper Bound: 1000 ms
 - Lower Bound: 200 ms

Country Options Parameters

Customized tone definitions are not required for entry on the Individual Tone Administration Screen.

- Companding Mode: A-law
- Base Tone Generation Set: 5 (Netherlands)
- Digital Loss Plan: 5 (Netherlands)

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- Tone Detection Mode: 5
- Dial Tone Validation Timer: 1050 ms.
- Interdigit Pause: long
- Analog Ringing Cadence: 5 (Netherlands)

System Parameter Multi-frequency Administration

- R2-MFC Test Call Extension: Not applicable to this country (accept default)
- MFC Interdigit Timer: Not applicable to this country (accept default).

Analog Trunk Administration

CO Trunks

- Trunk Group Screen
 - Group Type: CO
 - Dial Access: Yes
 - Country: 5
 - Direction: two-way (One-way incoming and outgoing are also available.)
 - Digit Absorption List: blank
 - Prefix-1: No
 - Flash Length: 100 ms (not applicable Netherlands digital trunk)

NOTE:

A toll fraud possibility exists if Register Recall (PCORR) feature is activated since no dialed digits restrictions are checked after PCORR flash.

- Trunk Type: loop-start
- Outgoing Dial Type: tone
- Trunk Termination: rc (complex Z).
- Disconnect Timing: 500 msec (This field will not be used with CPs that can accept the Incoming Disconnect and Outgoing Disconnect timers. Set these latter two timers from the Administrable Timers Screen.)
- Auto Guard: no
- Call Still Held: no
- Terminal Balanced: no

- RA Trunk Loss: 0dB
- Trunk Gain: high
- Receive Answer Supervision: no
- Answer Supervision Timeout: 10 (This sets both the CP firmware timer and software timer. Set to 0 for any trunk that will receive answer supervision.)
- Disconnect Supervision:
 - no for signaling type A
 - yes for signaling type B1
- Suppress # outpulsing: Yes
- Timing

Set the following timers from the Administrable Timers screen during administration of each trunk group. Select the following CO trunk timer values for this country:

- Incoming Disconnect: 500 ms. (not applicable accept default)
- Outgoing Disconnect: 500 ms. (not applicable accept default)
- Outgoing Dial Guard: 1600 ms
- Incoming Glare Guard: 1500 ms
- Outgoing Glare Guard: 1500 ms
- Outgoing Rotary Dial Interdigit: 800 ms.
- Outgoing Dial Pulse Rate (PPS): 10 pps.
- Outgoing Rotary Digit Dial Make: 40 ms.
- Outgoing Rotary Digit Dial Break: 60 ms.
- Ring Monitor Timer: 5200 ms.
- Incoming Seizure: 200 ms.
- Outgoing End-of-Dial: 10 sec.
- Outgoing Seizure Response: 5 (not needed in Netherlands but works and is useful - drops trunk, gives reorder if no response from far end)
- Programmed Dial Pause: 1500 msec.
- Disconnect Signal Error: 240 sec. This field does not appear for all trunk types.
- End-To-End Signaling Tone: 350 ms (accept default).
- End-To-End Signaling Pause: 150 ms (accept default).
- PPM: No

Application Notes for Type Approval *Netherlands*

DID Trunks

- Trunk Group Screen
 - Group Type: DID
 - Country: 5
 - Trunk Gain: high
 - Incoming Dial Type: rotary or tone as negotiated with serving central office.
 - Trunk Type: immed-start
 - Trunk Termination: rc (complex Z).
 - Disconnect Supervision: Yes
 - Disconnect Timing: 500 msec (This field will not be used with CPs that can accept the Incoming Disconnect and Outgoing Disconnect timers. Set these latter two timers from the Administrable Timers Screen.)
 - Digit Treatment: blank
 - Digits: blank
 - Expected Digits: depends on system size and numbering plan
 - Terminal Balanced: no (should be no for all countries)
 - RA Trunk Loss: 0dB
 - Extended Loop Range: (Used Only with TN459) no
 - Intercept Tone: no
 - Incoming Rotary Timeout (sec): 5 sec (This field will not be used with CPs that can accept the *Incoming Partial Dial* WCC timer. This timer will be set from the Administrable Timers Screen.)
- Timing

Set the following timers from the Administrable Timers screen during administration of each trunk group. Select the following DID trunk timer values for this country:

- Incoming Disconnect: 500 ms.
- Incoming Dial Guard: 70 ms. (set to minimum to get minimum start dial delay)
- Incoming Partial Dial: 18 sec. Does not appear for Tone signaling type.
- Flash Length: 100 ms.
- Incoming Incomplete Dial: 255 sec.

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Tie Trunks

Information regarding Type Approval-related settings currently is not available.

Digital Trunks

The following are the most common valid administrable combinations. They are compatible with public-network and Type Approval standards for each country.

CO Trunks

- DS1 Administration Screen¹⁵
 - Circuit Pack: TN464D (not entered as an administrable item)
 - Bit Rate: 2.048 (must match plug on circuit pack)
 - Cable impedance (plug on circuit pack): 75 *W
 - Interface Companding: A-law
 - Line Coding: HDB3
 - Signaling Mode: CAS
 - Country Protocol: 5 (Netherlands)
 - Interconnect: CO
 - CRC?: No
 - Idle Code: 01010100
 - Slip Detection: Y

Trunk Group Parameters

Digital trunk parameter values should be set as for analog CO trunks, with the following exception:

- PPM? yes
- Frequency: 50Hz/12kHz

DID Trunks

- DS1 Administration Screen
 - Circuit Pack: TN464D (not entered as an administrable item)
 - Bit Rate: 2.048
 - Cable impedance (plug on circuit pack): 75 *(W
 - Interface Companding: A-law
 - Line Coding: HDB3
- 15. DS 1 is also analogous to the term *E1* which has been coined for the European T1 or 2 mbit interface.

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- Signaling Mode: CAS
- Country Protocol: 5 (Netherlands)
- Interconnect: CO
- CRC?: No
- Idle Code: 01010100

Trunk Group Parameters

Digital trunk parameter values should be set as for analog DID trunks.

Tie Trunks

Non-ISDN Signaling Example

- DS1-Administration Screen
 - Circuit Pack: TN464D (not entered as an administrable item)
 - Bit Rate: 2.048
 - Cable impedance (plug on circuit pack): 75 *(W
 - Interface Companding: A-law
 - Line Coding: HDB3
 - Signaling Mode: CAS
 - Country Protocol: 5 (Netherlands)
 - Interconnect: pbx
 - CRC?: no
 - Idle Code: 01010100

ISDN PRI (Private Network) Signaling

This example assumes use of US Option 1 with facility associated signaling. Other feature options will require changes in one or more administered items.

- DS1 Administration screen
 - Circuit Pack: TN464D (not entered as an administrable item)
 - Bit Rate: 2.048
 - Cable impedance (plug on circuit pack): 75
 - Interface Companding: A-law
 - Line Coding: HDB3
 - Signaling Mode: isdn-pri
 - Country Protocol: 1 (US)
 - Connect: pbx

- Interface: user
- CRC: No
- Idle Code: 01010100
- Signaling Group screen
 - Associated Signaling: Yes
 - Primary D_Channel: xxxx16 (xxxx=>depends on CP physical location)
- Trunk Group Administration screen
 - Group Type: isdn-pri
 - Service Type: public_ntwrk

ISDN PRI (Public Network)

- Circuit Pack: TN464D (not entered as an administrable item)
- Bit Rate: 2.048
- Cable impedance (plug on circuit pack): 75
- Interface Companding: A-law
- Line Coding: HDB3
- Signaling Mode: isdn-pri
- Country Protocol: 5 (Netherlands)
- Connect: Network
- CRC: No
- Idle Code: 01010100
- Signaling Group screen
 - Associated Signaling: Yes
 - Primary D_Channel: xxxx16 (xxxx=>depends on CP physical location)
- Trunk Group Administration screen
 - Group Type: isdn-pri
 - Service Type: public_ntwrk

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New Zealand

Table 44 shows the recommended circuit packs.

Table 44. Recommended and Available CPs in New Zealand

Equipment	Equipment Type
Cabinet Type & Power	GAC-MCC DC-MCC AC-SCC DC-SCC AC-CSCC AC-CMC
AC Power Voltage & Freq	240V/50Hz
Ring Generator	20Hz
Tone Detector	>TN2182B >TN744D
Tone Clock	>TN2182B TN780
R2MFC Circuit	n/a
Speech Synthesizer	>TN457
Call Classifier	>TN744D
Announcement	TN750C TN750B
Analog DID Trunk	>TN436B TN436
Analog CO Trunk (No PPM)	TN2147C TN2147
Analog CO Trunk (w/PPM)	#TN465C >TN438B
4 Wire Tie Trunk	>TN437B TN437
2 Wire Tie Trunk	TN439
Auxiliary Trunk	>TN763D TN417
Digital CO/DID Trunk	>TN2464
Digital Tie Trunk	>TN2464
Digital PRI CO Trunk	TN2464
Digital BRI Trunk	>TN2185
Digital Converter PRI-DASS	n/a
Digital Converter PRI-DPNSS	TN-CCSC-2
Digital Converter PRI-BRI	n/a
8 Port Analog Line	TN2183
16 Port Analog Line	TN2215 #TN2183
24 Port Analog Line	TN2793

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Equipment	Equipment Type
4 Wire Digital Line	>TN754B TN413
2 Wire Digital Line	#TN2214 >TN2181
Data Line	>TN726B
BRI-U Line	
BRI-ST Line	TN556B

Table 44. Recommended and Available CPs in New Zealand

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Panama

Table 45 shows the recommended circuit packs.

Recommended and Available CPs in Panama Table 45.

Equipment	Equipment Type		
Cabinet Type & Power	GAC-MCC AC-MCC DC-MCC AC-SCC DC-SCC AC-CSCC AC-CMC		
AC Power Voltage & Freq	120V/60Hz 208V/60Hz 240V/60Hz		
Ring Generator	20Hz		
Tone Detector	>TN2182 >TN744C TN748D TN748C		
Tone Clock	>TN2182 TN780 TN768		
R2MFC Circuit	n/a		
Speech Synthesizer	>TN725B		
Call Classifier	>TN2182B, >TN2182 >TN744D >TN744C TN744B		
Announcement	#TN750C >TN750B TN750		
Analog DID Trunk	>TN753		
Analog CO Trunk (No PPM)	>TN747B		
Analog CO Trunk (w/PPM)	n/a		
4 Wire Tie Trunk	>TN760D		
2 Wire Tie Trunk	n/a		
Auxiliary Trunk	>TN763D TN763C TN763B		
Digital CO/DID Trunk	>TN464F TN464E TN464D TN767		
Digital Tie Trunk	>TN464F TN464E TN464D TN767 TN722B		
Digital PRI CO Trunk	>TN464F TN464E TN464D TN767		
Digital BRI Trunk			
Digital Converter PRI-DASS			
Digital Converter PRI-DPNSS			
Digital Converter PRI-BRI			
8 Port Analog Line	TN742		
16 Port Analog Line	>TN746B TN746		

Equipment	Equipment Type
24 Port Analog Line	n/a
4 Wire Digital Line	>TN754B
2 Wire Digital Line	>TN2224 TN2181
Data Line	>TN726B
BRI-U Line	TN2198
BRI-ST Line	TN556B

Table 45. Recommended and Available CPs in Panama — Continued

Feature Administration

The screen displays shown in this section were effective the date the type approval was awarded. The screens may have changed since that date.

Only those feature-related parameters that may have a Type Approval or basic connectivity implication for a particular country are listed here.

ARS/AAR Administration

To enable ARS administration, on the System-Parameters Customer-Options screen, set the ARS field to **y**. You also should check all ARS/AAR defaults. All default ARS analysis codes are deleted before dialed strings are added for routing when DEFINITY is installed outside of North America. Be aware that the default for the 10 digits cause dialing problems. In particular, the following call types (appear as ARS/AAR defaults) typically are not used in non-North American ARS/AAR tables:

fnpa:	North American numbers with an area code.
hnpa:	North American numbers without an area code.
SVC:	North American numbers of the screen "x11".

Lucent recommends only the following call types be used outside North America:

int:	For all international numbers.
natl:	For all national PN numbers.
pubu:	For all other external (that is, not extensions) numbers.

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Feature-Related System Parameters

Page 1 of 6 FEATURE-RELATED SYSTEM PARAMETERS Trunk-to-Trunk Transfer: all Coverage - Subsequent Redirection No Answer Interval: 2 Coverage - Caller Response Interval (seconds): 4 Keep Held SBA at Coverage Point? y Automatic Callback - No Answer Timeout Interval (rings): 3 Call Park Timeout Interval (minutes): 10 Off-Premises Tone Detect Timeout Interval (seconds): 20 AAR/ARS Dial Tone Required? y Music/Tone on Hold: none Music (or Silence) on Transferred Trunk Calls? no DID/Tie/ISDN Intercept Treatment: attd Internal Automatic Answer for Attendant Extended Calls? n Automatic Circuit Assurance (ACA) Enabled? n

2 of 6 Page FEATURE-RELATED SYSTEM PARAMETERS LEAVE WORD CALLING PARAMETERS Maximum Number of Messages Per Station (when MSA not in service):10 Stations with System-wide Retrieval Permission (enter extension) 1: 2: 3: 4: 5: 7: 9: 6: 8: 10: SEE USER DOCUMENTATION BEFORE CHANGING TTI STATE WARNING! Terminal Translation Initialization (TTI) Enabled? n External Coverage Treatment for Transferred Incoming Calls? n SECURITY VIOLATION NOTIFICATION (SVN) PARAMETERS HAVE MOVED TO THE SYSTEM-PARAMETERS SECURITY SCREEN

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FEATURE-RELATED SYSTEM PARAMETERS					
Reserved Slots for Attendant Priority Queue: Time before Off-hook Alert: Emergency Access Redirection Extension: Service Observing Warning Tone? Number of Emergency Calls Allowed in Attendant Queue: Call Pickup Alerting? Deluxe Paging and Call Park Timeout to Originator? Controlled Outward Restriction Intercept Treatment: tone Controlled Termination Restriction (Do Not Disturb): tone Controlled Station to Station Restriction: tone	10 y 5 n				
AUTHORIZATION CODE PARAMETERS Authorization Codes Enabled? Authorization Code Length: Authorization Code Cancellation Symbol: Attendant Time Out Flag? Display Authorization Code?	n				,

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FEATURE-RELA	ATED SYSTEM PARAMETERS
SYSTEM PRINTER PARAMETERS System Printer Extension	Lines Per Page: 60
SYSTEM-WIDE PARAMETERS Switch Name	
CALL CENTER SYSTEM PARAMETERS Direct Agent Announcement Extension	Direct Agent Announcement Delay:
Direct Agent Announcement Extension	Converse Delay Data1: 0 Data2: 2 n: Converse Pulse ON: 100 OFF: 70 Prompting Timeout (secs): 10
CALL MANAGEMENT SYSTEM PARAMETERS BCMS/VuStats Measurement Inter BCMS/VuStats Abandon Call Timer (secon ACD Login Identification Ler	nds): Validate Login IDs? n
MALICIOUS CALL TRACE PARAMETERS Apply MCT Warning Tone?	n MCT Voice Recorder Trunk Group:

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FEATURE-RELATED SYSTEM PARAMETERS			
	Start?		
	o Hold?		
Conference Parties without Public Network Trunks: 6 Attendan		-	
Night Service Disconnect Timer (seconds): 180 Bridgin	g Tone?	n	
Short Interdigit Timer (seconds): 3 Conferenc	e Tone?	n	
Unanswered DID Call Timer (seconds): Intrusio	n Tone?	n	
Line Intercept Tone Timer (seconds): 30			
DID Busy Treatment: tone			
Allow AAR/ARS Access from DID/DIOD? n			
DISTINCTIVE AUDIBLE ALERTING			
Internal: 1 External: 2 Priority: 3			
Attendant Originated Calls: exte	rnal		

Page 6 of 6 FEATURE-RELATED SYSTEM PARAMETERS Pull Transfer: n Update Transferred Ring Pattern? n Outpulse Without Tone? y Wait Answer Supervision Timer? n Repetitive Call Waiting Tone? n Allow Conference via Flash? y Vector Disconnect Timer (min): Network Feedback During Tone Detection? y Hear Zip Tone Following VOA? n Intercept Treatment On Failed Trunk Transfers? n Station Tone Forward Disconnect: silence Level Of Tone Detection: precise RECALL TIMING Flashhook Interval? y Upper Bound (msec): 1000 Lower Bound (msec): 200 ENHANCED DCS Enhanced DCS Enabled? n Apply Intercept Locally? y Enforce PNT-to-PNT Restrictions? n

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Multifrequency-Signaling-Related System Parameters

Page 1 of 3 MULTIFREQUENCY-SIGNALING-RELATED SYSTEM PARAMETERS Incoming Call Type: group-ii-mfc Outgoing Call Type: group-ii-mfc Maintenance Call Type: none Test Call Extension: Interdigit Timer (sec): 10 Outgoing Forward Signal Present Timer (sec): 15 Outgoing Forward Signal Absent Timer (sec): 30 Multifrequency Signaling Incoming Intercept Treatment? n Received Signal Gain(-Loss) (dB): 0 Transmitted Signal Gain(-Loss) (dB): -3 ANI Prefix: ANI for PBX: Next ANI Digit: send-ani ANI Prefix: Collect All Digits Before Seizure? n Request Incoming ANI (non-AAR/ARS)? n Called Party Category: user-type Use COR for Calling Party Category? n

Page 2 of 3 MULTIFREQUENCY-SIGNALING-RELATED SYSTEM PARAMETERS INCOMING FORWARD SIGNAL TYPES INCOMING BACKWARD SIGNAL TYPES (Tones from CO) (Tones to CO) Group-B 1: free 2: busy 4: congestion 7: interat Group-I 1: normal 2: normal 3: normal Group-II Group-A Group-A 1: next-digit 3: end-of-dial 4: congestion 5: send-ani 11: ignored
12: ignored 13: ignored 14: ignored 4: normal 5: send-ani 15: end-of-ani 5: normal 6: normal 7: normal 8: normal 9: normal 10: normal 11: normal 12: normal 13: normal 14: normal 15: normal

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Ν	MULTIFREQUENCY-SIGN	ALING-REL	ATED SYSTEM	PARAME	TERS		
OUTGOING FORWARD (Tones to CO)	SIGNAL TYPES		NG BACKWARD from CO)	SIGNAL	TYPES		
Group-I	Group-II	G	roup-A		Group-B		
	1: normal	1: ne	xt-digit	1:	free		
15: end-of-ani	2: attendant	2: la	st-digit	2:	busy		
	6: data-call	3: en	d-of-dial	3:	congestion	n	
		4: co	ngestion	4:	congestion	n	
		5: se	nd-ani	5:	congestion	n	
			tup-sppath		free		
		7: la	st-2-digits	7:	intercept		
		8: la	st-3-digits	8:	congestion	n	
		9: co	ngestion	9:	congestion	n	
		10: co	ngestion	10:	congestion	n	
		11: co	ngestion	11:	congestion	n	
		12: co	ngestion	12:	congestion	n	
		13: co	ngestion	13:	congestion	n	
		14: co	ngestion	14:	congestion	n	
		15: co	ngestion	15:	congestion	n	

System Parameters Country-Options

1		Page 1 of 7
	SYSTEM PARAMETERS	COUNTRY-OPTIONS
	Companding Mode: Mu-Law 440Hz PBX-dial Tone? n Digital Loss Plan: 1 Analog Ringing Cadence: 1	Base Tone Generator Set: 1 440Hz Secondary-dial Tone? n
	TONE DETECTION PARAMETERS Tone Detection Mode: 6 Interdigit Pause: short	

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CO Trunk Group Administration

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	TRUNK GROUP	
Group Number: Group Name: OUTSIDE CALL Direction: two-way O	Group Type: co COR: 1 utgoing Display? n	CDR Reports: y TN: 1 TAC:
Dial Access? n Queue Length: 0 Coun Comm Type: voice Prefix-1? n	Busy Threshold: 99	Night Service: Incoming Destination: Digit Absorption List: Toll Restricted? n
TRUNK PARAMETERS Trunk Type: loop-sta: Outgoing Dial Type: tone Trunk Termination: rc		Cut-Through? n ect Timing(msec): 500
Auto Guard? n Ca Terminal Balanced? n	all Still Held? n Si Trunk Gain: high	ig Bit Inversion: none RA Trunk Loss: Odb
Disconnect Supervision - In? n Answer Supervision Timeout: 10		Cyclical Hunt? n eive Answer Supervision? n

				Page 2	2 of 10	
TRUNK FEATURES ACA Assignment?	n	Measured:	none	Maintenance	Tests?	v
Abandoned Call Search? Suppress # Outpulsing?	n	Restriction?	n	Maintenance	16565:	У

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	TRUNK GROUP
ADMINISTRABLE TIMERS Incoming Disconnect(msec):	
Incoming Glare Guard(msec):	Outgoing Dial Guard(msec): 16001500Outgoing Glare Guard(msec): 1500
Ringing Monitor(msec): Outgoing End of Dial(sec): Programmed Dial Pause(msec): Flash Length(msec):	10 Outgoing Seizure Response(sec): 5 1500
END TO END SIGNALING Tone(msec): 350	Pause(msec): 150
OUTPULSING INFORMATION PPS: 10 Make(msec): 40	Break(msec): 60 PPM? n

						Page	4 of 10
				TRUNK GR	OUP		
GROUP I	MEMBER ASS	TONMENT	TC			rs (min/max): ered Members:	0 / 0 0
Port 1:	Code	Sfx	Name	Night	Mode	Туре	Ans Delay
2: 3:							

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DIOD Trunk Group Administration

Page 1 of 10 TRUNK GROUP Group Type: diod CDR Reports: COR: 1 TN: 1 TAC: Group Number: CDR Reports: y Group Name: OUTSIDE CALL Direction: two-way Outgoing Display? n Dial Access? n Busy Queue Length: 0 Country: 1 Busy Threshold: 99 Auth Code? n Digit Absorption List: Prefix-1? n Trunk Flash? n Toll Restricted? n TRUNK PARAMETERS Trunk Type: immed-start Outgoing Dial Type: mf Incoming Dial Type: mf Trunk Termination: rc Digit Treatment: Digits: Sig Bit Inversion: none Expected Digits: Terminal Balanced? n RA Trunk Loss: 0db Trunk Gain: high Drop Treatment: silence Disconnect Supervision - In? y Out? n Answer Supervision Timeout: 10 Receive Answer Supervision? n

Page 2 of 20 TRUNK FEATURES ACA Assignment? n Measured: none Data Restriction? n Suppress # Outpulsing? n Application Notes for Type Approval *Panama*

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	TRUNK GROUP	
ADMINISTRABLE TIMERS		
Incoming Disconnect(msec): 500	Outgoing Disconnect(msec):	500
Incoming Dial Guard(msec): 70	Outgoing Dial Guard(msec):	
Incoming Glare Guard(msec): 150	0 Outgoing Glare Guard(msec):	1500
Ringing Monitor(msec): 520	0 Incoming Seizure(msec):	500
Outgoing End of Dial(sec): 10	Outgoing Seizure Response(sec):	5
Programmed Dial Pause(msec): 150	0	
Flash Length(msec):	Incoming Incomplete Dial Alarm(sec):	255
END TO END SIGNALING		
Tone(msec): 350	Pause(msec): 150	
OUTPULSING INFORMATION		
PPS: 10 Make(msec): 40	Break(msec): 60 PPM? n	

Page 4 of 10 TRUNK GROUP Administered Members (min/max): 0/0 Total Administered Members: 0 Night Mode Type Ans Delay 1: 2: 3: DEFINITY® Enterprise Communications Server Application Notes for Type Approval

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DID Trunk Group Administration

Page 1 of 10 TRUNK GROUP Group Type: did CDR Reports: y COR: 1 TN: 1 TAC: Group Number: Group Name: OUTSIDE CALL Country: 1 Auth Code? n TRUNK PARAMETERS Trunk Type: immed-start Incoming Rotary Timeout(sec): 5 Incoming Dial Type: tone Trunk Termination: rc Disconnect Timing(msec): 500 Digit Treatment: Digits: Expected Digits: Sig Bit Inversion: none Terminal Balanced? n RA Trunk Loss: 0db Extended Loop Range? n Trunk Gain: high Drop Treatment: silence Disconnect Supervision - In? y

Page 2 of 10 TRUNK FEATURES ACA Assignment? n Measured: none Data Restriction? n Suppress # Outpulsing? n

Page 3 of 10 TRUNK GROUP ADMINISTRABLE TIMERS Incoming Disconnect(msec): 500 Incoming Dial Guard(msec): 70 Flash Length(msec): 540 Incoming Incomplete Dial Alarm(sec): 255 END TO END SIGNALING Tone(msec): 350 Pause(msec): 150 Application Notes for Type Approval *Panama*

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			TRUNK GROUP	
GROUP MEM	MBER ASSIGNME	INTS	Administered Members (min/max): Total Administered Members:	0 / 0 0
Port 1: 2: 3:	Code	Sfx	Name	

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Philippines

Table 46 shows the recommended circuit packs.

Table 46. Recommended and Available CPs in Philippines

Equipment	Equipment Type
Cabinet Type & Power	GAC-MCC DC-MCC AC-SCC DC-SCC AC-CMC
AC Power Voltage & Freq	220V/60Hz
Ring Generator	20Hz/25Hz
Tone Detector	>TN2182B >TN748D
Tone Clock	>TN2182B
R2MFC Circuit	TN744D
Speech Synthesizer	>TN457
Call Classifier	>TN744D
Announcement	TN750B
Analog DID Trunk	>TN753
Analog CO Trunk (No PPM)	TN747B
Analog CO Trunk (w/PPM)	n/a
4 Wire Tie Trunk	>TN760D
2 Wire Tie Trunk	n/a
Auxiliary Trunk	>TN763D TN763C
Digital CO/DID Trunk	>TN2464
Digital Tie Trunk	>TN2464
Digital PRI CO Trunk	TN2464
Digital BRI Trunk	>TN2185
Digital Converter PRI-DASS	n/a
Digital Converter PRI-DPNSS	TN-CCSC-2
Digital Converter PRI-BRI	n/a
8 Port Analog Line	n/a
16 Port Analog Line	#TN746B
24 Port Analog Line	TN2793

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14010 10. 100	commenta ea ana rivana pre er o m rimppineo
Equipment	Equipment Type

Table 46. Recommended and Available CPs in Philippines

Equipment	Equipment Type
4 Wire Digital Line	>TN754B
2 Wire Digital Line	>TN2181
Data Line	>TN726B
BRI-U Line	TN2198
BRI-ST Line	TN556
	•

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Poland

The information provided here is preliminary and subject to change. <u>Table 47</u> shows the recommended circuit packs.

Table 47.	Recommended and Available CPs in Poland
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Equipment	Equipment Type
Cabinet Type & Power	GAC-MCC AC-SCC AC-CSCC AC-CMC
AC Power Voltage & Freq	220V/50Hz
Ring Generator	20Hz
Tone Detector	>TN2182B >TN744D TN748D TN748C
Tone Clock	>TN2182B TN780 TN756
R2MFC Circuit	>TN744D TN744B
Speech Synthesizer	>TN725B
Call Classifier	>TN744D
Announcement	TN750C TN750B
Analog DID Trunk	>TN753
Analog CO Trunk (No PPM)	>TN747B
Analog CO Trunk (w/PPM)	
4 Wire Tie Trunk	>TN760D
2 Wire Tie Trunk	
Auxiliary Trunk	>TN763D
Digital CO/DID Trunk	
Digital Tie Trunk	>TN464F TN464E TN464D
Digital PRI CO Trunk	n/a
Digital BRI Trunk	>TN2185
Digital Converter PRI-DASS	
Digital Converter PRI-DPNSS	
Digital Converter PRI-BRI	
8 Port Analog Line	TN742
16 Port Analog Line	>TN746B
24 Port Analog Line	n/a

Equipment	Equipment Type
4 Wire Digital Line	>TN754B
2 Wire Digital Line	#TN2224 >TN2181 TN2136
Data Line	>TN726B
BRI-U Line	
BRI-ST Line	

Table 47. Recommended and Available CPs in Poland — Continued



A-law companding is the national standard in Poland. However, Mu-law is used internally to the system for service circuits and analog lines. Network interfaces are configured as A-law if required.

Feature Administration

The screen displays shown in this section were effective the date the type approval was awarded. The screens may have changed since that date.

Only those feature-related parameters that may have a Type Approval or basic connectivity implication for a particular country are listed here.

ARS/AAR Administration

To enable ARS administration, on the System-Parameters Customer-Options screen, set the ARS field to **y**. You also should check all ARS/AAR defaults. All default ARS analysis codes are deleted before dialed strings are added for routing when DEFINITY is installed outside of North America. Be aware that the default for the 10 digits cause dialing problems. In particular, the following call types (appear as ARS/AAR defaults) typically are not used in non-North American ARS/AAR tables:

fnpa:	North American numbers with an area code.
hnpa:	North American numbers without an area code.
SVC:	North American numbers of the screen "x11".

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Lucent recommends only the following call types be used outside North America:

int:	For all international numbers.
natl:	For all national PN numbers.
pubu:	For all other external (that is, not extensions) numbers.

System Parameter Administration

Only those feature-related parameters that may have a Type Approval or basic connectivity implication for a particular country are listed here.

- Feature-Related System Parameters Administration
 - Trunk-to-Trunk Transfer: Permitted by country's regulations -Selection is customer's choice.
 - Public Network Trunks on Conference Call: 5
 - Conference Parties With PNTs: 6
 - Conference Parties Without PNTs: 6
 - Line Intercept Tone Timer: 30
 - Night Service Disconnect Timer: 180 sec
 - Short Interdigit Timer: 3 sec
 - Unanswered DID Call Timer: 60
 - Auto-Hold: Yes 16
 - Attendant Tone: Yes
 - Bridging Tone: No
 - Conference Tone: No
 - Intrusion Tone: Yes
 - Repetitive Call Waiting Tone: No
 - DID Busy Treatment: Attendant
 - Pull Transfer: No
 - Level of Tone Detection: Medium
 - Outpulse Without Tone: Yes
 - (Station-to-switch) Recall Timing:
 - Flashhook Interval: Yes

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- Lower Bound: 600 msec
- System Parameter Multifrequency Signaling Administration
 - Incoming Call Type: group-ii-mfc
 - Outgoing Call Type: group-ii-mfc
 - Test Call Extension: Accept default
 - Incoming Interdigit Timer: Accept default
 - Incoming Signal Types:

GROUP-I	GROUP-II	GROUP-A	GROUP-B
11: ignored	1: normal	1: next-digit	3: busy
12: ignored	2: normal	3: end-of-dial	4: congestion
13: ignored	3: normal	4: congestion	5: intercept
14: ignored	4: normal		6: free
15: end-of-dial	5: normal		
	6: data-call		
	7: normal		
	8: data-call		
	9: normal		
	10: normal		
	11: normal		
	12: normal		
	13: normal		
	14: normal		
	15: normal		

— Outgoing Signal Types:

GROUP-I	GROUP-II	GROUP-A	GROUP-B
15: end-of-dial	1: normal	1: next-digit	1: free
	1: attendant	2: last-digit	2: busy
	6: data-call	3: end-of-dial	3: busy
		4: congestion	4: congestion
		5: call-info-ani	5: congestion
		6:	6: free
		setup-sppath	7: intercept
		7: last-2-digits	8: congestion
		8: last-3-digits	9: congestion
		9: congestion	10: congestion
		10: congestion	11: congestion
		11: congestion	12: congestion
		12: congestion	13: congestion
		13: congestion	14: congestion
		14: congestion	15: congestion
		15: congestion	C C

- System Parameters Country Options
 - Companding Mode: A-law



Companding Mode: A-law is the national standard. Mu-law is used internal to the system for service circuits and analog lines. Network interfaces are configured as A-law if required.

- Base Tone Generation Set:
- Tone Detection Mode: 5
- Interdigit Pause: short
- Digital Loss Plan:
- Analog Ringing Cadence:

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Analog Trunk Administration

- CO Trunks
 - Trunk Group Screen
 - Group Type: CO
 - Country:
 - Trunk Gain: high
 - Direction: two-way
 - Digit Absorption List: blank
 - Prefix-1: No
 - Trunk Type: loop-start
 - Outgoing Dial Type: tone/rotary
 - Trunk Termination: 600 ohm
 - Auto Guard: No
 - Dial Access: No
 - Call Still Held: No
 - Terminal Balanced: Yes
 - Receive Answer Supervision: yes
 - Answer Supervision Timeout: 10 (This sets both the CP firmware timer and software timer. Set to 0 for any trunk that will receive answer supervision.)
 - Disconnect Supervision In: no
 - Disconnect Supervision Out: Selection is customer's choice.
 - Disconnect Timing: 500 msec or 1000 msec 1000 msec for public trunk with flash. (This field will not be used with CPs that can accept the Incoming Disconnect and Outgoing Disconnect timers. Set these latter two timers from the Administrable Timers Screen.)
 - Trunk Group Administration Screen (Timing)

Set the following timers from the Administrable Timers screen during administration of each trunk group. Select the following CO trunk timer values for this country:

- Incoming Disconnect: 500 msec or 1000 msec
- Outgoing Disconnect: 500 msec or 1000 msec
- Outgoing Dial Guard: 1600 ms
- Incoming Glare Guard: 1500 ms

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 Outgoing Glare Guard: 1500 ms Outgoing Dial Pulse Rate (PPS): 10 pps Outgoing Rotary Digit Dial Make: 35 ms Outgoing Rotary Digit Dial Break: 65 ms Outgoing Rotary Dial Interdigit: 800 ms Ring Monitor Timer: 5200 ms Incoming Seizure: 500 ms Outgoing End-of-Dial: 255 sec Outgoing Seizure Response: 0 Programmed Dial Pause: 1500 ms Disconnect Signal Error: 240 sec End-To-End Signaling Pause: 150 ms (accept definition) 	ault)
 End-To-End Signaling Tone: 350 ms (accept defail Flash Length: 100 ms PPM: No 	,
 DID Trunks 	
 Trunk Group Screen Group Type: DID Country: Trunk Gain: high Digit Absorption List: blank Incoming Dial Type: rotary or mf 	
NOTE: It is very important to have DID trunk over D rotary!	S1 with
Trunk Type: immed-start	
 Trunk Termination: rc (complex impedance) 	
 Disconnect Supervision: no Disconnect Timing: 500 msec (This field will not be CPs that can accept the Incoming Disconnect and Disconnect timers. Set these latter two timers from Administrable Timers Screen.) 	d Outgoing
 Digit Treatment: blank 	
 Digits: blank 	

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- Expected Digits: depends on system size and numbering plan
- Terminal Balanced: yes
- Extended Loop Range: (Used Only with TN459) no
- Drop Treatment: silence
- Incoming Rotary Timeout (sec): 5 sec (This field will not be used with CPs that can accept the Incoming Partial Dial timer. Set this timer from the Administrable Timers Screen.)
- Trunk Group Administration Screen (Timing)

Set the following timers from the Administrable Timers screen during administration of each trunk group. Select the following DID trunk timer values for this country:

- Incoming Disconnect: 100 ms
- Incoming Dial Guard: 10 ms
- Incoming Partial Dial: 18 sec
- Incoming Incomplete Dial: 255 sec
- Tie Trunks

No information regarding Type Approval-related settings is currently available.

Digital Trunk Administration

Not all possible valid administrable combinations are listed in this section: Only the most common or standard combination, compatible with public-network and Type Approval standards for each country is presented:

- CO Trunks
 - DS1 Administration Screen ¹⁷
 - Circuit Pack: TN464D (not entered as an administrable item)
 - Bit Rate: 2.048
 - Interface Companding: A-law
 - Line Coding: HDB3
 - Signaling Mode: CAS
 - Country Protocol:
 - Interconnect: CO
 - CRC?: No

DS1 is also analogous to the term E1 that has been coined for the European T1 or 2 mbit interface.

- Idle Code: 01010100
- Trunk Group Administration Screen (Timing) Digital trunk timing values should be set as for analog CO trunks.
- DID Trunks
 - DS1 Administration Screen
 - Circuit Pack: TN464D (not entered as an administrable item)
 - Bit Rate: 2.048
 - Interface Companding: A-law
 - Line Coding: HDB3
 - Signaling Mode: CAS
 - Country Protocol:
 - Interconnect: CO
 - CRC?: No
 - Idle Code: 01010100
 - Trunk Group Administration Screen (Timing)

Digital trunk timing values should be set as for analog DID trunks.

- Tie Trunks
 - Non-ISDN Signaling Example (DS1 Administration Screen)
 - Circuit Pack: TN464D (Not entered as administrable item; TN464C from upgrades)
 - Bit Rate: 2.048
 - Interface Companding: A-law
 - Line Coding: HDB3
 - Signaling Mode: CAS
 - Country Protocol:
 - Interconnect: pbx
 - CRC?: no
 - Idle Code: 01010100
 - ISDN-PRI (Private Network) Signaling

This example assumes use of US Option 1 with facility associated signaling. Other feature options will require changes in one or more administered items.

- DS1 Administration screen
 - Circuit Pack: TN464D (or TN464C from upgrades)
 - Bit Rate: 2.048

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	 Interface Companding: A-law Line Coding: HDB3 Signaling Mode: isdn-pri Country Protocol: 1 Connect: pbx Interface: user CRC: No Idle Code: 01010100 Signaling Group screen Associated Signaling: Yes Primary D_Channel: xxxx16 (xxxx=>depart 	
	physical location)	

- Trunk Group Administration screen
 - Group Type: isdn-pri
 - Service Type: tie
- ISDN-PRI (Public Network) Not available for this country.

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Application Notes for Type Approval *Republic of Korea*

Table 48 shows the recommended circuit packs.

Table 48. Recommended and Available CPs in Republic of Korea

Equipment	Equipment Type
Cabinet Type & Power	GAC-MCC DC-MCC AC-SCC DC-SCC AC-CMC
AC Power Voltage & Freq	110V/60Hz 220V/60Hz
Ring Generator	20Hz
Tone Detector	>TN2182B >TN744D
Tone Clock	>TN2182B TN780
R2MFC Circuit	TN744D
Speech Synthesizer	>TN725B
Call Classifier	>TN744D
Announcement	TN750C TN750B TN750
Analog DID Trunk	>TN753
Analog CO Trunk (No PPM)	TN747B TN2147C TN2147
Analog CO Trunk (w/PPM)	n/a
4 Wire Tie Trunk	>TN760
2 Wire Tie Trunk	TN439
Auxiliary Trunk	>TN763D
Digital CO/DID Trunk	>TN2464
Digital Tie Trunk	>TN2464
Digital PRI CO Trunk	TN2464
Digital BRI Trunk	>TN2185
Digital Converter PRI-DASS	n/a
Digital Converter PRI-DPNSS	n/a
Digital Converter PRI-BRI	n/a
8 Port Analog Line	TN746B
16 Port Analog Line	#TN791 TN479
24 Port Analog Line	n/a

Continued on next page

Equipment	Equipment Type
4 Wire Digital Line	>TN754C
2 Wire Digital Line	#TN2214 >TN2181
Data Line	>TN726B
BRI-U Line	TN2198
BRI-ST Line	TN556B

Table 48. Recommended and Available CPs in Republic of Korea

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Russia

Table 49 shows the recommended circuit packs.

Recommended and Available CPs in Russia Table 49.

Equipment	Equipment Type
Cabinet Type & Power	GAC-MCC DC-MCC AC-SCC DC-SCC AC-CSCC AC-CMC
AC Power Voltage & Freq	220V/50Hz
Ring Generator	20Hz
Tone Detector	#TN2182B >TN744D TN420C
Tone Clock	#TN2182B >TN780
R2MFC Circuit	>TN744D TN744Bv2
Speech Synthesizer	>TN457
Call Classifier	>TN744D
Announcement	TN750C TN750B
Analog DID Trunk	>TN753v17 >TN2199
Analog CO Trunk (No PPM)	>TN747Bv12 >TN2199
Analog CO Trunk (w/PPM)	#TN465C >TN465B TN465
4 Wire Tie Trunk	>TN760Dv11
2 Wire Tie Trunk	
Auxiliary Trunk	>TN763D
Digital CO/DID Trunk	>TN464F
Digital Tie Trunk	>TN464F
Digital PRI CO Trunk	n/a
Digital BRI Trunk	
Digital Converter PRI-DASS	
Digital Converter PRI-DPNSS	
Digital Converter PRI-BRI	
8 Port Analog Line	n/a
16 Port Analog Line	>TN746B
24 Port Analog Line	n/a

Equipment	Equipment Type
4 Wire Digital Line	>TN754B
2 Wire Digital Line	#TN2224 >TN2181 TN2136
Data Line	>TN726B
BRI-U Line	
BRI-ST Line	

Table 49. Recommended and Available CPs in Russia — Continued

Country-Specific Features

When the Country Code field is 15, Russia Multifrequency Shuttle signaling can be enabled on CO, DID and DIOD trunk groups. ANI transmission, which uses gapless R1 multifrequency signaling and is completed within 800ms, can be administered on outgoing CO trunk groups. See "Trunk Group Administration" in the DEFINITY ECS Administration and Feature Description.

When the Country Code field is 15 and the Protocol Type field is **intol**, the new features Intrusion and Re-ring are enabled.

On DID and DIOD trunks, when the Country field is 15, the ANI Request feature can be enabled when, on the Trunk Group screen, the Protocol Type field is **inloc**. The ANI is requested on rotary and shuttle trunks if the incoming call is processed through the ARS/AAR digit analysis (or digit conversion). The ANI Request feature can be invoked either automatically (via ARS/AAR) or by the user during the voice state of a call by pressing the ani-requ button administered on their phone.

Feature Administration

The screen displays shown in this section were effective the date the type approval was awarded. The screens may have changed since that date.

Only those feature-related parameters that may have a Type Approval or basic connectivity implication for a particular country are listed here.

ARS/AAR Administration

To enable ARS administration, on the System-Parameters Customer-Options screen, set the ARS field to **y**. You also should check all ARS/AAR defaults. All default ARS analysis codes are deleted before dialed strings are added for routing when DEFINITY is installed outside of Application Notes for Type Approval *Russia*

North America. Be aware that the default for the 10 digits cause dialing problems. In particular, the following call types (appear as ARS/AAR defaults) typically are not used in non-North American ARS/AAR tables:

fnpa:	North American numbers with an area code.
hnpa:	North American numbers without an area code.
SVC:	North American numbers of the screen "x11".

Lucent recommends only the following call types be used outside North America:

int:	For all international numbers.
natl:	For all national PN numbers.
pubu:	For all other external (that is, not extensions) numbers.

ANI Transmission

In order to use ANI transmission, ARS must be used. If the ANI requested signal is expected at a certain point in the digit string during dialing, the symbol "&" should be translated in the routing pattern at that point.

ANI Request via ARS/AAR

In order to activate the ANI Request feature, on the AAR/ARS Digit Analysis Table (Digit Conversion Table) screen, set the Ani Reqd field to **y** or **r**.

\blacksquare NOTE:

If the option **r** is selected, the ANI is requested on the incoming trunk (rotary, shuttle, or R2_MFC) and if for any reason is not received, the incoming call drops.

\blacksquare NOTE:

The capability of dropping the incoming call applies also for ISDN calls if the CPN is not received and:

- on the System Parameter Country-Options screen, the value of the Base Tone Generator field is 15.
- the call is processed through the AAR/ARS Digit Analysis Table (or Digit Conversion Table) screen and the ANI Reqd field is r.

The value **r** for the ANI Reqd field is available only if, on the Feature-Related System-Parameters screen, the Allow ANI Restriction on AAR/ARS field is y. Application Notes for Type Approval *Russia*

ANI Request via Feature Button

In order to activate the ANI Request feature via button, the user must have the ani-requ button administered on their phone. The ANI displays on their phone only if the user has the mct-contr button administered.

System Parameter Administration

Only those feature-related parameters that may have a Type Approval or basic connectivity implication for a particular country are listed here.

- Feature-Related System Parameters Administration
 - Trunk-to-Trunk Transfer: Permitted by country's regulations -Selection is customer's choice.
 - Public Network Trunks on Conference Call: 5
 - Conference Parties With PNTs: 6
 - Conference Parties Without PNTs: 6
 - Line Intercept Tone Timer: 30
 - Night Service Disconnect Timer: 180 sec
 - Short Interdigit Timer: 3 sec
 - Unanswered DID Call Timer: 60
 - Auto-Hold: Yes 18
 - Attendant Tone: Yes
 - Bridging Tone: No
 - Conference Tone: No
 - Intrusion Tone: Yes
 - Allow ANI Restriction on AAR/ARS: Yes
 - Repetitive Call Waiting Tone: No
 - DID Busy Treatment: Attendant
 - Pull Transfer: No

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- Level of Tone Detection: Medium
- Outpulse Without Tone: Yes
- (Station-to-switch) Recall Timing:
 - Flashhook Interval: No
 - Disconnect Timing: 350 ms
- Station Tone Forward Disconnect: Busy

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- Network Feedback: No
- Class of Restriction Administration
 - Category For C.I.S. ANI: 7
- System Parameter Country Options Administration
 - Companding Mode: A-law
 - Base Tone Generation Set: 15
 - Tone Detection Mode: 4
 - Interdigit Pause: short
 - Digital Loss Plan: 15
 - Analog Ringing Cadence: 15

Analog Trunk Administration

- CO Trunks
 - Trunk Group Screen
 - Group Type: CO
 - Country: 15
 - Trunk Gain: high
 - Direction: outgoing
 - Digit Absorption List: blank
 - Prefix-1: No
 - Trunk Type: loop-start
 - Outgoing Dial Type: rotary
 - Trunk Termination: 600 ohm
 - Auto Guard: no
 - Dial Access: Yes
 - Call Still Held: no
 - Terminal Balanced: yes
 - Receive Answer Supervision: yes
 - Answer Supervision Timeout: 0 (This sets both the CP firmware timer and software timer. Set to 0 for any trunk that will receive answer supervision.)
 - Disconnect Supervision In: yes
 - Disconnect Supervision Out: Selection is customer's choice.

— Trunk Group Administration Screen (Timing)

Set the following timers from the Administrable Timers screen during administration of each trunk group. Select the following CO trunk timer values for this country:

- Incoming Disconnect: 200 ms
- Outgoing Disconnect: 200 ms
- Outgoing Dial Guard: 100 ms
- Incoming Glare Guard: 1500 ms
- Outgoing Glare Guard: No effect
- Outgoing Dial Pulse Rate (PPS): 10 pps
- Outgoing Rotary Digit Dial Make: 50 ms
- Outgoing Rotary Digit Dial Break: 50 ms
- Outgoing Rotary Dial Interdigit: 700 ms
- Ring Monitor Timer: No effect
- Incoming Seizure: No effect
- Outgoing End-of-Dial: 254 sec
- Outgoing Seizure: 200 ms
- Programmed Dial Pause: 5000 ms
- Disconnect Signal Error: 60 sec
- End-To-End Signaling Pause: 150 ms (accept default)
- End-To-End Signaling Tone: 350 ms (accept default)
- Flash Length: No effect
- Outgoing Seizure Response: No effect
- PPM: No
- Outpulsing Make: 50 ms
- Outpulsing Break: 50 ms
- Trunk Group Administration Features Screen

To administer Multifrequency Shuttle, select the following values:

- Shuttle: yes
- Start Position: 1
- DID Trunks

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— Trunk Group Screen

- Group Type: DID
- Country: 15
- Trunk Gain: high
- Direction: incoming
- Protocol Type: inloc or intol
- Digit Absorption List: blank
- Incoming Dial Type: rotary
- Trunk Type: loop-start
- Trunk Termination: rc (complex impedance)
- Disconnect Supervision: yes
- Disconnect Timing: 500 msec (This field will not be used with CPs that can accept the Incoming Disconnect and Outgoing Disconnect timers. Set these latter two timers from the Administrable Timers Screen.)
- Digit Treatment: blank
- Digits: blank
- Expected Digits: depends on system size and numbering plan
- Terminal Balanced: yes
- Drop Treatment: silence
- Incoming Rotary Timeout (sec): 5 sec (This field will not be used with CPs that can accept the Incoming Partial Dial timer. Set this timer from the Administrable Timers Screen.)
- Trunk Features Screen
 - Shuttle: yes
 - Start B Signal: 1
 - Request Category: no
- Trunk Group Administration Screen (Timing)

Set the following timers from the Administrable Timers screen during administration of each trunk group. Select the following DID trunk timer values for this country:

- Incoming Rotary Timeout: No effect
- Disconnect Timing: No effect
- Incoming Disconnect: 100 ms
- Incoming Dial Guard: 40 ms

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 Incoming Partial Dial: 10 sec 	
 Incoming Seizure: No effect 	

- Incoming Incomplete Dial: 255 sec
- Disconnect Signal Error: 60 sec
- Flash Length: No effect
- Incoming Incomplete Dial Alarm: No effect
- Answer Send: 200 ms
- End-To-End Signaling Pause: 160 ms (accept defaults)
- End-To-End Signaling Tone: 360 ms (accept defaults)
- Tie Trunks

No information regarding Type Approval-related settings is currently available.

Digital Trunk Administration

Not all possible valid administrable combinations are listed in this section: Only the most common or standard combination, compatible with public-network and Type Approval standards for each country is presented:

- CO Trunks
 - DS1 Administration Screen ¹⁹
 - Circuit Pack: TN464D (not entered as an administrable item)
 - Bit Rate: 2.048
 - Interface Companding: A-law
 - Line Coding: HDB3
 - Signaling Mode: CAS
 - Country Protocol: 15
 - Interconnect: CO
 - CRC?: No
 - Idle Code: 01010100
 - Trunk Group Administration Screen (Timing)

Digital trunk timing values should be set as for analog CO trunks.

- DID Trunks
 - DS1 Administration Screen

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DS1 is also analogous to the term E1 that has been coined for the European T1 or 2 mbit interface.

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- Circuit Pack: TN464D (not entered as an administrable item)
- Bit Rate: 2.048
- Interface Companding: A-law
- Line Coding: HDB3
- Signaling Mode: CAS
- Country Protocol: 15
- Interconnect: CO
- CRC?: No
- Idle Code: 01010100
- Trunk Group Administration Screen (Timing)

Digital trunk timing values should be set as for analog DID trunks.

- Tie Trunks
 - Non-ISDN Signaling Example (DS1 Administration Screen)
 - Circuit Pack: TN464D (Not entered as administrable item; TN464C from upgrades)
 - Bit Rate: 2.048
 - Interface Companding: A-law
 - Line Coding: HDB3
 - Signaling Mode: CAS
 - Country Protocol: 1
 - Interconnect: pbx
 - CRC?: no
 - Idle Code: 01010100
 - ISDN-PRI (Private Network) Signaling

This example assumes use of US Option1 with facility associated signaling. Other feature options will require changes in one or more administered items.

- DS1 Administration screen
 - Circuit Pack: TN464D (or TN464C from upgrades)
 - Bit Rate: 2.048
 - Interface Companding: A-law
 - Line Coding: HDB3
 - Signaling Mode: isdn-pri
 - Country Protocol: 1

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- Connect: pbx
- Interface: user
- CRC: No
- Idle Code: 11111111
- Signaling Group screen
 - Associated Signaling: Yes
 - Primary D_Channel: xxxx16 (xxxx=>depends on CP physical location)
- Trunk Group Administration screen
 - Group Type: isdn-pri
 - Service Type: tie
- ISDN-PRI (Public Network) (Not available for this country.

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Saudi Arabia

Overview

- R2-MFC DID signaling is used.
- The PBX supplies DID Battery.
- 600 resistive impedance is used on CO trunks.
- Ringback tone to network: 425 Hz 1.2/4.65 Cadence.

Table 50 shows the recommended circuit packs.

Table 50. Recommended and Available CPs in Saudia Arabia

Equipment	Equipment Type
Cabinet Type & Power	GAC-MCC AC-MCC DC-MCC AC-SCC DC-SCC AC-CSCC AC-CMC
AC Power Voltage & Freq	110V/60Hz 220V/50Hz
Ring Generator	20Hz
Tone Detector	>TN2182B >TN744D TN748D TN756
Tone Clock	>TN2182B TN780 TN756
R2MFC Circuit	>TN7444D TN744B
Speech Synthesizer	>TN725B
Call Classifier	>TN744D
Announcement	TN750C TN750B
Analog DID Trunk	>TN753
Analog CO Trunk (No PPM)	>TN747B
Analog CO Trunk (w/PPM)	
4 Wire Tie Trunk	>TN760D
2 Wire Tie Trunk	
Auxiliary Trunk	>TN763D TN763C
Digital CO/DID Trunk	>TN464F
Digital Tie Trunk	>TN464F TN464E TN464D TN464C TN464B
Digital PRI CO Trunk	n/a
Digital BRI Trunk	

Equipment	Equipment Type
Digital Converter PRI-DASS	
Digital Converter PRI-DPNSS	
Digital Converter PRI-BRI	
8 Port Analog Line	TN742
16 Port Analog Line	>TN746B
24 Port Analog Line	n/a
4 Wire Digital Line	>TN754B
2 Wire Digital Line	TN#2224 >TN2181
Data Line	>TN726B
BRI-U Line	
BRI-ST Line	
	1

Table 50. Recommended and Available CPs in Saudia Arabia — Continued

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A-law companding is the national standard in Saudi Arabia. However, Mu-law is used internally to the system for service circuits and analog lines. Network interfaces are configured as A-law if required.

Feature Administration

Only those feature-related parameters that may have a Type Approval or basic connectivity implication for a particular country are listed here.

ARS/AAR Administration

To enable ARS administration, on the System-Parameters Customer-Options screen, set the ARS field to y. You also should check all ARS/AAR defaults. All default ARS analysis codes are deleted before dialed strings are added for routing when DEFINITY is installed outside of North America. Be aware that the default for the 10 digits cause dialing problems. In particular, the following call types (appear as ARS/AAR defaults) typically are not used in non-North American ARS/AAR tables:

fnpa:	North American numbers with an area code.
hnpa:	North American numbers without an area code.
SVC:	North American numbers of the screen "x11".

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Lucent recommends only the following call types be used outside North America:

int:	For all international numbers.
natl:	For all national PN numbers.
pubu:	For all other external (that is, not extensions) numbers.

System Parameter Administration

The screen displays shown in this section were effective the date the type approval was awarded. The screens may have changed since that date.

Only those feature-related parameters that may have a Type Approval or basic connectivity implication for a particular country are listed here.

- Feature-Related System Parameters Administration
 - Trunk-to-Trunk Transfer: Permitted by country's regulations -Selection is customer's choice.
 - Public Network Trunks on Conference Call: 5
 - Conference Parties With PNTs: 6
 - Conference Parties Without PNTs: 6
 - Line Intercept Tone Timer: 30
 - Night Service Disconnect Timer: 180 sec
 - Short Interdigit Timer: 3 sec
 - Unanswered DID Call Timer: 60
 - Auto-Hold: Yes 20
 - Attendant Tone: Yes
 - Bridging Tone: No
 - Conference Tone: No
 - Intrusion Tone: Yes
 - Repetitive Call Waiting Tone: No
 - DID Busy Treatment: Attendant
 - Pull Transfer: No

20.

- Level of Tone Detection: Broadband
- Outpulse Without Tone: Yes

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— (Station-to-switch) Recall Timing:	

- Flashhook Interval: Yes
- Upper Bound: 1000 ms
- Lower Bound: 200 ms
- System Parameter Multifrequency Signaling Administration
 - Incoming Call Type: group-ii-mfc
 - Test Call Extension: As negotiated
 - Incoming Interdigit Timer: 10 sec
 - Incoming Signal Types:

GROUP-I	GROUP-II	GROUP-A	GROUP-B
11: drop	1: normal	Use defaults	3: busy
12: ignored	2: busy-rt-attd		4: congestion
13: maint-call	3: normal		5: intercept
14: ignore	4: normal		6: free
15: ignore	5: busy-rt-attd		
	6: data-call		
	7: normal		
	8: data-call		
	9: busy-rt-attd		
	10: busy-rt-attd		
	11: normal		
	12: busy-rt-attd		
	13: normal		
	14: busy-rt-attd		
	15: normal		

- Country Options Parameters
 - Companding Mode: mu-law

NOTE:

Companding Mode: A-law is the national standard. Mu-law is used internal to the system for service circuits and analog lines. Network interfaces are configured as A-law if required.

- Base Tone Generation Set: 9
- Tone Detection Mode: default

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- Interdigit Pause: default
- Digital Loss Plan: 9
- Analog Ringing Cadence: 9

Analog Trunk Administration

- CO Trunks
 - Trunk Group Screen
 - Group Type: CO
 - Country: 9
 - Trunk Gain: high
 - Direction: two-way
 - Digit Absorption List: blank
 - Prefix-1: No
 - Trunk Type: loop-start
 - Outgoing Dial Type: tone
 - Trunk Termination: rc (complex impedance)
 - Auto Guard: no
 - Dial Access: Yes
 - Call Still Held: no
 - Terminal Balanced: yes
 - Receive Answer Supervision: no
 - Answer Supervision Timeout: 10 (This sets both the CP firmware timer and software timer. Set to 0 for any trunk that will receive answer supervision.)
 - Disconnect Supervision In: no
 - Disconnect Supervision Out: Selection is customer's choice.
 - Disconnect Timing: 500 ms (This field will not be used with CPs that can accept the Incoming Disconnect and Outgoing Disconnect timers. Set these latter two timers from the Administrable Timers Screen.)
 - Trunk Group Administration Screen (Timing)

Set the following timers from the Administrable Timers screen during administration of each trunk group. Select the following CO trunk timer values for this country:

Incoming Disconnect: 500 ms

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	Outgoing Disconnect: 500 ms Outgoing Dial Guard: 1600 ms Incoming Glare Guard: 1500 ms Outgoing Glare Guard: 1500 ms Outgoing Dial Pulse Rate (PPS): 10 pps Outgoing Rotary Digit Dial Make: 35 ms	
	Outgoing Rotary Digit Dial Break: 65 ms Outgoing Rotary Dial Interdigit: 800 ms Ring Monitor Timer: 5200 ms Incoming Seizure: 500 ms	
	Outgoing End-of-Dial: 10 sec Outgoing Seizure Response: 240 sec Programmed Dial Pause: 1500 ms Disconnect Signal Error: 240 sec	
■ ■ DID Trunks — Trunk	Flash Length: 100 ms PPM: no Group Screen	
•	Group Type: DID Country: 9 Trunk Gain: high Digit Absorption List: blank	
	Incoming Dial Type: MF Trunk Type: immed-start Trunk Termination: rc (complex impedance) Disconnect Supervision: no	
•	Disconnect Timing: 500 ms (This field will not be CPs that can accept the Incoming Disconnect an Disconnect timers. Set these latter two timers from Administrable Timers Screen.)	d Outgoing
	Digit Treatment: blank Digits: blank Terminal Balanced: yes Extended Loop Range: (Used Only with TN459) r	no

- Drop Treatment: silence
- Incoming Rotary Timeout (sec): 5 sec (This field will not be used with CPs that can accept the Incoming Partial Dial timer. Set this timer from the Administrable Timers Screen.)
- Trunk Group Administration Screen (Timing)

Set the following timers from the Administrable Timers screen during administration of each trunk group. Select the following DID trunk timer values for this country:

- Incoming Disconnect: 500 ms
- Incoming Dial Guard: 50 ms
- Incoming Partial Dial: 18 sec
- Incoming Incomplete Dial: 255 sec
- Flash Length: 100 ms
- Tie Trunks

No special Type Approval regulations apply. Tie trunks are administered on a case-by-case basis.

Digital Trunk Administration

This section does not list all possible valid administrable combinations. Rather the most common or standard combination, compatible with public-network and Type Approval standards for each country, is presented:

CO Trunks

Not available in this country.

DID Trunks

Not available in this country.

- Tie Trunks
 - Non-ISDN Signaling Example (DS1 Administration screen)
 - Circuit Pack: TN464C
 - Bit Rate: 2.048
 - Interface Companding: A-law
 - Line Coding: HDB3
 - Signaling Mode: CAS
 - Country Protocol: 9
 - Interconnect: pbx
 - CRC?: no
 - Idle Code: 11111111

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This example assumes use of US Option 1 with facility associated signaling. Other feature options will require changes in one or more administered items.

- DS1 Administration screen
 - Circuit Pack: TN464C
 - Bit Rate: 2.048
 - Interface Companding: A-law
 - Line Coding: HDB3
 - Signaling Mode: isdn-pri
 - Country Protocol: 9
 - Connect: pbx
 - Interface: user
 - CRC: No
 - Idle Code: 11111111
- Signaling Group screen
 - Associated Signaling: Yes
 - Primary D_Channel: xxxx16 (xxxx=>depends on CP physical location)
- Trunk Group Administration screen
 - Group Type: isdn-pri
 - Service Type: tie
- ISDN-PRI (Public Network)

Not available in this country.

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Singapore

Table 51 shows the recommended circuit packs.

Table 51. Recommended and Available CPs in Singapore

Equipment	Equipment Type
Cabinet Type & Power	GAC-MCC DC-MCC AC-SCC DC-SCC AC-CSCC AC-CMC
AC Power Voltage & Freq	230V/50Hz
Ring Generator	20Hz
Tone Detector	>TN2182B >TN744D TN748D TN756
Tone Clock	>TN2182B TN780 TN756
R2MFC Circuit	>TN7444D TN744B
Speech Synthesizer	>TN725B
Call Classifier	>TN744D
Announcement	TN750C TN750B TN750
Analog DID Trunk	>TN753
Analog CO Trunk (No PPM)	>TN747B
Analog CO Trunk (w/PPM)	
4 Wire Tie Trunk	>TN760D
2 Wire Tie Trunk	
Auxiliary Trunk	>TN763D TN763C
Digital CO/DID Trunk	
Digital Tie Trunk	>TN464F TN464E TN464D TN464C
Digital PRI CO Trunk	>TN464F TN464E TN464D TN464C
Digital BRI Trunk	>TN2185
Digital Converter PRI-DASS	
Digital Converter PRI-DPNSS	
Digital Converter PRI-BRI	
8 Port Analog Line	TN742
16 Port Analog Line	>TN746B
24 Port Analog Line	TN2793

Equipment	Equipment Type
4 Wire Digital Line	>TN754B
2 Wire Digital Line	#TN2224 >TN2181
Data Line	>TN726B
BRI-U Line	
BRI-ST Line	

Table 51. Recommended and Available CPs in Singapore — Continued



A-law companding is the national standard in Singapore. However, Mu-law is used internally to the system for service circuits and analog lines. Network interfaces are configured as A-law if required.

Feature Administration

The screen displays shown in this section were effective the date the type approval was awarded. The screens may have changed since that date.

Only those feature-related parameters that may have a Type Approval or basic connectivity implication for a particular country are listed here.

ARS/AAR Administration

To enable ARS administration, on the System-Parameters Customer-Options screen, set the ARS field to **y**. You also should check all ARS/AAR defaults. All default ARS analysis codes are deleted before dialed strings are added for routing when DEFINITY is installed outside of North America. Be aware that the default for the 10 digits cause dialing problems. In particular, the following call types (appear as ARS/AAR defaults) typically are not used in non-North American ARS/AAR tables:

fnpa:	North American numbers with an area code.
hnpa:	North American numbers without an area code.
SVC:	North American numbers of the screen "x11".

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Lucent recommends only the following call types be used outside North America:

int:	For all international numbers.
natl:	For all national PN numbers.
pubu:	For all other external (that is, not extensions) numbers.

System Parameter Administration

Only those feature-related parameters that may have a Type Approval or basic connectivity implication for a particular country are listed here.

- Feature-Related System Parameters Administration
 - Trunk-to-Trunk Transfer: Permitted by country's regulations -Selection is customer's choice.
 - Public Network Trunks on Conference Call: 5
 - Conference Parties With PNTs: 6
 - Conference Parties Without PNTs: 6
 - Line Intercept Tone Timer: 30
 - Night Service Disconnect Timer: 180 sec
 - Short Interdigit Timer: 3 sec
 - Unanswered DID Call Timer: 60
 - Auto-Hold: Yes 21
 - Attendant Tone: Yes
 - Bridging Tone: No
 - Conference Tone: No
 - Intrusion Tone: No
 - Repetitive Call Waiting Tone: No
 - DID Busy Treatment: Attendant
 - Pull Transfer: No
 - Level of Tone Detection: Broadband
 - Outpulse Without Tone: Yes
 - (Station-to-switch) Recall Timing:
 - Flashhook Interval: Yes

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- Upper Bound: 1000 ms
- Lower Bound: 200 ms
- System Parameter Multifrequency Signaling Administration
 - Incoming Call Type: group-ii-mfc
 - Test Call Extension: As Negotiated
 - Incoming Interdigit Timer: 10 sec
 - Incoming Signal Types:

GROUP-I	GROUP-II	GROUP-A	GROUP-B
Use defaults	Use defaults	Use defaults	1: free
			2: busy
			5: congestion
			7: intercept

- Country Options Parameters
 - Companding Mode: mu-law



Companding Mode: A-law is the national standard. Mu-law is used internal to the system for service circuits and analog lines. Network interfaces are configured as A-law if required.

- Base Tone Generation Set: 6
- Tone Detection Mode: default
- Interdigit Pause: default
- Digital Loss Plan: 6
- Analog Ringing Cadence: 6

Analog Trunk Administration

- CO Trunks
 - Trunk Group Screen
 - Group Type: CO
 - Country: 6
 - Trunk Gain: high
 - Direction: two-way
 - Digit Absorption List: blank
 - Prefix-1: No

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■ Trunk Type: loop-start	

- Outgoing Dial Type: tone
- Trunk Termination: rc (complex impedance)
- Auto Guard: no
- Dial Access: yes
- Call Still Held: no
- Terminal Balanced: yes
- Receive Answer Supervision: no
- Answer Supervision Timeout: 10 (This sets both the CP firmware timer and software timer. Set to 0 for any trunk that will receive answer supervision.)
- Disconnect Supervision In: no
- Disconnect Supervision Out: Selection is customer's choice.
- Disconnect Timing: 500 ms (This field will not be used with CPs that can accept the Incoming Disconnect and Outgoing Disconnect timers. Set these latter two timers from the Administrable Timers Screen.)
- Trunk Group Administration Screen (Timing)

Set the following timers from the Administrable Timers screen during administration of each trunk group. Select the following CO trunk timer values for this country:

- Incoming Disconnect: 500 ms
- Outgoing Disconnect: 500 ms
- Outgoing Dial Guard: 1600 ms
- Incoming Glare Guard: 1500 ms
- Outgoing Glare Guard: 1500 ms
- Outgoing Dial Pulse Rate (PPS): 10 pps
- Outgoing Rotary Digit Dial Make: 35 ms
- Outgoing Rotary Digit Dial Break: 65 ms
- Outgoing Rotary Dial Interdigit: 800 ms
- Ring Monitor Timer: 5200 ms
- Incoming Seizure: 500 ms
- Outgoing End-of-Dial: 10 sec
- Outgoing Seizure Response: 240 sec
- Programmed Dial Pause: 1500 ms

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 Disconnect Signal Error: 240 sec 	

- Flash Length: 100 ms
- PPM: no
- DID Trunks
 - Trunk Group Screen
 - Group Type: DID
 - Country: 6
 - Trunk Gain: high
 - Digit Absorption List: blank
 - Incoming Dial Type: MF
 - Trunk Type: immed-start
 - Trunk Termination: rc (complex impedance)
 - Disconnect Supervision: no
 - Disconnect Timing: 500 ms (This field will not be used with CPs that can accept the Incoming Disconnect and Outgoing Disconnect timers. Set these latter two timers from the Administrable Timers Screen.)
 - Digit Treatment: blank
 - Digits: blank
 - Expected Digits: depends on system size and numbering plan
 - Terminal Balanced: yes
 - Extended Loop Range: (Used Only with TN459) no
 - Drop Treatment: silence
 - Incoming Rotary Timeout (sec): 5 sec (This field will not be used with CPs that can accept the Incoming Partial Dial timer. Set this timer from the Administrable Timers Screen.)
 - Trunk Group Administration Screen (Timing)

Set the following timers from the Administrable Timers screen during administration of each trunk group. Select the following DID trunk timer values for this country:

- Incoming Disconnect: 500 ms
- Incoming Dial Guard: 50 ms
- Incoming Partial Dial: 18 sec
- Incoming Incomplete Dial: 255 sec
- Flash Length: 100 ms

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Tie Trunks

> No special Type Approval regulations apply. Tie trunks are administered on a case-by-case basis.

Digital Trunk Administration

This section does not list all possible valid administrable combinations. Rather the most common or standard combination, compatible with public-network and Type Approval standards for each country, is presented:

CO Trunks

Not available in this country.

DID Trunks

Not available in this country.

- Tie Trunks
 - Non-ISDN Signaling Example (DS1 Administration Screen)
 - Circuit Pack: TN464D (or TN464C from upgrades)
 - Bit Rate: 2.048
 - Interface Companding: A-law
 - Line Coding: HDB3
 - Signaling Mode: CAS
 - Country Protocol: 6
 - Interconnect: pbx
 - CRC?: no
 - Idle Code: 11111111
 - ISDN-PRI (Private Network) Signaling

This example assumes use of US Option 1 with facility associated signaling. Other feature options will require changes in one or more administered items.

- **DS1** Administration screen
 - Circuit Pack: TN464D (or TN464C, B from upgrades)
 - Bit Rate: 2.048
 - Interface Companding: A-law
 - Line Coding: HDB3
 - Signaling Mode: isdn-pri
 - Country Protocol: 1
 - Connect: pbx

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— Interface: user	
— CRC: No	
— Idle Code: 1111111	
 Signaling Group screen 	
 — Associated Signaling: Yes 	
 Primary D_Channel: xxxx16 (xxxx=>depends on CP physical location) 	
 Trunk Group Administration screen 	
— Group Type: isdn-pri	
— Service Type: tie	

— ISDN-PRI (Public Network)

Not available for this country.

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Application Notes for Type Approval	

Application Notes for Type Approval *Slovak Republic*

Slovak Republic

Table 52 shows the recommended circuit packs.

Table 52. Recommended and Available CPs in Slovak Republic

Equipment	Equipment Type
Cabinet Type & Power	GAC-MCC DC-MCC AC-SCC DC-SCC AC-CSCC AC-CMC
AC Power Voltage & Freq	220V/50Hz
Ring Generator	25Hz
Tone Detector	>TN2182B >TN744D TN420C
Tone Clock	>TN2182B TN780
R2MFC Circuit	
Speech Synthesizer	>TN457
Call Classifier	>TN744D
Announcement	TN750C TN750B
Analog DID Trunk	>TN753v17
Analog CO Trunk (No PPM)	>TN747Bv12
Analog CO Trunk (w/PPM)	#TN465C>TN465B
4 Wire Tie Trunk	>TN760Dv11
2 Wire Tie Trunk	
Auxiliary Trunk	>TN763D
Digital CO/DID Trunk	>TN464F TN464E
Digital Tie Trunk	>TN464F TN464E
Digital PRI CO Trunk	n/a
Digital BRI Trunk	>TN2185
Digital Converter PRI-DASS	
Digital Converter PRI-DPNSS	
Digital Converter PRI-BRI	
8 Port Analog Line	n/a
16 Port Analog Line	>TN746B
24 Port Analog Line	n/a

Table 52.	Recommended and Available CPs in Slovak Republic —
	Continued

Continued	
Equipment	Equipment Type
4 Wire Digital Line	>TN754B
2 Wire Digital Line	#TN2224 >TN2181 TN2136
Data Line	>TN726B
BRI-U Line	
BRI-ST Line	
	·

Feature Administration

The screen displays shown in this section were effective the date the type approval was awarded. The screens may have changed since that date.

Only those feature-related parameters that may have a Type Approval or basic connectivity implication for a particular country are listed here.

ARS/AAR Administration

To enable ARS administration, on the System-Parameters Customer-Options screen, set the ARS field to **y**. You also should check all ARS/AAR defaults. All default ARS analysis codes are deleted before dialed strings are added for routing when DEFINITY is installed outside of North America. Be aware that the default for the 10 digits cause dialing problems. In particular, the following call types (appear as ARS/AAR defaults) typically are not used in non-North American ARS/AAR tables:

fnpa:	North American numbers with an area code.
hnpa: North American numbers without an area code.	
svc: North American numbers of the screen "x11".	

Lucent recommends only the following call types be used outside North America:

int:	For all international numbers.	
natl: For all national PN numbers.		
pubu: For all other external (that is, not extensions) numbers		

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System Parameter Administration	
Only those feature-related parameters that may have a Type Appro connectivity implication for a particular country are listed here.	oval or basic
 Feature-Related System Parameters Administration 	
 Off-Premises Tone Detect Timeout Interval (seconds): 	: 5
	1.5
display system-parameters features Page FEATURE-RELATED SYSTEM PARAMETERS	l of 6
Trunk-to-Trunk Transfer: all	
Coverage Subsequent Redirection/CFWD No Answer Interval: 2	
Coverage - Caller Response Interval (seconds): 4	
Keep Held SBA at Coverage Point? y	
Automatic Callback - No Answer Timeout Interval (rings): 3 Call Park Timeout Interval (minutes): 10	
Off-Premises Tone Detect Timeout Interval (minutes): 5	
AAR/ARS Dial Tone Required? y	
Music/Tone on Hold: none	

- Night Service Disconnect Timer (seconds): 10 (10 or blank for testing optional responses to errors
- Unanswered DID Call Timer (seconds): 180

Music (or Silence) on Transferred Trunk Calls? no

Internal Automatic Answer for Attendant Extended Calls? n

Messaging Service Adjunct (MSA) Connected? n

Automatic Circuit Assurance (ACA) Enabled? n Abbreviated Dial Programming by Assigned Lists? n Auto Abbreviated/Delayed Transition Interval (rings): 2

DID/Tie/ISDN Intercept Treatment: attd

 DID Busy Treatment (set to attendant for testing optional response to errors) DEFINITY® Enterprise Communications Server Application Notes for Type Approval

Application Notes for Type Approval *Slovak Republic*

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1	display system-parameters features	Page	5 of	6
	FEATURE-RELATED SYSTEM PARAMETERS			
	Public Network Trunks on Conference Call:	5		
	Conference Parties with Public Network Trunks:	6		
	Conference Parties without Public Network Trunks:	6		
	Night Service Disconnect Timer (seconds):	10		
	Short Interdigit Timer (seconds):			
	Unanswered DID Call Timer (seconds):			
	Line Intercept Tone Timer (seconds):			
	Auto Start?			
	Auto Hold?	-		
	Attendant Tone?	-		
	Bridging Tone?	n		
	Conference Tone?	n		
	Intrusion Tone?	У		
	DID Busy Treatment:	tone		
	Allow AAR/ARS Access from DID/DIOD?	n		
	DISTINCTIVE AUDIBLE ALERTING			
	Internal: 1 External: 2 Priority:	3		

- Outpulse Without Tone? n (for dial tone detection)

Network Feedback During Tone Detection? n (for dial tone detection)

```
display system-parameters features
                         FEATURE-RELATED SYSTEM PARAMETERS
                                                     Pull Transfer: n
                                            Level Of Tone Detection: precise
                                      Wait Answer Supervision Timer? n
                                       Repetitive Call Waiting Tone? n
                                              Outpulse Without Tone? n
                             Network Feedback During Tone Detection? n
                      Intercept Treatment On Failed Trunk Transfers? n
                                      Vector Disconnect Timer (min):
                                    Station Tone Forward Disconnect: intercept
                                              Misoperation Alerting? n
                                         Allow Conference via Flash? y
RECALL TIMING
        Flashhook Interval? y
                                                 Upper Bound (msec): 1000
                                                 Lower Bound (msec): 200
                                    Forward Disconnect Timer (msec): 600
ENHANCED DCS
      Enhanced DCS Enabled? n
```

- System Parameters Customer Options
 - ARS? y (for dial tone detection)

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Application Notes for Type Approval *Slovak Republic*

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display system-parameters customer-options Page 1 of 2 OPTIONAL FEATURES G3 Version: V4 Logged-In ACD Agents: 150 Call Work Codes? n Abbreviated Dialing Enhanced List? n A/D Grp/Sys List Dialing Start at 01? n CAS Branch? n ACD? n CAS Main? n AT&T Adjunct Links? n DCS (Basic)? n Answer Supervision by Call Classifier? n DCS Call Coverage? n ARS? y DTMF Feedback Signals For VRU? n ARS/AAR Partitioning? y Emergency Access to Attendant? y Emergency Access to Attendant? y Expert Agent Selection (EAS)? n ASAI Interface? n External Device Alarm Admin? n ATMS? n Audible Message Waiting? n Flexible Billing? n Authorization Codes? n Forced Entry of Account Codes? n BCMS (Basic)? n Hospitality (Basic)? y BCMS (Basic)? n Hospitality (Basic)? y BCMS/VuStats LoginIDs? n G3V3 Hospitality Enhancements? n BCMS/VuStats Service Level? n Hospitality Parameter Reduction? n

- Malicious Call Trace? y (for Malicious Call feature)

- Multifrequency Signaling? y

```
display system-parameters customer-options
                                OPTIONAL FEATURES
                           ISDN-PRI? n
                                                 Service Observing (VDNs)? n
               ISDN-PRI over PACCON? n
                                                    Station and Trunk MSP? n
          Lookahead Interflow (LAI)? n
                                                       Tenant Partitioning? n
                                        Terminal Trans. Init. (TTI)? n
               Malicious Call Trace? y
                                                      Time of Day Routing? n
           Multifrequency Signaling? y
 Multiple Call Handling (On Request)? n
                                                      Uniform Dialing Plan? n
    Multiple Call Handling (Forced)? n
                                                         Vectoring (Basic)? n
  PASTE (Display PBX Data on Phone)? n
                                                     Vectoring (Prompting)? n
                                                 Vectoring (G3V4 Enhanced)? n
           Premier Business Package? y
                                         Vectoring (ANI/II-Digits Routing)? n
           Processor and System MSP? n
                                         Vectoring (G3V4 Advanced Routing)? n
                 Private Networking? n
                                                VDN of Origin Announcement? n
                                                    VDN Return Destination? n
      Restrict Call Forward Off Net? y
                                           Voice Mail Application Support? n
              Secondary Data Module? n
                                                                   VuStats? n
          Service Observing (Basic)? y
                                                   VuStats (G3V4 Enhanced)? n
   Service Observing (Remote/By FAC)? n
                                                        Wideband Switching? n
```

- System Parameter Country Options Administration
 - Companding Mode: A-Law
 - Digital Loss Plan: 14
 - Analog Ringing Cadence: 14
 - Analog Line Transmission: 14

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Tone Detection Mode: 5

display system-parameters country-options Page 1 of 21 SYSTEM PARAMETERS COUNTRY-OPTIONS Companding Mode: A-Law Base Tone Generator Set: 14 440Hz PBX-dial Tone? n 440Hz Secondary-dial Tone? n Digital Loss Plan: 14 Analog Ringing Cadence: 14 Set Layer 1 timer T1 to 30 seconds? n Analog Line Transmission: 14 TONE DETECTION PARAMETERS Tone Detection Mode: 5 Dial Tone Validation Timer(msec): 500 Interdigit Pause: long

- Customized Individual Tones

In this section, customized tone definitions follow the data-entry syntax as specified for entry on the Individual Tone Administration Screen:

[(Frequency/Level)|silence|goto)][(Duration ms)|(Step)]

- Intrusion:

- (425/-11.0)(350)
- (silence)(350)
- (425/-5.0)(350)
- (silence)(1500)
- (goto)(1)

- Reorder (Congestion):

- (425/-5)(150)
- (silence)(150)
- (goto)(1)
- Secondary Dial Tone:
 - (425/-5)(150)
 - (silence)(150)
 - (425/-5)(150)
 - (silence)(150)
 - (425/-5)(150)
 - (silence)(150)
 - (425/-5)(650)

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(silence)(650)

- (goto)(1)
- PBX Dial Tone:
 - (425/-5)(500)
 - (goto)(1)
- Busy:
 - (425/-5)(350)
 - (silence)(350)
 - (goto)(1)
- Ringback:
 - (425/-5)(1000)
 - (silence)(4000)
 - (goto)(1)
- Call Wait 1:
 - (425/-11)(350)
- Recall Dial:
 - (425/-4)(150)
 - (silence)(150)
 - (425/-4)(150)
 - (silence)(150)
 - (425/-4)(1000)
 - (goto)(5)
- CDR System Parameters
 - Primary Output Format: int-direct (for showing PPM)

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display system-parameters cdr	
CDR SYSTEM PARAME	TERS
Node Number (Local PBX ID): 1	CDR Date Format: month/day
Primary Output Format: int-direct	Primary Output Ext: eia
Secondary Output Format:	
Use ISDN Layouts? n	EIA Device Bit Rate: 9600
Use Enhanced Formats? n	
Record Outgoing Calls Only?	n Intra-switch CDR? n
Suppress CDR for Ineffective Call Attempts?	y CDR Call Splitting? y
Disconnect Information in Place of FRL?	n Attendant Call Recording? y
	Interworking Feat-flag? n
Force Entry of Acct Code for Calls Marked on	n Toll Analysis Form? n
Calls to	Hunt Group - Record: member-ext
Record Called Vector Directory Number Instead	l of Group or Member? n
Record Non-Call-Assoc TSC? n	
Record Call-Assoc TSC? n Digits to Re	cord for Outgoing Calls: dialed
Privacy - Digits to Hide: O	CDR Account Code Length: 2

- System Parameter Multifrequency Signaling Administration (Pay close attention to the values on the following three screens. They are critical.)
 - Request Incoming ANI (non-AAR/ARS)? n (To check Incoming ANI, enter yes. It is part of the malicious call trace option.)

/			_)
		ge 1 of	3
	MULTIFREQUENCY-SIGNALING-RELATED SYSTEM PARAMETERS		
	Incoming Call Type: gro	up-ii-mfc	
	Outgoing Call Type: gro	up-ii-mfc	
	Maintenance Call Type: non	e	
	Test Call Extension:		
	Interdigit Timer (sec): 20		
	Outgoing Forward Signal Present Timer (sec): 20		
	Outgoing Forward Signal Absent Timer (sec): 12		
	Multifrequency Signaling Incoming Intercept Treatment? y		
	Received Signal Gain(-Loss) (dB): 0		
	Transmitted Signal Gain(-Loss) (dB): -3		
	ANI Prefix: 42 Collect All Digits Before Seizure? n		
	ANI for PBX: 400		
	Next ANI Digit: send-ani		
	Request Incoming ANI (non-AAR/ARS)? n		
	Called Party Category: use:	r-type	
	Use COR for Calling Party Category? n	- 11 -	

NOTE:

On Page 2 of the Multifrequency-Signaling-Related System Parameters screen, Group-I, numbers 12, 13, and 14, should all be ani-not-avail.

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display system-parame MULTIFR		-signaling ELATED SYSTEM PARAM	-
INCOMING FORWARD SIG (Tones from CO)	NAL TYPES	INCOMING BACKWARD (Tones to CO)	SIGNAL TYPES
-	-	Group-A	-
11: send-congest		-	-
12: send-congest	2: busy-rt-attd	3 : end-of-dial	4 : congestion
13: ani-not-avail	3: busy-rt-attd	4 : congestion	5 : intercept
14: send-congest	4: normal	5 : send-ani	6 : free
15: end-of-dial	5: busy-rt-attd	:	:
	6: normal	:	:
	7: normal	:	:
	8: normal	:	:
	9: busy-rt-attd	:	:
	10: normal	:	:
	11: send-intercept	:	:
	12: send-intercept	:	:
	13: normal	:	:
	14: normal	:	:
	15: send-intercept	:	:

(
display system-parame	-										
MULTIFREQUENCY-SIGNALING-RELATED SYSTEM PARAMETERS											
OUTGOING FORWARD SIC	GNAL TYPES	OUTGOING BACKWARD SI	GNAL	TYPES							
(Tones to CO)	a	(Tones from CO)		~ ~							
Group-I	Group-II	Group-A		Group-B							
12: ani-not-avail	1 : normal	1: next-digit		free							
15: end-of-digits	1 : attendant	2: last-digit	2:	congestion							
:	6 : data-call	3: end-of-dial	3:	busy							
:	:	4: congestion	4:	congestion							
:	:	5: send-ani	5:	intercept							
	:	6: setup-sppath	6:	free							
	:	7: last-2-digits	7:	free							
	:	8: last-3-digits	8:	intercept							
	:	9: congestion	9:	congestion							
	:	10: congestion	10:	congestion							
	:	11: congestion	11:	congestion							
	:	12: congestion	12:	congestion							
	:	13: congestion	13:	congestion							
	:	14: congestion	14:	congestion							
	:	15: congestion	15:	congestion							

- ARS Digit Analysis
 - Rte Pat: 2 (for dial tone detect)

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(/ displav	ars analysis	3 0											
						ARS I	DIGIT	ANALYS	IS TABLE					
					Pa	artiti	oned	l Group	Number: 1	-	Perce	ent F	ull:	2
		Dialed	Tot	al	Rte	Call	Nd A	NI	Dialed		Total	Rte	Call	Nd ANI
		String	Mn	Mx	Pat	Type	Num	Rq	String		Mn Mx	Pat	Type	Num Rq
	2		2	7	2	pubu		n						n
	3		2	7	2	pubu		n						n
	4		2	7	2	pubu		n						n
	5					pubu		n						n
	6		7	7	2	hnpa		n						n
	7		2	7	2	pubu		n						n
	8		2	7	2	pubu		n						n
	9		2	7	2	pubu		n						n
								n						n
								n						n
								n						n
								n						n
								n						n
								n						n
														j.
	\mathbf{i}													

Route Pattern

- Inserted Digits: + (for dial tone detect)

dis	play ro	oute-pa	attern	2			
					Pa	attern Nu	umber: 2
	Grp.	FRL NI	PA Pfx	Нор	Toll	No. Del	Inserted
	No.		Mrk	Lmt	List	Digits	Digits
1	: 29	0					+
2	:						
3	:						
4	:						
5	:						
6	:						
$\langle \rangle$							

Console Parameters

Application Notes for Type Approval *Slovak Republic*

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display console-parameters		P	age	1 of	3
	CONSOLE PA	RAMETERS			
Attendant Group Name:	OPERATOR				
COS:	1		COR	: 1	
Calls in Queue Warning:	5	Attendant Lo	ckout	Р У	
Ext Alert Port (TAAS):					
CAS:	none				
		Night Service Act.	Ext.	:	
IAS (Branch)?	n	IAS Tie Trunk Grou	p No.	:	
IAS Att. Access Code:		Alternate FRL St	ation	:	
		DID-LDN Only to LDN Nigh	t Ext?	? n	
TIMING					
Time Reminder on Hold (sec):		Return Call Timeout	(sec)	: 30	
Time in Queue Warning (sec):					
INCOMING CALL REMINDERS					
No Answer Timeout (sec):		Alerting	. ,		
	Secondary	Alert on Held Reminder	Calls	УY	
ABBREVIATED DIALING					
Listl:	List2:	List3:			
		EXTENSIONS			
Starting Extension	:	Count:			
\mathbf{X}					

- Night Destination: 302 (for testing optional response to errors)

	L	ISTED DIRECTORY NUMBERS	
Ext	Name	TN	
1:		1	
2:		1	
3:		1	
4:		1	
5:		1	
6:		1	
7:		1	
8:		1	
	1	Night Destination: 302	

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Trunk Groups

(list (runk	-group								
				TRUNK GH	ROUPS						
	Grp				No.					Out	Queue
	No.	TAC	Group Type	Group Name	Mem	TN	COR	CDR	Meas	Disp?	Length
	23	923	CO	Slov.LS_out_MFC	1	1	1	У	none	У	0
	24	924	CO	slov.co.dec	1	1	1	У	none	n	0
	29	929	CO	slov ana co	1	1	1	У	none	n	0
	31	931	did	slovak mf did	1	1	1	У	none	n	0
	32	932	did	slovak did dec	1	1	1	У	none	n	0
)

- CO Trunk Groups
 - Example: Loop Start Outgoing MFC
 - Country: 14
 - Trunk Type: loop-start
 - Outgoing Dial Type: mf
 - Disconnect Supervision Out? n
 - Answer Supervision Timeout: 0

```
display trunk-group 23
                                                                      Page 1 of 10
                                   TRUNK GROUP
                                    Group Type: co
COR: 1
                                                            CDR Reports: y
 Group Number: 23
   Group Name: Slov.LS_out_MFC
                                                            TN: 1 TAC: 923
Direction: outgoing Outgoing Display? y
Dial Access? y Busy Threshold: 99
Queue Length: 0 Country: 14
    Comm Type: voice
                                                       Digit Absorption List:
     Prefix-1? n
                                     Trunk Flash? n
                                                              Toll Restricted? n
 TRUNK PARAMETERS
              Trunk Type: loop-start
     Outgoing Dial Type: mf
      Disconnect Timing(msec): 500Auto Guard? nCall Still Held? nSig Bit Inversion: noneTerminal Balanced? nDA Truck I to the still
      Trunk Termination: rc
                                     Trunk Gain: high
  Disconnect Supervision - Out? n
  Answer Supervision Timeout: 0
                                     Receive Answer Supervision? y
```

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display trunk-group 23 TRUNK FEATURES	Page 2 of 10	
ACA Assignment? n Measured: none	Maintenance Tests? y	
Data Restriction? n	Maintenance lests; y	
Suppress # Outpulsing? n		

display trunk-group 23	
TRUNK GROUP	
ADMINISTRABLE TIMERS	
Outgoing Disconnect(msec): 500	
Outgoing Dial Guard(msec): 1600	
Outgoing Glare Guard(msec): 1500	
Ringing Monitor(msec): 5200 Incoming Seizure(msec): 500	
Outgoing Seizure Response(sec): 5	
Programmed Dial Pause(msec): 1500	
Flash Length(msec): 540	
END TO END SIGNALING	
Tone(msec): 350 Pause(msec): 150	
OUTPULSING INFORMATION	
PPS: 10 Make(msec): 40 Break(msec): 60 PPM? y Frequency: 50/12k	
\backslash	

- Outgoing Disconnect (msec): 500
- Example: Digital CO Trunk
 - Country: 14
 - Trunk Type: loop-start
 - Outgoing Dial Type: rotary
 - Disconnect Supervision Out? n
 - Answer Supervision Timeout: 0

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display trunk-group 24 Page 1 of 10 TRUNK GROUP roup Number: 24Group Type: coCDR Reports: yGroup Name: slov.co.decCOR: 1TN: 1TAC: 924Direction: outgoingOutgoing Display: 7 Group Number: 24 Direction: outgoing Outgoing Display? n ial Access? y Busy Threshold: 99 Dial Access? y Busy Th Queue Length: 0 Country: 14 Digit Absorption List: Comm Type: voice Prefix-1? n Trunk Flash? n Toll Restricted? y TRUNK PARAMETERS Trunk Type: loop-start Outgoing Dial Type: rotary Cut-Through? n Trunk Termination: rc Disconnect Timing(msec): 500 Auto Guard? n Call Still Held? n Sig Bit Inversion: none Terminal Balanced? n RA Trunk Loss: 0db Trunk Gain: high Disconnect Supervision - Out? n Answer Supervision Timeout: 0 Receive Answer Supervision? y

Page 2 of 10 display trunk-group 24 TRUNK FEATURES ACA Assignment? n Measured: none Maintenance Tests? y Data Restriction? n Suppress # Outpulsing? n

- Outgoing Disconnect (msec): 500
- Outgoing Rotary Dial Interdigit (msec): 800

```
display trunk-group 24
                             TRUNK GROUP
ADMINISTRABLE TIMERS
                                           Outgoing Disconnect(msec): 500
                                           Outgoing Dial Guard(msec): 1600
                                          Outgoing Glare Guard(msec): 1500
                               Outgoing Rotary Dial Interdigit(msec): 800
      Ringing Monitor(msec): 5200
                                             Incoming Seizure(msec): 500
                                     Outgoing Seizure Response(sec): 5
Programmed Dial Pause(msec): 1500
    Flash Length(msec): 540
END TO END SIGNALING
   Tone(msec): 350
                      Pause(msec): 150
OUTPULSING INFORMATION
    PPS: 10 Make(msec): 40 Break(msec): 60 PPM? y Frequency: 50/12k
```

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— Example: Analog CO Trunk	
Country: 14	

- Trunk Type: loop-start
- Answer Supervision Timeout: 0

Page 1 of 10 display trunk-group 29 TRUNK GROUP Type: coCDR Reports: yCOR: 1TN: 1TAC: 929 Group Type: co Group Number: 29 Group Name: slov ana co Direction: two-way Outgoing Display? n Busy Threshold: 99 Dial Access? y Country: 14 Night Service: Queue Length: 0 Incoming Destination: attd Comm Type: voice Auth Code? n Digit Absorption List: Trunk Flash? n Prefix-1? y Toll Restricted? y TRUNK PARAMETERS Trunk Type: loop-start Outgoing Dial Type: tone Cut-Through? n Trunk Termination: rc Disconnect Timing(msec): 500 Auto Guard? n Call Still Held? n Sig Bit Inversion: none RA Trunk Loss: 0db Terminal Balanced? n Trunk Gain: high Disconnect Supervision - In? y Out? n Cyclical Hunt? n Answer Supervision Timeout: 0 Receive Answer Supervision? y

display trunk-group 29 TRUNK FEATURES ACA Assignment? n Measured: none Maintenance Tests? y Data Restriction? n Abandoned Call Search? n Suppress # Outpulsing? n DEFINITY® Enterprise Communications Server Application Notes for Type Approval

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(display trunk-group 29			
		TRUNK	GROUP	
	ADMINISTRABLE TIMERS			
	Incoming Disconnect(msec):	500	Outgoing Disconnect(msec):	500
			Outgoing Dial Guard(msec):	1600
	Incoming Glare Guard(msec):	1500	Outgoing Glare Guard(msec):	1500
	Ringing Monitor(msec):	5200	Incoming Seizure(msec):	500
	Outgoing End of Dial(sec):	10	Outgoing Seizure Response(sec):	5
	Programmed Dial Pause(msec):	1500		
	Flash Length(msec):	540		
l				

display trunk-group 29 TRUNK GROUP ADMINISTRABLE TIMERS Incoming Disconnect(msec): 500 Outgoing Disconnect(msec): 500 Outgoing Dial Guard(msec): 1600 Incoming Glare Guard(msec): 1500 Outgoing Glare Guard(msec): 1500 Ringing Monitor(msec): 5200 Incoming Seizure(msec): 500 Outgoing End of Dial(sec): 10 Outgoing Seizure Response(sec): 5 Programmed Dial Pause(msec): 1500 Flash Length(msec): 540 END TO END SIGNALING Tone(msec): 350 Pause(msec): 150 OUTPULSING INFORMATION PPS: 10 Make(msec): 40 Break(msec): 60 PPM? n

DID Trunk Groups

Example: MFC Signaling DID

Country: 14

display trunk-group 31			Page 1	of 10
display claim group si			i age i	01 10
	TRUNK GI	ROUP		
Group Number: 31	Group	Type: di	d CDR Reports	: у
Group Name: slovak mf	did	COR: 1	TN: 1 TAC	: 931
	Country: 14		CO Type:	digital
	Auth	Code? n		
TRUNK PARAMETERS				
Trunk Type:	immed-start	Incomin	g Rotary Timeout(sec):	5
			Incoming Dial Type:	mf
Trunk Termination:	rc	Di	sconnect Timing(msec):	500
Digit Treatment:			Digits:	
Expected Digits:			Sig Bit Inversion:	none
Terminal Balanced?	n		RA Trunk Loss:	0db
Extended Loop Range?	n Trunk	Gain: hi	gh Drop Treatment:	silence
Disconnect Supervision	- In? n			

Application Notes for Type Approval *Slovak Republic*

(display trunk-group 31 TRUNK FEATURES		Page 2 of 10	
	ACA Assignment? n	Measured: none	Maintenance Tests? y	
	Suppress # Outpulsing? n	Data Restriction? n		

- Incoming Disconnect (msec): 90
- Incoming Dial Guard (msec): 1500 (to mask problem detection glitches as digits)

display trunk-group 31 Page 3 of 10 TRUNK GROUP ADMINISTRABLE TIMERS Incoming Disconnect(msec): 90 Incoming Dial Guard(msec): 1500 Flash Length(msec): 540 Incoming Incomplete Dial Alarm(sec): 255 END TO END SIGNALING Tone(msec): 350 Pause(msec): 150

- Example: Rotary Signaling Digital DID

- Country: 14
- Trunk Type: immed-start
- Incoming Dial Type: rotary

```
display trunk-group 32
                                                            Page 1 of 10
                              TRUNK GROUP
                                Group Type: did
                                                        CDR Reports: y
Group Number: 32
  Group Name: slovak did dec
                                       COR: 1
                                                    TN: 1
                                                                TAC: 932
                                                          CO Type: digital
                     Country: 14
                                 Auth Code? n
TRUNK PARAMETERS
            Trunk Type: immed-start Incoming Rotary Timeout(sec): 5
                                                 Incoming Dial Type: rotary
     Trunk Termination: rc
                                            Disconnect Timing(msec): 500
       Digit Treatment:
                                                           Digits:
       Expected Digits:
                                                  Sig Bit Inversion: none
     Terminal Balanced? n
                                                     RA Trunk Loss: 0db
   Extended Loop Range? n
                           Trunk Gain: high
                                                   Drop Treatment: silence
 Disconnect Supervision - In? n
```

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(/ display trunk-group 32 TRUNK FEATURES		Page	2 of	10
	ACA Assignment? n	Measured: none	Maintenance	Tests?	У
	Suppress # Outpulsing? n	Data Restriction? n			

- Incoming Disconnect (msec): 90
- Incoming Dial Guard (msec): 70

Digital Trunk Administration

22.

This section does not list all possible valid administrable combinations. Rather the most common or standard combination, compatible with public-network and Type Approval standards for each country, is presented.

- CO Trunks
 - DS1 Administration Screen ²²
 - Circuit Pack: TN464D (not entered as an administrable item)
 - Bit Rate: 2.048
 - Interface Companding: A-law
 - Line Coding: HDB3
 - Signaling Mode: CAS
 - Country Protocol: 14
 - Interconnect: CO

DS1 is also analogous to the term E1 that has been coined for the European T1 or 2 mbit interface.

- CRC?: No
- Idle Code: 01010100
- Trunk Group Administration Screen (Timing)

Digital trunk timing values should be set as for analog CO trunks.

- DID Trunks
 - DS1 Administration Screen
 - Circuit Pack: TN464D (not entered as an administrable item)
 - Bit Rate: 2.048
 - Interface Companding: A-law
 - Line Coding: HDB3
 - Signaling Mode: CAS
 - Country Protocol: 14
 - Interconnect: CO
 - CRC?: No
 - Idle Code: 01010100
 - Trunk Group Administration Screen (Timing)

Digital trunk timing values should be set as for analog DID trunks.

- Tie Trunks
 - Non-ISDN Signaling Example (DS1 Administration Screen)
 - Circuit Pack: TN464D (Not entered as administrable item)
 - Bit Rate: 2.048
 - Interface Companding: A-law
 - Line Coding: HDB3
 - Signaling Mode: CAS
 - Country Protocol: 14
 - Interconnect: pbx
 - CRC?: no
 - Idle Code: 01010100

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Application Notes for Type Approval *South Africa*

Table 53 shows the recommended circuit packs.

Table 53.	Recommended and Available CPs in South Africa

Equipment	Equipment Type
Cabinet Type & Power	GAC-MCC DC-MCC AC-SCC DC-SCC AC-CSCC AC-CMC
AC Power Voltage & Freq	220V/50Hz 230V/50Hz
Ring Generator	25Hz
Tone Detector	>TN2182B >TN744D
Tone Clock	>TN2182B
R2MFC Circuit	>TN744D
Speech Synthesizer	>TN457
Call Classifier	>TN744D
Announcement	>TN750C TN750B
Analog DID Trunk	
Analog CO Trunk (No PPM)	
Analog CO Trunk (w/PPM)	
4 Wire Tie Trunk	
2 Wire Tie Trunk	
Auxiliary Trunk	
Digital CO/DID Trunk	>TN464F
Digital Tie Trunk	>TN464F
Digital PRI CO Trunk	
Digital BRI Trunk	>TN2185
Digital Converter PRI-DASS	
Digital Converter PRI-DPNSS	
Digital Converter PRI-BRI	
8 Port Analog Line	n/a
16 Port Analog Line	>TN2183
24 Port Analog Line	n/a

Continued on next page

Equipment	Equipment Type
4 Wire Digital Line	>TN754B
2 Wire Digital Line	#TN2224 >TN2181
Data Line	>TN726B
BRI-U Line	
BRI-ST Line	

Table 53. Recommended and Available CPs in South Africa — Continued

Feature Administration

The screen displays shown in this section were effective the date the type approval was awarded. The screens may have changed since that date.

Only those feature-related parameters that may have a Type Approval or basic connectivity implication for a particular country are listed here.

ARS/AAR Administration

To enable ARS administration, on the System-Parameters Customer-Options screen, set the ARS field to **y**. You also should check all ARS/AAR defaults. All default ARS analysis codes are deleted before dialed strings are added for routing when DEFINITY is installed outside of North America. Be aware that the default for the 10 digits cause dialing problems. In particular, the following call types (appear as ARS/AAR defaults) typically are not used in non-North American ARS/AAR tables:

fnpa:	North American numbers with an area code.
hnpa:	North American numbers without an area code.
SVC:	North American numbers of the screen "x11".

Lucent recommends only the following call types be used outside North America:

int:	For all international numbers.
natl:	For all national PN numbers.
pubu:	For all other external (that is, not extensions) numbers.

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System Parameter Administration			
Only those feature-related parameters that may have a Type Approval or basic connectivity implication for a particular country are listed here.			
 Feature-Related System Parameters Administration 			
change system-parameters features FEATURE-RELATED SYSTEM PARAMETERS	Page 1 of 6		

	-	1 6	~	١
change system-parameters features	Page	l of	6	
FEATURE-RELATED SYSTEM PARAMETERS				
Trunk-to-Trunk Transfer: none	2			
Coverage Subsequent Redirection No Answer Interval: 2				
Coverage - Caller Response Interval (seconds): 4				
Keep Held SBA at Coverage Point? y				
Automatic Callback - No Answer Timeout Interval (rings): 3				
Call Park Timeout Interval (minutes): 10				
Off-Premises Tone Detect Timeout Interval (seconds): 20				
AAR/ARS Dial Tone Required? y				
Music/Tone on Hold: none	2			
Music (or Silence) on Transferred Trunk Calls? no				
DID/Tie/ISDN Intercept Treatment: 2500	h			
Messaging Service Adjunct (MSA) Connected? n	,			
Internal Automatic Answer for Attendant Extended Calls? n				
Automatic Circuit Assurance (ACA) Enabled? n				
				Ϊ

/									
ch	ange system-p	arameters	features			Page	2 of	6	,
			FEATURE-RE	LATED SYST	EM PARAMETERS				
I	EAVE WORD CAL	LING PARA	METERS						
	Maximum Num	ber of Me	ssages Per	Station (wh	nen MSA not in	service):	10		
	Stations wi	th System	-wide Retri	eval Permis	ssion (enter e	xtension)			
	1:	3:	5:	7:	9:				
	2:	4:	6:	8:	10:				
	WARNING: SECURITY VIO THE SYSTEM-P.	Termi LATION NC	nal Transla TIFICATION	(SVN) PARA	RE CHANGING TT alization (TTI METERS HAVE MC) Enables?	n		
)

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Application Notes for Type Approval South Africa

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change system-parameters features Page 3 of 6 FEATURE-RELATED SYSTEM PARAMETERS Reserved Slots for Attendant Priority Queue: 5 Time before Off-hook Alert: 10 Emergency Access Redirection Extension: Service Observing Warning Tone? y Call Pickup Alerting? y Deluxe Paging and Call Park Timeout to Originator? n Controlled Outward Restriction Intercept Treatment: tone Controlled Termination Restriction (Do Not Disturb): tone Controlled Station to Station Restriction : tone AUTHORIZATION CODE PARAMETERS Authorization Codes Enabled: n

change system-parameters features Page 4 of б FEATURE-RELATED SYSTEM PARAMETERS SYSTEM PRINTER PARAMETERS System Printer Extension Lines Per Page: 60 EIA Device Bit Rate: 9600 SYSTEM-WIDE PARAMETERS Switch Name: CALL CENTER SYSTEM PARAMETERS Direct Agent Announcement Delay: Converse First Data Delay: 0 Direct Agent Announcement Extension: Converse Second Data Delay: 2 CALL MANAGEMENT SYSTEM PARAMETERS BCMS Measurement Interval: hour BCMS/VuStats Abandon Call Timer (seconds): ACD Login Identification Length: 0 Adjunct CMS Release: MALICIOUS CALL TRACE PARAMETERS Apply MCT Warning Tone? n MCT Voice Recorder Trunk Group:

DEFINITY® Enterprise Communications Server Application Notes for Type Approval

Application Notes for Type Approval *South Africa*

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1					
(system-parameters features Page	: 5	of	6	1
L	FEATURE-RELATED SYSTEM PARAMETERS				
L	Public Network Trunks on Conference Call:	1			
L	Conference Parties with Public Network Trunks:	3			
	Conference Parties without Public Network Trunks:	6			
	Night Service Disconnect Timer (seconds):	180	1		
	Short Interdigit Timer (seconds):	3			
	Unanswered DID Call Timer (seconds):				
	Line Intercept Tone Timer (seconds):	30			
	Auto Start?	У			
	Auto Hold?	У			
	Attendant Tone?	У			
	Bridging Tone?	У			
	Conference Tone?	n			
	Intrusion Tone?	У			
	DID Busy Treatment:	ton	le		
	DISTINCTIVE AUDIBLE ALERTING				
	Internal: 2 External: 2 Priority	: 3			
l)
)					

/						
, '	display system-parameters features	Page	б	of	6	
	FEATURE-RELATED SYSTEM PARAMETERS					
	Pull Tr	ansfer:	n			
	Level Of Tone Det	ection:	med	lium		
	Wait Answer Supervision	Timer?	У			
	Repetitive Call Waitin	g Tone?	У			
	Repetitive Call Waiting interval	(sec):	4			
	Outpulse Withou	t Tone?	У			
	Network Feedback During Tone Det	ection?	У			
	Intercept Treatment On Failed Trunk Tra	nsfers?	n			
	Vector Disconnect Timer	(min):				
	Station Busy Tone Forward Disc	onnect:	int	ercep	t	
	RECALL TIMING					
	Flashhook Interval? y Upper Bound	(msec):	600)		
	Lower Bound	(msec):	200)		
	ENHANCED DCS Enhanced DCS Enabled? n					
(

- System Parameter Multifrequency Signaling Administration
 - Incoming Call Type: group-ii-mfc
 - Outgoing Call Type: group-ii-mfc
 - Maintenance Call Type: none
 - Test Call Extension: Accept default
 - Interdigit Timer (sec): 15
 - Outgoing Forward Signal Present Timer (sec): 20

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- Outgoing Forward Signal Absent Timer (sec): 30
- Multifrequency Signaling Incoming Intercept Treatment?: n
- Received Signal Gain (-Loss) (dB): 0
- Transmitted Signal Gain (-Loss) (dB): -3
- ANI Prefix:
- ANI for PBX:

_

- Next ANI Digit: send-ani
- Collect All Digits Before Seizure? n
- Incoming Forward Signal Types:

GROUP-I	GROUP-II	GROUP-A	GROUP-B
11: ignored	1: normal	1: next-digit	3: busy
12: ignored	2: normal	3: end-of-dial	5: congestion
13: ignored	3: normal		6: free
14: ignored	4: normal		
15: end-of-dial	5: normal		
	6: normal		
	7: normal		
	8: normal		
	9: normal		
	10: normal		
	11: normal		
	12: normal		
	13: normal		
	14: normal		
	15: normal		

Application Notes for Type Approval South Africa

— Outgoing Forward Signal Types:

GROUP-I	GROUP-II	GROUP-A	GROUP-B
15: end-of-digits	2: normal	1: next-digit	1: free
:	5: attendant	2: congestion	2: congestion
:	6: data-call	3: end-of-dial	3: busy
:	:	4: congestion	4: congestion
:	:	5: call-info-ani	5: congestion
	:	6: setup-sppath	6: free
	:	7: last-2-digits	7: intercept
	:	8: last-3-digits	8: congestion
	:	9: congestion	9: congestion
	:	10: congestion	10: congestion
	:	11: congestion	11: congestion
	:	12: congestion	12: congestion
	:	13: congestion	13: congestion
	:	14: congestion	14: congestion
	:	15: congestion	15: congestion

- System Parameter Country Options Administration
 - Companding Mode: A-law
 - Base Tone Generation Set: 13
 - 440Hz PBX-dial Tone? n
 - 440Hz Secondary-dial Tone? n
 - Digital Loss Plan: 13
 - Analogue Ringing Cadence: 10
 - Tone Detection Mode: 5
 - Interdigit Pause: long
 - Dial Tone Validation Timer: 600ms
 - Analog Ringing Cadence: 10
 - Customized tone definitions follow the syntax as specified:

[(Frequency/Level)|silence|goto)][(Duration ms)|(Step)]

Ringback:

- (375+425/-15.0)(400)

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- (silence)(200)
- (375+425/-15.0)(400)
- (silence)(2000)

— (go to)(1)

- Secondary-Dial:
 - (375+425/-15.0)(50)
 - (go to)(1)
- Busy:
 - (404/-11.0)(500)
 - (silence)(500)
 - (goto)(1)
- Intercept:
 - (404/-11.0)(2500)
 - (silence)(500)
 - (goto)(1)
- Reorder:
 - (404/-11.0)(250)
 - (silence)(250)
 - (goto)(1)

Trunk Administration

- BothWay CO Trunk
 - Trunk Gain: low
 - RA Trunk Loss: 0dB
 - Make/Break Ratio: 35/65

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change trunk-group 1 Page 1 of 10 TRUNK GROUP Group Number: 1 TAC: 30 Direction: two-way Outgoing Display? n Dilection Provide Dilection Provide Pr Busy Threshold: 99 Night Service: Country: 13 Incoming Destination: 2100 Queue Length: 0 Auth Code? n Digit Absorption List: Trunk Flash? n Toll Restricted? Prefix-1? n Toll Restricted? n TRUNK PARAMETERS Trunk Type: loop-start Outgoing Dial Type: tone Cut-Through? n Trunk Termination: rc Disconnect Timing(msec): 500 Auto Guard? n Call Still Held? n Sig Bit Inversion: none Terminal Balanced? n RA Trunk Loss: 0db Trunk Gain: low Disconnect Supervision - In? y Out? n Answer Supervision Timeout: 10 Receive Answer Supervision? n

change trunk-group 1 Page 2 of 10 TRUNK FEATURES ACA Assignment? n Measured: none Data Restriction? n Abandoned Call Search? n Suppress # Outpulsing? n Application Notes for Type Approval *South Africa*

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		````
(	change trunk-group 1 Page 3 of	10
	TRUNK GROUP	
	ADMINISTRABLE TIMERS	
	Incoming Disconnect(msec): 500 Outgoing Disconnect(msec):	500
	Outgoing Dial Guard(msec):	1600
	Incoming Glare Guard(msec): 1500 Outgoing Glare Guard(msec):	
		1000
	Ringing Monitor(msec): 5200 Incoming Seizure(msec):	500
	Outgoing End of Dial(sec): 10 Outgoing Seizure Response(sec):	5
	Programmed Dial Pause(msec): 1500	
	Flash Length(msec): 540	
	END TO END SIGNALING	
	Tone(msec): 350 Pause(msec): 150	
	OUTPULSING INFORMATION	
	PPS: 10 Make(msec): 35 Break(msec): 65 PPM? n	
	FF5. 10 MARC(MBC), 55 BLCAR(MBC), 05 FFM: II	
/		

Analogue E&M Trunk (setup as wink/wink for Transtel)

- Make/Break Ratio: 35/65

change trunk-group 2 Page 1 of 10 TRUNK GROUP Group Type: tie CDR Reports: y Group Number: 2 Group Name: e&m Group Name:e&mCOR:1TAC:Direction:two-wayOutgoing Display?nTrunk Signaling Type:ial Access?yBusy Threshold:99Night Service: TAC: 31 Dial Access? y Queue Length: 0 Incoming Destination: Comm Type: voice Auth Code? n TRUNK PARAMETERS (tone or rotary) Trunk Type (in/out): immed/immed Incoming Rotary Timeout (sec): 10 Incoming Dial Type: rotary Outgoing Dial Type: rotary Disconnect Timing(msec): 500 Digit Treatment: Digits: Sig Bit Inversion: none Connected to Toll? n STT Loss: normal DTT to DCO Loss: normal Incoming Dial Tone? y Disconnect Supervision - In? y Out? n Answer Supervision Timeout: 10 Receive Answer Supervision? n

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```
change trunk-group 2 Page 2 of 10

TRUNK FEATURES

ACA Assignment? n Measured: none

Internal Alert? n Maintenance Tests? n

Data Restriction? n

Abandoned Call Search? n

Suppress # Outpulsing? n

Used for DCS? n

Suppress # Outpulsing? n

Seize When Maintenance Busy: neither-end
```

```
change trunk-group 2
 Page 3 of 10
 TRUNK GROUP
ADMINISTRABLE TIMERS
 Incoming Disconnect(msec): 500
 Outgoing Disconnect(msec): 500
 Incoming Dial Guard (msec): 70
 Outgoing Dial Guard(msec): 1600
 Incoming Glare Guard (msec): 1500
 Outgoing Glare Guard(msec): 1500
 Incoming Partial Dial (sec): 18
 Outgoing Rotary Dial Interdigit (msec): 800
 Outgoing End of Dial(sec): 10
 Outgoing Seizure Response(sec): 5
Programmed Dial Pause(msec): 10
 Disconnect Signal Error (sec): 240
 Incoming Incomplete Dial Alarm (sec): 255
 END TO END SIGNALING
 Tone(msec): 350
 Pause(msec): 150
OUTPULSING INFORMATION
 PPS: 10 Make(msec): 35 Break(msec): 65
```

MFC-R2 DID

— Country: 8

- Trunk Gain: low

# DEFINITY® Enterprise Communications Server Application Notes for Type Approval

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change trunk-group 3 Page 1 of 10 TRUNK GROUP Group Number: 3 Group Type: did CDR Reports: n TAC: 32 Group Name: MFC-R2 COR: 1 Country: 8 Auth Code? n Trunk Flash? n Prefix-1? n Toll Restricted? n TRUNK PARAMETERS Trunk Type: immed-start Incoming Rotary Timeout (sec): 5 Incoming Dial Type: mf Trunk Termination: rc Disconnect Timing(msec): 500 Digit Treatment: Digits: Expected Digits: 4 Sig Bit Inversion: none RA Trunk Loss: 2db Terminal Balanced? n Trunk Gain: low Extended Loop Range? n Drop Treatment: silence Disconnect Supervision - In? y

change trunk-group 3 TRUNK FEATURES ACA Assignment? n Measured: none Maintenance Tests? y Data Restriction? n Suppress # Outpulsing? n Application Notes for Type Approval South Africa

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#### MFC-R2 Outgoing

```
change trunk-group 5
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 TRUNK GROUP
Group Number: 5
 Group Type: diod
 CDR Reports: y
 Group Name: outgoing mfc COR: 1 TAC: 5
Direction: two-way Outgoing Display? n Trunk Signaling Type:
 Group Name: outgoing mfc
 TAC: 35
 Dial Access? y
 Busy Threshold: 99
 Night Service:
Queue Length: 0
 Country: 8
 Auth Code? n Digit Absorption List:
 Prefix-1? y
 Trunk Flash? n
 Toll Restricted? y
TRUNK PARAMETERS
 Trunk Type : immed-start
 Outgoing Dial Type: mf
 Incoming Dial Type: mf
 Trunk Termination: rc
 Digit Treatment:
 Digits:
 Expected Digits: 4
 Sig Bit Inversion: none
 RA Trunk Loss: 0db
 Terminal Balanced? n
 Trunk Gain: low
 Drop Treatment: silence
 Disconnect Supervision - In? y Out? n
 Answer Supervision Timeout: 10
 Receive Answer Supervision? n
```

 $\label{eq:def-DEFINITY} \begin{array}{l} \textbf{DEFINITY} \circledast \ \textbf{Enterprise Communications Server Application Notes} \\ \textbf{for Type Approval} \end{array}$ 

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change trunk-group 5 TRUNK FEATURES	Page 2 of 10
ACA Assignment? n Measured: none	Maintenana Mastal
Data Restriction? n	Maintenance Tests? y
Suppress # Outpulsing? n	

/						
C	change trunk-group 5		Pag	ge 3	of	10
		TRUNK GROUP				
	ADMINISTRABLE TIMERS					
	Incoming Disconnect(msec): 5	500	Outgoing Disconned	ct(msec	): 5	00
	Incoming Dial Guard (msec): 7	70	Outgoing Dial Guar	rd(msec	): 1	600
	Incoming Glare Guard (msec): 1	1500	Outgoing Glare Guar	rd(msec	): 1	500
	Ringing Monitor (msec): 5		Incoming Seizu		,	
	Outgoing End of Dial(sec): 1	9	ing Seizure Respons	se (mse	с):	5
	Programmed Dial Pause(msec): 1	1500				
	Flash Length (msec): 5	5 Incoming	Incomplete Dial Ala	arm (se	с):	255
	END TO END SIGNALING					
	Tone(msec): 350 Pause(	(msec): 150				
	OUTPULSING INFORMATION					
	PPS: 10 Make(msec): 35	Break(msec):	65 PPM? n			
< l>						/

A-Bit E1 Trunk for Transtel

# $\ensuremath{\mathsf{DEFINITY}}\xspace^{\ensuremath{\mathsf{B}}}$ Enterprise Communications Server Application Notes for Type Approval

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change trunk-group 6	Page 1 of 10					
TRUNK GROUP						
Group Number: 6 Group Type:	tie CDR Reports: y					
Group Name: a bit COR:	1 TAC: 36					
Direction: two-way Outgoing Display?	n Trunk Signaling Type:					
Dial Access? y Busy Threshold:	99 Night Service:					
Queue Length: 0	Incoming Destination:					
Comm Type: voice Auth Code?	n					
Outgoing Dial Type: tone Digit Treatment: Connected to Toll? n STT Loss: norm Incoming Dial Tone? n	ing Rotary Timeout (sec): 5 Incoming Dial Type: tone Disconnect Timing(msec): 500 Digits: Sig Bit Inversion: none al DTT to DCO Loss: normal					
Disconnect Supervision - In? y Out? n Answer Supervision Timeout: 10 F	eceive Answer Supervision? n					

nge trunk-group 6 RUNK FEATURES			Page	2 of 1	LO
ACA Assignment? n	Measured: Internal Alert? Data Restriction?	n Main	ntenance	Tests?	У
Used for DCS? n Suppress # Outpulsing? n Seize When	Maintenance Busy: 1	neither-end			,

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```
change trunk-group 6
 Page
 3 of 10
 TRUNK GROUP
 ADMINISTRABLE TIMERS
 Incoming Disconnect(msec): 500
 Outgoing Disconnect(msec): 500
 Incoming Dial Guard (msec): 70
 Outgoing Dial Guard(msec): 1600
 Incoming Glare Guard (msec): 1500
 Outgoing Glare Guard(msec): 1500
 Outgoing End of Dial(sec): 10
 Outgoing Seizure Response(sec): 5
 Programmed Dial Pause(msec): 1500
 Disconnect Signal Error (sec): 240
 Incoming Incomplete Dial Alarm (sec): 255
 END TO END SIGNALING
 Tone(msec): 350
 Pause(msec): 150
 OUTPULSING INFORMATION
 PPS: 10 Make(msec): 40 Break(msec): 60
```

# **Station Administration**

The administrator can select "user-defined" on station administration and attendant administration to pick a display language for the corresponding display set user.

- 603/302B1 Terminal Parameters
  - Default Parameter Set: 13
  - Customize Parameters: Y
  - Primary Levels:
    - Voice Transmit (dB): +13.0
    - Voice Sidetone (dB): -21.5
    - Voice Receive (dB): -8.5
- 8434 Terminal Parameters
  - Default Parameter Set: 13
  - Customize Parameters: Y
  - Primary Levels:
    - Voice Transmit (dB): +12.0
    - Voice Sidetone (dB): -5.0
    - Voice Receive (dB): -11.5

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- 8403/8410 Terminal Parameters
  - Default Parameter Set: 13
  - Customize Parameters: Y
  - Primary Levels:
    - Voice Transmit (dB): +9.0
    - Voice Sidetone (dB): -5.0
    - Voice Receive (dB): -11.5

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# Spain

Table 54 shows the recommended circuit packs.

# Table 54. Recommended and Available CPs in Spain

Equipment	Equipment Type
Cabinet Type & Power	GAC-MCC DC-MCC AC-SCC AC-CSCC AC-CMC
AC Power Voltage & Freq	220V/50Hz
Ring Generator	25Hz
Tone Detector	>TN2182B >TN744D TN420C
Tone Clock	>TN2182B TN780
R2MFC Circuit	>TN744D TN744Bv2
Speech Synthesizer	>TN457
Call Classifier	>TN744D
Announcement	TN750C TN750B
Analog DID Trunk	n/a
Analog CO Trunk (No PPM)	>TN2147C
Analog CO Trunk (w/PPM)	>TN465C TN465B
4 Wire Tie Trunk	n/a
2 Wire Tie Trunk	n/a
Auxiliary Trunk	>TN763D
Digital CO/DID Trunk	>TN464F TN464E
Digital Tie Trunk	n/a
Digital PRI CO Trunk	>TN464F TN464E
Digital BRI Trunk	>TN2185
Digital Converter PRI-DASS	
Digital Converter PRI-DPNSS	
Digital Converter PRI-BRI	
8 Port Analog Line	n/a
16 Port Analog Line	#TN2183 >TN2180
24 Port Analog Line	n/a

Equipment	Equipment Type
4 Wire Digital Line	>TN754B
2 Wire Digital Line	#TN2224 >TN2181
Data Line	>TN726B
BRI-U Line	
BRI-ST Line	

# Table 54. Recommended and Available CPs in Spain — Continued

#### **Country-Specific Features**

When the Country Code is 11, the Public Network Call Priority feature (Multifrequency Espana (MFE) Signaling) can be administered on CO and DID trunk groups. See "Public Network Call Priority" feature for information about Call Retention and Re-ring in the DEFINITY ECS Administration and Feature Description.

You can also use the European CEPT Advice of Charge feature in Spain. See DEFINITY ECS Administration and Feature Description for more information on Advice of Charge.

#### **Feature Administration**

The screen displays shown in this section were effective the date the type approval was awarded. The screens may have changed since that date.

Only those feature-related parameters that may have a Type Approval or basic connectivity implication for a particular country are listed here.

# System Parameter Administration

Only those feature-related parameters that may have a Type Approval or basic connectivity implication for a particular country are listed here.

- System Parameters Customer Options
  - ARS: y
  - Multifrequency Signaling: y
- Feature-Related System Parameters Administration
  - Trunk-to-Trunk Transfer: y

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<ul> <li>System Parameter Country Options</li> </ul>	
— Companding Mode: A-law	
— Base Tone Generation Set: 11	
— 440Hz PBX-dial Tone: n	
— 440Hz Secondary-dial Tone: n	
— Digital Loss Plan: 11	
— Analog Line Transmission: 11	
— Analog Ringing Cadence: 11	
— Tone Detection Mode: 4	
<ul> <li>— Dial Tone Validation Timer (msec): 1000</li> </ul>	
— Interdigit Pause: long	
[(Frequency/Level) silence goto)][(Duration ms) (Step)]	
— Ringback Tone:	
■ (425/-4.0)(1500msec)	
<ul><li>(silence)(3000msec)</li></ul>	
■ (goto)(1)	
— Busy Tone:	
<ul> <li>(425/-4.0)(200msec)</li> </ul>	
<ul><li>(silence)(5000msec)</li></ul>	
■ (goto)(1)	
— Reorder Tone:	
<ul> <li>(425/-4.0)(200msec)</li> </ul>	
<ul><li>(silence)(200msec)</li></ul>	
<ul> <li>(425/-4).0(200msec)</li> </ul>	
<ul><li>(silence)(200msec)</li></ul>	
<ul> <li>(425/-4.0)(200msec)</li> </ul>	
<ul><li>(silence)(600msec)</li></ul>	
■ (goto)(1)	
— Intercept Tone:	
■ (425/-4.0)(200msec)	
■ (silence)(200msec)	
■ (425/-4.0)(200msec)	
<ul><li>(silence)(600msec)</li></ul>	

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- (goto)(1)
- 1 Call Wait Tone:
  - (425/-11.0)(150msec)
  - (silence)(150msec)
  - (425/-11.0)(150msec)
- Intrusion:
  - (1400/-11.0)(400msec)
  - (silence)(5000msec)
  - (goto)(1)

# **Analog Trunk Administration**

- Analog CO Trunks
  - Trunk Group Screen
    - Group Type: CO
    - Direction: two-way
    - Dial Access: n
    - Country: 11
    - Prefix-1: n
    - Trunk Flash: y
    - Toll Restricted: n
    - Trunk Type: loop-start
    - Outgoing Dial Type: tone or rotary (as accepted by serving switch).
    - Cut-Through: n
    - Trunk Termination: rc
    - Disconnect Timing (msec): 500
    - Auto Guard: n
    - Call Still Held: n
    - Sig Bit Inversion: none
    - The following table gives administrative values that are based on the length of the trunk loop:

	Loop Length	Trunk Gain	Terminal Balance	RA Trunk Loss
-	short	low	n	0dB
	long	high	n	2dB

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- Disconnect Supervision In: v	

- Disconnect Supervision In: y
- Disconnect Supervision Out: n
- Cyclical Hunt: y
- Type Approval Lab Testing without Battery Reverse:
  - Answer Supervision Timeout: 5
  - Receive Answer Supervision: n
- For Actual Service with Battery Reverse:
  - Answer supervision Timeout: 0
  - Receive Answer Supervision: y
- Trunk Group Administration Screen (Timing)
  - Incoming Disconnect (msec): 600
  - Outgoing Disconnect (msec): 600
  - Outgoing Dial Guard (msec): 100
  - Incoming Glare Guard (msec): 1000
  - Outgoing Glare Guard (msec): 1000
  - Outgoing Rotary Dial Interdigit (msec): 800
  - Ring Monitor Timer (msec): 5200
  - Incoming Seizure (msec): 800
  - Outgoing Seizure Response (sec): 5
  - Programmed Dial Pause (msec): 1500
  - Flash Length (msec): 100
  - Outgoing Dial Pulse Rate (PPS): 10 pps
  - Outgoing Rotary Digit Dial Make (msec): 35
  - Outgoing Rotary Digit Dial Break (msec): 65
  - PPM: y or n as negotiated with PTT
  - Frequency: 12kHz
- Analog DID Trunk

Spain does not permit the use of analog DID circuits.

Tie Trunks

Private networks are not permitted in Spain; therefore, tie circuits will not be used.

#### ARS/AAR Administration

To place calls, set ARS to ON for CO phone calls. You also should check all ARS/AAR defaults. All default ARS analysis codes are deleted before dialed strings are added for routing when DEFINITY is installed outside of North America. Be aware that the default for the 10 digits cause dialing problems. In particular, the following call types (appear as ARS/AAR defaults) typically are not used in non-North American ARS/AAR tables:

fnpa:	American numbers with an area code.
hnpa:	North American numbers without an area code.

See "Digital Trunk Administration" for more on use of AARS routing patterns.

- Route Pattern administration
  - First Dial Tone Detection (needed on analog CO trunks)
    - Number Delete Digits: 0
    - Inserted Digits: +
  - Second Dial Tone Detection (needed on analog CO trunks for International calls
    - Number Delete Digits: 2 (Dialed String 07)
    - Inserted Digits: +07+

#### **Digital Trunk Administration**

All possible valid administrable combinations are not listed in this section. Only the most common or standard combination, compatible with public-network and Type Approval standards for each country, is presented:

- Multifrequency Signaling
  - Multifrequency-Signaling-Related System Parameters
    - Incoming Call Type: MFE
    - Outgoing Call Type: MFE
    - MFE Type: 2/6
    - Interdigit Timer (sec): 20
    - Multifrequency Signaling Incoming Intercept Treatment: y
    - Received Signal Gain (-Loss)(dB): 0
    - Transmitted Signal Gain (-Loss)(dB): 0
    - ANI Prefix: 538 (as negotiated with serving office)
    - Request Incoming ANI (non-AAR/ARS): y

Application Notes for Type Approval Spain

- ANI for PBX: 538333 (as negotiated with serving office)
- Senderization: y
- Forward Cycle Timer (sec): 5
- Backward Cycle Timer (sec): 5
- Incomplete Dial Timer (sec): 90
- Outgoing Start Timer (sec): 10
- Class Of Restriction
  - Send ANI for MFE: n or y

(y indicates line charging, No indicates block charging.)

Customer choice of Public or IBERCOM serving office using 2/6 signaling.

- DS1 Administration Screen
  - Bit Rate: 2.048
  - Line Coding: hdb3
  - Signaling Mode: CAS
  - Interconnect: CO
  - Country Protocol: 11
  - Interface Companding: alaw
  - CRC: n
  - Idle Code: 01010100
- Digital DID Trunks
  - Trunk Group
    - Group Type: did
    - Country: 11
    - Auth Code: n
  - Trunk Parameters
    - Trunk Type: immed-start
    - Incoming Rotary Timeout (sec): 5
    - Incoming Dial Type: mf
    - Trunk Termination: rc
    - Disconnect Timing (msec): 500
    - Digit Treatment:
      - Expected Digits: 4 (as negotiated with serving switch)

Digits:

— Sig Bit Inversion: none

- Terminal Balanced: n
- RA Trunk Loss: 0db
- Extended Loop Range: n
- Trunk Gain: high
- Drop Treatment: silence
- Disconnect Supervision In: y
- Administrable Timers
  - Incoming Disconnect (msec): 500
  - Incoming Dial Guard (msec): 50
  - Flash Length (msec): 100
  - Incoming Incomplete Dial Alarm (sec): 255
- Digital CO Trunks
  - Trunk Group
    - Group Number: 2
    - Group Type: co
    - CDR Reports: y
    - Direction: two-way
    - Country: 11
    - Prefix-1: n
    - Trunk Flash: n
    - Toll Restricted: n
  - Trunk Parameters
    - Trunk Type: loop-start
    - Outgoing Dial Type: mf
    - Trunk Termination: rc
    - Disconnect Timing (msec): 500
    - Auto Guard: n
    - Call Still Held: n
    - Sig Bit Inversion: none
    - Terminal Balanced: n
    - RA Trunk Loss: 0db

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- Trunk Gain: high
- Disconnect Supervision In: y
- Disconnect Supervision Out: n
- Cyclical Hunt: n
- Answer Supervision Timeout: 60
- Receive Answer Supervision: n
- Administrable Timers
  - Incoming Disconnect (msec): 50
  - Outgoing Disconnect (msec): 600
  - Outgoing Dial Guard (msec): 1000
  - Incoming Glare Guard (msec): 200
  - Outgoing Glare Guard (msec): 200
  - Ringing Monitor (msec): 5200
  - Incoming Seizure (msec): 800
  - Outgoing Seizure Response (sec): 5
  - Programmed Dial Pause (msec): 1500
  - Flash Length (msec): 100
- ARS Administration for MFE Signaling
  - ARS Digit Analysis Table
    - Partitioned Group Number: 1
    - Percent Full: 6

Dialed	Total		Rte	Call
String	Min	Max	Pat	type
1xxxxx	6	7	1	locl
2xxxxx	6	7	1	locl
Зххххх	6	7	1	locl
4xxxxx	6	7	1	locl
5xxxxx	6	7	1	locl
6xxxxx	6	7	1	locl
7xxxxx	6	7	1	locl
8xxxxx	6	7	1	locl
9x0x	4	4	2	nsvc
9100x	5	5	2	emer

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Dialed	Total		Rte	Call
String	Min	Max	Pat	type
9108x	5	5	2	emer
9200x	5	5	2	emer
9xx0x	5	5	2	nsvc
9xxxxxxxx	9	9	2	natl
01x	3	3	1	svc
02x	3	3	1	svc
03x	3	3	1	svc
04x	3	3	1	svc
05x	3	3	1	SCV
06x	3	3	1	SCV
07xxx	5	15	3	int
08x	3	3	1	svc
09x	3	3	1	SVC

" For Public signaling, locI means local

" For Public signaling, svc means local special service

"" For Public signaling, natl means national

"For Public signaling, nsvc means national special service

"For Public signaling, int means international

ARS Digit Analysis Table

- Partitioned Group Number: 1

— Percent Full: 6

Dialed	Total		Rte	Call
String	Min	Max	Pat	type
Зххххх	6	7	1	1pvt
4xxxxx	6	7	1	1pvt
5xxxxx	6	7	1	1pvt
6xxxxx	6	7	1	1pvt
92345xxxx	9	9	2	npvt
93456xxxx	9	9	2	npvt

For IBERCOM 2/6 signaling, 1pvt means local IBERCOM

For IBERCOM 2/6 signaling, npvt means national IBERCOM

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Spain

Pattern Number: 1

— Grp. No: 2

- FRL: 0
- Pattern Number: 2
  - Grp. No: 2
  - FRL: 0
  - No. Del Digits: 1
- Pattern Number: 3
  - Grp. No: 2
  - FRL: 0
  - No. Del Digits: 2

For the patterns where digits are deleted, the call type field from the ARS ANALYSIS screen is transmitted as a special MFE code instead of the deleted digits.

Digital Tie Trunks 

> Private networks are not permitted in Spain; therefore, tie circuits will not be used.

#### **ISDN-PRI**

- ISDN-PRI (Private Network) Signaling Private networks are not permitted in Spain; therefore, ISDN private internetworking is not permitted.
- ISDN-PRI (Public Network)
  - DS1 Administration screen
    - Circuit Pack: TN464D
    - Bit Rate: 2.048
    - Interface Companding: alaw
    - Line Coding: hdb3
    - Signaling Mode: isdn-pri
    - Country Protocol: 1 -
    - Idle Code: 01010100
  - Signaling Group screen
    - Associated Signaling: y
    - Primary D_Channel: xxxx16 (xxxx => depends on CP physical location)

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— Trunk Group Administration screen	

- Group Type: isdn-pri
- Service Type: public_ntwrk

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## Sri Lanka

Table 55 shows the recommended circuit packs.

#### Table 55. Recommended and Available CPs in Sri Lanka

Equipment	Equipment Type
Cabinet Type & Power	GAC-MCC DC-MCC AC-SCC AC-CSCC AC-CMC
AC Power Voltage & Freq	220V/50Hz
Ring Generator	25Hz
Tone Detector	>TN2182B >TN744D
Tone Clock	>TN2182B TN780
R2MFC Circuit	TN744C TN744B
Speech Synthesizer	>TN433
Call Classifier	>TN744D
Announcement	TN750C TN750B TN750
Analog DID Trunk	>TN753
Analog CO Trunk (No PPM)	TN747B
Analog CO Trunk (w/PPM)	#TN465C
4 Wire Tie Trunk	>TN760D
2 Wire Tie Trunk	n/a
Auxiliary Trunk	>TN763D
Digital CO/DID Trunk	>TN2464
Digital Tie Trunk	>TN2464
Digital PRI CO Trunk	TN2464
Digital BRI Trunk	>TN2185
Digital Converter PRI-DASS	n/a
Digital Converter PRI-DPNSS	n/a
Digital Converter PRI-BRI	
8 Port Analog Line	TN746B
16 Port Analog Line	#TN746B TN791
24 Port Analog Line	TN2793

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Equipment	Equipment Type
4 Wire Digital Line	>TN754C
2 Wire Digital Line	#TN2214 >TN2181
Data Line	>TN726B
BRI-U Line	
BRI-ST Line	TN556B

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Application Notes for Type Approval *Switzerland* 

Table 56 shows the recommended circuit packs.

#### Table 56. Recommended and Available CPs in Switzerland

Equipment	Equipment Type
Cabinet Type & Power	DC-MCC AC-SCC AC-CSCC AC-CMC
AC Power Voltage & Freq	220V/50Hz
Ring Generator	25Hz
Tone Detector	>TN2182B >TN744D TN420C
Tone Clock	>TN2182B TN780
R2MFC Circuit	>TN744D
Speech Synthesizer	>TN457
Call Classifier	>TN744D
Announcement	TN750C TN750B
Analog DID Trunk	
Analog CO Trunk (No PPM)	
Analog CO Trunk (w/PPM)	
4 Wire Tie Trunk	
2 Wire Tie Trunk	
Auxiliary Trunk	
Digital CO/DID Trunk	TN464F
Digital Tie Trunk	>TN464F
Digital PRI CO Trunk	
Digital BRI Trunk	>TN2185
Digital Converter PRI-DASS	
Digital Converter PRI-DPNSS	
Digital Converter PRI-BRI	
8 Port Analog Line	n/a
16 Port Analog Line	>TN2183
24 Port Analog Line	n/a

Equipment	Equipment Type
4 Wire Digital Line	>TN754B
2 Wire Digital Line	#TN2224 >TN2181
Data Line	>TN726B
BRI-U Line	

**BRI-ST** Line

### Table 56. Recommended and Available CPs in Switzerland — Continued

	® Ente Approv	rise	Comm	nications Server	Application Notes	
		_				

Application Notes for Type Approval *Taiwan* 

### Taiwan

Table 57 shows the recommended circuit packs.

#### Table 57. Recommended and Available CPs in Taiwan

Equipment	Equipment Type
Cabinet Type & Power	GAC-MCC AC-MCC DC-MCC AC-SCC DC-SCC AC-CSCC AC-CMC
AC Power Voltage & Freq	110V/60Hz 220V/60Hz
Ring Generator	20Hz
Tone Detector	>TN2182B >TN744D TN748D TN756
Tone Clock	>TN2182B TN780 TN756
R2MFC Circuit	n/a
Speech Synthesizer	>TN725B
Call Classifier	>TN744D
Announcement	TN750C TN750B
Analog DID Trunk	>TN753
Analog CO Trunk (No PPM)	>TN747B
Analog CO Trunk (w/PPM)	
4 Wire Tie Trunk	>TN760D
2 Wire Tie Trunk	
Auxiliary Trunk	>TN763D TN763C
Digital CO/DID Trunk	
Digital Tie Trunk	>TN464F TN464E TN464D TN464C TN767
Digital PRI CO Trunk	n/a
Digital BRI Trunk	>TN2185
Digital Converter PRI-DASS	
Digital Converter PRI-DPNSS	
Digital Converter PRI-BRI	
8 Port Analog Line	TN742
16 Port Analog Line	>TN746B
24 Port Analog Line	TN2793

Equipment	Equipment Type
4 Wire Digital Line	>TN754B
2 Wire Digital Line	#TN2224 >TN2181
Data Line	>TN726B
BRI-U Line	
BRI-ST Line	

#### Table 57. Recommended and Available CPs in Taiwan — Continued

#### Feature Administration

The screen displays shown in this section were effective the date the type approval was awarded. The screens may have changed since that date.

Only those feature-related parameters that may have a Type Approval or basic connectivity implication for a particular country are listed here.

ARS/AAR Administration

To enable ARS administration, on the System-Parameters Customer-Options screen, set the ARS field to **y**. You also should check all ARS/AAR defaults. All default ARS analysis codes are deleted before dialed strings are added for routing when DEFINITY is installed outside of North America. Be aware that the default for the 10 digits cause dialing problems. In particular, the following call types (appear as ARS/AAR defaults) typically are not used in non-North American ARS/AAR tables:

fnpa:	North American numbers with an area code.
hnpa:	North American numbers without an area code.
SVC:	North American numbers of the screen "x11".

Lucent recommends only the following call types be used outside North America:

int:	For all international numbers.
natl:	For all national PN numbers.
pubu:	For all other external (that is, not extensions) numbers.

Application Notes for Type Approval *Taiwan* 

#### System Parameter Administration

Only those feature-related parameters that may have a Type Approval or basic connectivity implication for a particular country are listed here.

- Feature-Related System Parameters Administration
  - Trunk-to-Trunk Transfer: Permitted by country's regulations -Selection is customer's choice.
  - Public Network Trunks on Conference Call: 5
  - Conference Parties With PNTs: 6
  - Conference Parties Without PNTs: 6
  - Line Intercept Tone Timer: 30
  - Night Service Disconnect Timer: 180 sec
  - Short Interdigit Timer: 3 sec
  - Unanswered DID Call Timer: 60
  - Auto-Hold: Yes 23
  - Attendant Tone: Yes
  - Bridging Tone: No
  - Conference Tone: No
  - Intrusion Tone: Yes
  - Repetitive Call Waiting Tone: No
  - DID Busy Treatment: Attendant
  - Pull Transfer: No
  - Level of Tone Detection: Broadband
  - Outpulse Without Tone: Yes
  - (Station-to-switch) Recall Timing:
    - Flashhook Interval: Yes
    - Upper Bound: 1000 ms
    - Lower Bound: 200 ms
- Country Options Parameters

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- Companding Mode: mu-law
- Base Tone Generation Set: 1
- Tone Detection Mode: default
- Interdigit Pause: default

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- Digital Loss Plan: 1
- Analog Ringing Cadence: 1
- 440 Hz PBX-dial Tone: yes
- 440 Hz Secondary-dial Tone: no

#### **Analog Trunk Administration**

- CO Trunks
  - Trunk Group Screen
    - Group Type: CO
    - Country: 1
    - Trunk Gain: high
    - Direction: two-way
    - Digit Absorption List: blank
    - Prefix-1: No
    - Trunk Type: loop-start
    - Outgoing Dial Type: tone
    - Trunk Termination: rc (complex impedance)
    - Auto Guard: no
    - Dial Access: yes
    - Call Still Held: no
    - Terminal Balanced: yes
    - Receive Answer Supervision: no
    - Answer Supervision Timeout: 10 (This sets both the CP firmware timer and software timer. Set to 0 for any trunk that will receive answer supervision.)
    - Disconnect Supervision In: no
    - Disconnect Supervision Out: Selection is customer's choice.
    - Disconnect Timing: 500 ms (This field will not be used with CPs that can accept the Incoming Disconnect and Outgoing Disconnect timers. Set these latter two timers from the Administrable Timers Screen.)
  - Trunk Group Administration Screen (Timing)

Set the following timers from the Administrable Timers screen during administration of each trunk group. Select the following CO trunk timer values for this country:

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<ul> <li>Incoming Disconnect: 500 ms</li> <li>Outgoing Disconnect: 500 ms</li> <li>Outgoing Dial Guard: 1600 ms</li> <li>Incoming Glare Guard: 1500 ms</li> <li>Outgoing Glare Guard: 1500 ms</li> <li>Outgoing Dial Pulse Rate (PPS): 10 pps</li> <li>Outgoing Rotary Digit Dial Make: 35 ms</li> <li>Outgoing Rotary Digit Dial Break: 65 ms</li> <li>Outgoing Rotary Dial Interdigit: 800 ms</li> <li>Ring Monitor Timer: 5200 ms</li> <li>Incoming Seizure: 500 ms</li> <li>Outgoing End-of-Dial: 10 sec</li> <li>Outgoing Seizure Response: 240 sec</li> </ul>	440
<ul> <li>Programmed Dial Pause: 1500 ms</li> <li>Disconnect Signal Error: 240 sec</li> <li>Flash Length: 100 ms</li> <li>PPM: no</li> </ul>	
<ul> <li>DID Trunks</li> <li>Trunk Group Screen</li> <li>Group Type: DID</li> <li>Country: 1</li> <li>Trunk Gain: high</li> </ul>	
<ul> <li>Digit Absorption List: blank</li> </ul>	

- Incoming Dial Type: tone
- Trunk Type: immed-start
- Trunk Termination: rc (complex impedance)
- Disconnect Supervision: no
- Disconnect Timing: 500 ms (This field will not be used with CPs that can accept the Incoming Disconnect and Outgoing Disconnect timers. Set these latter two timers from the Administrable Timers Screen.)
- Digit Treatment: blank
- Digits: blank
- Expected Digits: depends on system size and numbering plan

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- Terminal Balanced: yes
- Extended Loop Range: (Used Only with TN459) no
- Drop Treatment: silence
- Incoming Rotary Timeout (sec): 5 sec (This field will not be used with CPs that can accept the Incoming Partial Dial timer. Set this timer from the Administrable Timers Screen.)
- Trunk Group Administration Screen (Timing)

Set the following timers from the Administrable Timers screen during administration of each trunk group. Select the following DID trunk timer values for this country:

- Incoming Disconnect: 500 ms
- Incoming Dial Guard: 50 ms
- Incoming Partial Dial: 18 sec
- Incoming Incomplete Dial: 255 sec
- Flash Length: 100 ms
- Tie Trunks

No special Type Approval regulations apply. Tie trunks are administered on a case-by-case basis.

#### **Digital Trunk Administration**

This section does not list all possible valid administrable combinations. Rather the most common or standard combination, compatible with public-network and Type Approval standards for each country, is presented:

CO Trunks

Not available in this country.

DID Trunks

Not available in this country.

- Tie Trunks
  - Non-ISDN Signaling Example (DS1 Administration screen)
    - Circuit Pack: TN464D (or TN464C,TN767)
    - Bit Rate: 1.544
    - Interface Companding: mu-law
    - Line Coding: B8ZS
    - Line Compensation: 1
    - Framing Mode: esf
    - Signaling Mode: common-chan

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- Country Protocol: 5
- CRC?: no
- Idle Code: 11111111
- DMI-BOS? Yes
- ISDN-PRI (Private Network) Signaling

This example assumes use of US Option 1 with facility associated signaling. Other feature options will require changes in one or more administered items.

- DS1 Administration screen
  - Circuit Pack: TN464D (or TN464C, B from upgrades)
  - Bit Rate: 2.048
  - Interface Companding: A-law
  - Line Coding: HDB3
  - Signaling Mode: isdn-pri
  - Country Protocol: 1
  - Connect: pbx
  - Interface: user
  - CRC: No
  - Idle Code: 11111111
- Signaling Group screen
  - Associated Signaling: Yes
  - Primary D_Channel: xxxx16 (xxxx=>depends on CP physical location)
- Trunk Group Administration screen
  - Group Type: isdn-pri
  - Service Type: tie
- ISDN-PRI (Public Network) Not available in this country.

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## Thailand

Table 58 shows the recommended circuit packs.

#### Table 58. Recommended and Available CPs in Thailand

Equipment	Equipment Type
Cabinet Type & Power	GAC-MCC DC-MCC AC-SCC DC-SCC AC-CSCC AC-CMC
AC Power Voltage & Freq	220V/50Hz
Ring Generator	20Hz
Tone Detector	>TN2182B >TN744D
Tone Clock	>TN2182B
R2MFC Circuit	>TN744D
Speech Synthesizer	>TN457
Call Classifier	>TN744D
Announcement	TN750C TN750B
Analog DID Trunk	
Analog CO Trunk (No PPM)	
Analog CO Trunk (w/PPM)	
4 Wire Tie Trunk	
2 Wire Tie Trunk	
Auxiliary Trunk	
Digital CO/DID Trunk	>TN464Fv5
Digital Tie Trunk	>TN464Fv5
Digital PRI CO Trunk	
Digital BRI Trunk	
Digital BRI Trunk	
Digital Converter PRI-DASS	
Digital Converter PRI-DPNSS	
Digital Converter PRI-BRI	
8 Port Analog Line	n/a
16 Port Analog Line	>TN746B

Equipment	Equipment Type
24 Port Analog Line	TN2793
4 Wire Digital Line	>TN754B
2 Wire Digital Line	#TN2224 >TN2181
Data Line	>TN726B
BRI-U Line	
BRI-ST Line	

#### Table 58. Recommended and Available CPs in Thailand — Continued

Application Notes for Type Approval *Trinidad & Tobago* 

## Trinidad & Tobago

Table 59 shows the recommended circuit packs.

#### Table 59. Recommended and Available CPs in Trinidad & Tobago

Equipment	Equipment Type
Cabinet Type & Power	AC-MCC DC-MCC AC-SCC DC-SCC AC-CSCC AC-CMC
AC Power Voltage & Freq	120V/60Hz
Ring Generator	20Hz
Tone Detector	>TN2182B >TN744D TN748D TN748C
Tone Clock	>TN2182B TN780 TN768
R2MFC Circuit	
Speech Synthesizer	>TN725B
Call Classifier	>TN744D
Announcement	>TN750C TN750B
Analog DID Trunk	
Analog CO Trunk (No PPM)	>TN747B
Analog CO Trunk (w/PPM)	
4 Wire Tie Trunk	>TN760D
2 Wire Tie Trunk	
Auxiliary Trunk	>TN763D
Digital CO/DID Trunk	>TN464F TN464E TN464D TN464C
Digital Tie Trunk	>TN464F TN464E TN464D TN464C
Digital PRI CO Trunk	
Digital BRI Trunk	
Digital Converter PRI-DASS	
Digital Converter PRI-DPNSS	
Digital Converter PRI-BRI	
8 Port Analog Line	
16 Port Analog Line	>TN746B
24 Port Analog Line	n/a

Continued on next page

## Table 59. Recommended and Available CPs in Trinidad & Tobago — Continued Continued

Equipment	Equipment Type
4 Wire Digital Line	>TN754B
2 Wire Digital Line	>TN2224 TN2181
Data Line	>TN726B
BRI-U Line	
BRI-ST Line	

#### Feature Administration

The screen displays shown in this section were effective the date the type approval was awarded. The screens may have changed since that date.

Only those feature-related parameters that may have a Type Approval or basic connectivity implication for a particular country are listed here.

ARS/AAR Administration

To enable ARS administration, on the System-Parameters Customer-Options screen, set the ARS field to **y**. You also should check all ARS/AAR defaults. All default ARS analysis codes are deleted before dialed strings are added for routing when DEFINITY is installed outside of North America. Be aware that the default for the 10 digits cause dialing problems. In particular, the following call types (appear as ARS/AAR defaults) typically are not used in non-North American ARS/AAR tables:

fnpa:	North American numbers with an area code.
hnpa:	North American numbers without an area code.
SVC:	North American numbers of the screen "x11".

Lucent recommends only the following call types be used outside North America:

int:	For all international numbers.
natl:	For all national PN numbers.
pubu:	For all other external (that is, not extensions) numbers.

Application Notes for Type Approval Trinidad & Tobago

#### **Feature-Related System Parameters**

Page 1 of 6 FEATURE-RELATED SYSTEM PARAMETERS Trunk-to-Trunk Transfer: restricted Coverage - Subsequent Redirection No Answer Interval: 2 Coverage - Caller Response Interval (seconds): 4 Keep Held SBA at Coverage Point? n Automatic Callback - No Answer Timeout Interval (rings): 3 Call Park Timeout Interval (minutes): 5 Off-Premises Tone Detect Timeout Interval (seconds): 20 AAR/ARS Dial Tone Required? y Music/Tone on Hold: music Music (or Silence) on Transferred Trunk Calls? no DID/Tie/ISDN Intercept Treatment: attd Internal Automatic Answer for Attendant Extended Calls? n Automatic Circuit Assurance (ACA) Enabled? y

2 of 6 Page FEATURE-RELATED SYSTEM PARAMETERS LEAVE WORD CALLING PARAMETERS Maximum Number of Messages Per Station (when MSA not in service):10 Stations with System-wide Retrieval Permission (enter extension) 1: 2: 3: 4: 5: 6: 7: 8: 9: 10: WARNING! SEE USER DOCUMENTATION BEFORE CHANGING TTI STATE Terminal Translation Initialization (TTI) Enabled? n External Coverage Treatment for Transferred Incoming Calls? n SECURITY VIOLATION NOTIFICATION (SVN) PARAMETERS HAVE MOVED TO THE SYSTEM-PARAMETERS SECURITY SCREEN

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				1
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FEATURE-RELATED SYSTEM PARAMETERS				
1 2				
	-			
Number of Emergency Calls Allowed in Attendant Queue	: 5			
Call Pickup Alerting	? n			
Deluxe Paging and Call Park Timeout to Originator	? n			
Controlled Outward Restriction Intercept Treatment: tone				
Controlled Termination Restriction (Do Not Disturb): tone				
Controlled Station to Station Restriction: tone				
FEATURE-RELATED SYSTEM PARAMETERS Reserved Slots for Attendant Priority Queue: 5 Time before Off-hook Alert: 10 Emergency Access Redirection Extension: Service Observing Warning Tone? y Number of Emergency Calls Allowed in Attendant Queue: 5 Call Pickup Alerting? n Deluxe Paging and Call Park Timeout to Originator? n Controlled Outward Restriction Intercept Treatment: tone Controlled Termination Restriction (Do Not Disturb): tone				
Authorization Code Length	:			
Authorization Code Cancellation Symbol	: #			
Attendant Time Out Flag	? У			
Display Authorization Code	? n			
				Ϊ

	Page 4 of 6
FEATURE-RELATED S	SYSTEM PARAMETERS
SYSTEM PRINTER PARAMETERS System Printer Extension:	Lines Per Page: 60
SYSTEM-WIDE PARAMETERS Switch Name:	
CALL CENTER SYSTEM PARAMETERS Direct Agent Announcement Extension:	
Direct Agent Announcement Extension:	Direct Agent Announcement Delay: Converse Delay Datal: 0 Data2: 2 Converse Pulse ON: 100 OFF: 70 Prompting Timeout (secs): 10
CALL MANAGEMENT SYSTEM PARAMETERS BCMS/VuStats Measurement Interval: BCMS/VuStats Abandon Call Timer (seconds): ACD Login Identification Length:	hour Validate Login IDs? y Adjunct CMS Release:
MALICIOUS CALL TRACE PARAMETERS Apply MCT Warning Tone? n	MCT Voice Recorder Trunk Group:

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FEATURE-RELATED SYSTEM	PARAMETERS
Public Network Trunks on Conference Call: Conference Parties with Public Network Trunks: Conference Parties without Public Network Trunks: Night Service Disconnect Timer (seconds): Short Interdigit Timer (seconds): Unanswered DID Call Timer (seconds): Line Intercept Tone Timer (seconds): DID Busy Treatment: Allow AAR/ARS Access from DID/DIOD?	6 Auto Hold? n 6 Attendant Tone? y 180 Bridging Tone? n 3 Conference Tone? n Intrusion Tone? y 30 tone
DISTINCTIVE AUDIBLE ALERTING Internal: 1 External: 2 Attendant Origin	Priority: 3 ated Calls: external

Page 6 of 6 FEATURE-RELATED SYSTEM PARAMETERS Pull Transfer: n Update Transferred Ring Pattern? n Outpulse Without Tone? n Wait Answer Supervision Timer? y Allow Conference via Flash? y Repetitive Call Waiting Tone? y Vector Disconnect Timer (min): Network Feedback During Tone Detection? y Hear Zip Tone Following VOA? n Intercept Treatment On Failed Trunk Transfers? n Station Tone Forward Disconnect: silence Level Of Tone Detection: precise RECALL TIMING Flashhook Interval? y Upper Bound (msec): 800 Lower Bound (msec): 200 ENHANCED DCS Enhanced DCS Enabled? n Enforce PNT-to-PNT Restrictions? n Apply Intercept Locally? y

Application Notes for Type Approval *Trinidad & Tobago* 

# Multifrequency-Signaling-Related System Parameters

Page 1 of 3 MULTIFREQUENCY-SIGNALING-RELATED SYSTEM PARAMETERS Incoming Call Type: group-ii-mfc Outgoing Call Type: group-ii-mfc Maintenance Call Type: none Test Call Extension: Interdigit Timer (sec): 10 Outgoing Forward Signal Present Timer (sec): 15 Outgoing Forward Signal Absent Timer (sec): 30 Multifrequency Signaling Incoming Intercept Treatment? n Received Signal Gain(-Loss) (dB): 0 Transmitted Signal Gain(-Loss) (dB): -3 ANI Prefix: ANI for PBX: Next ANI Digit: send-ani ANI Prefix: Collect All Digits Before Seizure? n Request Incoming ANI (non-AAR/ARS)? n Called Party Category: user-type Use COR for Calling Party Category? n

Page 2 of 3 MULTIFREQUENCY-SIGNALING-RELATED SYSTEM PARAMETERS INCOMING FORWARD SIGNAL TYPES INCOMING BACKWARD SIGNAL TYPES (Tones from CO) (Tones to CO) Group-I Group-II Group-A Group-B 1: normal 2: normal 3: normal 1: next-digit 11: ignored 1: free 12: ignored 3: end-of-dial 2: busy 13: ignored 4: congestion 7: intercept 14: ignored 4: normal 5: normal 15: ignored 6: normal 7: normal 8: normal 9: normal 10: normal 11: normal 12: normal 13: normal 14: normal 15: normal

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MUI	LTIFREQUENCY-SIGN	IALING-REI	LATED SYSTEM	PARAME	TERS		
OUTGOING FORWARD SI (Tones to CO)	IGNAL TYPES		ING BACKWARD s from CO)	SIGNAL	TYPES		
Group-I	Group-II	(	Group-A		Group-B		
12: ani-not-avail	2: normal	1: ne	ext-digit	1:	free		
15: end-of-ani	1: attendant	2: co	ongestion	2:	busy		
	6: data-call	3: ei	nd-of-dial	3:	congestion	ı	
		4: co	ongestion	4:	congestion	1	
		5: se	end-ani	5:	congestion	ı	
		6: co	ongestion	6:	free		
		7: la	ast-2-digits	7:	intercept		
		8: la	ast-3-digits	8:	congestion	ı	
		9: co	ongestion	9:	congestion	ı	
		10: co	ongestion	10:	congestion	ı	
		11: co	ongestion	11:	congestion	ı	
		12: co	ongestion	12:	congestion	ı	
		13: co	ongestion	13:	congestion	ı	
		14: co	ongestion	14:	congestion	ı	
		15: co	ongestion	15:	congestion	1	

### System Parameters Country-Options

/		Dama 1 of 7
1		Page 1 of 7
	SYSTEM PARAMETE	ERS COUNTRY-OPTIONS
	Companding Mode: Mu-Law 440Hz PBX-dial Tone? n Digital Loss Plan: 1 Analog Ringing Cadence: 1	Base Tone Generator Set: 1 440Hz Secondary-dial Tone? n
	TONE DETECTION PARAMETERS Tone Detection Mode: 6 Interdigit Pause: short	

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#### **CO Trunk Group Administration**

Page 1 of 10 TRUNK GROUP Group Type: co COR: 95 TN: 1 TAC: Dup Number: Froup Name: OUTSIDE CALL Direction: two-way Direction: two-way Direction: two-way Dusy Threshold: 10 Direction: 1 Direction Group Number: CDR Reports: y Group Name: OUTSIDE CALL Dial Access? n Busy 7 Queue Length: 0 Country: 1 Comm Type: voice Auth Code? nDigit Absorption List:Trunk Flash? nToll Restricted? Prefix-1? y Toll Restricted? n TRUNK PARAMETERS Trunk Type: loop-start Outgoing Dial Type: tone Cut-Through? n Trunk Termination: rc Disconnect Timing(msec): 500 Auto Guard? n Call Still Held? n Sig Bit Inversion: none RA Trunk Loss: 0db Terminal Balanced? y Trunk Gain: high Disconnect Supervision - In? y Out? n Cyclical Hunt? n Answer Supervision Timeout: 10 Receive Answer Supervision? n

Page 2 of 10 TRUNK FEATURES ACA Assignment? y Measured: none Maintenance Tests? y Data Restriction? n Suppress # Outpulsing? n Application Notes for Type Approval *Trinidad & Tobago* 

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	TRUNK GROUP
ADMINISTRABLE TIMERS Incoming Disconnect(msec): Incoming Glare Guard(msec):	Outgoing Dial Guard(msec): 1600
Ringing Monitor(msec): Outgoing End of Dial(sec): Programmed Dial Pause(msec): Flash Length(msec):	10 Outgoing Seizure Response(sec): 5 1500
END TO END SIGNALING Tone(msec): 350	Pause(msec): 150
OUTPULSING INFORMATION PPS: 10 Make(msec): 40	Break(msec): 60 PPM? n

						Page	4 of 10
				TRUNK GF	ROUP		
CROIID	MEMBER ASS		TQ			rs (min/max): ered Members:	0 / 0 0
Port 1: 2: 3:	Code	Sfx	Name	Night	Mode	Туре	Ans Delay

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#### **DIOD Trunk Group Administration**

Page 1 of 10 TRUNK GROUP Group Type: diod CDR Reports: COR: 94 TN: 1 TAC: Group Number: CDR Reports: y Group Name: OUTSIDE CALL Direction: two-way Outgoing Display? n Dial Access? n Busy Threshold: 99 Queue Length: 0 Country: 1 Busy Threshold: 99 Auth Code? n Digit Absorption List: Prefix-1? y Trunk Flash? n Toll Restricted? n TRUNK PARAMETERS Trunk Type: immed-start Outgoing Dial Type: tone Incoming Dial Type: tone Trunk Termination: rc Digit Treatment: Digits: Expected Digits: Sig Bit Inversion: none Terminal Balanced? n RA Trunk Loss: Odb Trunk Gain: high Drop Treatment: silence Disconnect Supervision - In? y Out? n Receive Answer Supervision? n Answer Supervision Timeout: 10

Page 2 of 20 TRUNK FEATURES ACA Assignment? n Measured: none Maintenance Tests? y Data Restriction? n Suppress # Outpulsing? n Application Notes for Type Approval *Trinidad & Tobago* 

Page 3 of 10 TRUNK GROUP ADMINISTRABLE TIMERS Incoming Disconnect(msec): 500 Outgoing Disconnect(msec): 500 Incoming Dial Guard(msec): 70 Outgoing Dial Guard(msec): 1600 Incoming Glare Guard(msec): 1500 Outgoing Glare Guard(msec): 1500 Ringing Monitor(msec): 5200 Incoming Seizure(msec): 500 Outgoing End of Dial(sec): 10 Outgoing Seizure Response(sec): 5 Programmed Dial Pause(msec): 1500 Flash Length(msec): Incoming Incomplete Dial Alarm(sec): 255 END TO END SIGNALING Tone(msec): 350 Pause(msec): 150 OUTPULSING INFORMATION PPS: 10 Make(msec): 40 Break(msec): 60 PPM? n

Page 4 of 10 TRUNK GROUP Administered Members (min/max): 0/0 GROUP MEMBER ASSIGNMENTS Port Code Sfx Name 1: 2: 3:

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#### **DID Trunk Group Administration**

1 of 10 Page TRUNK GROUP Group Type: did CDR Reports: COR: 93 TN: 90 TAC: Group Number: CDR Reports: y Group Name: OUTSIDE CALL Country: 1 Auth Code? n TRUNK PARAMETERS Trunk Type: immed-start Incoming Rotary Timeout(sec): 5 Incoming Dial Type: tone Trunk Termination: rc Disconnect Timing(msec): 500 Digit Treatment: Digits: Expected Digits: Sig Bit Inversion: none Terminal Balanced? n RA Trunk Loss: Odb Extended Loop Range? n Trunk Gain: high Drop Treatment: silence Disconnect Supervision - In? y

Page 2 of 10 TRUNK FEATURES ACA Assignment? n Measured: none Data Restriction? n Suppress # Outpulsing? n

	Page	3 of	10	•
TRUNK GROUP				
ADMINISTRABLE TIMERS Incoming Disconnect(msec): 500 Incoming Dial Guard(msec): 70				
Flash Length(msec): 540 Incoming Incomplete Dial A	larm(se	c): 2	255	
END TO END SIGNALING Tone(msec): 350 Pause(msec): 150				

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Page 4 of 10 TRUNK GROUP Administered Members (min/max): 0/0 GROUP MEMBER ASSIGNMENTS Total Administered Members: 0 Port Code Sfx Name 1: 2: 3:

# DS1 for CO, DID and DIOD trunks to the PTT using Digital

Page 1 of 1 DS1 CIRCUIT PACK Location: Name: T-1CO, DID, DIOD Bit Rate: 1.544 Line Coding: b8zs Signaling Mode: Common Channel Signalling Interconnect: CO Country Protocol: 1 Interface Companding: mulaw CRC? n Idle Code: 1111111 MAINTENANCE PARAMETERS Slip Detection? n Near-end CSU Type: other Table 60 shows the recommended circuit packs.

Table 60.	Recommended and A	Available CPs in the Uni	ted Kingdom
	necommentate and 1	wanable cromine on	icu Kinguom

Equipment	Equipment Type
Cabinet Type & Power	GAC-MCC DC-MCC AC-SCC AC-CSCC AC-CMC
AC Power Voltage & Freq	240V/50Hz
Ring Generator	25Hz
Tone Detector	>TN2182B >TN744D TN420C TN420B
Tone Clock	>TN2182B TN780 TN419B
R2MFC Circuit	n/a
Speech Synthesizer	>TN457
Call Classifier	>TN744D
Announcement	TN750C TN750B
Analog DID Trunk	>TN459B TN459
Analog CO Trunk (No PPM)	>TN2147C TN2147
Analog CO Trunk (w/PPM)	>TN447
4 Wire Tie Trunk	>TN760Dv12 TN458
2 Wire Tie Trunk	
Auxiliary Trunk	>TN763D TN417
Digital CO/DID Trunk	TN2464 TN464E TN464D
Digital Tie Trunk	TN2464 TN464E TN464D TN464C
Digital PRI CO Trunk	TN2464 TN464E TN464D
Digital BRI Trunk	>TN2185b
Digital Converter PRI-DASS	TN-CCSC-1
Digital Converter PRI-DPNSS	TN-CCSC-2
Digital Converter PRI-BRI	#TN-PRI-BRI
8 Port Analog Line	TN467
16 Port Analog Line	#TN2183 >TN468B TN468
24 Port Analog Line	n/a

#### 

Continueu	1
Equipment	Equipment Type
4 Wire Digital Line	>TN754B TN413
2 Wire Digital Line	#TN2224 >TN2181
Data Line	>TN726B
BRI-U Line	TN2198
BRI-ST Line	TN556d

#### Feature Administration

The screen displays shown in this section were effective the date the type approval was awarded. The screens may have changed since that date.

Only those feature-related parameters that may have a Type Approval or basic connectivity implication are listed here.

ARS/AAR Administration

To enable ARS administration, on the System-Parameters Customer-Options screen, set the ARS field to **y**. You also should check all ARS/AAR defaults. All default ARS analysis codes are deleted before dialed strings are added for routing when DEFINITY is installed outside of North America. Be aware that the default for the 10 digits cause dialing problems. In particular, the following call types (appear as ARS/AAR defaults) typically are not used in non-North American ARS/AAR tables:

fnpa:	North American numbers with an area code.
hnpa:	North American numbers without an area code.
SVC:	North American numbers of the screen "x11".

Lucent recommends only the following call types be used outside North America:

int:	For all international numbers.
natl:	For all national PN numbers.
pubu:	For all other external (that is, not extensions) numbers.

Application Notes for Type Approval United Kingdom

#### System Parameter Administration

Only those feature-related parameters that may have a Type Approval or basic connectivity implication for a particular country are listed here.

- System Parameter Features Administration
  - Trunk-to-Trunk Transfer: Permitted by country's regulations -Selection is customer's choice.
  - Public Network Trunks on Conference Call: 5
  - Conference Parties With PNTs: 6
  - Intrusion Tone: Yes
  - DID Busy Treatment: Attendant
  - Level of Tone Detection: Precise
  - Pull Transfer: No
  - (Station-to-switch) Recall Timing:
    - Flashhook Interval: No
    - Disconnect Timing: 150 ms
- Country Options Parameters
  - Companding Mode: A-law
  - Base Tone Generation Set: 10
  - Tone Detection Mode: 3
  - Interdigit Pause: short
  - Digital Loss Plan: 10
  - Version of Digital Loss Plan:
    - With Only V2 CPs in System: A
    - With Only New (G3) CPs in System: B
    - With New & V2 CPs Mixed in System: B
  - Analog Ringing Cadence: 10

#### **Analog Trunk Administration**

- CO Trunks
  - Trunk Group Screen
    - Country: 10
    - Trunk Gain: high
    - Group Type: CO
    - Direction: two-way

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- Digit Absorption List: blank
- Prefix-1: No
- Trunk Type:
  - loop-start (for Loop-Calling, Guarded Clearing)
  - ground-start (for Earth Calling)
- Outgoing Dial Type: tone
- Trunk Termination: rc (complex impedance)
- Auto Guard: no
- Dial Access: yes
- Call Still Held: no
- Terminal Balanced: yes
- Receive Answer Supervision: no
- Answer Supervision Timeout: 10 (This sets both the CP firmware timer and software timer. Set to 0 for any trunk that will receive answer supervision.)
- Disconnect Supervision In:
  - no (for LCGC Trunks)
  - yes (for Earth Calling Trunks)
- Disconnect Supervision Out: Selection is customer's choice.
- Disconnect Timing: 500 msec (This field will not be used with CPs that can accept the Incoming Disconnect and Outgoing Disconnect timers. Set these latter two timers from the Administrable Timers Screen.)
- Trunk Group Administration Screen (Timing)

Set the following timers from the Administrable Timers screen during administration of each trunk group. Select the following CO trunk timer values for this country:

- Incoming Disconnect: 500 ms
- Outgoing Disconnect: 500 ms
- Outgoing Dial Guard: 1600 ms
- Incoming Glare Guard: 1500 ms
- Outgoing Glare Guard: 1500 ms
- Outgoing Dial Pulse Rate (PPS): 10 pps
- Outgoing Rotary Digit Dial Make: 35 ms
- Outgoing Rotary Digit Dial Break: 65 ms

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<ul> <li>Outgoing Rotary Dial Interdigit: 800 ms</li> </ul>	3
<ul> <li>Ring Monitor Timer: 5200 ms</li> </ul>	
Incoming Seizure: 250 ms	
<ul> <li>Outgoing End-of-Dial: 10 sec</li> </ul>	
<ul> <li>Outgoing Seizure Response: 240 sec</li> </ul>	
<ul> <li>Programmed Dial Pause: 1500 ms</li> </ul>	
<ul> <li>Disconnect Signal Error: 240 sec</li> </ul>	
<ul> <li>End-To-End Signaling Pause: 150 ms (</li> </ul>	accept default)
<ul> <li>End-To-End Signaling Tone: 350 ms (additional content of the second content</li></ul>	ccept default)

- End- Io-End Signaling Ione: 350 ms (acc acc
- Flash Length: 100 ms
- PPM: yes
- Frequency: 50 Hz
- PPM

The PPM frequency monitored will depend upon the particular CO trunk CP being used (a CP capable of monitoring the required frequency must be provided. Some trunk CPs do not support any PPM monitoring.) For this country, the CP used for PPM monitoring must detect 50Hz pulses.

- DID Trunks
  - Trunk Group Screen
    - Group Type: DID
    - Country: 10
    - Gain: high
    - Digit Absorption List: blank
    - Incoming Dial Type: tone
    - Trunk Type: immed-start
    - Trunk Termination: rc (complex impedance)
    - Disconnect Timing: 500 msec (This field will not be used with CPs that can accept the Incoming Disconnect and Outgoing Disconnect timers. Set these latter two timers from the Administrable Timers Screen.)
    - Digit Treatment: blank
    - Digits: blank
    - Expected Digits: depends on system size and numbering plan
    - Terminal Balanced: yes

- Extended Loop Range: (Used Only with TN459) no
- Drop Treatment: silence
- Disconnect Supervision: yes
- Incoming Rotary Timeout (sec): 5 sec
- Trunk Group Administration Screen (Timing)

Set the following timers from the Administrable Timers screen during administration of each trunk group. Select the following DID trunk timer values for this country:

- Incoming Disconnect: 500 ms
- Incoming Dial Guard: 50 ms
- Incoming Partial Dial: 18 sec
- Incoming Incomplete Dial: 255 sec
- Flash Length: 100 ms
- Tie Trunks

No special Type Approval regulations apply. Tie trunks are administered on a case-by-case basis.

#### **Digital Trunk Administration**

This section does not list all possible valid administrable combinations. Rather the most common or standard combination, compatible with public-network and Type Approval standards for each country, is presented:

- CO Trunks
  - DS1 Administration Screen
    - Circuit Pack: TN2464
    - Bit Rate: 2.048 (bit-rate selection cannot be made with TN464B)
    - Interface Companding: A-law
    - Line Coding: HDB3
    - Signaling Mode: CAS
    - Country Protocol: 10²⁴
    - Interconnect: CO
    - CRC?: No

^{24. 10}a is for connection to the UK-specific DASS II ISDN or DPNSS service (through TN-CSCC-1/TN-CSCC-2 converters).

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 Trunk Group Administration Screen (Timing) Digital trunk timing values should be set as for analog CO trunks.

- DID Trunks
  - DS1 Administration Screen
    - Circuit Pack: TN2464
    - Bit Rate: 2.048
    - Interface Companding: A-law
    - Line Coding: HDB3
    - Signaling Mode: CAS
    - Country Protocol: 10²⁵
    - Interconnect: CO
    - CRC?: No
    - Idle Code: 01010100
  - Trunk Group Administration Screen (Timing)

Digital trunk timing values should be set as for analog DID trunks.

- Tie Trunks
  - Non-ISDN Signaling Example (DS1 Administration screen)
    - Circuit Pack: TN2464
    - Bit Rate: 2.048
    - Interface Companding: A-law
    - Line Coding: HDB3
    - Signaling Mode: CAS
    - Country Protocol: 1
    - Interconnect: pbx
    - CRC?: No
    - Idle Code: 01010100
  - ISDN-PRI (Private Network) Signaling This example assumes use of US Option 1 with facility associated signaling. Other feature options will require changes in one or more administered items.
    - DS1 Administration screen

 ¹⁰a is for connection to the UK-specific DASS II ISDN or DPNSS service (through TN-CSCC-1/TN-CSCC-2 converters).

¹⁰b is for connection to the ETSI-ISDN-PRI services by cable and wireless or British Telecom (called ISDN 30, and ISDN 30e (BT's offer with fully ETSI compliant call control))

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-	Circuit Pack: TN2464	
•	Bit Rate: 2.048	
•	Interface Companding: A-law	
•	Line Coding: HDB3	
•	Signaling Mode: isdn-pri	
•	Country Protocol: 1	
•	Connect: pbx	
•	Interface: user	
•	CRC: No	
•	Idle Code: 01010100	
•	Signaling Group screen	
	<ul> <li>Associated Signaling: Yes</li> </ul>	
	<ul> <li>Primary D_Channel: xxxx16 (xxxx=&gt;depen physical location)</li> </ul>	ds on CP
•	Trunk Group Administration screen	
	— Group Type: isdn-pri	
	— Service Type: tie	
— ISDN	I-PRI (Public Network)	
•	DS1 Administration screen	
	— Circuit Pack: TN2464	
	— Bit Rate: 2.048	
	<ul> <li>Interface Companding: A-law</li> </ul>	
	— Line Coding: HDB3	
	— Signaling Mode: isdn-pri	
	— Country Protocol: 10 ²⁶	
	<ul> <li>Connect: Network</li> </ul>	
	— Idle Code: 01010100	
•	Signaling Group screen	
	<ul> <li>Associated Signaling: Yes</li> </ul>	
	<ul> <li>Primary D_Channel: xxxx16 (xxxx=&gt;depen physical location)</li> </ul>	ds on CP
26. 10a is for connection TN-CSCC-1/TN-CSC	to the UK-specific DASS II ISDN or DPNSS service (thro C-2 converters).	ugh
10b is for connection	to the ETSI-ISDN-PRI services by cable and wireless or	British

Telecom (called ISDN 30, and ISDN 30e (BT's offer with fully ETSI compliant call control))

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Trunk Group Administration screen	

- Group Type: isdn-pri
- Service Type: public_ntwrk

Application Notes for Type Approval *Venezuela* 

Table 61 shows the recommended circuit packs.

Equipment	Equipment Type
Cabinet Type & Power	GAC-MCC AC-MCC DC-MCC AC-SCC DC-SCC AC-CSCC AC-CMC
AC Power Voltage & Freq	120V/60Hz 240V/60Hz
Ring Generator	20Hz
Tone Detector	>TN2182B >TN744D TN748D TN756
Tone Clock	>TN2182B TN780 TN756
R2MFC Circuit	>TN744D TN744B
Speech Synthesizer	>TN725B
Call Classifier	>TN744D
Announcement	TN750C TN750B TN750
Analog DID Trunk	>TN753
Analog CO Trunk (No PPM)	>TN747B
Analog CO Trunk (w/PPM)	#TN465C>TN465B
4 Wire Tie Trunk	>TN760D
2 Wire Tie Trunk	>TN439
Auxiliary Trunk	>TN763D TN763C
Digital CO/DID Trunk	n/a
Digital Tie Trunk	>TN464F TN464E TN464D TN464C
Digital PRI CO Trunk	n/a
Digital BRI Trunk	
Digital Converter PRI-DASS	
Digital Converter PRI-DPNSS	
Digital Converter PRI-BRI	
8 Port Analog Line	TN742
16 Port Analog Line	>TN746B

Continued on next page

Equipment	Equipment Type
4 Wire Digital Line	>TN754B TN413
2 Wire Digital Line	#TN2224 >TN2181
Data Line	>TN726B
BRI-U Line	
BRI-ST Line	

#### Table 61. Recommended and Available CPs in Venezuela — Continued



A-law companding is the national standard in Venezuela. However, Mu-law is used internally to the system for service circuits and analog lines. Network interfaces are configured as A-law if required.

#### **Feature Administration**

Venezuela

The screen displays shown in this section were effective the date the type approval was awarded. The screens may have changed since that date.

Only those feature-related parameters that may have a Type Approval or basic connectivity implication for a particular country are listed here.

- ARS/AAR Administration
- To enable ARS administration, on the System-Parameters Customer-Options screen, set the ARS field to y. You also should check all ARS/AAR defaults. All default ARS analysis codes are deleted before dialed strings are added for routing when DEFINITY is installed outside of North America. Be aware that the default for the 10 digits cause dialing problems. In particular, the following call types (appear as ARS/AAR defaults) typically are not used in non-North American ARS/AAR tables:

fnpa:	North American numbers with an area code.
hnpa:	North American numbers without an area code.
SVC:	North American numbers of the screen "x11".

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	Lucent recom America:	mends only the following call types be used outsic	le North
	int:	For all international numbers.	
	natl:	For all national PN numbers.	

pubu: For all other external (that is, not extensions) numbers.

## System Parameter Administration

Only those feature-related parameters that may have a Type Approval or basic connectivity implication for a particular country are listed here.

- Feature-Related System Parameters Administration
  - Trunk-to-Trunk Transfer: Permitted by country's regulations -Selection is customer's choice.
  - Public Network Trunks on Conference Call: 5
  - Conference Parties With PNTs: 6
  - Conference Parties Without PNTs: 6
  - Line Intercept Tone Timer: 30
  - Night Service Disconnect Timer: 180 sec
  - Short Interdigit Timer: 3 sec
  - Unanswered DID Call Timer: 60
  - Auto-Hold: Yes 27
  - Attendant Tone: Yes
  - Bridging Tone: No
  - Conference Tone: No
  - Intrusion Tone: Yes
  - Repetitive Call Waiting Tone: No
  - DID Busy Treatment: Attendant
  - Pull Transfer: No
  - Level of Tone Detection: Broadband
  - Outpulse Without Tone: Yes
  - (Station-to-switch) Recall Timing:
    - Flashhook Interval: Yes

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Application Notes for Type Approval *Venezuela* 

- Upper Bound: 1000 ms
- Lower Bound: 200 ms
- System Parameter Multifrequency Signaling Administration
  - Incoming Call Type: non-group-ii-mfc (use default translations)
  - Test Call Extension: As Negotiated
  - Incoming Interdigit Timer: 10 sec
- Country Options Parameters
  - Companding Mode: mu-law



Companding Mode: A-law is the national standard. Mu-law is used internal to the system for service circuits and analog lines. Network interfaces are configured as A-law if required.

- Base Tone Generation Set: 1
- Tone Detection Mode: default
- Interdigit Pause: default
- Digital Loss Plan: 1
- Analog Ringing Cadence: 1

### **Analog Trunk Administration**

- CO Trunks
  - Trunk Group Screen
    - Group Type: CO
    - Country: 1
    - Trunk Gain: high
    - Direction: two-way
    - Digit Absorption List: blank
    - Prefix-1: No
    - Trunk Type: loop-start
    - Outgoing Dial Type: tone
    - Trunk Termination: rc (complex impedance)
    - Auto Guard: no
    - Dial Access: yes
    - Call Still Held: no
    - Terminal Balanced: yes

DEFINITY® Enterprise Communications Server Application Notes	
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Application Notes for Type Approval *Venezuela* 

- Receive Answer Supervision: no
- Answer Supervision Timeout: 10 (This sets both the CP firmware timer and software timer. Set to 0 for any trunk that will receive answer supervision.)
- Disconnect Supervision In: no
- Disconnect Supervision Out: Selection is customer's choice.
- Disconnect Timing: 500 ms (This field will not be used with CPs that can accept the Incoming Disconnect and Outgoing Disconnect timers. Set these latter two timers from the Administrable Timers Screen.)
- Trunk Group Administration Screen (Timing)

Set the following timers from the Administrable Timers screen during administration of each trunk group. Select the following CO trunk timer values for this country:

- Incoming Disconnect: 500 ms
- Outgoing Disconnect: 500 ms
- Outgoing Dial Guard: 1600 ms
- Incoming Glare Guard: 1500 ms
- Outgoing Glare Guard: 1500 ms
- Outgoing Dial Pulse Rate (PPS): 10 pps
- Outgoing Rotary Digit Dial Make: 35 ms
- Outgoing Rotary Digit Dial Break: 65 ms
- Outgoing Rotary Dial Interdigit: 800 ms
- Ring Monitor Timer: 5200 ms
- Incoming Seizure: 500 ms
- Outgoing End-of-Dial: 10 sec
- Outgoing Seizure Response: 240 sec
- Programmed Dial Pause: 1500 ms
- Disconnect Signal Error: 240 sec
- Flash Length: 100 ms
- PPM: Yes
- Frequency: 16kHz
- DID Trunks
  - Trunk Group Screen
    - Group Type: DID

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- Country: 1
- Trunk Gain: high
- Digit Absorption List: blank
- Incoming Dial Type: MF
- Trunk Type: immed-start
- Trunk Termination: rc (complex impedance)
- Disconnect Supervision: no
- Disconnect Timing: 500 ms (This field will not be used with CPs that can accept the Incoming Disconnect and Outgoing Disconnect timers. Set these latter two timers from the Administrable Timers Screen.)
- Digit Treatment: blank
- Digits: blank
- Terminal Balanced: yes
- Extended Loop Range: (Used Only with TN459) no
- Drop Treatment: silence
- Incoming Rotary Timeout (sec): 5 sec (This field will not be used with CPs that can accept the Incoming Partial Dial timer. Set this timer from the Administrable Timers Screen.)
- Trunk Group Administration Screen (Timing)

Set the following timers from the Administrable Timers screen during administration of each trunk group. Select the following DID trunk timer values for this country:

- Incoming Disconnect: 500 ms
- Incoming Dial Guard: 50 ms
- Incoming Partial Dial: 18 sec
- Incoming Incomplete Dial: 255 sec
- Flash Length: 100 ms
- Tie Trunks

No special Type Approval regulations apply. Tie trunks are administered on a case-by-case basis.

# **Digital Trunk Administration**

This section does not list all possible valid administrable combinations. Rather the most common or standard combination, compatible with public-network and Type Approval standards for each country, is presented:

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CO Trunks

Not available in this country.

DID Trunks

Not available in this country.

- Tie Trunks
  - Non-ISDN Signaling Example (DS1 Administration Screen)
    - Circuit Pack: TN464D (or TN464C)
    - Bit Rate: 2.048
    - Interface Companding: A-law
    - Line Coding: HDB3
    - Signaling Mode: CAS
    - Country Protocol: 1
    - Interconnect: pbx
    - CRC?: no
    - Idle Code: 11111111
  - ISDN-PRI (Private Network) Signaling

This example assumes use of US Option 1 with facility associated signaling. Other feature options will require changes in one or more administered items.

- DS1 Administration screen
  - Circuit Pack: TN464D (or TN464C,B from upgrades)
  - Bit Rate: 2.048
  - Interface Companding: A-law
  - Line Coding: HDB3
  - Signaling Mode: isdn-pri
  - Country Protocol: 1
  - Connect: pbx
  - Interface: user
  - CRC: No
  - Idle Code: 11111111
- Signaling Group screen
  - Associated Signaling: Yes
  - Primary D_Channel: xxxx16 (xxxx=>depends on CP physical location)

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— Trunk Group Administration screen	
<ul> <li>Group Type: isdn-pri</li> </ul>	
<ul> <li>Service Type: tie</li> </ul>	

— ISDN-PRI (Public Network)

Not available in this country.

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# Vietnam

Table 62 shows the recommended circuit packs.

# Table 62. Recommended and Available CPs in Vietnam

Equipment	Equipment Type
Cabinet Type & Power	GAC-MCC DC-MCC AC-SCC DC-SCC AC-CSCC AC-CMC
AC Power Voltage & Freq	230V/50Hz
Ring Generator	20Hz
Tone Detector	>TN2182B >TN744D
Tone Clock	>TN2182B TN780
R2MFC Circuit	TN744D TN744B
Speech Synthesizer	>TN725B
Call Classifier	>TN744D
Announcement	TN750C TN750B TN750
Analog DID Trunk	>TN753
Analog CO Trunk (No PPM)	TN747B
Analog CO Trunk (w/PPM)	n/a
4 Wire Tie Trunk	TN760D
2 Wire Tie Trunk	n/a
Auxiliary Trunk	>TN763D TN763C
Digital CO/DID Trunk	>TN2464
Digital Tie Trunk	>TN2464
Digital PRI CO Trunk	TN2464
Digital BRI Trunk	>TN2185
Digital Converter PRI-DASS	n/a
Digital Converter PRI-DPNSS	n/a
Digital Converter PRI-BRI	
8 Port Analog Line	TN746B
16 Port Analog Line	TN791 TN746B
24 Port Analog Line	TN2793

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Vietnam	476

Table 62.	Recommended and Available CPs in Vietnam	

Equipment	Equipment Type
4 Wire Digital Line	>TN754B
2 Wire Digital Line	#TN2214 >TN2181
Data Line	>TN726B
BRI-U Line	
BRI-ST Line	TN556B