



Overview

The CL/1™ Server for VM/CMS is a networking software product that provides CL/1 access to the Structured Query Language/Data System (SQL/DS) on a VM/CMS host system. Running on the VM/CMS host, the CL/1 Server works cooperatively with personal computer applications that support CL/1, such as spreadsheets, databases, and word processors running on Apple® Macintosh® computers and MS-DOS-compatible computers.

A total connectivity solution for VM/CMS includes a client personal computer running an application with embedded CL/1 support, and a VM/CMS host with the CL/1 Server. The CL/1 Server receives requests from the personal computer application, carries them out against SQL/DS, and sends the desired data back to the application for desktop processing.

The CL/1 Server for VM/CMS provides uniform support for CL/1-based applications, regardless of the type of personal computer used. It works with existing SQL/DS databases, operating under standard VM and SQL/DS security. As a result, personal computer users receive seamless, transparent access to the SQL/DS data that they have been authorized to access.

Features

Benefits

▶ Server operates as a CMS task 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 CL/1 clients

▶ Allows one server to support all personal computers running CL/1-compatible applications, including Macintosh and MS-DOS applications.

▶ Standard VM installation procedures

▶ Makes installation quick and easy.

▶ Asynchronous operation

▶ Allows the user to continue other work while the CL/1 Server performs a connectivity request.

▶ 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.

Product Details

Database Support

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

Client Support

- ▶ Provides uniform support for any application developed with CL/1 developer's toolkits, including Macintosh and MS-DOS applications, using a supported network

Network Support

- ▶ Provides 3270 datastream 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 TokenTalk™ NB Card for the Macintosh II family of systems
 - PC 3270 entry-level emulator and supporting hardware under MS-DOS

Resource Usage

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

Language Specifications

CL/1 is a complete language for describing connectivity tasks. The CL/1 language consists of these statement groups:

- ▶ Host connection statements: Establish and terminate a connection to a host system in the network
- ▶ Data manipulation statements: Offer complete, SQL-based data access to host databases
- ▶ Program structure statements: Support testing, looping, and procedure calls within a CL/1 program
- ▶ Output statements: Generate output messages from the CL/1 program, which are processed by the client application

System Requirements

To use the CL/1 Server for VM/CMS, you'll need the following:

- ▶ Host environment: VM/CMS

- ▶ Personal computer clients running CL/1-compatible Macintosh or MS-DOS applications

- ▶ Any supported version of SQL/DS
- ▶ Appropriate networking hardware and software



CL/1 Server for VM/CMS

Ordering Information

To order the CL/1 Server for VM/CMS, contact:

Network Innovations Corporation
20863 Stevens Creek Blvd.
Cupertino, CA 95014
(408) 257-6800
AppleLink:® D0978
Fax: (408) 257-7982

With your order, you'll receive:

- ▶ A 9-track, 1600-bpi tape containing the CL/1 Server software and the installation and configuration programs
- ▶ Installation manual
- ▶ 90 days of software technical support
- ▶ CL/1 Connectivity Language Description

Apple Computer, Inc.

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