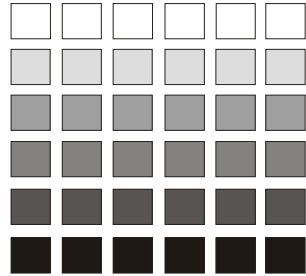
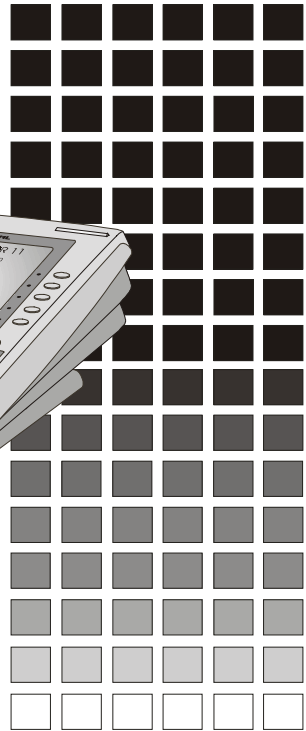




Technical Manual



Section 521 Built-In ACD Supervisor Guide



S-ICX Version 5.0 (International)
(ACD Version 4.0)
Issued October 2000

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General System Information

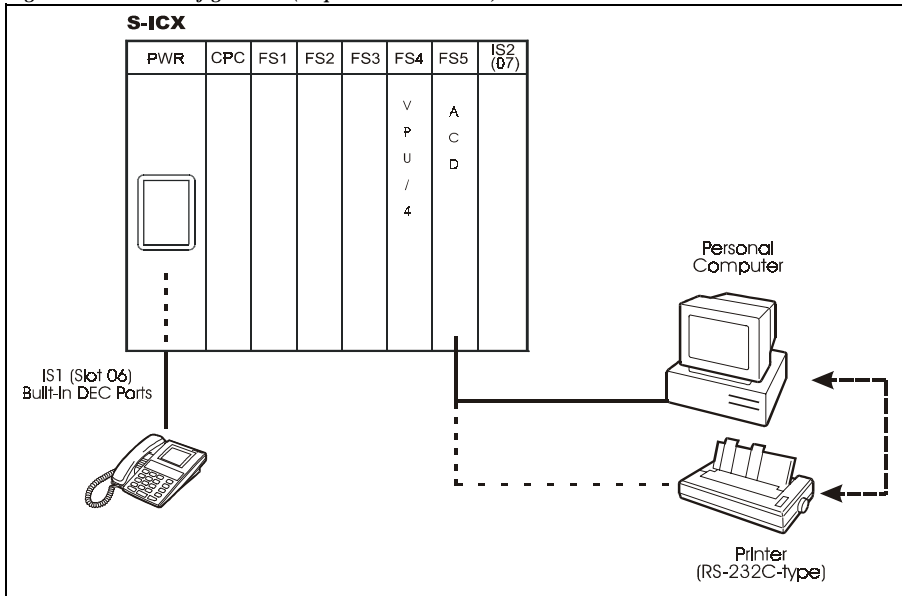
Configuration

The Built-In ACD System is a simple ACD system that is installed in the S-ICX System. The built-In ACD system is composed of the two circuit cards; the ACD card and the VPU/4 card.

The system configuration is shown below. Using RS-232C port allows MIS (Management Information System) reports to be output to a printer or PC but not to the both simultaneously.

The S-ICX System configured for a maximum of 96 ports can support one Built-In ACD system.

Figure 1. ACD Configuration (96 port cabinet shown)



Note: Standard RS232C cables cannot be used for connection. Use the special cable included with the ACD card. For PC/printer connecting conditions, see the ACD installation section.

Specifications

The following shows the major specifications of the Panasonic Built-In ACD system (maximum):

Table 1: *Maximums per ACD System*

Item	ACD Version 3.0
Agent Group	3
Agent IDs/system	64
Number of Agents/system	32
Supervisor IDs/system	6
Voice port/system	4 ports are shared
Music Port	1 Music on Hold source on the CPC is used.
MIS Monitor Port	1 (RS232C, 9600bps)
Number of user guidance messages	6 (Length of each message can vary, with a total of 96 seconds recording time available.)
MIS Reports	Max, 2-week memory (updated on Mondays)
Maximum Calls Queued	50

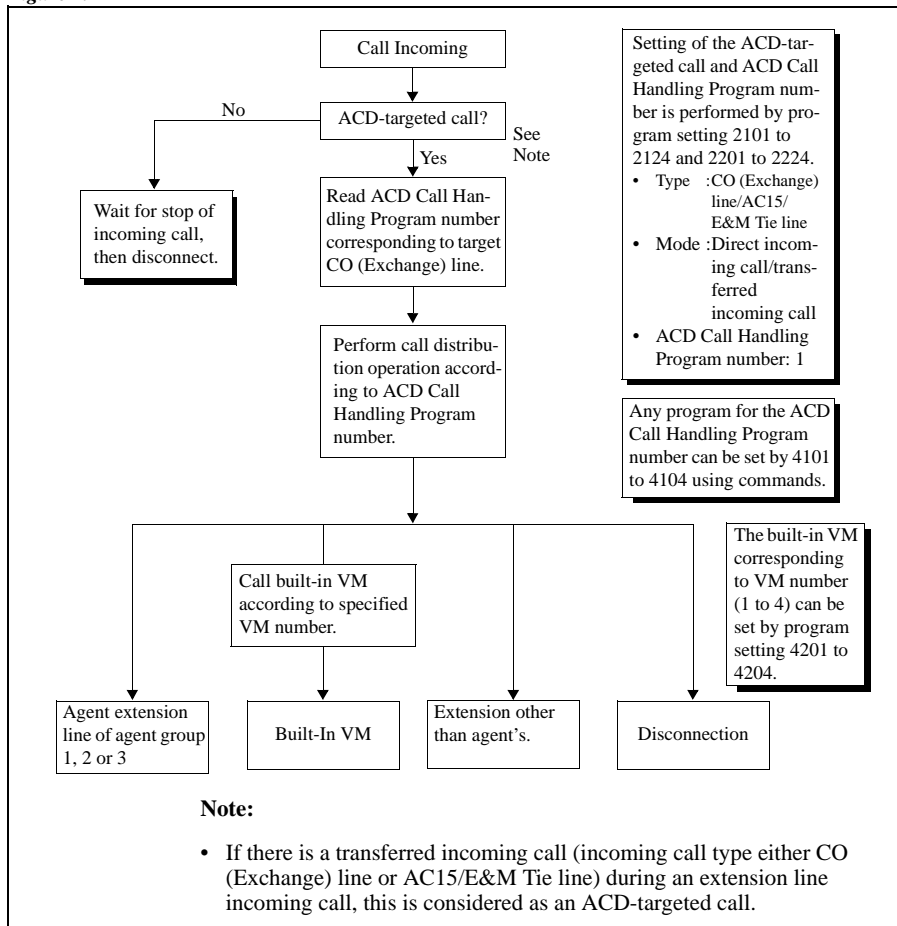
Basic Service Flow

The following chart shows the basic flow of ACD services.

Commands can be used to set any call distribution operation in the ACD Call Handling Program.

At initial start-up of ACD, programming is performed automatically using default sample programs.

Figure 2.



ACD Call Handling Program

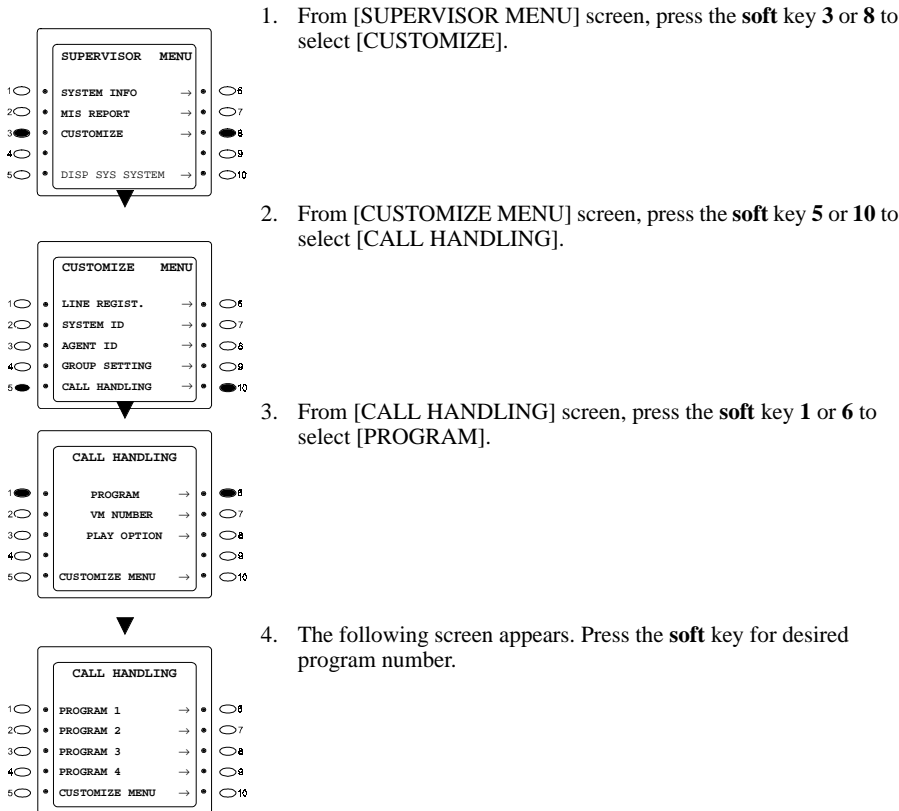
Commands can be used to set any call distribution operation for each of the ACD Call Handling Program numbers (4101 to 4104).

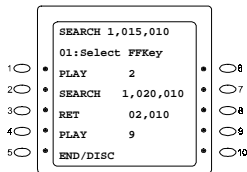
For details on the content of default sample programs, see “Built-In ACD Reference Guide”.

Selecting Program Processing

You can select program processing by pressing the FF key. The following shows the procedure and flow of operations from the entry of program numbers to the selection of program processing.

Operation





- The List Mode screen is displayed. This screen displays the current setup status. The program lines currently displayed at 1st LCD are the target of processing. The **NEXT** or **HOLD** keys move to the next line. The **PREV** or **FL/R** keys return to the previous line.
- Press the **FF** key to determine processing on the currently displayed program line on the 1st LCD.

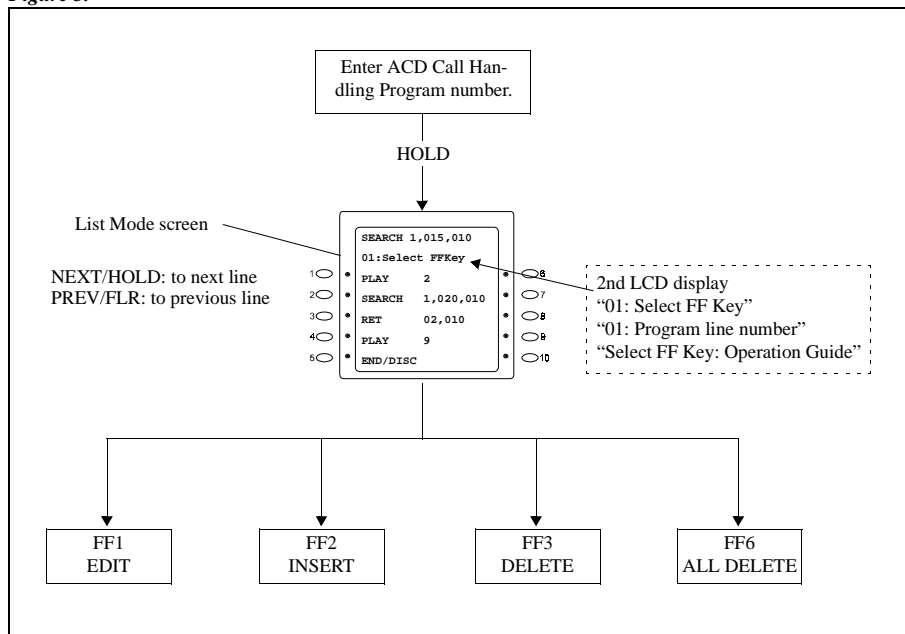
FF1 : EDIT
 FF2 : INSERT
 FF3 : DELETE
 FF6 : ALL DELETE

The following items describe the details of subsequent processing.

Note:

- Pressing the **PROG** key returns to the ACD Call Handling Program number in step 1.

Figure 3.



Programming by Commands

After you have determined the desired process by the FF key, you can customize any program using the six available commands.

The following table shows a list of commands that are used:

Table 2:

No	Com- mand	Parameter1	Parameter2	Parameter3	Description
1	END/ DISK				End/Disconnect <ul style="list-style-type: none"> • Ends the ACD Call Handling Program at this line. • When there is a call agent, ends by on-hook disconnection of the agent that replied to the call.
2	FWD	Transfer Destination Extension Line Number Setting 0 to 9999 (max. 4 digits) (must be set)	No Answer Timer 001 to 600 (seconds) (infinite when not set)		Forward EXT <ul style="list-style-type: none"> • Performs an extension line tone call to the transfer destination extension line specified in parameter 1, and performs a transfer after responding to the other party. • When there is no response, the response from the other party is waited for until the end of the no answer timer set in parameter 2.
3	FWDVM	Transfer Destination VM Number Setting 1 to 4 (must be set)	No Answer Timer 001 to 600 (seconds) (infinite when not set)		Forward VM <ul style="list-style-type: none"> • Setting of the built-in VM corresponding to the transfer destination VM number of parameter 1 is set by programming setting 4201 to 4204. • Performs an extension line tone call to the transfer destination built-in VM specified in parameter 1, and performs a transfer after the VM response. • When there is no response, the response from the other party is waited for until the end of the no answer timer set in parameter 2.
4	PLAY	Guidance Number Setting	Message Play Option <ul style="list-style-type: none"> • 0: Play • 1: Play and Search 		Answer & Play Message <ul style="list-style-type: none"> • Plays back specified guidance in response to a call. • Guidance numbers 1 to 6 are for user recording. • Guidance numbers 7 to 9 are for fixed recording messages. (i.e., 7 = “wait for available agent” message, 8 = “transfer” message, and 9 = “disconnect” message.)
5	SEARCH	Agent Group Setting (must be set)	Search Time Setting 001 to 600 (seconds) (must be set)	No Answer Timer 001 to 600 (seconds) (infinite when not set)	Agent Search <ul style="list-style-type: none"> • Performs a transfer to transferable agents within the agent group specified in parameter 1. • When there is no transferable agent, performs a search until end of the search time set in parameter 2. • When the transferred agent does not respond, a response from the other party is waited for until the end of the no answer timer set in parameter 3, and transfer to another Agent is moved to after the end of the no answer timer.

No	Com- mand	Parameter1	Parameter2	Parameter3	Description
6	RET	Program Line Number Setting 1 to 20 (max. 20 lines) (must be set)	Count Setting 1 to 255 (times) (must be set)		Return <ul style="list-style-type: none"> Repeats the program from the line number specified in parameter 1 up to this line for the count specified in parameter 2.

For details on settings see, “Basic Service Flow” .

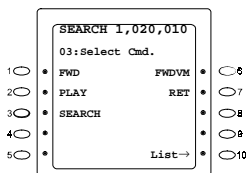
Operation

The following describes the operation in each of the processes.

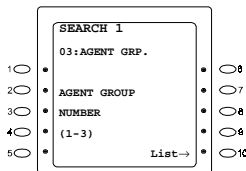
EDIT (FF1)

This command resets the current setting of displayed program lines. Edit is repeated from the specified program line through to the currently registered final program line (excluding the END/DISC line).

The following screen display shows an example of selection and setting of the SEARCH command.



- Press **soft** keys (**1, 2, 3, 6** or **7**) for the command to be set, and press the **HOLD** key.
Example: Press **soft** key **3** to select SEARCH.



- Set parameter 1, and press the **HOLD** key.
Example: Press key **2** to set group 2.

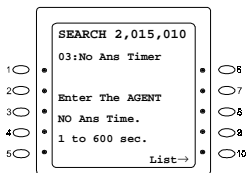




- Set parameter 2, and press the **HOLD** key.

Example: Press keys **0**, **1** and **5** to set the Search Timer to 15.

Example:



- Set parameter 3, and press the **HOLD** key.

Example: Enter three digits to set the No Ans Timer.

The program line that was set is updated when the final parameter is set. The next line is moved to, and the screen in step 1 is redisplayed.



- Repeat steps 1 to 4 to set other program lines, and end programming at the END/DISC line.

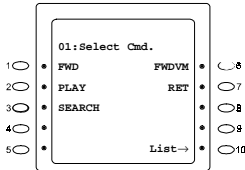
Note:

- The program line is updated when the final parameter setup is completed at each command, and the next line is moved to. (Example: In the case of the FWD command, the program line is updated when the no answer timer of parameter 2 is input, and the next line is moved to.)
- If you press **soft** key **10** and select List at any of the above steps, the List Mode screen is redisplayed.
- The END/DISC line cannot be changed nor deleted.

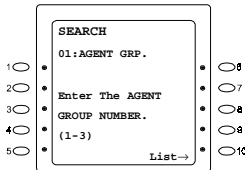
INSERT (FF2)

This command inserts a new line in the current setting of displayed program lines. Insertion can be repeated up to 19 lines.

The following screen display shows an example of insertion and setting of the SEARCH command.

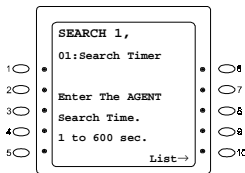


1. Press the **soft** keys **1, 2, 3, 6** or **7** for the commands to be set, and press the **HOLD** key.
Example: Press **soft** key **3** to select SEARCH.



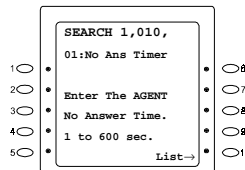
2. Set parameter 1, and press the **HOLD** key.
Example: Press key **1** to set group 1.

Example:



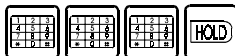
3. Set parameter 2, and press the **HOLD** key.
Example: Press the **0, 1** and **0** keys to set the Search Timer to 10 seconds.

Example:



4. Set parameter 3, and press the **HOLD** key.
Example: Enter three digits to set the No Ans Timer.

The program line that was set is updated when the final parameter is set. The next line is moved to, and the screen in step 1 is redisplayed.



- Repeat steps 1 to 4 to set insertion of other program lines, and end programming at the END/DISC line.

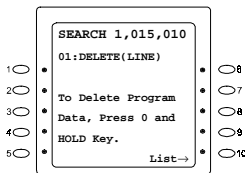
Note:

- If you press **soft key 10** and select List at any of the above steps, the List Mode screen is redisplayed.
- The END/DISC line cannot be changed nor deleted.

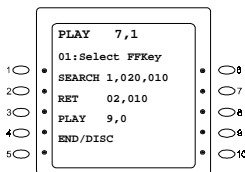
DELETE (FF3)

This command deletes the current setting of displayed program lines. Deletion can be repeated up to 19 lines.

The following screen display shows an example of deletion of line 01.



- Confirm the specified line to be deleted, and press the **HOLD** key.
Example: Line 01 is deleted.



- The program line that was displayed is deleted, and the List Mode screen is re-displayed. When the specified line is deleted, each subsequent program line is shifted up.

Note: If you press soft key 10 and select List at any of the above steps, the List Mode screen is redisplayed.

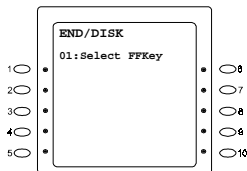
ALL DELETE (FF6)

This command deletes all settings currently set to all lines in the currently displayed program.

1. Press key **0**, and the **HOLD** key.



2. All of the program that was displayed is deleted, and only the default END/DISK line is displayed.



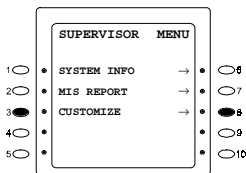
Note: If you press **soft** key **10** and select List at any of the above steps, the List Mode screen is redisplayed.

Transfer Destination Voice Number

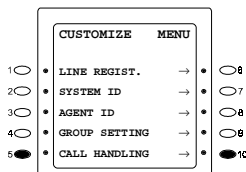
Outline

Sets the voice mail extension line number and access code corresponding to the transfer destination voice mail number (1 to 4).

Operation



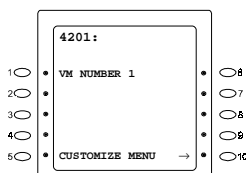
1. From [SUPERVISOR MENU] screen, press the **soft** key **3** or **8** to select [CUSTOMIZE].



2. From [CUSTOMIZE MENU] screen, press the **soft** key **5** or **10** to select [CALL HANDLING].



3. From [CALL HANDLING] screen, press the **soft** key **2** or **7** to select [VM NUMBER].



4. The 4201 setting screen appears. Enter the extension number + access code (max, 16 digits) using the 10-key pad, and press **HOLD** key to make setting. Each time the **HOLD** key is pressed, the setting changes: 4201→4202→4203→4204.



5. To return to [CUSTOMIZE MENU] screen, press the **soft** key **5** or **10**.

Supervisor Features

Supervisor features are roughly divided into three groups:

- 1) Supervisor customization: Set for requested features of ACD.
- 2) Supervisor monitoring: Monitors ACD system status on a large LCD telephone.
- 3) MIS report feature: Outputs agent management information.

All of the above features are included in the supervisor menu. The following describes each of the features and the common operations.

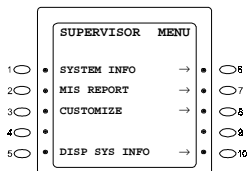
Common Supervisor Menu Operations

Read this section first before using the supervisor features.

Activating Supervisor Menu

Operation

From Large Display Telephone:



1. Press the Log-in button (**FF** key).
2. Enter the 4-digit supervisor ID. If a supervisor ID is not entered, you cannot enter the supervisor menu. Make sure to assign the supervisor ID(s) at installation. (Default: [No assignment])
3. Select a desired menu by using the **soft** keys from the above screen.
4. For further operations, see desired section in this manual.

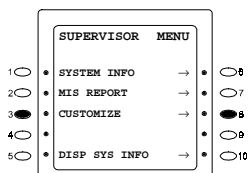
Common Supervisor Customisation Operations

- 1) PROG KEY : Returns to Supervisor Top Menu.
- 2) MEMORY KEY : Goes to the upper layer.
- 3) HOLD KEY : Validates data or goes to the next setting.
- 4) FL/R KEY : Returns to the previous address number.
- 5) CONF KEY : Clears data.
- 6) REDIAL KEY : Displays the data before entering program parameter.
- 7) PREV/NEXT KEY : Scrolls screens if the address has more than one screen.

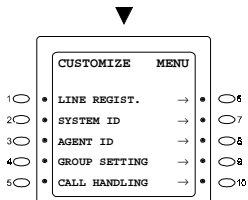
Supervisor Customisation

Each item can be customised by operations from the supervisor menu. The following shows the operation of customisation from the supervisor menu.

Operation



1. From [SUPERVISOR MENU] screen, press the **soft** key **3** or **8** to select [CUSTOMIZE].



2. Select a desired menu by using the **soft** key from the [CUSTOMIZE MENU] screen.
3. For further operations, see desired section in this manual.


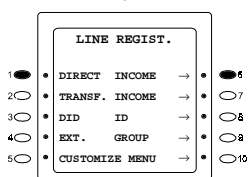
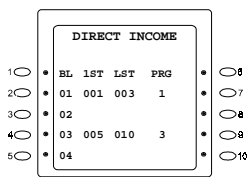
Direct Incoming Call Setting

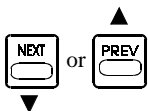
Outline

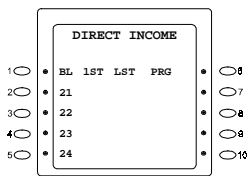
Exchange lines and AC15/E&M Tie lines with direct incoming ACD calls to be processed the same are grouped together as a block. Each block is assigned one of four ACD Call Handling Programs.

Set the ACD Call Handling Program number to each block, and set the ACD service call processing method.

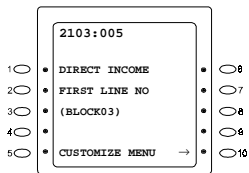
Operation

- From [CUSTOMIZE MENU] screen, press the **soft** key **1** or **6** to select [LINE REGIST.].
 
- From [LINE REGIST.] screen, press the **soft** key **1** or **6** to select [DIRECT INCOME].
 
- The following screen appears. Press the **soft** key for desired block number.
 

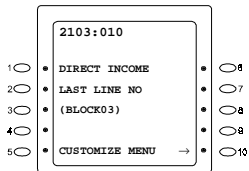




4. Enter the first Exchange line or AC15/E&M Tie line number using the 10-key pad. (The figure on left shows setting of block No. 03.)



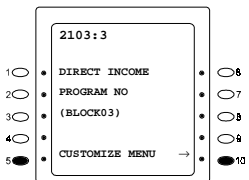
5. Press **HOLD** key to store first line number.



6. Enter the last Exchange line or AC15/E&M Tie line number using the 10-key pad.



7. Press **HOLD** key to store last line number.



8. Enter the ACD Call Handling Program number.

9. To return to [CUSTOMIZE MENU] screen, press the **soft** key **5** or **10**.


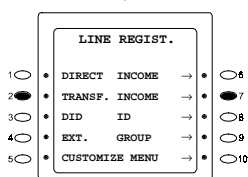
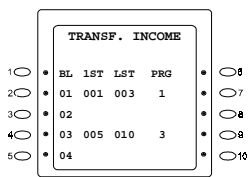
Transferring Incoming Call Setting



Outline

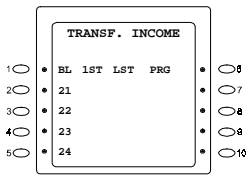
Exchange lines and AC15/E&M Tie lines with transferred incoming ACD calls to be processed the same are grouped together as a block. Each block is assigned one of four ACD Call Handling Programs.

Set the ACD Call Handling Program number to each block, and set the ACD service call processing method.

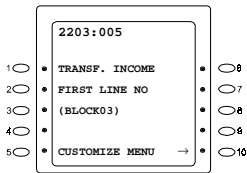
Operation

- From [CUSTOMIZE MENU] screen, press the **soft** key **1** or **6** to select [LINE REGIST.].
 
- From [LINE REGIST.] screen, press the **soft** key **2** or **7** to select [TRANSF. INCOME].
 
- The following screen appears. Press the **soft** key for desired block number.
 

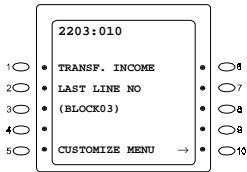

 OR
 



4. Enter the first Exchange line or AC15/E&M Tie line number using the 10-key pad. (The figure on left shows setting of block No. 03.)



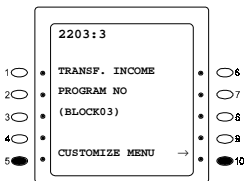
5. Press **HOLD** key to store first line number.



6. Enter the last Exchange line or AC15/E&M Tie line number using the 10-key pad.



7. Press **HOLD** key to store last line number.



8. Enter the ACD Call Handling Program number.

9. To return to [CUSTOMIZE MENU] screen, press the **soft** key **5** or **10**.

DID Call Setting

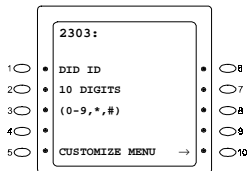
Outline

A total of 20 DID incoming ACD calls (with a maximum of 10 digits) are processed individually. Each DID ID is assigned one of four ACD Call Handling Programs.

Set the ACD Call Handling Program number to each DID ID, and set the ACD service call processing method.

Operation

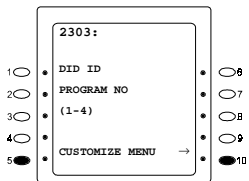
-
1. From [CUSTOMIZE MENU] screen, press the **soft key 1** or **6** to select [LINE REGIST.].
2. From [LINE REGIST.] screen, press the **soft key 3** or **8** to select [DID ID].
3. The following screen appears. Press the **soft key** for desired block number.
4. Use the **NEXT** and **PREVIOUS** keys to scroll through the list of block numbers.



5. Enter the DID ID using the 10-key pad.



6. Press **HOLD** key to store DID ID number.



7. Enter the ACD Call Handling Program number.

8. To return to [CUSTOMIZE MENU] screen, press the **soft** key **5** or **10**.

Ext. Group Call Setting

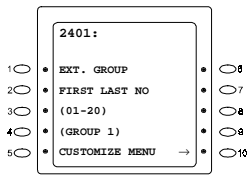
Outline

Incoming ACD ports to be processed the same are grouped together as a block. Each block is assigned one of four ACD Call Handling Programs.

Set the ACD Call Handling Program number to each block, and set the ACD service call processing method.

Operation

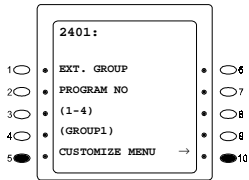
-
- From [CUSTOMIZE MENU] screen, press the **soft key 1** or **6** to select [LINE REGIST.].
 - From [LINE REGIST.] screen, press the **soft key 4** or **9** to select [EXT. GROUP].
 - The following screen appears. Press the **soft key** for desired block number.
 - Enter the first incoming ACD port using the 10-key pad.
 - Press **HOLD** key to store first line number.



6. Enter the last incoming ACD port using the 10-key pad.



7. Press HOLD key to store last line number.



8. Enter the ACD Call Handling Program number.

9. To return to [CUSTOMIZE MENU] screen, press the **soft** key **5** or **10**.

Changing Supervisor IDs and User Information Recording ID

Outline

This procedure changes supervisor IDs and user information recording ID.

Setting

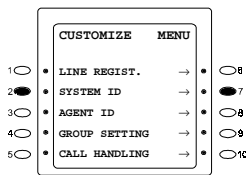
Program Address 3101 to 3106:

Change the ID of Supervisor 1 to 6. The ID must be 4 digits. The initial value should be assigned by your dealer.

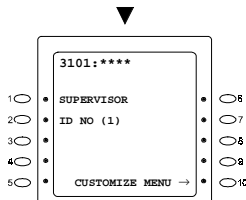
Program Address 3201:

Change the ID for user information recording. The ID must be 4 digits. The initial value should be assigned by your dealer.

Operation



1. From [CUSTOMIZE MENU] screen, press the **soft** key **2** or **7** to select [SYSTEM ID].



2. The 3101 setting screen appears. Enter the 4-digit ID number and press **HOLD** key to make setting. Each time the **HOLD** key is pressed, the setting changes:
3101→3102→3103→3104→3105→3106→3201.



3. Press the **soft** key **5** or **10** to return to [CUSTOMIZE MENU] screen.

Notice

1. Make certain the supervisor IDs and user information recording ID are set at installation. Otherwise, you cannot enter [SUPERVISOR MENU]. Ask your dealer if they are not assigned.

2. Make sure to record the IDs because they cannot be confirmed without entering [SUPERVISOR MENU]. Ask your dealer if you forget.

Setting Agent IDs

Outline

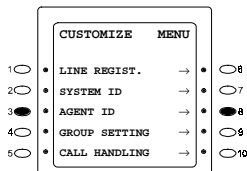
This procedure sets agent ID numbers and their groups.

Setting

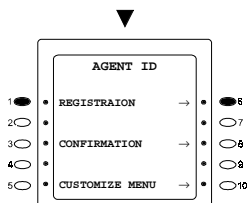
Program Address 3301~3364

Set agent ID numbers and agent groups. ID numbers are fixed to 4 digits. Set 1, 2, or 3 as an agent group for each agent.

Operation

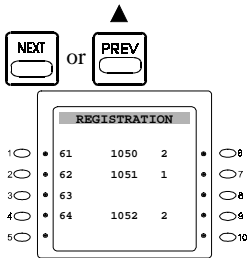


1. From [CUSTOMIZE MENU] screen, press the **soft key 3 or 8** to select [AGENT ID].

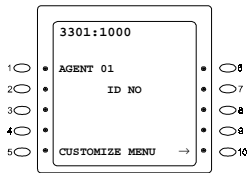


2. From [AGENT ID] screen, press the **soft key 1 or 6** to select [REGISTRATION].

3. The following screen appears. Press the **soft key** for desired agent number.



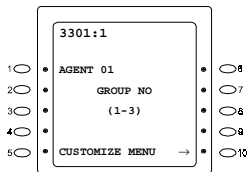
4. Enter 4-digit ID number using the 10-key pad. (The figure on left shows setting of Agent No.01.)
To clear ID press **CONF** key.



5. Press **HOLD** key to store ID number.



6. Enter the agent group number (1, 2 or 3) using the 10-key pad.



7. Press **HOLD** key to validate for this agent.



8. The next agent number is displayed. Repeat the same procedure from procedure 4 for next agent if required.

9. To return to the CUSTOMIZE MENU, press the **soft** key **5** or **10**.



Notice

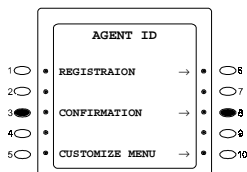
1. Same agent IDs cannot be assigned. You will hear “beep beep” sound.
2. Same agent and supervisor IDs cannot be assigned. You will hear “beep beep” sound.

Confirming Agent IDs

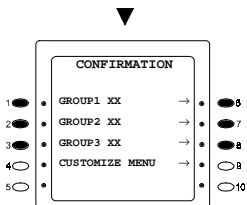
Outline

This procedure displays the ID numbers of agents which belong to each group.

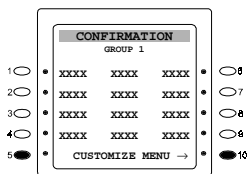
Operation



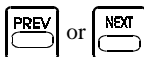
1. From [AGENT ID] screen, press the **soft** key **3** or **8** to select [CONFIRMATION].



2. The screen for selecting group 1, 2, or 3 appears. The number which follows each group is the number of agents in the group. Select the agent group whose agent IDs are to be confirmed, by using **soft** keys.
 Agent group 1: **soft** key **1** or **6**
 Agent group 2: **soft** key **2** or **7**
 Agent group 3: **soft** key **3** or **8**



3. Registered agent ID numbers are displayed (The figure on left shows a list of agent group 1). To scroll up/down the screen, use the **PREV** or **NEXT** key.



4. To return to [CUSTOMIZE MENU] screen, press the **soft** key **5** or **10**.

Setting Service Flow Details

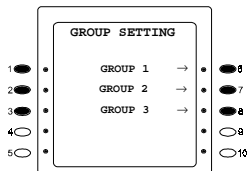
Outline

This procedure makes a variety of settings such as service flow setting, separately for agent group 1, agent group 2, and agent group 3.

Operation



- From [CUSTOMIZE MENU] screen, press the **soft** key **4** or **9** select [GROUP SETTING].

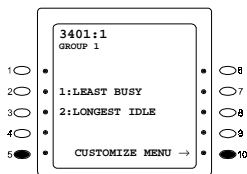


- From [GROUP SETTING] screen, use **soft** keys to select the agent group to be set.

Agent group 1: **soft** key **1** or **6**

Agent group 2: **soft** key **2** or **7**

Agent group 3: **soft** key **3** or **8**



- First setting (3401) for the selected group is displayed. Enter a set value, then press the **HOLD** key to validate setting. Every time the **HOLD** key is pressed without set values specified, the next setting item is displayed. Press **FL/R** key to return to the previous setting.



- To return to [CUSTOMIZE MENU] screen, press the **soft** key **5** or **10**.

Setting

If the first two digits of a setting number is [34], the setting pertains to group 1, and [35], to group 2 and [36] to group 3. The following explanation, therefore, shows group 1/group 2/group 3 settings.

Program Address 3401/3501/3601: Agent search method

Set the agent search method. Select either of the following:

- LEAST BUSY FIRST setting. This mode first selects the agent whose busy rate (total busy time/total Login time) is the lowest in the group for the day.
- NEXT AVAILABLE FIRST setting. This mode selects the agent which is placed in idle status for the longest duration following the last talking status.

Note: For both 1&2, only ACD calls will be counted as busy time or busy status.

Program Address 4101-4104: ACD Call Handling Program

Commands are used to set any call distribution operation to ACD Call Handling Program numbers (4101 to 4104).

Program Address 4201-4204: Transferring Voice Mail access number

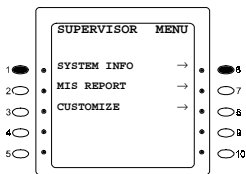
Sets the voice mail extension line number and access code corresponding to the transfer destination voice mail number (1 to 4).

Supervisor Monitoring

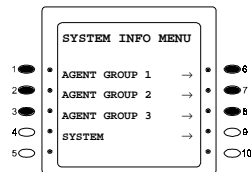
The ACD system can be monitored by the supervisor. Note that data is updated every 10 seconds while the monitoring screen is displayed.

Operation

Details are given in each feature section. The following shows the operation of the supervisor monitoring from the [SUPERVISOR MENU] screen:



1. From the [SUPERVISOR MENU] screen select [SYSTEM INFO].



2. Group 1 monitoring: Press the **soft** key **1** or **6** to select Agent Group 1.
Group 2 monitoring: Press the **soft** key **2** or **7** to select Agent Group 2.
Group 3 monitoring: Press the **soft** key **3** or **8** to select Agent Group 3.



3. After selecting one of the above groups, the following menu selection screen appears. Use **soft** keys to select a desired item. This figure shows the case where [AGENT GROUP 1] is selected.



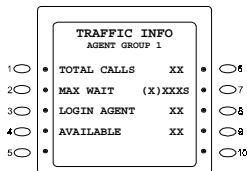
4. Select desired menu. For further operations, see next page.

Traffic Information

Operation



1. From [SYSTEM INFO] screen, press the **soft key 1 or 6** to select [TRAFFIC INFO].



2. The following screen appears.



3. Press the **Memory** key to return to the [SYSTEM INFO.] screen. Press the **PROG** key to return to the [SUPERVISOR MENU] screen.

Screen explanation

TOTAL CALLS : Total number of current incoming calls via the ACD system.

MAX WAIT : The longest time of a current incoming call via the ACD system is placed in wait status, not connected to an agent. The unit is in seconds.

LOGIN AGENT : The number of current log in agents.

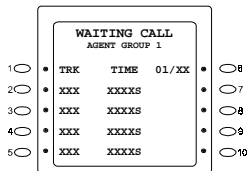
AVAILABLE : The number of agents who are available.

Waiting Calls

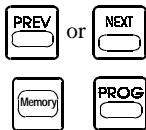
Operation



1. From [SYSTEM INFO] screen, press the **soft** key **2** or **7** to select [WAITING CALL].



2. The following screen appears.



3. Press the **NEXT** key to scroll down/PREV key to scroll up the screen.
4. Press the **Memory** key to return to the [SYSTEM INFO] screen. Press the **PROG** key to return to the [SUPERVISOR MENU] screen.

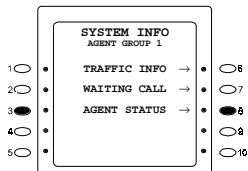
Screen explanation

TRK column: Exchange Line numbers for calls currently in wait status.

TIME column: Time of the call is placed in wait status.

Agent Status

Operation



1. From [SYSTEM INFO] screen, select the **soft** key **3** or **8** to select [AGENT STATUS].

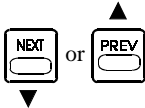
AGENT STATUS INF		
AGENT GROUP 1		
1	• LOGIN AGENT	XX • 6
2	• AVAILABLE	XX • 7
3	• BUSY(ACD CALL)	XX • 8
4	• BUSY(NON-ACD)	XX • 8
5	• IDLE AGENT	XX • 10

2. The following screen appears.



3. Press the **NEXT** key for additional information.

AGENT STATUS INF		
AGENT GROUP 1		
1	• ID EXT STATUS	• 8
2	• XXXX XXXX XXXXX	• 7
3	• XXXX XXXX XXXXX	• 8
4	• XXXX XXXX XXXXX	• 6
5	• XXXX XXXX XXXXX	• 10



4. Press the **NEXT** key to scroll down, **PREV** key to scroll up.

AGENT STATUS INF		
AGENT GROUP 1		
1	• ID EXT STATUS	• 8
2	• XXXX XXXX XXXXX	• 7
3	• XXXX XXXX XXXXX	• 8
4	• XXXX XXXX XXXXX	• 8
5	• XXXX XXXX XXXXX	• 10



5. Press the **Memory** KEY to return to the [SYSTEM INFO] screen. Press the **PROG** key to return to the [SUPERVISOR MENU] screen.

Screen explanation

A. First screen

LOGIN AGENT: Number of agents that have logged in.

AVAILABLE: Number of log-in agents in AVAILABLE status.

BUSY(ACD CALL): Number of agents engaged in incoming calls via the ACD system.

BUSY (NON-ACD): Number of agents engaged in calls other than the above BUSY (ACD CALL) calls.

IDLE AGENT: Number of agents ready to answer incoming calls.

B. Second and the subsequent screens

ID column: Agent IDs.

EXT column: Extension numbers used by agents.

STATUS column: Current agent status.

Meaning of the display is as follows:

Avail: The agent is in the AVAILABLE status.

Unav.: The agent is in the UNAVAILABLE status.

ACD: The agent is engaged in incoming calls via the ACD system.

N-ACD: The agent is engaged in calls other than the above ACD calls.

MIS Report Features

MIS Report Outline

The MIS Report feature provides the Supervisor with a variety of reports.

Activity of each agent, system, or a group is tabulated on an hour, day, or week (Monday to Sunday) basis. Data is saved for 14 days.

Printing order is issued from the Supervisor monitor telephone. For details, see [MIS Report Operation]. Output destination is an RS-232C-compatible printer or an RS232C-compatible personal computer (PC). To enable output to a PC, communication software is required. For details on the MIS output and connection, see the Installation Manual.

Notice

1. MIS report data memory is saved for only 14 days regardless of main cabinet's power switch status of past 14 days.
2. If the date and time of the main unit is changed, MIS report will not be accurate. In this case, output MIS report in advance, and clear the data (See Other Features/Data Clear).
3. MIS report which includes present time (for example 19:30), will be incomplete (report up to 19:00).
4. Two supervisors cannot output the MIS report simultaneously.
5. The MIS report data cannot be cleared if another supervisor has been entering the MIS REPORT MENU.
6. Two supervisors cannot enter the MIS REPORT MENU and CUSTOMIZE MENU simultaneously.
7. The definition of an ACD talk time is a time span from a call picked up to an end of a conversation or transferring to another extension.

8. If a non-Agent picks up an ACD call, MIS report will not be accurate. Therefore, the Manufacturer recommends not to assign ACD lines to FF keys.
9. The MIS report includes Abandoned incoming calls.
 - Exchange disconnects call before agent answers.

The following gives an outline of the MIS report output.

Agent Activity

The following reports are tabulated on a per agent basis:

- Total Log-in Time, Unavailable Time, Talk Time, Idle Time & Percentage (IDLE Time=LOGIN Time-TALK Time).
- Average time from call incoming to answer.
- Number of incoming calls, number of answered calls.

Group Activity

The following reports are tabulated on a per group basis:

- Total Log-in Time, Unavailable Time, Talk Time, Idle Time & Percentage (IDLE=LOGIN-TALK).
- Number of incoming calls, number of answered calls.

System Activity

The following reports are tabulated on a per system basis:

- Total Log-in Time, Unavailable Time, Talk Time, Idle Time & Percentage (IDLE=LOGIN-TALK).
- Number of incoming calls, number of answered calls.

Work Unit Count

The following report is tabulated:

Number of per-code calls (tabulated on a daily/weekly basis for each group/system).

MIS Function Tabulation Unit

MIS report is output in the following cycles:

- Hourly report:
Specified date(s) can be output on an hourly (0-24) basis.
- Daily report:
Data for previous week/this week can be output on a daily basis.
The oldest available data is Monday of previous week.
- Weekly report:
Data for both previous and this weeks are output on a weekly basis.

The following shows available report.

Table 3:

Group		TOTAL LOGIN TIME	UNAVAIL ABLE TIME	TALK TIME	IDLE TIME	INCOMING CALLS	ANSWER CALLS	AVERAGE RINGING TIME	ABANDONED CALLS
Agent (1-64)	HOURLY	o	o	o	o	o	o	X	X
	DAILY	o	o	o	o	o	o	o	X
	WEEKLY	o	o	o	o	o	o	o	X
Group (1, 2, or 3)	HOURLY	o	o	o	o	o	o	X	X
	DAILY	o	o	o	o	o	o	X	X
	WEEKLY	o	o	o	o	o	o	X	X
System	HOURLY	o	o	o	o	o	o	X	X
	DAILY	o	o	o	o	o	o	X	X
	WEEKLY	o	o	o	o	o	o	X	X
	INCOMING ABANDONED CALLS	X	X	X	X	X	X	X	o

O : Available to report
 X : Unavailable to report

The following shows the tabulation unit of WORK UNIT COUNT.
 Total count per code is shown in the following tabulation unit:

Table 4:

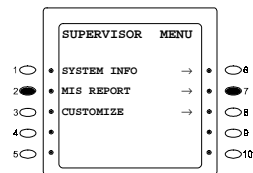
Unit		Code 1	Code 2	Code 3	----	Code 20
Group 1	DAILY					
	WEEKLY					
Group 2	DAILY					
	WEEKLY					
Group 3	DAILY					
	WEEKLY					
System	DAILY					
	WEEKLY					

MIS Report Operation

• Common Operation of MIS Report

MIS reports can be output by operations from the Supervisor. The following shows the MIS report output operation from [SUPERVISOR MENU]:

Operation

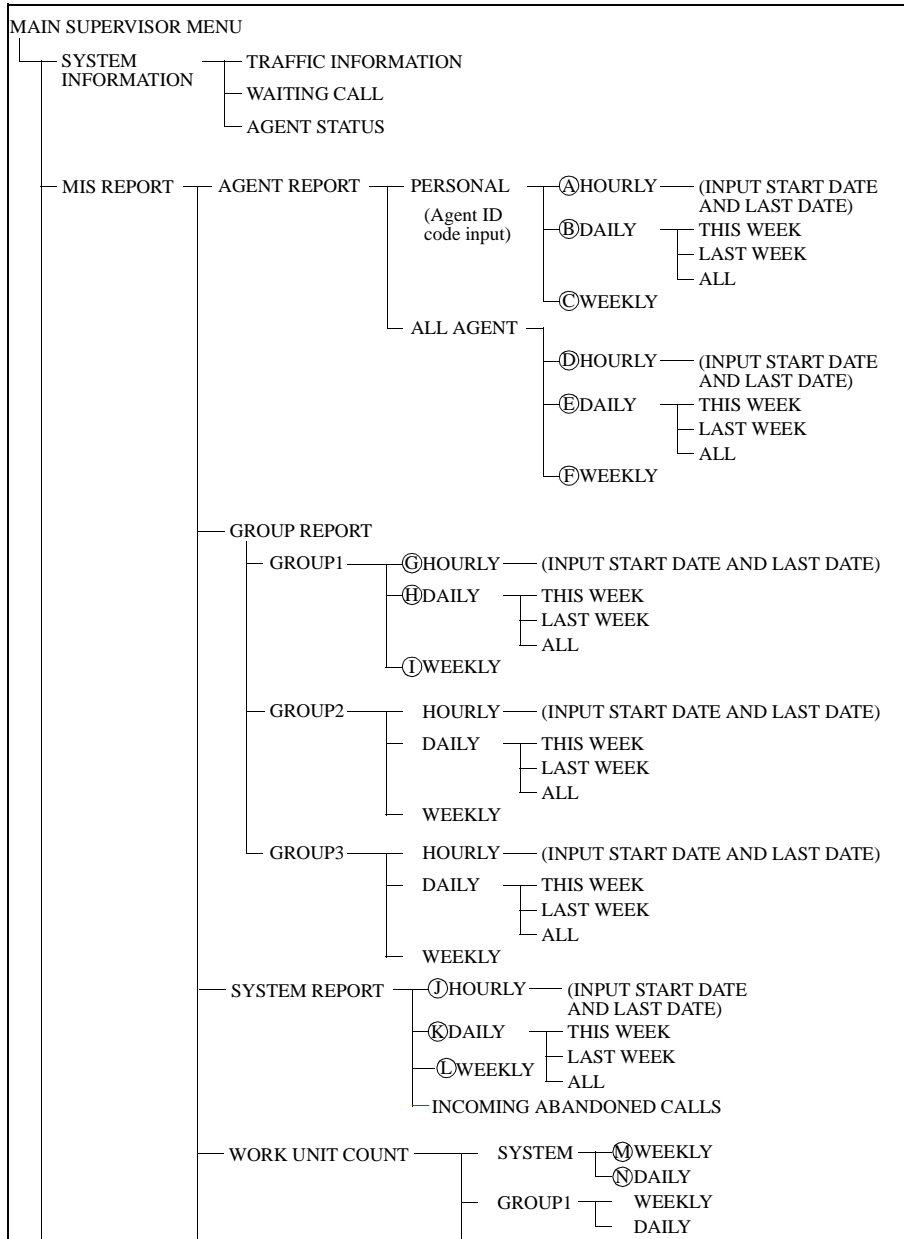


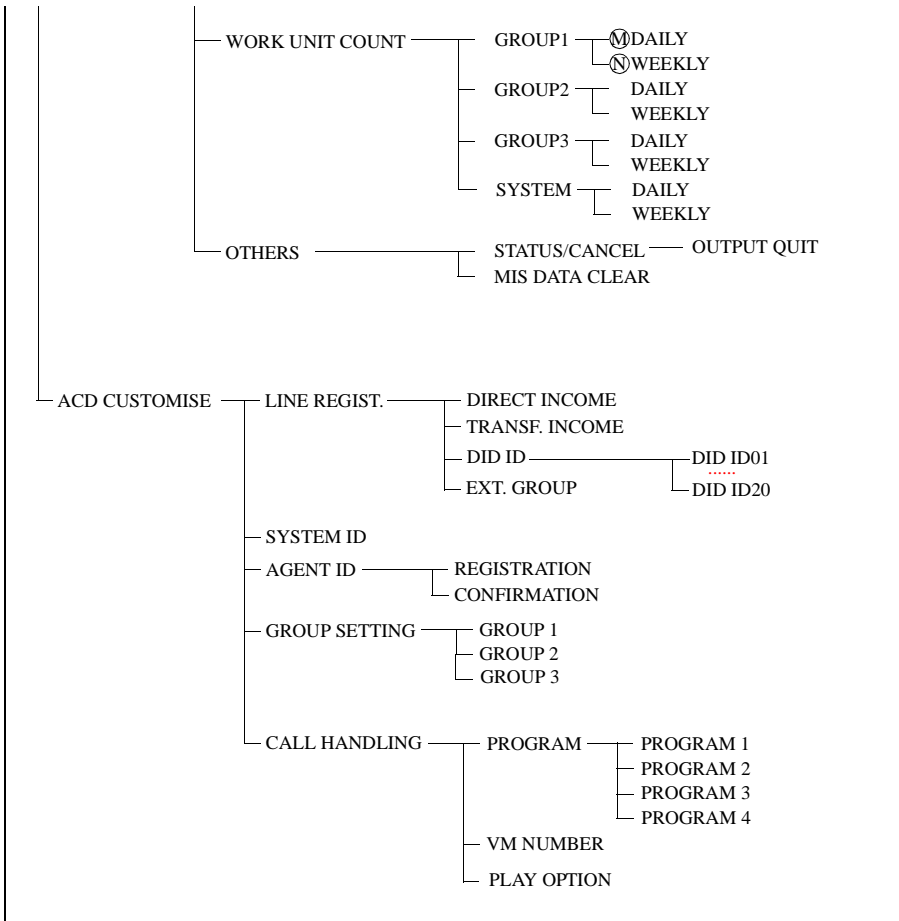
1. From [SUPERVISOR MENU] screen, press the **soft** key **2** or **7** to select [MIS REPORT]. [MIS REPORT MENU] screen appears.



2. Select a desired menu by using the **soft** keys from the above screen.

Figure 4. ACD Supervisor Mode Menu Flow Chart





• Output of MIS Report Data

The following explains the procedure for outputting each function. The procedures below are operations from [MIS REPORT MENU] screen.

Agent Report

A. Hourly tabulation of each agent



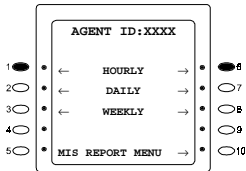
1. From [MIS REPORT] screen, press the **soft** key **1** or **6** to select [AGENT REPORT].



2. The following screen appears. Press the **soft** key **1** or **6** to select [PERSONAL]. Pressing the **soft** key **5** or **10** returns to [MIS REPORT MENU] screen (the same for the subsequent screens).



3. The following screen appears. Enter the 4-digit ID code of the target agent by using the **10**-key pad.



4. The following screen appears. Press the **soft** key **1** or **6** to Select [HOURLY].



5. The following screen appears. Enter the starting date and ending date of the data to be output. First enter the starting date, press **HOLD** key to validate, then enter the ending date and press **HOLD** key again. No month is needed to be entered. For example, data for a period beginning with April 25 and ending with May 2, Enter 25 as the starting date, 2 as the ending date. For 1 through 9, 01 through 09 can be entered instead.



First date input + **HOLD** key + Last date input + **HOLD** key.

LAST DATE:		
1 ○	ENTER THE LAST	○ 8
2 ○	DATE (DD) AND PRESS	○ 7
3 ○	HOLD KEY	○ 8
4 ○		○ 8
5 ○	MIS REPORT MENU →	○ 10



MIS OUTPUT		
1 ○	AGENT ID:XXXX	○ 8
2 ○	HOURLY REPORT	○ 7
3 ○	FROM XX TO XX	○ 8
4 ○		○ 8
5 ○	MIS REPORT MENU →	○ 10

6. Once the input data is validated, the data output starts. The following screen appears while the output is in progress. To abort output, see the section [MIS data output abort] section of, [Other Features].

B. Daily tabulation of each agent

Steps 1 to 3 are the same as those for item A.

AGENT ID:XXXX		
1 ○	← HOURLY →	○ 8
2 ●	← DAILY →	● 7
3 ○	← WEEKLY →	○ 8
4 ○		○ 8
5 ○	MIS REPORT MENU →	○ 10

4. The following screen appears. Press the **soft** key **2** or **7** to Select [DAILY].

AGENT ID:XXXX		
1 ●	← THIS WEEK →	● 6
2 ●	← LAST WEEK →	● 7
3 ●	← ALL →	● 8
4 ○		○ 8
5 ○	MIS REPORT MENU →	○ 10

5. The following screen appears. Press the **soft** key **1** or **6** for [THIS WEEK], **2** or **7** for [LAST WEEK], **3** or **8** for [ALL].

MIS OUTPUT		
1 ○	AGENT ID:XXXX	○ 8
2 ○	DAILY REPORT	○ 7
3 ○	THIS WEEK	○ 8
4 ○		○ 8
5 ○	MIS REPORT MENU →	○ 10

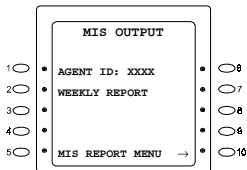
6. Once the input data is validated, the data output starts. The following screen appears while the output is in progress. To abort output, see the [MIS data output abort] section, [Other Features]. (The figure on left shows outputting of this week)

B. Weekly tabulation of each agent

Steps 1 to 3 are the same as those for item A.



4. The following screen appears. Press the **soft** key **3** or **8** to select [WEEKLY].



5. Once the input data is validated, the data output starts. The following screen appears while the output is in progress. To abort output, see the section [MIS data output abort], section, [Other Features].

C. Hourly tabulation of all agents

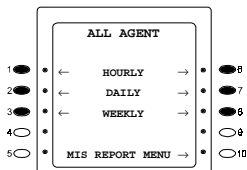
D. Daily tabulation of all agents

E. Weekly tabulation of all agents

Step 1 is the same as that for items A.



2. From the following screen, press the **soft** key **2** or **7** to select [ALL AGENT].



3. The following screen appears. Press the **soft** key **1** or **6** to select [HOURLY], **2** or **7** to select [DAILY], **3** or **8** to select [WEEKLY].

4. Follow steps 5 and 6 of item A for [HOURLY].
Follow steps 5 and 6 of item B for [DAILY].
Follow steps 5 of item C for [WEEKLY].

Group Report

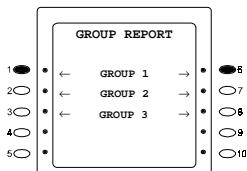
F. Hourly tabulation of group report

G. Daily tabulation of group report

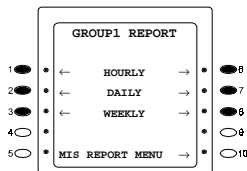
H. Weekly tabulation of group report



1. From [MIS REPORT] screen, press the **soft** key **2** or **7** to select [GROUP REPORT].



2. The following screen appears. Press the **soft** key **1** or **6**, **2** or **7**, or **3** or **8** to select [GROUP1/GROUP2/GROUP3]. Pressing the **soft** key **5** or **10** returns to [MIS REPORT MENU] screen (the same for the subsequent screens).
The following procedure assumes that [GROUP 1] is selected:



3. The following screen appears. Press the **soft** key **1** or **6** to select [HOURLY], **2** or **7** to select [DAILY], **3** or **8** to select [WEEKLY].

4. Follow steps 5 and 6 of item A for [HOURLY].
Follow steps 5 and 6 of item B for [DAILY].
Follow steps 5 of item C for [WEEKLY].

System Report

I. Hourly tabulation of system report

J. Daily tabulation of system report

K. Weekly tabulation of system report

MIS REPORT MENU		
1 ○	← AGENT REPORT →	○ 6
2 ○	← GROUP REPORT →	○ 7
3 ●	← SYSTEM REPORT →	● 8
4 ○	← WORK UNIT →	○ 9
5 ○	← OTHERS →	○ 10

- From [MIS REPORT] screen, press the **soft** key **3** or **8** to select [SYSTEM REPORT].

SYSTEM REPORT		
1 ●	← HOURLY →	● 6
2 ●	← DAILY →	● 7
3 ●	← WEEKLY →	● 8
4 ○	← DISC. CALL →	○ 9
5 ○	← MIS REPORT MENU →	○ 10

- The following screen appears. Press the **soft** key **1** or **6** to select [HOURLY], **2** or **7** to select [DAILY], **3** or **8** to select [WEEKLY], or **4** or **9** to select [INCOMING ABANDON CALLS].

- Follow steps 5 and 6 of item A for [HOURLY].
Follow steps 5 and 6 of item B for [DAILY].
Follow steps 5 of item C for [WEEKLY].

Work Unit Count

L. Daily tabulation of work unit count

MIS REPORT MENU		
1 ○	← AGENT REPORT →	○ 6
2 ○	← GROUP REPORT →	○ 7
3 ○	← SYSTEM REPORT →	○ 8
4 ●	← WORK UNIT →	● 9
5 ○	← OTHERS →	○ 10

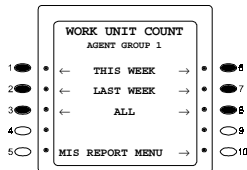
- From [MIS REPORT] screen, press the **soft** key **4** or **9** to select [WORK UNIT].

WORK UNIT COUNT		
1 ●	← GROUP 1 →	● 6
2 ●	← GROUP 2 →	● 7
3 ●	← GROUP 3 →	● 8
4 ○	← SYSTEM →	○ 9
5 ○	← MIS REPORT MENU →	○ 10

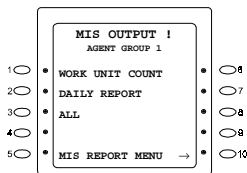
- The following screen appears. Press the **soft** key **1**, **2**, **3**, **4**, or **6**, **7**, **8**, **9** to select [GROUP1/GROUP2/GROUP3/SYSTEM]. GROUP1 represents Agent Group 1, GROUP2 represents Agent Group 2, and GROUP3 represents Agent Group 3. SYSTEM represents the total sum of Group 1, Group 2, and Group 3. The following procedure assumes that Group 1 is selected (the operation is the same if another option is selected).



3. The following screen appears. Press the **soft** key **2** or **7** to select [DAILY].



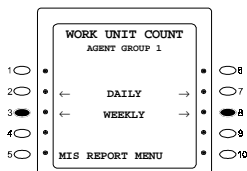
4. From the following screen, press the **soft** key **1**, **2**, **3** or **6**, **7**, **8** to select [THIS WEEK], [LAST WEEK], [ALL].
When [THIS WEEK] is selected, data is output from Monday of this week.
When [LAST WEEK] is selected, data is output from Monday to Sunday of last week.
When [ALL] is selected, all data from Monday of last week will be output.



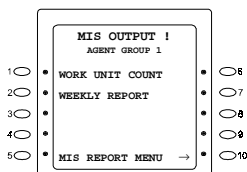
5. Once the input data is validated, the data output starts. The following screen appears while the output is in progress. To abort output, see the section [MIS data output abort] section, [Other Features].

M. Weekly tabulation of work unit count

Steps 1 to 2 are the same as those for item M.



3. The following screen appears. Press the **soft** key **3** or **8** to select [WEEKLY].



4. Once the input data is validated, the data output starts. The following screen appears while the output is in progress. To abort output, see the section [MIS data output abort] of [Other Features].

Other Features (Data Clear and Output Cancel)

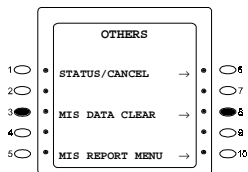
N. MIS data clear

* This feature clears all MIS data.

- From [MIS REPORT] screen, press the **soft** key **5** or **10** to select [OTHERS].



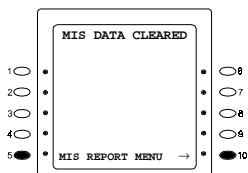
- The following screen appears. Press the **soft** key **3** or **8** to select [MIS DATA CLEAR].



- The following screen appears. To clear data, press **0** and **HOLD** keys. This starts data clear processing.



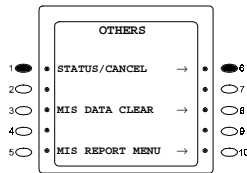
- Once data clear is completed, the following screen appears. Pressing the **soft** key **5** or **10** returns to [MIS REPORT MENU] screen.



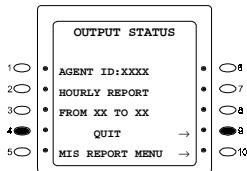
O. MIS data output confirmation/cancel

* This feature confirms/cancels MIS data output.

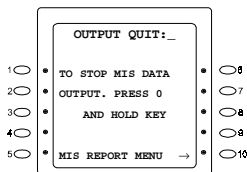
- Step 1 is the same as that for item O.
- The following screen appears. Press the **soft key 1 or 6** to select [STATUS/CANCEL].



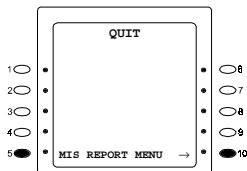
- The following screen appears to show the current MIS data output status on the Large Display (end of confirmation). To abort MIS data output, press the **soft key 4 or 9** to select [QUIT]. The following screen assumes that daily report of Agent ID XXXX is being output.



- The following screen appears. To quit, press **0** and **HOLD** keys.



- Once output is cancelled, the following screen appears. Pressing the **soft key 5 or 10** returns to [MIS REPORT MENU] screen.



User Information Recording

The following (Figure 5) shows the service flow for recording user information messages. Voice output ports of the ACD system can be directly accessed to register, confirm, change, or delete messages. The maximum recording length of each service information message is 14 seconds.

In version 3.0, up to 6 kinds of information messages can be registered per ACD system. Individual messages can be of varying lengths, with an inclusive total of 96 seconds recording time available.

After recording your information message(s), select which information message to be sent to an outside party by entering parameter on service Flow Details (Figure 3-2).

Related program addresses are:

4101 - 4104: ACD Call Handling Program
4201 - 4204: Transferring Voice Mail access number
4301 : Message Play Option

Notice

Even if your message are recorded, using Figure 5, user information numbers (1-6) must be selected for above program addresses. If they are not selected, initial messages will be sent.

Agent Features

Log-in / Log-out

Log-in procedure



1. Press the **LOGIN** key then, press the AGENT ID CODE.
2. The LED lights in green to notify completion of log-in.
3. Press **ON/OFF** key after the completion of log-in.

Notice

1. **LOGIN** key must be assigned in advance (See Key Assignment).
2. Entering an unregistered agent ID code displays an error. In this case, do the procedure from the beginning again after pressing ON/OFF key.
3. Do not Log-in or Log-out while placing a call on hold.

If the extension is already logged in, another agent cannot log in using his/her agent ID. The Current agent must log out once to log in again.

4. An ACD agent Log-in cannot set CFWD or Hunt Group functions.

Log-out procedure



1. Press the **LOGIN** key while the key LED is illuminated in green.
2. The key LED goes off to notify the completion of log-out.
3. Press **ON/OFF** key.

Available/Unavailable

Pressing the **UNAVAILABLE** key from an idle terminal which is logged in places the extension in the Unavailable status temporarily. This **UNAVAILABLE** excludes the telephone from candidates of ACD incoming calls. Pressing the key again returns the telephone into the Available status. This key's LED illuminates in green for the Available status and red for the Unavailable status. Same as the LOGIN key, the **UNAVAILABLE** key LED goes off with log-out procedure.

Operation



To activate **UNAVAILABLE** status:
Press the green/**UNAVAILABLE** key (the key LED illuminates in red).



To return to **AVAILABLE** status:
Press the red/**UNAVAILABLE** key (the key LED illuminates in green).

Notice

1. **UNAVAILABLE** key must be assigned in advance (See Key Assignment).
2. If an agent does not answer an ACD incoming call before a specific time (Initial: 10 sec.), the agent will become **UNAVAILABLE** automatically.

Work Unit Count

Work Unit Codes can be preset with the Work Unit Count key. When used, they appear in the MIS report. For example, 01 for claims, 02 for sales, 03 for brochure. A maximum of 20 codes can be entered (set at installation).

Operation



1. Press Work Unit key while ACD call.
This lights the LED in red. Pressing the key again turns off the LED and deletes code. The number of codes per call is not restricted (multiple count is allowed).

Notice

1. The Work Unit Count key is effective only from an agent telephone and while the telephone is engaged in an ACD call.

- When the call is placed on hold, the LED remains on. It goes off if another telephone retrieves the call placed on hold. If the same telephone retrieves the call placed on hold the LED remains on, and goes off when the call is released.

Wrap Feature

When an agent finishes an incoming ACD call conversation, he/she can have “wrap-up” time to prepare a memo or record other pertinent information.

Operation

Not required. Set this feature for each agent group. (Can be set upon installation)

To use the Wrap Feature the agent presses the Wrap Key upon completion of his/her call. The agent will then have up to 600 seconds (maximum) to complete wrap-up and be ready for the next incoming call. The default wrap-up time is set at 20 seconds and can be modified to accommodate the estimated wrap-up needs of agents.

If your agent group is using the Wrap feature, the LED of the Wrap Key will change, as follows, when pressed by the agent:

Wrap Feature	Wrap Key LED
During Wrap-up time	lit in green
Wrap-up time final 15 seconds	blinks in red
Non Wrap-up time	no light

Setting

Set the program setting for the Wrap function as follows:

Agent Group	Wrap Function		
	Setting	0 = No Wrap (Default)	1 = Wrap
1	3402 Wrap Function	0 = No Wrap (Default)	1 = Wrap
	3403 Wrap Time	60:60 secs	1-600 = 1 to 600 secs
2	3502 Wrap Function	0 = No Wrap (Default)	1 = Wrap
	3503 Wrap Time	60:60 secs	1-600 = 1 to 600 secs
3	3602 Wrap Function	0 = No Wrap (Default)	1 = Wrap
	3603 Wrap Time	60:60 secs	1-600 = 1 to 600 secs

Notice

- Wrap time is included an agent’s talk time for the MIS reports.
- Only one Wrap Key is available for each extension.

Zip Tone

Zip mode automatically answers calls when an agent is using the Headset mode. With the Zip mode enabled, the agent hears a brief alert tone via the headset before the system automatically answers the incoming call.

Operation

The user hears the notification (ZIP) tone and the call is automatically connected.

Setting

When in Headset mode:

1. Press the **ON/OFF** key.
2. Press the **PROG** key.
3. Dial **80** to toggle ZIP Mode ON and OFF.
4. The telephone LCD panel displays **ZIP MODE ON** or **ZIP MODE OFF**.

Notes:

- Call Forwarding takes precedence over the Zip mode.

Key Assignment

Assign the following keys to the Flexible Function (FF) keys of each telephone (setting at installation work). You must not assign more or less than 1 LOGIN or AVAILABLE key to one telephone:

- LOGIN (mandatory)
- UNAVAILABLE (mandatory)
- WORK UNIT COUNT (01-20: optional)
- WRAP KEY (optional)

Setting

1. Press the **ON/OFF** key and **PROG** key.
2. Select a vacant **FF** key.

3. Press **REDIAL** key.
4. Select to feature code to assign.

Feature Description	Fixed Feature Code + (additional digits to program into key)
ACD-1 Log-In/Out Key	*#80
ACD-1 Work Unit Key	*#81 + (Work Unit 01-20)
ACD-1 Unavailable Key	*#82
ACD-1 Wrap Key	*#83
Zip Tone Mode ON/OFF Key	*73

5. Press **HOLD** key to store.
6. Press **ON/OFF** key to end.

Notice

1. If an **FF** key selected in setting two is not vacant (Pre-assigned), the previous setting will be erased automatically.
2. To confirm an **FF** key assignment, press **ON/OFF-CONF-FF** key.
3. To delete an **FF** key assignment, skip procedures three and four of setting procedure.

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