ABS Tech Note: DAL03 VTAM Install Issues (6/92)

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TOPIC --

This document should be used as a preinstallation tool whenever a final or
evaluation copy of the DAL MVS/VTAM Server, Version 1.3.5 (or greater) will
be installed. It will help you to verify release levels of key host
software components, identify "traps" that can delay proper functioning of
the server after initial loading and installation, and assist in
identifying key support personnel.

DISCUSSION --

Required Host Support Personnel

The following host support personnel should be identified and included in the
planning and installation of the server. In some cases, an individual can have
responsibility for more than one of these functions.

• Systems Programmer
  This individual is generally responsible for the installation and
  maintenance of the base operating system (that is, MVS) as well as other
  IBM and third-party applications.

• Security Administrator
  He/she is responsible for all security-based activities on the host.
  This includes RACF or ACF2 administration, USERID maintenance, and so
  forth.

• Network Analyst
  This person is generally responsible for all network definitions
  including VTAM, NCP, LOGMODEs, and so forth.

• Database Administrator
  He/she is responsible for setting up and maintaining the host database
  subsystems (that is, DB2 or Teradata). Sometimes, the Database
  Administrator needs to work with the Security Administrator when access
  to the database is being defined.

• Client Expert
  For the Macintosh, you should have at least one person who is familiar
  with Macintosh concepts, as well as experienced with installation of new

applications. He/she will need to modify the preferences file
("host.cl1" for System 6, "DAL Preferences" under System 7) as well. For
the MS/DOS PCs, someone familiar with the concepts and operation of DOS
should be included in the installation and verification of the
client-based software.

Key Components and Concepts

The DAL MVS/VTAM Server is designed to be used in conjunction with DAL for
the Macintosh client to query, extract, and/or update DB2 or Teradata-based
subsystems. The server does not replace these two subsystems or their
utilities (such as SPUFI). DAL makes use of the existing security
definitions set up in RACF (or ACF2) as well as those within DB2 or
Teradata. Any changes to the security or database environments are made as
before; DAL has no specific or unusual requirements.

The DAL MVS/VTAM Server and Security

Security on an MVS host with DB2 or Teradata is usually provided on two
levels. The Systems Programmer usually manages system-wide resources (such
as TSO, NetView, datasets, and so forth) using a security package such as
RACF or ACF2. In addition, there is controlled access to data within the
database subsystem itself; this is maintained by the Database
Administrator. As user verification is performed during the logon
sequence, the load module for the DAL Server must be installed in an
authorized library on the host. Once installed, the server is then able to
perform the system calls (RACINIT, RACROUTE) necessary to verify a USERID
and password combination. The server only needs to perform these system
calls during the logon sequence; no other supervisor calls are done by the
server. In the event that the host system does not utilize RACF or ACF2, a
sample exit is included with the product should customization be desired.
This exit appears as member 'DALAUTH' with the RUN.JCL supplied on the
product tape. Note that the sample only specifies the entry point and JCL
necessary to relink the server's load module. Coding and logic for the
exit can be designed and implemented by the customer to suit their
individual shop requirements.

Host System Software Release Levels

Following are the recommended minimum release levels for installation of
the DAL MVS/VTAM Server, Version 1.3.5. Although older versions of host
software may be compatible with DAL, Apple has only tested using the
following releases:

- VTAM: 3.2.0
- NCP: any release (with the necessary PTFs) that supports the installed
  level of VTAM
- MVS/XA: 2.2.0
- MVS/ESA: 4.2.0
- DB2: 1.3.0
- RACF, if applicable: 1.8.0
- ACF2, if applicable: 5.2
- CICS, if applicable: 1.7

• Teradata, if applicable: 4.1

Macintosh Software Release Levels

Following are the recommended minimum release levels for installation of
the DAL Client, Version 1.3.5. Although older versions may be compatible,
both Apple and the appropriate third parties have tested with the following
releases:

• SNA•ps, using 3270 or APPC: 1.1. 3270 access requires version 1.1;
  version 1.0.1 may be used for APPC access only
• Avatar's MacMainframe: version 4.0.1
• DCA's MacIrma: DCA requires that MacIrma SNA, version 2.1.0 is used with
  its associated MacIrma DAL Driver, version 1.2.1
• DCA's HLLAPI version of MacIrma: DCA requires that MacIrma SNA, version
  2.1.0 is used with its associated MacIrma API, version 1.4.0
• Tri-Data's Mac Netway 3270: Version 8.2 with Tri-Data API also at
  version 8.2
• Tri-Data's Mac Netway 3270 Advanced: Version 1.0.3 with Tri-Data API also
  at version 1.0.3 Miscellaneous Hint and Tips
• Use of third-party programs to bypass the normal authorization procedure
  (that is, reference to the load module in a SYS1.PARMLIB member) is not
  supported by Apple, and results may be unpredictable.
• If any of the user-supplied exits are utilized, the load module must be
  relinked and properly referenced in the run JCL. This includes support
  for National Languages, SMF processing, custom security, and so forth.
• If secondary AUTHIDs are used on the host system with DB2, verify that
  any user-coded   exits are designed to work in a multiple subtask
  environment.
• Be sure to code and activate the VTAM APPL (ACB) for the server prior to
  attempting any   connection from the client. The SRBEXIT parameter must
  be equal to 'NO' for use with DAL. Verify your system defaults to ensure
  that SRBEXIT=NO, or code it explicitly in the APPL major node.
• ACF2 installations must authorize the DAL MVS/VTAM Server as a multi-use
  task (MUSSAS). The SAF Rule should point to the module 'CL1HEAD'.

Preinstallation Software Version Checklist

The following checklist should be used to accurately verify the host system
software release levels prior to installation, as well as identify key host
support personnel. Questions or concerns should be forwarded to the
appropriate support group within Apple before proceeding. This will ensure
a quick and trouble-free installation.

      Release Level   Release Level

MVS/XA or MVS/ESA   _____   VTAM _____

RACF or ACF2   _____   DB2   _____

NCP   _____   CICS _____

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Teradata  _____
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If there are any custom exits installed in the host system, they may affect the operation of DAL. Verify this information before proceeding with the installation of the MVS/VTAM Server:

Are there any custom exits installed for security?   Y / N

Are there any custom exits installed for the database subsystem?   Y / N

Name of Systems Programmer: _____

Name of Security Administrator: _____

Name of Network Analyst: _____

Name of Database Administrator: _____
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