

Software Product Description

PRODUCT NAME: SSS Application Services, Version 2.0

SPD 46.87.00

DESCRIPTION

SSS Application Services is a software product developed by Digital Equipment Corporation to provide a high level software infrastructure and a common software platform for application programs focused on Digital's range of Self Service systems. The SSS Application Services product utilizes unique, easy-to-use and comprehensive Application Program Interfaces (APIs), which are portable between Digital's Self Service systems. Digital has designed the SSS Application Services software components to minimize the time and cost of developing and customizing Self Service applications.

Software Architecture

From an implementation viewpoint, the SSS Application Services comprise a library of C functions, which are linked to the application program. The functions are grouped into blocks to provide an object-like functional interface. The SSS Application Services issue input/output requests to the lower level device drivers (Device Drivers Library) and manage device return codes and status messages. SSS Application Services are based on an open architecture and comply with established standards for personal computer hardware and software.

Features

- Protocol-independent communications interface
- Standard security functions
- Systems resource management
- System restart and recovery functions
- Terminal device handlers
- Background routines

Protocol-independent Communications Interface

A protocol-independent Application Program Interface (API) has been implemented with a set of high level function calls to the Communications handler. As a result, adequate application software portability between different network environments has been achieved.

Standard Security Functions

A standard set of logical security functions have been implemented, based on the DES algorithm. The cryptographic functions are provided through a tamper-proof hardware security module, specifically designed for banking applications. Functions for MAC calculation, encryption/decryption of data messages, and the management of encryption keys are included.

Systems Resource Management

The set of integrated functions collects and manages unexpected events and error messages. All events and errors are processed through an active filter to determine the severity of the problem and the corrective action to be taken. All events and error messages are time stamped and maintained in chronological order in a circular system log.

System Restart and Recovery Functions

The system restart and recovery functions comprise integrated functions for continuously monitoring system status changes as well as functions for transaction check-pointing. These functions provide the basis for system restart and recovery, with no loss of vital system data or transaction information.

Terminal Device Handlers

All terminal devices are supported by unique device handlers. The handlers provide the application programmer with a dedicated interface, specifically designed to support the design and creation of Self Service applications.

Background Routines

Background routines enable normal foreground execution to be temporarily interrupted, and execution control is then passed to the background routines. Limited "task scheduling" can then be simulated or parallel processing can be realized, to improve transaction throughput or resolve other response time critical events.

HARDWARE REQUIREMENTS*Processors Supported*

Minimum IBM® PC/AT® 16 Mhz or compatible personal computer with a minimum 2 MB of RAM is recommended.

Memory Requirements

Typically 128 KB to 256 KB of RAM, depending on the configuration. 5 MB of available hard disc space is required.

Processor speed, volatile memory, and minimum hard disc space are determined by the overall application software performance requirements.

Digital's Self Service Systems

- WB10 Compact Statement Terminal
- WB11 Compact Information Terminal
- WB21 Compact Cash System

SOFTWARE REQUIREMENTS

MS-DOS® Release 5.0 at a minimum

SSS Device Drivers Library V3.0

SSS Protocol Library V2.0

Microsoft® C V6.0 is required for the software development environment

GROWTH CONSIDERATIONS

The minimum hardware/software requirements for any future version of this product may be different from the requirements for the current version.

DISTRIBUTION MEDIA

3.5-inch diskette

ORDERING INFORMATION

Software Licenses:

QL-0RJAW-AA	License for the combined SSS Application Services (QL-0RQAW-AA) & SSS Background Routines (QL-0RRAW-AA)
QL-0RQAW-AA	License for SSS Application Services Package
QL-0RRAW-AA	License for SSS Application Services Background Routines

These licenses will support a site limited to the configuration of one Self Service system.

Software Kits:

QA-0RQAA-HC	SSS Application Services Package
QA-0RRAA-HC	SSS Application Services Background Routines
QA-0RJAW-AA	Combined software kits QA-0RQAA-HC & QA-0RRAA-HC

These kits contains one Software License, Documentation, and Media.

Software Documentation:

AA-PY2EA-TE	<i>SSB Application Software Overview</i>
AA-PY2FA-TE	<i>SSB AS Terminal Device Handlers, Programmer's Guide</i>
AA-PY2GA-TE	<i>SSB AS System Integrity, Programmer's Guide</i>
AA-PY2HA-TE	<i>SSB AS SRM, Programmer's Guide</i>
AA-PY2JA-TE	<i>SSB AS Data Communication Handler, Reference Manual</i>
AA-PY2LA-TE	<i>SSB AS Security Handler, Programmer's Guide</i>
AA-PY2MA-TE	<i>SSB AS General Support Routines, Reference Manual</i>
AA-PY2VA-TE	<i>SSB Background Routines, Programmer's Guide</i>

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