

StorageTek Nearline Control Solution (MVS Implementation)

Read Me First

Version 6.2



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SMC 6.2 (MVS) Read Me First

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1 Introduction

This document provides information necessary for the installation of the release 6.2.0 product set.

Please read this important notice before installing the 6.2.0 products.

2 Installation Materials

The following installation materials are included in this package:

- A product tape containing the 6.2.0 software.
- A service tape containing PTFs for the 6.2.0 product set.

OR

- A product CD containing the 6.2.0 software.
- A service CD containing PTFs for the 6.2.0 product set.

Note: NCS and VTCS are shipped on separate tapes/CDs. VTCS customers receive two tapes or CDs: the NCS tape or CD (containing the HSC), and the VTCS tape or CD.

In addition, all customers must obtain the latest maintenance (PTFs and HOLDDATA) for the 6.2.0 product set and for any releases of StorageTek software that will co-exist with 6.2.0. Maintenance can be downloaded from the customer download website at:

<http://www.oracle.com/technology/software/index.html>

or by calling Software Support¹ and ordering an all-PTF tape.

3 Release Notes

For customers using SMP/E 3.1 and above, the 6.2.0 product set is available on CDs. The following information provides specific details on each 6.2.0 product.

3.1 SMC 6.2.0 Notes

SMC 6.2.0 communicates with the HSC and/or MVS/CSC running on the same host, or with the HSC executing on a remote host. When communicating with HSC on a remote host, the StorageTek HTTP Server must also be installed and must execute in a separate address space on the HSC host.

3.1.1 POLICY

The SMC 6.2.0 introduces a new concept called POLICY that encapsulates all tape policy information supplied in previous releases from either TAPEREQ or DFSMS ACS routines into a single source. The *SMC 6.2 Configuration and Administration Guide* describes the new policy features and contains instructions for executing a new utility to convert existing TAPEREQ statements into TAPEREQ statements and POLICY commands.

3.1.2 TAPEPLEX

The SMC 6.2.0 introduces a new term, TapePlex, to refer to a collection of StorageTek tape hardware represented by one HSC CDS. The SMC LIBRARY command from previous releases is now TAPEPLEX, and the keyword LIBRARY on the SMC SERVER command is now TAPEPLEX. The old LIBRARY command and keyword are supported for backward compatibility with earlier releases.

¹ (800) 872-4786 (USA-4SUN) for USA customers

+1-xxx-xxx-xxxx for international customers

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3.1.3 Routing Commands from SMC to HSC or VTCS

The SMC 6.2.0 introduces a Route command to allow you to issue selected HSC commands and all VTCS commands from the HSC console and route the request to a selected HSC TapePlex. See the *NCS/VTCS 6.2 XML Guide* for a list of HSC commands supported via UII from the SMC console, and Section 3.3.2 HSC UII Commands for a description of the HSC UII feature.

3.2 StorageTek HTTP Server

The StorageTek HTTP Server included with NCS 6.2.0 (FMIDs SSKY500 and ASAR0700) is the same version previously included with NCS 6.1.0. If these FMIDs were previously installed, you do not need to re-install them. However, if you choose to re-install these FMIDs in the NCS 6.2.0 CSI, all maintenance previously applied to these products must be reapplied.

These FMIDs are also distributed as part of the VSM GUI and ExPR GUI products. However, if you wish to run the VSM GUI or ExPR GUI under the StorageTek HTTP Server delivered on the NCS 6.2.0 installation media, additional modules for these GUI products are required. You must install these modules from the installation media provided with the GUI products.

The SMC CGI routines needed to access HSC from a remote client, which were packaged as a separate FMID (SMX6100) in the 6.1.0 release, are part of the SMC6200 FMID and the base SMC loadlib (SMCLINK) in the 6.2.0 release.

The base SMC loadlib (SMCLINK) replaces SMXLINK in the HTTP server start-up proc.

The HSC and VTCS loadlibs, SLSLINK and SWSLINK, are required in the HTTP server STEPLIB concatenation to support UII. Refer to the *SMC 6.2 Configuration and Administration Guide* for an updated example of the HTTP server start-up proc for NCS 6.2.0.

3.3 NCS 6.2.0 Notes

3.3.1 Future MVS/CSC and LibraryStation Support

NCS 6.2 is the last release that will support connections between MVS/CSC and LibraryStation. In the future, MVS/CSC will support connections to ACSLS and LibraryStation will support connections to open system clients only. Connectivity in an MVS-only client/server environment will be provided by SMC on client host(s) communicating with the HTTP server and HSC on the server host(s).

3.3.2 HSC UII Commands

A new feature available in release 6.2.0 of the HSC is Unified User Interface (UII). See the *NCS/VTCS 6.2 XML Guide* for a list of HSC commands supported via UII. All UII commands can be executed from the SLUADMIN utility and can produce output in text, XML, or Comma Separated Values (CSV) format.

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3.3.3 ExLM Considerations

- Commencing with ExLM 6.2 there will be no installation CD-ROM provided with the installation package for ExLM Explorer. Refer to the ExLM 6.2 Installation and Maintenance Guide for instructions on downloading the ExLM Explorer installation file from the installed ExLM SMP/E environment. This consolidates initial installation and maintenance for the ExLM Explorer into a single process.
- ExLM 6.2 will not run in an environment below z/OS 1.4 level and appropriate messages will be issued should it be attempted. As the minimum supported OS level for the 6.2 products is z/OS 1.6 this should not be an issue.

3.4 VTCS 6.2.0 Notes

3.4.1 What's new

VTCS 6.2.0 adds:

- The ability to archive VTVs, i.e. to migrate them to different Storage Classes after a period of time as defined on the MGMTCLAS. There is also a new ARCHive utility.
- The ability to check /correct the placement of migrated copies of VTV via a new RECONcil utility.
- A new Display STORCLAS command that can display the characteristics of a Storage Class and any VTVs waiting to be migrated to that Storage Class.
- A G format CDS, which supports 2000Mb/4000Mb VTVs and a maximum of 65000 VTVs on an MVC. CONFIG RESET is not required in order to convert the CDS to format G.
- The ability to suppress replication of a VTV that has been recalled in order to be read.

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4 Installation Notes

4.1 End of License Key Requirement

License keys are no longer required for NCS 6.2 software initialization. The following PTFs remove the license key requirement:

- L1H15IW (HSC 6.2 MVS)
- L1H15IV (HSC 6.2 VM)
- L15107V (LibraryStation 6.2)
- L1C10AR (MVS/CSC 6.2)

4.2 6.2.0 FMIDs

The following SMP/E FMIDs are distributed with 6.2.0:

SMC6200	The base SMC component.
SOS6200	The base HSC component. This is a sub-fmid of SMC6200.
SCS6200	The base MVS/CSC component. This is a sub-fmid of SMC6200.
SOC6200	The LibraryStation component.
SMZ6200	The SMC JES3 component. This is a sub-fmid of SMC6200.
SWS6200	The VTCS component. This is a sub fmid of SOS6200.

Table 1 6.2.0 SMP/E FMIDs

Select the FMIDs that are required to support your configuration.

Note that the various components are sub-FMIDs of base components. *If you are running at an SMP/E level lower than 2.5, ensure that the base fmid(s) and all PTF maintenance for the base FMID(s) is accepted before installing any sub-fmids.* For certain levels of SMP/E, the restriction applies that a dependent FMID cannot be installed if the base FMID and service have not been ACCEPTED.

Note: When installing 6.2.0 in the same SMP/E zone as that used for earlier versions, the SMP/E installation deletes the old FMIDs.

4.3 General Installation Guidelines

Full instructions for installing the various components can be found in *NCS 6.2 Installation Guide* and *Installing and Configuring VTCS 6.2*. Please refer to the latest levels of the manuals. Please ensure that on completion of the apply/accept of the fmids that the latest HOLDDATA is received and the latest PTFs are received and applied. Follow your own internal guidelines regarding the SMP/E ACCEPT of the PTFs.

It is strongly recommended to use GROUPEXTEND on all applies.

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4.4 CD Installation Guidelines

- **Always refer to the *NCS 6.2 Installation Guide* and *Installing and Configuring VTCS 6.2* for the most current installation instructions and examples. The instructions and examples found in these manuals ALWAYS supersede instructions and examples packaged on the CDs.**
- The install CDs contain a file, .ccmwaid, that is unnecessary and can be ignored.
- 47M of mainframe storage space is required to FTP and unpack the NCS62.pax file.

4.5 NCSDDEF Sample JCL Clarification

In the sample JCL NCSDDEF the following statements appear in the prologue:

- 4) Uncomment the "SET *=TRUE" statements for the desired function(s) to be APPLYed in the EXEC DDEFPROC step.
- 7) Change NCSDDEF step to UNCOMMENT the products you wish to install. The following considerations apply:

Both statements point to the same location in the JCL and appear to be two separate steps, but are the same step. The considerations listed after step 7 apply to both statements. Both steps 4 and 7 refer to the JCL comments following the //NCSDDEF, EXEC DDEFPROC, statement.

5 6.2.0 Co-existence with Previous Releases

It is not mandatory to upgrade all hosts to 6.2.0 at the same time. The 6.2.0 products may co-exist with hosts running 6.0.0 and above.²

There are, however, a number of considerations when co-existing with down-level hosts.

² Other hosts that share the same CDS.

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5.1 6.2.0 Compatibility PTFs

Before attempting to start 6.2.0 ensure that the following compatibility PTFs are installed on the down-level releases that share the CDS.

SMC 6.2 is completely compatible with HSC 6.1 (with compatibility PTFs listed below) running on the same or a different host. In addition, SMC 6.1 is completely compatible with HSC 6.2 running on the same or a different host. HSC 6.1 and HSC 6.2 are both completely compatible with SMC 6.0, SMC 6.1, or SMC 6.2 running on the same or a different host. Note, however, the HSC 6.0 is *not* compatible with SMC 6.1 or SMC 6.2.

Note: HSC 5.1 is no longer a supported release.

HSC 6.0 (FMID SOS6000)	L1H12RT
VM/HSC 6.0 (SMS6000)	L1H12RS
VTCS 6.0 (SWS6000)	L1H1355
HSC 6.1 (FMID SOS6100)	L1H12RV L1H12N7 L1H1343
VM/HSC 6.1 (SMS6100)	L1H12RU L1H1342
SMC HTTP Server CGI (SMX6100)	L1A00FW
VTCS 6.1 (SWS6100)	L1H1356

Table 2 Compatibility PTFs

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In addition it is strongly recommended to obtain the latest service (including HOLDATA) for the down-level hosts systems.

The suggested method of implementing 6.2.0 is to:

1. Install the correct service on production hosts.
2. Install 6.2.0 on a test host(s).
3. Test and verify 6.2.0 on test host(s).
4. Schedule the rollout of 6.2.0 to production hosts.

5.2 VTCS 6.2.0 Migration Considerations

5.2.1 New functionality and CDS format

VTCS 6.2.0 provides support, with a G format CDS, for

- 2000Mb and 4000Mb VTV sizes
- Large VTVPAGE sizes (within the VTSSs)
- A maximum of 65000 VTVs on an MVC

Once all Hosts are running HSC/VTCS 6.2.0, a CDS can be converted to G format dynamically, i.e. simply by running the VTCS CONFIG utility with CDSLEVEL(V62ABOVE) specified. Hosts may be active when the CDS is converted. The CONFIG "RESET" parameter, which would require all Hosts to be inactive, need not be specified.

5.2.2 Redundant/changed messages

Message SLS6700E is no longer used to report migration failures. It has been replaced by messages SLS6853E-SLS6859E.

The format of messages SLS6787E, SLS6792E and SLS6793I have changed.

Any processing of these messages, e.g. by an auto-ops package, should be reviewed and amended accordingly.