

Appendix A. Samsung Call Manager TAPI Interface

This appendix contains a listing of APIs that are supported and not supported by OpenTSP Driver.

Samsung TAPI 2.1 Interfaces

Table A Compliance to TAPI 2.1

<i>API/Message/Structure</i>	<i>Samsung</i>	
	<i>TAPI</i>	
	<i>Support</i>	<i>Comment</i>
TAPI Line Functions		
lineAccept	No	
lineAddProvider	Yes	Supported by TAPI Itself
lineAddToConference	No	
lineAnswer	Yes	
lineBlindTransfer	Yes	
lineCallbackFunc	Yes	Supported by TAPI Itself
lineClose	Yes	
lineCompleteCall	Yes	Callback + Intrude
lineCompleteTransfer	Yes	
lineConfigDialog	No	
lineConfigDialogEdit	No	
lineConfigProvider	Yes	Supported by TAPI Itself
lineDeallocateCall	Yes	Supported by TAPI Itself
lineDevSpecific	Yes	Refer to Appendix B
lineDevSpecificFeature	No	
lineDial	Yes	
lineDrop	Yes	
lineForward	Yes	
lineGatherDigits	No	
lineGenerateDigits	No	
lineGenerateTone	No	

lineGetAddressCaps	Yes
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Table A Compliance to TAPI 2.1(continued)

API/Message/Structure	Samsung	
	TAPI	
	Support	Comment
lineGetAddressID	Yes	
lineGetAddressStatus	Yes	Can remove garbage calls with this function
lineGetAppPriority	Yes	Supported by TAPI Itself
lineGetCallInfo	Yes	An extension name of SCM system may contain '%' character, be cautious when dealing with IDName's
lineGetCallStatus	Yes	
lineGetConfRelatedCalls	Yes	Supported by TAPI Itself
lineGetCountry	Yes	Supported by TAPI Itself
lineGetDevCaps	Yes	dwProviderInfo: Samsung Call Manager Telephony Service Provider 32 dwSwitchInfo: Samsung Call Manager Version
lineGetDevConfig	No	
lineGetIcon	No	
lineGetID	Yes	
lineGetLineDevStatus	Yes	
lineGetMessage	No	
lineGetNewCalls	Yes	Supported by TAPI Itself
lineGetNumRings	No	
lineGetProviderList	Yes	Supported by TAPI Itself
lineGetRequest	No	
lineGetStatusMessage	Yes	Supported by TAPI Itself
lineGetTranslateCaps	Yes	Supported by TAPI Itself
lineHandoff	No	
lineHold	Yes	
lineInitialize	Yes	
lineInitializeEx	Yes	EXT Param : USEHIDDENWINDOW
lineMakeCall	Yes	
lineMonitorDigits	No	
lineMonitorMedia	No	

lineMonitorTones	No	
lineNegotiateAPIVersion	Yes	Supported by TAPI Itself
lineNegotiateExtVersion	Yes	EXT Version : 0x00010001
lineOpen	Yes	INTERACTIVEVOICE
linePark	No	
linePickUp	Yes	

Table A Compliance to TAPI 2.1(continued)

API/Message/Structure	Samsung	
	TAPI	
	Support	Comment
linePrepareAddToConference	No	
lineRedirect	Yes	
lineRegisterRequestRecipient	No	
lineReleaseUserUserInfo	No	
lineRemoveFromConference	No	
lineRemoveProvider	Yes	Supported by TAPI Itself
lineSecureCall	No	
lineSendUserUserInfo	No	
lineSetAppPriority	No	
lineSetAppSpecific	Yes	
lineSetCallData	Yes	dwData should be less than or equal to 256
lineSetCallParams	No	
lineSetCallPrivilege	Yes	Supported by TAPI Itself
lineSetCallQualityOfService	No	
lineSetCallTreatment	No	
lineSetCurrentLocation	No	
lineSetDevConfig	No	
lineSetLineDevStatus	No	
lineSetMediaControl	No	
lineSetMediaMode	Yes	
lineSetNumRings	No	
lineSetStatusMessage	Yes	
lineSetTerminal	No	
lineSetTollList	No	
lineSetupConference	No	
lineSetupTransfer	Yes	

lineShutdown	Yes	
lineSwapHold	Yes	
lineTranslateAddress	Yes	Supported by TAPI Itself
lineTranslateDialog	Yes	Supported by TAPI Itself
lineUncompleteCall	No	

Table A Compliance to TAPI 2.1(continued)

API/Message/Structure	Samsung	
	TAPI	
	Support	Comment
lineUnhold	Yes	
lineUnpark	No	
TAPI Line Message		
LINE_ADDRESSSTATE	Yes	
LINE_APPNEWCALL	Yes	
LINE_CALLINFO	Yes	
LINE_CALLSTATE	Yes	
LINE_CLOSE	Yes	
LINE_CREATE	Yes	
LINE_DEVSPECIFIC	No	
LINE_DEVSPECIFICFEATURE	No	
LINE_GATHERDIGITS	No	
LINE_GENERATE	No	
LINE_LINEDEVSTATE	Yes	
LINE_MONITORDIGITS	No	
LINE_MONITORMEDIA	No	
LINE_MONITORTONE	No	
LINE_REMOVE	Yes	
LINE_REPLY	Yes	
LINE_REQUEST	No	
TAPI Line Structure		
LINEADDRESSCAPS	Yes	
LINEADDRESSSTATUS	Yes	
LINEAPPINFO	No	
LINECALLLIST	Yes	
LINECALLPARAMS	Yes	

LINECALLSTATUS	Yes
LINECALLTREATMENTENTRY	No
LINECARDENTRY	No
LINECOUNTRYENTRY	Yes
LINECOUNTRYLIST	Yes
LINEDEVCAPS	Yes

Table A Compliance to TAPI 2.1(continued)

API/Message/Structure	Samsung	
	TAPI	
	Support	Comment
LINEDEVSTATUS	Yes	
LINEDIALPARAMS	No	
LINEEXTENTIONID	Yes	
LINEFORWARD	Yes	
LINEFORWARDLIST	Yes	
LINEGENERATETONE	No	
LINEINITIALIZEEXPARAMS	Yes	
LINELOCATIONENTRY	Yes	
LINEMEDIACONTROLCALLSTATE	No	
LINEMEDIACONTROLDIGIT	No	
LINEMEDIACONTROLMEDIA	No	
LINEMEDIACONTROLTONE	No	
LINEMESSAGE	No	
LINEMONITORTONE	No	
LINEPROVIDERENTRY	Yes	
LINEPROVIDERLIST	Yes	
LINEREQMEDIACALL	No	
LINEREQMAKECALL	No	
LINETERMCAPS	No	
LINETRANSLATECAPS	Yes	
LINETRANSLATEOUTPUT	Yes	
TAPI Assisted Telephony Functions		
tapiGetLocationInfo	Yes	
tapiRequestDrop	Yes	
tapiRequestMakeCall	Yes	
tapiRequestMediaCall	No	

TAPI Call Center Functions : Not supported

lineAgentSpecific	No
lineGetAgentActivityList	No
lineGetAgentCaps	No
lineGetAgentGroupList	No

lineGetAgentStatus	No
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Table A Compliance to TAPI 2.1(continued)

<i>API/Message/Structure</i>	<i>Samsung</i>	
	<i>TAPI</i>	
	<i>Support</i>	<i>Comment</i>
lineProxyMessage	No	
lineProxyResponse	No	
lineSetAgentActivity	No	
lineSetAgentGroup	No	
lineSetAgentState	No	
TAPI Call Center Messages : Not supported		
LINE_AGENTSPECIFIC	No	
LINE_AGENTSTATUS	No	
LINE_PROXYREQUEST	No	
TAPI Call Center Structures : Not supported		
LINEAGENTACTIVITYENTRY	No	
LINEAGENTACTIVITYLIST	No	
LINEAGENTCAPS	No	
LINEAGENTGROUPENTRY	No	
LINEAGENTGROUPLIST	No	
LINEAGENTSTATUS	No	
LINEPROXYREQUEST	No	
Wave Functions : Not supported		

Appendix B. Device Specific Function

This appendix contains a listing of parameters for using Device Specific Function.

```
LONG lineDevSpecific(HLINE hLine, DWORD dwAddressID, HCALL hCall, LPVOID lpParams,
DWORD dwSize);
```

The features available by the lineDevSpecific function in the Samsung key telephone system are as follows :

- Get Station Information
- Dispatch Conference - Setup
- Dispatch Conference - Add Member(s)
- Dispatch Conference – Delete Member(s)

B.1 Get Station Information

You can get the Samsung Call Manager System Version.

Enter the syntax below to call the lineDevSpecific function when the SCM Version is used in the TAPI application:

```
LONG lineDevSpecific(HLINE hLine, DWORD dwAddressID, HCALL hCall, LPVOID lpParams,
DWORD dwSize);
```

Input Parameter Values

- hLine : Processes the lines to be used.
- dwAddressID : 0
- hCall : Not used
- lpParams : Enters the command strings as shown below :

Value	Byte
'S' 'C' 'M'	3 Bytes
'F'	1 Byte

- dwSize : Buffer length

B.2 Dispatch Conference - Setup

The Dispatch Conference Setup enables the phone to setup a conference call.

Enter the syntax below to call the lineDevSpecific function when the Vacant Station Message is used in the TAPI application:

```
LONG lineDevSpecific(HLINE hLine, DWORD dwAddressID, HCALL hCall, LPVOID lpParams,
DWORD dwSize);
```

Input Parameter Values

- hLine : Processes the lines to be used.
- dwAddressID : 0
- hCall : Not used
- lpParams : Enters the command strings as shown below :

Value	Byte
'S' 'C' 'M'	3 Bytes
'5'	1 Byte
Member List to be added(',' is used for the separator)	N Bytes

- dwSize : Buffer length

B.3 Dispatch Conference – Add Member(s)

The Dispatch Conference – Add Member(s) enables the phone to add the member(s) into the existing conference call.

Enter the syntax below to call the lineDevSpecific function when the Follow Me is used in the TAPI application :

```
LONG lineDevSpecific(HLINE hLine, DWORD dwAddressID, HCALL hCall, LPVOID lpParams,
DWORD dwSize);
```

Input Parameter Values

- hLine : Processes the lines to be used.
- dwAddressID : 0
- hCall : Not used
- lpParams : Enters the command strings as shown below :

Value	Byte
'S' 'C' 'M'	3 Bytes

'6'	1 Byte
Member List to be added(',' is used for the separator)	N Bytes

- dwSize : Buffer length

B.4 Dispatch Conference – Delete Member(s)

The Dispatch Conference – Delete Member(s) enables the phone to delete the member(s) from the existing conference call.

Enter the syntax below to call the lineDevSpecific function when the Make New Trunk Call is used in the TAPI application :

```
LONG lineDevSpecific(HLINE hLine, DWORD dwAddressID, HCALL hCall, LPVOID lpParams,
DWORD dwSize);
```

Input Parameter Values

- HLine : Processes the lines to be used.
- dwAddressID : 0
- hCall : Not used
- lpParams : Enters the command strings as shown below :

Value	Byte
'S' 'C' 'M'	3 Bytes
'7'	1 Byte
Member List to be added(',' is used for the separator)	N Bytes

- dwSize : Buffer length

Appendix C. TAPI 2.1 Sample Code

This appendix contains sample codes of TAPI 2.1 for utilizing Samsung Call Manager line devices.

Initialize TAPI

```
// Initialize parameter
HLINEAPP hLineApp
DWORD dwNumLines;
DWORD dwAPIVersion;
LINEINITIALIZEEXPARAMS lParam;
ZeroMemory (&lParam, sizeof(LINEINITIALIZEEXPARAMS));
lParam.dwTotalSize = sizeof(LINEINITIALIZEEXPARAMS);
lParam.dwOptions = LINEINITIALIZEEXOPTION_USEEVENT;

// Initialize TAPI
LONG lResult = lineInitializeEx (&hLineApp, AfxGetInstanceHandle(), NULL, "MyApp", &dwNumLines,
&dwAPIVersion, &lParam);
```

Finding SCM Line

```
// lineGetDevCaps for DeviceN
LONG lResult = lineGetDevCaps(hLineApp, DeviceN, NegotiatedAPIVersion, ExtVersion, pLineDevCaps);
// In case lResult is ERROR_SUCCESS
// Get Provider Name
char szProvider[1024] = {0};
char szLineName[1024] = {0};
memcpy(szProvider, &((BYTE *) pLineDevCaps[pDevCaps->dwProviderInfoOffset], pDevCaps->dwProviderInfoSize);
// If it is a SCM Line, szProvider is "Samsung Call Manager Telephony Service Provider 32"
// OR
memcpy(szLineName, &((BYTE *) pLineDevCaps[pDevCaps->dwLineNameOffset], pDevCaps->dwLineNameSize);
// If it is a SCM Line, szLineName is "SCM Line N"
```