DAL for AS/400: Technical Support Issues

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TOPIC ---

This article describes some technical support issues in connection with DAL
for AS/400.

DISCUSSION --

DAL client software is not included as part of the Apple system software
effective with System 7.1. The DAL client code, version 1.3.7, is required
to access the DAL Server for the AS/400, and must be purchased separately
from Apple Computer. This version of DAL client code is NOT available with
any version of system software.

The DAL client is installed in the Macintosh using the standard Networking
& Communication Products Installer. The installation process for System
7.X writes the DAL client and any DAL Network Adapters into the Extensions
folder. The DAL Preferences file is stored in the Preferences folder
within the System folder. There are no changes to the actual System file.

Additionally, you may wish to drag some of the installation verification
tools to the hard disk of the client Macintosh. The DAL Installation
Checker shows which versions of DAL client and DAL Network adapters
are available. Be sure that DAL client 1.3.7 and DALnet adapter named
SNApsAPPC are both available and version 1.3.7.

The DAL Tester can be used to verify the installation of DAL and
interactively execute DAL commands. You can enter DAL data manipulation,
program control and output statements to the Tester application and view
results of these statements. The DAL Tester can be used for all DAL
connections and uses the DAL client and DALnet drivers installed in the
Tester Macintosh.   If the DAL Tester works with the DAL Preferences and
the DAL server installed on the Host system, the overall installation can
be assumed to be sound.

The DAL debuggers resemble and operate like the DAL Tester, because they run
practically the same interactive application. The major difference is that
the debuggers do not use the DAL driver installed on the Macintosh.
Instead, the driver code is built into each debugger. There are many

debuggers available, each oriented to a specific connectivity, such as
SNA•ps 3270, SNA•ps APPC, ADSP, and Async to list a few. If the debugger
works with the DAL Preferences file, then the Host installation and
database access can be tested. The installation of Macintosh DAL drivers
has not been verified.

The only way to verify the installation of the DAL Server on the AS/400
with a midrange terminal is to use the Interactive DAL or IDAL400
diagnostic utility. The midrange terminal user logs on the AS/400 and
adds to the Library list, the DAL library (DALLIB is the default). The
User them runs the IDAL utility by issuing a DAL specific command, IDAL400.
Details on how to proceed with the DALDEMO database is outlined in Chapter
3 of the DAL Server for AS/400 Installation Guide.

SNA•ps Error Codes

The DAL Client driver attempts to access a SNA•ps APPC gateway using the
directions found in the DAL Preferences file. If all entries are correct
and the gateway is operational, the connection to the SQL/400 database is
successful. If the connection fails, the DAL Tester and DAL debugger
return to the user SNA•ps APPC Result codes. These codes are reported in a
format of Major Code -X, Minor Code -Y, or just -X, -Y. Below is a partial
list of the most common error codes encountered by DAL users. The complete
list is in the SNA•ps APPC Programmers Reference Guide, available from APDA.

Major Code	Minor Codes	Description
1	2	Local LU ID invalid
1	11	Local LU name null
1	12	Bad open gateway type
1	30	Remote LU name null
1	31	Mode name null
1	32	Remote program name null
2	6	Session not available to allocate
2	10	Named Gateway not found on AT Net
2	11	Gateway unavailable (limits reached or PU inactive)
2	12	Specified local LU not on gateway
2	13	Local LU limits reached
5	1	Remote program not available (no retry)
5	2	Remote program not available (retry)
5	3	Conversation not supported by remote LU or program
5	8	Program name not recognized at Remote LU

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