



Overview

The Data Access Language Server for VM/CMS is a networking software product that provides Data Access Language access to the Structured Query Language/ Data System (SQL/DS) databases on a VM/CMS host system. Running on the VM/CMS host, the Data Access Language Server works cooperatively with personal computer applications that support Data Access Language, such as spreadsheets, databases, and query tools running on Apple® Macintosh® computers.

A total connectivity solution for VM/CMS includes a client personal computer running an application with embedded Data Access Language support, and a VM/CMS host with the Data Access Language Server. The Data Access Language Server receives requests from the personal computer application, carries them out on VM against SQL/DS, and sends the desired data back to the application for desktop processing.

The Data Access Language Server for VM/CMS provides uniform support for Data Access Language-based applications. It works with existing SQL/DS databases, operating under standard CMS and SQL/DS security. As a result, Macintosh computer users receive seamless, transparent access to the SQL/DS data that they have been authorized to access.

Features

Benefits

• Server operates as a CMStask under standard VM username/password security

• Maintains the security and integrity of VM and SQL/DS.
• Eliminates the need for new system administration procedures for VM or SQL/DS.

• Uniform support for Data Access Language clients

• Allows one server to support all personal computers running Data Access Language-compatible Macintosh applications.

• Standard VM installation procedures

• Makes installation quick and easy.

• Asynchronous operation

• Returns program control to the Macintosh so the user can perform other tasks while the DAL server carries out the requested operation on the host.

• Incremental compiler implementation

• Improves performance for repetitive requests.
• Reduces the client system processing load.

• Support for the Apple 3270 API (application program interface)

• Supports Apple's standard connectivity platform for communications between Macintosh computers and IBM mainframes.

• Trace facility

• Facilitates debugging and system tuning.

• Interactive utility for testing Data Access Language program statements

• Facilitates debugging and system tuning.

• Stored procedures

• Minimizes network traffic by storing commonly executed procedures on the host, where they can be shared.

• Sample tables

• Makes developing and testing applications easier.

• Support for Macintosh computers connected via Apple Coax/Twinax Card, TokenTalk[®] NB Card, and Apple Serial NB Card as well as Avatar's Mac Mainframe, DCA's MacIRMA, and TriData's Netway 1000/2000 products

• Applications can be run on Macintosh computers regardless of hardware connection to host.

System Requirements

To use the Data Access Language Server for VM/CMS, you need the following:

- Host environment: VM/SP release 4, 5, 6
- Macintosh computers running Data Access Language compatible applications

- SQL/DS version 1.3 or later
- Appropriate networking hardware and software

Product Details

Database Support

- Provides access to SQL/DS databases, version 1.3 or later
- Provides standard database naming, data types, system catalog structure, error codes, and buffer management

Client Support

- Provides uniform support for any application developed with Data Access Language Developer's Toolkit for the Macintosh

Network Support

- Provides 3270 data stream support; allows SNA or non-SNA connection
- The client must have the supported 3270 hardware and software to emulate a 3278-type device operating in Control Unit Terminal (CUT) mode:
 - MacDFT[®] software and either the Apple Coax/Twinax Card or the Apple Token Talk NB Card for the Macintosh II family of systems
 - Avatar's Mac Mainframe, DCA's MacRMA, and TriData's Netway 1000/2000 connectivity products

Resource Usage

- 1 megabyte of disk storage
- 1 megabyte virtual machine for each active user
- Test program verifies correct installation and usage



Data Access Language Server for VM/CMS

Language Specifications

Data Access Language is a complete language for describing connectivity tasks. The Data Access Language consists of these statement groups:

- Host connection statements, which establish and terminate a connection to a host system in the network, providing concurrent access to multiple hosts running Data Access Language servers
- Data manipulation statements, which offer complete ANSI standard level 1, SQL-based data access to host databases

- Program structure statements, which support testing, looping, and procedure calls within a Data Access Language program
- Output statements, which generate output messages from the Data Access Language program; these messages are reprocessed by the client application

Ordering Information

To order the Data Access Language Server for VM/CMS, contact:

Apple Programmers and
Developers Association
(APDA[®])
Apple Computer, Inc.
20525 Mariani Avenue, MS33G
Cupertino, CA 95014-6299
(800) 282-2732

Data Access Language Server
for VM/CMS
Order No. C0163LL/B

With your order, you receive:

- A 9-track, 1600-bpitape containing the Data Access Language Server software and the installation and configuration programs

- Data Access Language Installation and Operating Guide for VM/CMS (Order No. M0935LL/A)
- 90 days of free software support from Apple's Technical Answer Line. After the initial 90-day period, annual support contracts are available for a fee.

For information about licensing, contact:
Apple Software Licensing
Apple Computer, Inc.
20525 Mariani Avenue, MS28B
Cupertino, CA 95014
(408) 974-4667