

Release 2 Telephony Services API

General Information

TSAPI is being reformatted to appear more consistent with the rest of the NetWare Telephony Services documentation. In addition, a draft index (the index is still being completed) has been added. A “List of Figures” and “List of Tables” have also been added.

The 2.0 DRAFT copy contains new information about the new Release 2 client TSAPI libraries. This information is diff-marked for your convenience.

The 2.0 DRAFT copy contains proposed corrections to better align TSAPI with CSTA. These are also diff-marked for your convenience.

A new chapter describes programming specifics for the various client platforms. Similar information was provided as “README” files in some of the R1 SDKs.

Release 2, like Release 1, is based on the current June 1992 CSTA specification. ECMA has a revision in progress. New CSTA features will be incorporated in TSAPI when they are published in a final form.

TSAPI edition 2.0 is a preliminary draft and is subject to change.

New Clients

OS-2 TSAPI Client

Release 2 will support the client TSAPI programming and applications environment on OS/2 Clients on INTEL PCs.

The LAN communications protocol for the OS/2 Client environment is IPX/SPX.

The new OS/2 client platform is supported on both ISA and MicroChannel bus clients.

The OS/2 TSAPI client is supported on OS/2 versions 2.1 and 2.11. TSAPI has been amended to include the following OS/2 manual pages:

- ◆ acsSetESR()
- ◆ acsEventNotify()

Macintosh TSAPI Client

Release 2 will support the client TSAPI programming and applications environment on Macintosh clients.

The LAN communications protocol for the Macintosh Client environment is IPX/SPX.

The Macintosh TSAPI platform will be supported on the following 68000-based Macintosh, and PowerMac platforms:

- System 7 with Quick Time
- System 7.1 or later (including 7.5)

The Macintosh TSAPI software will not be supported on Macintosh operating system System 6 or any emulated Macintosh operating system environments.

TSAPI has been amended to include the following Macintosh manual pages:

- ◆ acsSetESR()
- ◆ acsEventNotify()

UNIXWARE TSAPI Client

Release 2 will support the client TSAPI programming and applications environment on UnixWare clients.

The LAN communications protocol for the UnixWare Client environment is IPX/SPX

The UnixWare TSAPI Client is supported on both ISA and MicroChannel bus clients.

The UnixWare TSAPI client software will be supported on the UnixWare version 1.1 and 2.0 operating systems (when available).

TSAPI has been amended to include the following Macintosh manual pages for:

- ◆ acsGetFile()

CSTA Alignment

cstaDeflectCall

The definition (first paragraph on the manual page) is modified to clarify that cstaDeflectCall may deflect the call to any dialed number. CSTA does not limit deflection to an extension on the switch (as TSAPI presently states).

`cstaGroupPickupCall` (Need ISV, Driver Input !!)

The CSTA specification defines the “Divert Call” Service as having three variants: “Deflection”, “Directed Pickup”, and “Group Pickup”. These variants have three separate manual pages in TSAPI. ECMA 179 describes the parameters for all three variants in one place. The ECMA 179 description for the Group Pickup variation states that “the CSTA Connection Identifier [parameter] need not be included”.

Group Pickup is that PBX feature where a “Pickup Group” is defined on the PBX (independent of NetWare Telephony Service Device Groups). When a call rings at a station in the pickup group, a pickup group member may invoke the PBX’s “Group Pickup” feature and thereby redirect the ringing call to their phone.

To our knowledge, no PBX Group Pickup feature allows the invoking user to specify *which call* to divert to their phone. Conversations with ECMA representatives indicate that the ECMA 179 wording stating that the Group Pickup Connection Identifier “not be included” derives from the fact that the parameter is required for the other types of the Divert Service, but not for Group Pickup.

Should the TSAPI *deflectCall* parameter remain for the `cstaGroupPickupCall()` function? Deleting it would also remove it from the Group Pickup Confirmation Event.

`CSTARouteRequestEvent`

Both TSAPI documentation and the `cstadevs.h` header file are inconsistent with ECMA-180. ECMA-180 specifies the *callingDevice* parameter to be a `CallingDeviceID` (not a `DeviceID`, as both the header file and the document presently state). Similarly the *currentRoute* parameter is a `CalledDeviceID`.

CSTA Driver Interface

Error codes will be added to `CSTAUniversalFailure_t` to provide the full set of CSTA 179, 180 and CCITT X.219 errors.

Bulk Add API

An API will be added to TSAPI that will allow an application to direct the Telephony Server NLM to read a flat file into the Telephony Server Security Database. This will facilitate application modifications and updates.

This API is not present in the TSAPI 2.0 DRAFT

Routing

The *routingCrossRefID* description on the **cstaRouteSelect()** and **CSTARouteUsedEvent** manual pages is incorrect. The proper description (see the **cstaRouteEnd** manual page) replaces the incorrect one. This is a “copy” error in the manual pages that should be evident after reading the routing service description at the beginning of the chapter.

The syntax for the **CSTARouteRequestEvent** is inconsistent with the header file and has been changed to reflect the header file.

Miscellaneous

acsOpenStream() has been clarified to state that an application “should not” open more than one stream to an advertised service. The system does not prevent this. However, operating with multiple streams open to the same advertised service is not supported. The **ACSERR_DUPSTREAM** error code will be deleted from the manual page.