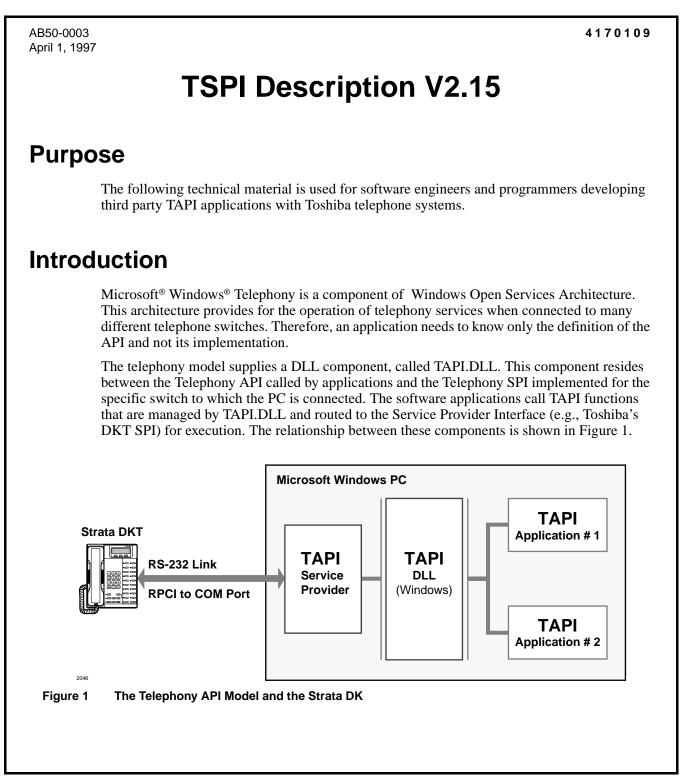
Computer Telephony Integration Application Bulletin



The Telephone Applications Programming Interface (TAPI) was a joint development of Microsoft and Intel[®] to provide a standard method of connecting Windows based PCs to all types of telephone systems. The standard allows software developers to create applications without having to worry about how the telephone network interface functions. This interface provides three levels of service: Basic, Supplementary, and Extended.Levels of Service

Levels of Service

Basic

Basic Services are centered around Plain Old Telephony Service (POTS) including a set of redefined call states and information messages which pass events to the application. Features of POTS include answering calls, making calls, numbering plans to support dialing, and the ability to translate numbers based upon type and location of the user.

Supplementary

Supplementary Services provide additional features commonly found in most PBX's. These include call features such as Call Transferring, Forwarding, Conferencing, Hold, Park, and Pickup. Additional services are defined for interfacing Media Services such as providing interfaces for fax, modems, voice response, and tone detection/generation. Release 2.0 of the TAPI specification includes third party call control services for Automatic Call Distribution (ACD) and future Asynchronous Transfer Mode (ATM).

Extended

Extended Services provide a method to access features and services beyond the Basic or Supplementary Services. TAPI provides for the passing of messages directly between the telephone system and the application. TAPI only passes these messages directly to either end and does not take action or make interpretations of them. The application, therefore, is responsible for the complete interaction of the feature or service provided.

Interfaces

The Windows Open System Architecture provides two interfaces for Telephony Devices. The TAPI interface provides for the control of calls using a well defined interface and the audio connection is handled in what Microsoft calls a Media Stream. To allow for a standard interface for playing and recording messages, interfacing fax, modem or other devices uses a separate application interface. The WAV API is a common interface that can provide these services in an open manner that can be controlled using the TAPI interface.

Strata DK's TSPI Model

For the application's developer, the Microsoft standard provides for two device classes: the line device and the phone device. Any physical telephonic device recognized by TAPI fits into one of these two classes, and can be treated in a consistent and reliable manner. Strata DK TSPI only supports the line device class. The phone class is for telephone devices controlled by the application.

Line Device Model

The Strata DK TSPI models its interface as a single-line device with multiple addresses, each having no more than one call appearance. The specific capabilities of the line device and each of the addresses are explained under the function description for lineGetDevCaps and lineGetAddressCaps.

Phone Device Model

At present, the DKT TSPI does not support the phone device model.

The DKT TSPI Call State Flow

The Toshiba TAPI Service Provider V2.15 has been released with the following call state flow as illustrated in the diagram below:

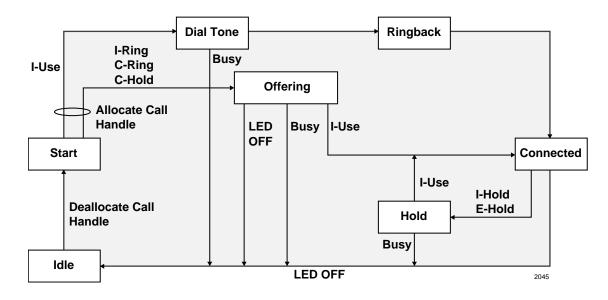


Figure 2 Call State Flow

CALL STATE LED	Flash	Color	DK16E & DK424 R3	ALL OTHER Systems
Idle	Steady Off		Idle	Idle
Transferred Calls	(1Hz)	Green		T-Ring
Incoming Call	1 (10Hz), 1 Off	Green	I-Ring	I-Ring
Hold Recall	1 (2Hz), 1 (10Hz)	Green	H-Recall	H-Recall
I-Hold	(4Hz)	Green	I-Hold	I-Hold
Transfer Hold	(10Hz)	Green	T-Hold	T-Hold
Exclusive Hold	(10Hz)	Green	E-Hold	E-Hold
Current Line In-Use*	I-Use Rate	Green	I-Use	I-Use
Common Hold	3/4 On, 1/8 Off	Red		C-Hold
Common Hold	(1Hz)	Red	C-Hold	C-Ring, T-Hold
Incoming Line Ring	(1Hz)	Red		L-Ring
Common Ring	(2Hz)	Red	C-Ring	
Busy	Steady On	Red	Busy	Busy

Table 2-1Call State Descriptions

*I-Use rate is generated in the phone. The cycle consists of 2 seconds on followed by 1/8 second off, 1/8 second on, 1/8 second off state.

System Messages

An application receives information in two ways: solicited and unsolicited. Solicited information is requested by the application through a function call such as lineGetDevCaps or lineGetAddressCaps. Unsolicited information arrives in the form of messages. Often, the two mechanisms are used together, as when an application receives a LINE_CALLSTATE message, after which it checks the information contained in the LINECALLINFO structure by calling lineGetCallInfo.

Strata DKT TSPI supports the following messages providing unsolicited information:

LINE_CALLSTATE

Sent to an application to notify it about changes in a call's state.

LINE_LINEDEVSTATE

Sent to the application to notify it about changes in the line status. This message indicates which status item has changed.

LINE_ADDRESSSTATE

The Service Provider follows with this callback message giving changes to the state of any address.

LINE_CALLINFO

A callback message that notifies of additional information about the call.

LINE_REPLY

Messages generated for all asynchronous requests. Toshiba DKT TSPI always uses lineMakeCall in this asynchronous manner.

LINE_NEWCALL

A message to notify the application of a new call event arriving.

Startup and Shutdown of TAPI

lineInitialize

An application registers a TAPI connection by calling this function. This function is not passed through to the TSPI but handled by TAPI.DLL. One of the main purposes is to establish a pointer to the application's callback function to allow unsolicited messages to be registered. Two pieces of information is returned to the application: an application handle and the number of available line devices. Strata DK TSPI supports multiple line devices.

lineShutdown

When the application is done, this command releases the resources and the TAPI environment is disconnected.

lineNegotiateAPIVersion

This function is used to negotiate the API version number to used. The application provides the range of versions it is compatible with and TAPI.DLL in turn negotiates with the TSPI to determine which version range it supports.

lineOpen

This function opens the specified device ID for the purpose of monitoring or control by the application. Opening the line returns the handle for the device. The application can then use this handle to answer inbound calls, make outbound calls, or monitor call activities on the line for logging purposes. The application should query the capabilities of the line, (using lineGetDevCaps) before opening the line device. Upon opening the line, a serial port will be allocated and initialized.

lineSetStatusMessages

This operation allows an application to specify which notification messages the service provider should generate for events related to the status changes for the specified line or any of its addresses.

lineGetStatusMessages

This function queries the TSPI for current status messages.

lineClose

This function closes the specified open line device after aborting all outstanding calls and asynchronous operations on the device.

Receiving Information

lineGetDevCaps

This function queries a specified line device to determine its telephony capabilities. It is important for an application to call this function before opening the line device. This allows the application to determine which of possibly several line devices to use. Returns the supplementary and extended capabilities of a given line device as a data structure of type lineDevCaps:

Field Name	Setting
dwProviderInfoSize dwProviderInfoOffset	The memory area referenced by these fields will contain the NULL-terminated string describing the service provider. The Strata DK service provider is "Toshiba DKT TSPI".
dwSwitchInfoSize dwSwitchInfoOffset	This memory area is not used by the Toshiba DKT TSPI.
dwPermanentLineID	This field will contain the permanent device ID, as found in TELEPHON.INI.
dwLineNameSize dwLineNameOffset	This memory area contains the name of the device as defined in Setup of the driver installed.
dwStringFormat	STRINGFORMAT_ASCII
dwAddressModes	LINEADDRESSMODE_ADDRESSID
dwNumAddresses	This field reports the number of addresses found for this device. This is defined in Setup of the driver installed.
dwBearerModes	LINEBEARERMODE_VOICE
dwMaxRate	0
dwMediaModes	LINEMEDIAMODE_INTERACTIVEVOICE
dwGenerateToneModes dwGenerateToneMaxNumFre q	Not supported by Toshiba DKT TSPI.
dwGenerateDigitModes	LINEDIGITMODE_DTMF
dwMonitorToneMaxNunFreq dwMonitorToneMaxNumEntr ies	Not supported by Toshiba DKT TSPI.

Field Name	Setting
dwMonitorDigitModes	Not supported by Toshiba DKT TSPI.
dwGatherDigitsMinTimeout dwGatherDigitsMaxTimeout	Not supported by Toshiba DKT TSPI.
dwMedCtlDigitMaxListSize dwMedCtlMediaMaxList dwMedCtlToneMaxListSize dwMedCtlCallStateMaxListS ize	Not supported by Toshiba DKT TSPI.
dwDevCapFlags	0
dwMaxNumActiveCalls	1
dwAnswerMode	LINEANSWERSTATE_DROP
dwRingModes	0
dwLineStates	LINEDEVSTATE_OTHER LINEDEVSTATE_CONNECTED
	LINEDEVSTATE_DISCONNECTED LINEDEVSTATE_OPEN
	LINEDEVSTATE_CLOSE LINEDEVSTATE_NUMCALLS
	LINEDEVSTATE_REINIT LINEDEVSTATE_TRANSLATECHANGE
dwUUIAcceptSize dwUUIAnswerSize dwUUIMakeCallSize dwUUIDropSize dwUUISendUserUserInfoSiz e dwUUICallInfoSize	Not supported by Toshiba DKT TSPI.
MinDialParams MaxDialParams DefaultDialParams	These will indicate the dial speed, duration, and dial pause duration set by the phone system and are not changeable at the device level.
dwNumTerminals	Not supported by Toshiba DKT TSPI.
dwTerminalCapsSize dwTerminalCapsOffset dwTerminalTextEntrySize dwTerminalTextOffset	Not supported by Toshiba DKT TSPI.
dwDevSpecificSize dwDevSpecificOffset	Not supported by Toshiba DKT TSPI.

lineGetAddressCaps

This function queries the specified address on the specific line device to determine its telephony capabilities. The Toshiba DKT TSPI returns two sets of values depending whether

the line type defined in Setup of the driver was set for Prime Line / Intercom or any of the other types listed. This function fills the data structure of type LineAddressCaps:

Field Name	Setting
dwLineDeviceID	The device ID of the line with which the address is associated.
dwAddressSize	A NULL-terminated string reflecting the name of the key
dwAddressOffset	on the station. This is defined during Setup of the driver.
dwDevSpecificSize	Not supported by Toshiba DKT TSPI.
dwDevSpecificOffset	
dwAddressSharing	LINEADDRESSSHARING_PRIVATE
dwAddressStates	LINEADDRESSSTATE_OTHER
	LINEADDRESSSTATE_INUSEZERO LINEADDRESSSTATE_INUSEONE
	LINEADDRESSSTATE_INUSEONE LINEADDRESSSTATE_NUMCALLS
	LINEADDRESSSTATE_FORWARD (PDN or INT only)
dwCallInfoStates	LINECALLINFOSTATE_OTHER
	LINECALLINFOSTATE_APPSPECIFIC
	LINECALLINFOSTATE_NUMOWNERINCR
	LINECALLINFOSTATE_NUMOWNERDECR
	LINECALLINFOSTATE_NUMMONITORS LINECALLINFOSTATE DIALPARAMS
durCallerIDElaga	
dwCallerIDFlags	LINECALLPARTYID_UNAVAIL
dwCalledIDFlags	LINECALLPARTYID_UNAVAIL
dwConnectedIDFlags	LINECALLPARTYID_UNAVAIL
dwRedirectionIDFlags	LINECALLPARTYID_UNAVAIL
dwRedirectingIDFlags	LINECALLPARTYID_UNAVAIL
dwCallStates	LINECALLSTATE_IDLE
	LINECALLSTATE_OFFERING LINECALLSTATE_DIALTONE
	LINECALLSTATE_DIALIONE
	LINECALLSTATE_BUSY
	LINECALLSTATE_CONNECTED
	LINECALLSTATE_PROCEEDING
	LINECALLSTATE_ONHOLD
	LINECALLSTATE_CONFERENCED
	LINECALLSTATE_ONHOLDPENDCONF LINECALLSTATE ONHOLDPENDTRANSFER
	LINECALLSTATE_ONHOLDFENDTRANSFER
dwDialToneModes	LINEDIALTONEMODE_UNAVAIL
dwBusyModes	 LINEBUSYMODES_UNAVAIL
dwSpecialInfo	LINESPECIALINFO_UNAVAIL
dwDisconnectModes	

Field Name	Setting
dwMaxNumActiveCalls	1
dwMaxNumOnHoldCalls	1
dwMaxNumOnHoldPending Calls	1
dwMaxNumConference	4
dwMaxNumTransConf	1
dwAddrCapFlags	LINEADDRCAPFLAGS_BLOCKIDDEFAULT LINEADDRCAPFLAGS_DIALED LINEADDRCAPFLAGS_ORIGOFFHOOK LINEADDRCAPFLAGS_AUTORECONNECT LINEADDRCAPFLAGS_PARTIALDIAL LINEADDRCAPFLAGS_PICKUPCALLWAIT
dwCallFeatures	LINECALLFEATURE_ADDTOCONF LINECALLFEATURE_ANSWER LINECALLFEATURE_BLINDTRANSFER (R3 only) LINECALLFEATURE_COMPLETETRANSF LINECALLFEATURE_DIAL LINECALLFEATURE_DROP LINECALLFEATURE_HOLD LINECALLFEATURE_PARK LINECALLFEATURE_PREPARETOADDCONF LINECALLFEATURE_SETUPCONF LINECALLFEATURE_SETUPTRANSFER LINECALLFEATURE_UNHOLD
dwRemoveFromConfCaps	LINEREMOVEFROMCONF_NONE
dwRemoveFromConfState	Not supported by Toshiba DKT TSPI.
dwTransferModes	LINETRANSFERMODE_TRANSFER LINETRANSFERMODE_CONFERENCE
dwParkModes	LINEPARKMODE_NONDIRECTED

Field Name	Setting
dwForwardModes	LINEFORWARDMODE_UNCOND LINEFORWARDMODE_BUSY LINEFORWARDMODE_NOANSW LINEFORWARDMODE_BUSYNA
dwMaxForwardEntries dwMaxSpecificEntries	1 1
dwMinFwdNumRings dwMaxFwdNumRings	3 3
dwMaxCallCompletions dwCallCompletionConds dwCallCompletionModes	Not supported by Toshiba DKT TSPI.

Field Name	Setting
dwNumCompletionMessages dwCompletionMsgTextEntry Size dwCompletionMsgTextSize dwCompletionMsgTextOffset	Not supported by Toshiba DKT TSPI.

lineGetAddressStatus

This function queries the specified address for its current status. The current status is returned using the data structure lineAddressStatus:

Field Name	Setting
dwNumInUse	1 if there is a call associated with the address, 0 otherwise.
dwNumActiveCalls	1 if there is a call in any state other than ONHOLD at the address, 0 otherwise.
dwNumOnHoldCalls	1 if there is a call holding at the address, 0 otherwise.
dwNumOnHoldPendingCalls	1 if there is a call in either the ONHOLDPENDINGCONF state or the ONHOLDTENDTRANSFER state, 0 otherwise.
dwAddressFeatures	If there is no call associated with the given address, this field will contain the value LINEADDRFEATURE_MAKECALL. Otherwise, it will be 0.

lineGetCallInfo

This function returns detailed information about the specified call. The information is returned in a data structure of the type LineCallInfo:

Field Name	Setting
dwLineDeviceID	The number of the line device being addressed.
dwAddressID	The address ID for the call associated.
dwBearerMode	LINEBEARERMODE_VOICE
dwRate	0
dwMediaMode	LINEMEDIAMODE_INTERACTIVEVOICE
dwAppSpecific	Retains the value passed in lineSetAppSpecific.
dwCallID	Not supported by Toshiba DKT TSPI.
dwRelatedCallID	Not supported by Toshiba DKT TSPI.
dwCallParamFlags	If this call was initiated with lineMakeCall, this field will be the same as the dwCallParamFlags field passed into that function via the LINECALLPARAMS structure. Otherwise, it will be 0.

Field Name	Setting
dwCallStates	
dwMonitorDigitModes dwMonitorMediaModes	Not supported by Toshiba DKT TSPI.
DialParams	
dwOrigin	
dwReason	
dwCompletionID	Not supported by Toshiba DKT TSPI.
dwNumOwners	1
dwNumMonitors	0
dwCountryCode	
dwTrunk	Always xffffffff (Unknown)
dwCallerIDFlags	
dwCallerIDSize dwCallerIDOffset	Provides Caller ID name and number when provided by the public network. Internal calls give caller ID number if LCD Name is off and Caller ID name if the LCD name feature is on.
dwCalledIDFlags	
dwCalledIDSize dwCalledIDOffset	The DNIS/DID number received and Strata DK alphanumeric tag are provided.
dwConnectedIDFlags	Not supported by Toshiba DKT TSPI
dwConnectedIDSize dwConnectedIDOffset	Not supported by Toshiba DKT TSPI
dwRedirectionIDFlags	Not supported by Toshiba DKT TSPI.
dwRedirectionIDSize dwRedirectionIDOffset	Not supported by Toshiba DKT TSPI.
dwRedirectingIDFlags	Not supported by Toshiba DKT TSPI.
dwRedirectingIDSize dwRedirectingIDOffset	Not supported by Toshiba DKT TSPI.
dwAppNameSize dwAppNameOffset	
dwDisplayableAddressSize dwDisplayableAddressOffset	Not supported by Toshiba DKT TSPI.
dwCalledPartySize dwCalledPartyOffset	Not supported by Toshiba DKT TSPI.
dwCommentSize dwCommentOffset	
dwDisplaySize dwDisplayOffset	If the call being referenced is the active call on the line, these fields will contain the contents of the two line LCD display currently being shown.

Field Name	Setting
dwUserUserInfoSize dwUserUserInfoOffset	Not supported by Toshiba DKT TSPI.
dwHighLevelCompSize dwHighLevelCompOffset	Not supported by Toshiba DKT TSPI.
dwLowLevelCompSize dwLowLevelCompOffset	Not supported by Toshiba DKT TSPI.
dwChargingInfoSize dwChargingInfoOffset	Not supported by Toshiba DKT TSPI.

lineGetCallStatus

This function returns the current status of the specified call as a data structure of type lineCallStatus:

Field Name	Setting
dwCallState	This field will reflect the actual state of the call.
dwCallStateMode	This field will reflect the actual mode of the state listed above.
dwCallPrivilege	This reflects the privilege granted to the call.
dwCallFeatures	This field will indicate all of the features allowable, given the current state of the call.
dwDevSpecificSize dwDevSpecificOffset	Not supported by Toshiba DKT TSPI.

lineGetID

This function returns a device ID for the specified device class associated with the selected line, address, or call. Toshiba DKT TSPI uses this function to identify the real device ID when the line device was opened using LINE_MAPPER as a device ID. This function call also be used to obtain the device ID of the phone or media (e.g., mci, waveform, mci midi, wave, fax, etc.) associated with a call, address or line. The result in returned in a data structure VARSTRING pointed to by lpDeviceID:

Field Name	Setting
dwStringFormat	STRINGFORMAT_BINARY
dwStringSize dwStringOffs et	4 A DWORD containing the ID for the line device specified.

lineGetLineDevStatus

This operation queries the specified open line device for its current status. If successful it returns the current status of the specified open line device using a data structure LineDevStatus:

Field Name	Setting
dwNumOpens	The number of instances this application opened, normally
	1.
dwOpenMediaModes	LINEMEDIAMODE_INTERACTIVEVOICE
dwNumActiveCalls	The number of calls ringing and/or connected.
dwNumOnHoldCalls	The number of calls that are on hold.
dwNumOnHoldPendCalls	The number of calls pending in the ONHOLDPENDCONF or the ONHOLDPENDTRANSFER states.
dwLineFeatures	LINEFEATURE_MAKECALL if no active calls exist, otherwise 0.
dwNumCallCompletions	
dwRingMode	Always 0.
dwSignalLevel	Not supported by Toshiba DKT TSPI.
dwBatteryLevel	Not supported by Toshiba DKT TSPI.
dwRoamMode	LINEROAMMODE_UNAVAIL
dwDevStatusFlags	The current status of the device.
dwTerminalModesSize dwTerminalModesOffset	Not supported by Toshiba DKT TSPI.
dwDevSpecificSize dwDevSpecificOffset	Not supported by Toshiba DKT TSPI.

lineGetAddressID

This function is used to map a phone number assigned to a line device back to is dwAddressID in the range of 0 to the number of addresses minus 1 returned in the line's device capabilities. LineMakeCall allows the application to make a call by specifying a line handle an address on the line. The address can be specified either as dwAddressID, as a phone number, or as a device specific name or identifier.

Basic Call Control

lineMakeCall

This function places a call on the specified line to the specified address. The application has the option to specify an originating address on the specified line. The TSPI models the addresses based upon the line type when Setup was used to define the driver.

If the line is busy when a call attempt is made, the currently active call will be disconnected.

If no destination address is provided, a new call will be created and the line will transition to the LINECALLSTATE_DIALTONE state. The lineDial function can be used at this point to dial the destination address.

LINECALLPARAMS (default)

Field Name	Setting
dwBearerMode	LINEBEARERMODE_VOICE
dwMinRate dwMaxRate	0 (3.1kHz) 0
dwMediaMode	LINEMEDIAMODE_INTERACTIVEVOICE
dwCallParamFlags	0
dwAddressMode	LINEADDRESSMODE_ADDRESSID
dwAddressID	any available
DialParams	0, 0, 0, 0
dwOrigAddressSize dwOrigAddressOffset	0
dwDisplayableAddressSize dwDisplayableAddressOffset	0
dwCalledPartySize dwCalledPartyOffset	0
dwCommentSize dwCommentOffset	0
dwUserUserInfoSize	
dwUserUserInfoOffset	0
dwHighLevelCompSize dwHighLevelCompOffset	0
dwLowLevelCompSize dwLowLevelCompOffset	0
dwDevSpecificSize dwDevSpecificOffset	0

lineDial

This function dials the specified dialable number. Use this operation in all situations where you need to send address information to the switch on an existing call; such as dialing the address of the party to transfer a call, etc.

lineAnswer

This function accepts the specified OFFERED call. The optional user-to-user information is ignored.

lineDrop

This function drops or disconnects the specified call, or abandons a call attempt in progress. When this function returns, the call will be in the IDLE state. The optional user-to-user information is ignored.

Because the DKT TSPI can drop calls only to which it is connected, this feature is allowed for calls in the CONNECTED state only. In addition, the service provider keeps track of whether a given call is owned by a TAPI application, in order to avoid dropping calls initiated or answered by other applications. The call is considered owned by a TAPI application, it must be either initiated, answered, or placed on hold by a TAPI application.

lineDeallocateCall

This function releases resources used to keep track of a given call. This function can only be called while the state is idle.

Holding Calls

lineHold

This function places the specified call on hard hold. This can used when in either LINECALLSTATE_CONNECTED or LINECALLSTATE_PROCEEDING states. The application can place a call on hold even if it did not originate or answer that call.

lineUnhold

This function retrieves the specified held call. This feature is only valid when the call is in the LINECALLSTATE_ONHOLD state.

Transferring Calls

TAPI provides two mechanisms for call transfer: blind transfer or consultation transfer.

- In blind transfer, an existing call is transferred to a specified destination address in one phase using lineBlindTransfer (Supported on DK280 R3 or DK16e and later systems).
- In a consultation transfer, the existing call is first prepared for transfer to another address using lineSetupTransfer. This places the existing call on consultation hold, and identifies the call as the target for the next transfer-completion request. This command also allocates a consultation call that can be used to establish the consultation call with the party to which the call will be transferred.

The application can dial the extension of the destination party on the consultation call using lineDial, or is can drop and deallocate the consultation call and instead activate an existing held call (lineUnhold). Finally, the application completes the transfer of the call on transfer hold to the destination party by using lineCompleteTransfer. At this point, both call appearances revert to the IDLE state.

lineBlindTransfer

This function performs a single-step transfer of the specified call to the specified destination address. The lpszDestAddress is interpreted in the same manner as lineMakeCall function.

lineSetupTransfer

This function initiates the transfer of the specified call. It establishes a consultation call, lphdConsultCall, on which the party can be dialed that can become the destination of the transfer. The original call transitions to the ONHOLDPENDTRANSFER state.

lineCompleteTransfer

This function completes the transfer of the specified call to the party, or enter a three-way conference, connected in the consultation call.

Conferencing

A conference call must begin as regular two-party call. Additional parties can be added, one at a time. Calling lineSetupConference prepares a given call for the addition of another party, and this action establishes the conference call. This operation takes the original two-party call as input, allocates a conference call, connects the original call to the conference, and allocates a consultation call whose handle is returned to the application.

The application can then use lineDial on the consultation call to establish a connection to the next party to be added. lineDrop can be used to abandon this call attempt. The third party is added with the function lineAddToConference, which specifies both the conference call and the consultation call.

To add additional parties to an existing conference call, the application uses linePrepareAddToConference. When calling this function, the application supplies the handle of an existing conference call. The function allocates a consultation call that can later be added to the conference call and returns a consultation call handle to the application. This conference call is then placed on conference hold. Once the consultation call exists, it can be added to the existing conference call with lineAddToConference.

Once a call becomes a member of the conference call, the member's call state reverts to CONFERENCED while the conference call's state becomes CONNECTED. The call handle to the conference call and all the added parties remain valid as individual calls.

lineSetupConference

This function sets up a conference call for the addition of the third party. The function allocates a consultation call for connecting to the party that is to be added to the call and returns a newly created conference call with call state of ONHOLDPENDCONF.

lineAddToConference

This function adds a consultation call, specified by hdConsultCall, to an existing conference call, specified by hdConfCall.

linePrepareAddToConference

This function prepares an existing conference call for the addition of another party. It creates a new, temporary consultation call which can subsequently be added to the conference with the lineAddToConference function.

Call Parking

linePark

Parks a given call at another address.

lineUnpark

Retrieves a parked call.

Call Forwarding

lineForward

Set or cancel call forwarding requests.

Call Pickup

linePickup

Pick up a call that is alerting at another station

Miscellaneous Functions

lineConfigDialog

This function displays a configuration dialog for the DKT TSPI device. The configurable options are the minimum number of digits necessary for an outside number and the access code that should be used to obtain an outside line. These two parameters are used when a complete destination address is supplied with lineMakeCall to determine whether the destination is internal or external. Any changes made will take place immediately; the service provider allows changes to be made while the line is open.

lineSetAppSpecific

This operation sets the application-specific field of the specified call's LINECALLINFO structure. Its usage is entirely defined by the application and is uninterrupted by the Telephony API or the service provider.

When this field is changed, the service provider sends a LINE_CALLINFO message with an indication that the dwAppSpecific field has changed.

Commands and Messages Not Supported

lineSecureCall	lineSetTerminal
lineSwapHold	lineRemoveFromConference
lineSetCallParams	lineSetMediaControl
lineMonitorMedia	lineMonitorDigits
lineMonitorTone	lineGatherDigits
lineGenerateDigits	lineGenerateTone
lineAccept	lineRedirect
lineCompleteCall	lineUncompleteCall
lineNegotiateExtVersion	lineDevSpecific
lineDevSpecificFeature	LINE_MONITORMEDIA
LINE_MONITORDIGITS	LINE_MONITORTONE
LINE_CALLDEVSPECIFIC	LINE_DEVSPECIFIC
LINE_CALLDEVSPECIFICFEATU RE	LINE_DEVSPECIFICFEATURE