

Software Product Description

PRODUCT NAME: SysWorks™ Administrator V3.5

SPD SWRK-ADM-35

DESCRIPTION

SysWorks™ Administrator provides a framework for managing OpenVMS systems. It is based on a meta object model with over 200 classes. Examples of these include users, disk volumes, printers and applications. It uses a task oriented approach with access controls on each task. A task may perform a privileged operation such as registering a user without the need for the person using the task to have any privileges themselves.

SUB-SYSTEMS

SysWorks™ Administrator includes the following sub-systems:

- Network Management Sub-System
- Startup and Shutdown Sub-system
- User Management Sub-System
- Application and Group Management Sub-system
- System Management Sub-System

The sub-systems require installation using VMSINSTAL and the software must reside on the system disk.

Common to all SysWorks™ sub-systems are the following features:

- Logging of all task attempts by date, username, node, etc. If the System Management Sub-System is being used, unsuccessful task attempts may be broadcast and/or mailed to appropriate system management, operations or security personnel.
- ACL security on all tasks. SysWorks™ provides ACL extensions such as allowing task execution when it is being requested from the local node.
- Customer enhancements via pre or post task commands or complete task substitution. These commands would typically run an image or execute a DCL command procedure.

Network Management Sub-System

The Network Management Sub-System supports a multi-layered network consisting of:

- Network - a set of one or more security domains across which network addresses and names should be managed.
- Security Domains - a set of one or more sites across which security information should be managed. For example, a user who, would normally be registered at the security domain level, would have the same UIC on all VMSclusters to which they had access within the security domain.
- Sites - a set of one or more VMSclusters managed as a group. Most network information such as terminal servers etc. would typically be registered at the site level.
- VMSclusters - sets of OpenVMS nodes which share resources such as disk devices.
- Tuning Domains - sets of nodes within a VMScluster which share all system data files. Tuning domains are useful when a sub-set of nodes within a VMScluster need to have separate authorization details. A VMScluster with both large central nodes, and an array of workstations may require this.
- Nodes including OpenVMS, Unix, PC, Macintosh, gateways, routers and terminal servers.
- Ports including terminals and printers.

Startup and Shutdown Sub-System

The Startup and Shutdown Sub-System includes the following features:

- Disks are mounted during designated startup phases, and page and swap files are installed from disks mounted during the CONFIG phase.
- Layered products are started during appropriate phases. Copes with complex product inter-dependencies. Ensures that all layered products are started before the END phase.
- Applications registered with the Application and Group Management Sub-System are started during the END startup phase.
- Provides for application recovery during startup by detecting applications that were not stopped during a previous shutdown.
- Batch and print queues are started during designated phases. Most queues will be started during the END phase, after the applications registered with the Application and Group Management Sub-System have been started.
- Integrates with the OpenVMS SYSMAN utility startup databases.
- Checks all startup actions and log files and actively reports problems to system management and/or operations personnel.

User Management Sub-System

The User Management Sub-System includes the following features:

- User profile details are entered only once on the security domain master, the node within the security domain charged with responsibility for its management.
- User environments may be created on multiple VM-Clusters within a security domain. Primary details such as UIC are kept the same across all VM-Clusters resulting in easier file transfers (using DFS or BACKUP) and VM-Cluster merges.
- A user may alter appropriate personal attributes on a single VM-Cluster or all VM-Clusters to which they have access within the security domain simultaneously. The PWD command permits the user to change their password in such a manner.
- A user registered on a VM-Cluster may be granted access to one or more system user classes.
 - System user classes provide standard sets of user attributes including privileges, process quotas, other UAF features and disk quotas.

- Access to multiple system user classes results in accumulating and/or maximising quotas.
- Alterations to system user classes are propagated to each of the associated users.
- System user classes may be optionally associated with one or more bundled products such as VM-Smail or layered products such as ACMS, All-In-1, DECnotes and Pathworks.
- Bundled or layered products may have associated registration and deregistration procedures such that when a user is granted access to a system user class, they are automatically registered for the associated bundled or layered products. When that access is revoked, they are automatically deregistered.
- These ensures that user details are simply and accurately propagated to the various products, and that resource usage doesn't continue after a user is removed a VM-Cluster.
- In a DECwindows environment, access to a system user class results in verbs for the system users class's associated products appearing in appropriate menus under FileView or the Motif Session Manager.
- System user classes may provide access to SysWorks™ sub-systems. For example, users granted access to the USER_REGISTRAR system user class on a VM-Cluster may register users on that VM-Cluster. If this access is granted on the security domain master, the user may manage user profiles across the entire security domain.
- Reports are produced highlighting UAF entries and file security not matching those provided by SysWorks™.
- Interconnects with other SysWorks™ sub-systems such as the Application and Group Management Sub-System.
- Includes the User Tool Set.

Application and Group Management Sub-System

The SysWorks™ Application and Group Management Sub-System includes the following features:

- Supports multiple environments for applications such as DEV, MNT, TEST, PROD and TRNG.
- Applications, application environments and group profile details are entered once on the security domain master.
- Application and group environments may be created on multiple VMSclusters within a security domain.
- Allows creation of application or group user classes by an application or group manager. Every application or group has at least a MANAGER user class. For an application in a development or maintenance environment, the MANAGER user class may be considered as a “project leader” user class.
- Provides tools to allow application and group managers to grant access to their application or group users.
- Supports application specific user registration (GRANT) and de-registration (REVOKE) procedures.
- Integration of applications with various products including:
 - ACMS
 - DECset (CMS, DTM and SCA)
- Supports shared logical name tables for each application environment and group. These are created and populated at system boot time if the Startup and Shutdown Sub-System is used.
- Base DCL command procedures are provided.

These include:

```

ARCHIVE
BACKUP
BOOT
ENTER
EXIT
GRANT
LOGICALS
RECOVER
RESTORE
REVOKE
SECURE
SHUTDOWN
START
STOP

```

Where appropriate, these integrate with the Startup and Shutdown Sub-System.

- Applications and groups may be split across multiple disks and moved without any application changes.

- Reports are produced highlighting UAF entries and file security not matching those provided by SysWorks™.
- Includes the Application Development Tool Set.
- Adds the GROUP command to move to a group environment in addition to the APPLICATION and ENVIRONMENT commands of the Application Development Tool Set.

System Management Sub-System

The SysWorks™ System Management Sub-System includes the following features:

- Periodic monitor which checks for conditions and/or performs actions at a variety of intervals. Conditions and actions include:
 - Disk space low - by disk volume, or system wide. May be disabled for specific disk volumes.
 - Unregistered (i.e. not via the User Management Sub-System) user active.
 - Unregistered disk quotas.
 - Unregistered file ownerships.
 - Disk analysis and repair.
 - New log file (e.g. operator, SWLUP, accounting etc.) creation.
 - Analyse log files and actively report errors to system managers and/or operators.
- Customer definable functions which may be executed across the network by users based on system user class.
 - May be an image or a DCL command procedure.
 - May be executed with privileges.
- Minimum impact - typically 1-2% CPU load on a VAXstation

TURNKEY OPERATIONS

SysWorks™ manages OpenVMS systems. It aids all aspects of user, application and system management. This service may be provided throughout any VMS network.

SysWorks™ is based around a database of system objects which represent users, applications, disks, nodes etc. Each meta object may have tasks performed upon it. For example, registering a user is a task. These tasks may be performed locally or anywhere on a network where appropriate. They may be executed by administrative personnel who have been given appropriate access to the task. These administrators do not need to have the VMS privileges required to perform the task.

Benefits include:

- Enhanced security by providing tasks which perform management functions so that administrators do not need to have VMS privileges to perform their everyday activities.
- Improved consistency because data is entered only once and reused by multiple tasks. Each task is performed accurately by reusing the original data.
- Ability to devolve administration functions. For example, an application manager may grant users access to his or her application. This is achieved without needing to use VMS utilities such as AUTHORIZE to grant identifiers etc.

The product consists of a number of highly integrated, but separable components called tool sets and subsystems. These components may be licensed separately or bundled in a comprehensive OpenVMS management package.

SOFTWARE REQUIREMENTS

Where software versions are supplied, they indicate a minimum version number. Where multiple versions are supplied, these indicate versions of the product which have been tested with SysWorks.

Prerequisite Software

The following software is required by SysWorks™ Administrator:

- OpenVMS for Alpha or VAX V7.2
- DECnet V5.5 or DECnet/OSI V6.1

Optional Software

The following software will be actively used by SysWorks™ Administrator when present:

- DECwindows/Motif V1.2-3

Supported Software

The following software is supported by SysWorks™ when present:

- 20/20
- ACA Services
- ACMS V3.2
- All-In-1 V2.4
- All-In-1 Shared File Cabinet
- CDD/Plus V4.x, CDD/Repository V5.x
- Data Distributor
- Datatrieve
- DEC Ada
- DEC C
- DEC C++
- DEC DB Tools
 - RdbExpert
 - Graphical Schema Editor
 - InstantSQL
- DEC Fortran
- DEC Notes
- DEC Pascal
- DEC TCP/IP Services
- DECdecision
- DECdocument
- DECfax
- DECforms V1.3
- DECgraph
- DECquery
- DECset V12B
 - CMS
 - DTM
 - LSE
 - MMS
 - PCA
 - SCA
- DECtrace

- DECwrite V3.0
- Macro-32
- Mailworks
- ObjectBorker
- Pathworks
 - LAN Manager V5.0C
 - Macintosh V1.3
 - Netware V1.0
- POLYCENTRE
 - Accounting Chargeback
 - Capacity Planner
 - File Optimizer
 - Framework
 - Network Manager
 - Performance Advisor
 - Performance Data Collector
 - Scheduler
- Rally
- Rdb/VMS V4.0, V4.2, DEC Rdb V5.1, V6.0, Oracle Rdb V6.1
 - RDML Precompilers
 - RDO
 - RDO Precompilers
 - SQL
 - SQL Module
 - SQL Precompilers
 - SQL Services
- Storage Library System
- SoftPC V4.0
- TeamLinks
 - Macintosh
 - Windows
- TeamRoute for OpenVMS
- VAX Basic
- VAX Cobol
- VAX FMS
- VAX Message Router
 - DDS
- VAX TDMS V1.9A

- WordPerfect V5.0, V5.1

DOCUMENTATION

All SysWorks™ software is supplied with comprehensive and consistent online help and Bookreader and PostScript manuals.

SOFTWARE LICENSING

This software is furnished under the licensing provisions of Corpita Pty Ltd's Standard Terms and Conditions.

SOFTWARE WARRANTY

Warranty for this software product is provided by Corpita Pty Ltd with the purchase of a license for the product.

SERVICES

A variety of services are offered with SysWorks™ software. These include:

- Installation and configuration;
- Adaption to existing site standards;
- Establishment of application baselines;
- Addition of Digital or third party software to SysWorks™ Developer and/or SysWorks™ Administrator startup;

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