

NonStop_CORBA_2.6.1_R_eadme.txt
READ THIS FILE COMPLETELY BEFORE BEGINNING PRODUCT INSTALLATION
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Product Name:
NonStop(TM) CORBA(R) 2.6.1

Marketing ID:
SE65V3 SE66V3

Component Products:
T2817C11 NonStop CORBA 2.6.1 RTK
T2818C11 NonStop CORBA 2.6.1 SDK
T2820C11 SSL for NonStop CORBA 2.6.1

I. Basic Product Installation Instructions

1. Ensure that the requirements for using this product are met (see Section IV Product Requirements below).

It is critically important that you ensure that you have the prerequisite software.

2. Verify that prerequisites for the installation utility and any product-specific installation requirements are met (see Section V Installation Prerequisites below).
3. Install the NonStop CORBA 2.6.1 documentation (on workstation).

Execute the file CD_DOCS\CORBADOC.EXE on your CD by double clicking on it in Windows Explorer. You will be prompted for a directory where you want to place the files. To view the documentation, open the home.htm file in a Web browser by double clicking on it in Windows Explorer.

4. Install the NonStop Distributed Component Console (on workstation).

Execute the file WS_SW\NSDCONSOLE.EXE on your CD by double clicking on it in Windows Explorer. You will be prompted for a directory where you want to place the files. The default directory is "C:\NSDCConsole". If you want to enter a different directory name, do so and continue. You will end up with the following directory structure (<nsdconsole-dir> is the directory in which you installed the console):

```
<nsdconsole-dir>  
  +-jre  
  +-lib
```

5. Review the file USRGUIDE.PDF (in the subdirectory NSK_SW on this CD) containing the IPSetup User Guide, which provides instructions for using IPSetup, a utility provided on the CD that enables installation of Independent Products. You will need Adobe Acrobat Reader to read or print the IPSetup User Guide. Visit Adobe's website to download the latest Adobe Acrobat Reader:
<http://www.adobe.com>
6. Use one of the following methods to move/copy files to the Installation Subvolumes: (A) IPSetup only, or (B) IPSetup in conjunction with DSM/SCM.

7. Follow the Pre-Installation Instructions in Section II below, if any, before continuing to Step 8.
8. Run IPSetup to place and install (move NonStop Kernel files to the correct ISVs) this product. If TCP/IP and FTP are unavailable, or if you have problems with automatic file placement, use the instructions in the IPSetup User Guide section "Manual Software Placement Using the IPSetup TACL Program" to manually place NonStop Kernel files.

This product contains both NonStop Kernel components and workstation components. You may choose one, two, or three components to place in one installation.

9. Follow the post-installation instructions in Section III below, if any, after using IPSetup to place and install this product.

II. Pre-Installation Instructions

NOTE: There are certain installations of CORBA versions which are incompatible if DSM/SCM is employed during installation time. Please note the following scenarios:

- A. If you install a NonStop CORBA 2.3 using DSM/SCM on a system where NonStop CORBA 2.6.1 has been installed, the template files from the latest installation will overwrite the template files from the earlier NonStop CORBA 2.6.1 installation. Any error messages introduced in NonStop CORBA 2.6.1 will be lost.

To manually reinstall the EMS template files from NonStop CORBA 2.6.1, please see Section III Post-Installation Instructions.

- B. You cannot install a NonStop CORBA 2.3, and a NonStop CORBA 2.6.1 product at the same time using DSM/SCM. The installation will terminate with a message similar to the following:

ERROR: A duplicate file was found. Product T0539 and Product T2818 both place file ZDOMC in TSV ZSPIDEF. These two files have different fingerprints.

Prepare to run IPSetup by performing the following steps:

1. If you have an existing NonStop CORBA 2.3 or NonStop CORBA 2.6 installation, stop all NonStop CORBA applications and subsystems.

Discussion: Eliminates file conflicts with the earlier NonStop CORBA installations versions.

When updating the ISVs, IPSetup attempts to purge existing files in the ISV during processing. If a NonStop CORBA application is running, IPSetup is not able to purge files, such as NSDSRL, and terminates.

2. Ensure that you (the installation user) are not listed in \$SYSTEM.ZTCPIP.FTPUSERS.

Discussion: If you try to install products using IPSetup and your user ID is listed in \$SYSTEM.ZTCPIP.FTPUSERS, the installation fails at the point where IPSetup tries to transfer

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(ftp command) the files from the workstation to the NonStop system. This failure occurs in a typical situation when you install the product using the super.super ID and for common security reasons, the super.super ID is forbidden ftp access.

III. Post-Installation Instructions

1. If you did not install the EMS template files using DSM/SCM, invoke the INSTALL^TEMPLATES TACL macro to install the ZDOMTMPL EMS template files contained on the CD. This TACL macro and instructions for its use are given in Support Note S92067B (updated 24AUG94), which you can obtain by using NTL or from Scout for NonStop Servers. Starting with C30.09 and D20.00 releases, the INSTALL^TEMPLATES TACL macro is distributed on the SUT and can be found in <ISVvol>.ZINSAIDS.TACLMACS. To print the usage notes, LOAD the file containing the macro and at the TACL prompt, type: INSTALL^TEMPLATES /OUT <outdev>/HELP
2. If you placed the files using DSM/SCM, the product directories will be owned by super.super. Logon as super.super in the OSS environment and give the files to the preferred owner.

Log on as SUPER.SUPER
Start the OSS environment
Type this command:

```
chown -R user.user1 /usr/tandem/nsdoms
```

where user.user1 is the user ID that will own the NonStop CORBA OSS files.

Check the security of the files in /usr/tandem/nsdoms to be sure that it is compatible with your system management and organization policies.

3. Use either the preferred workstation-based installer or NonStop S-series based installer to complete the installation.
 - a) Use the workstation-based GUI installer, INSTALL_CORBA.EXE, to install any or all of the following;
 - NonStop CORBA 2.6.1 Software Development Kit
 - NonStop CORBA 2.6.1 Run Time Kit
 - SSL for NonStop CORBA 2.6.1(from the CD) by double clicking on the program and following the directions.

During an IPSetup installation of NonStop CORBA 2.6.1, two subvolumes are used for storing files on the HP NonStop S-series platform. The first subvolume is a "Working subvolume", that the installer uses to designate a location for temporary files. The volume chosen for this "Working subvolume" is also used by IPSetup to indicate the ultimate location of the product ISV.

R2817C11 is the default DSV for NonStop CORBA 2.6.1 RTK.
R2818C11 is the default DSV for NonStop CORBA 2.6.1 SDK.
R2820C11 is the default DSV for SSL for NonStop CORBA 2.6.1.

During final installation the target subvolume used for storing the product files will be the volume assigned for the "Working subvolume" and the appropriate product DSV, R2817C11, R2818C11 and/or R2820C11.

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For example, if the "Working subvolume", \$DATA01.C11NPV is selected, the product installation DSV for NonStop CORBA 2.6.1 SDK will be \$DATA01.R2818C11.

NOTE: In the case of a non default installation, the ISV chosen for all components MUST be the same.

- b) Use the NonStop S-series based OSS installer (install) (installed by IPSetup) by typing the following at an OSS shell prompt:
- ```
cd /G/SYSTEM/<ISV>
install
```

NOTE: You MUST choose to install RTK even if you are choosing SDK and/or SSL. Both the SDK and SSL installations require the RTK pax file. Failure to do so will result in an error similar to the following during installation:

```
starting to unpack files
cat: cannot open /tmp/ossiinst85262471
cat: cannot open /tmp/ossiinst85262471
doPax2818[61]: test: argument expected
```

Regardless of the final installation method, if you need more information about installation and/or installation parameters, you should refer to the NonStop CORBA 2.6.1 documentation that you installed. Using a Web browser open up the home.htm file located in the root directory of the NonStop CORBA 2.6.1 documentation and select the Installing NonStop CORBA 2.6.1 section in one of the Getting Started Guides for example, the Getting Started Guide for C++ or the Getting Started Guide for Java.

NOTE: If you used DSM/SCM to install (unpax) your products, you do not need to unpax the files a second time.

The NonStop CORBA 2.6.1 files are unpaxed into the locations below your root installation directory, which is /usr/tandem/nsdoms by default.

The subdirectories created in the installation process are outlined in the following table:

NonStop CORBA 2.6.1 tree directory Contents

| Subdi rectory | Di rectory Contents                                                                                           |
|---------------|---------------------------------------------------------------------------------------------------------------|
| bin           | Contains executable programs, including all configuration related tools described in this and other sections. |
| docs          | Contains the Java documentation.                                                                              |
| etc           | Contains miscellaneous system files, such as the env.sh and default files.                                    |
| idl           | Contains the nsdiidl.jar file.                                                                                |
| include       | Contains C++ header files.                                                                                    |
| jasamples     | Top directory for Java samples.                                                                               |
| lib           | Contains object files required for clients of                                                                 |

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the transaction service.

log Contains log files which are initially empty.

origetc Contains the original etc.sh file and data base files.

samples Top directory for C++ samples.

ssl iop Contains the SSL specific directories including a subdirectory containing SSL samples.

urls Contains IOR files.

/G/vol/subvol Contains the NonStop CORBA files that reside on the Guardian file system, such as the EMS template files.

The following directories are created under the main NonStop Server for Java directory tree:

NonStop Server for Java directory contents (V4.1)

| Subdirectory    | Directory Contents  |
|-----------------|---------------------|
| jre/lib         | Adds orb.properties |
| java_public_lib | Adds libnsdom.a     |

#### IV. Product Requirements

Required Hardware:

NonStop S72000 server or above

Minimum OS Release:

NonStop Kernel release G06.20

T2766V10^AAB Java  
T0179G06^AAI C++ RTL V2 if using G06 PV  
T0179G07^AAJ C++ RTL V2 if using G07 PV  
T5812D42 TS/MP License  
T6017D44^AA0 NLD  
T8164D46 Native C89 Utility  
T8304D45^AAF NMCGEN  
T8607D46^ADD NS TMF MAIN  
T8620D40 OSSFS - OSS File System  
T8629D43 OSS Compiler Utils  
T8645G05 Standard Headers  
T9050G06 NonStop Kernel  
T8351V11 NonStop TUXEDO /T Core Services R8.0 (only required if interoperability between NonStop CORBA 2.6.1 and NonStop TUXEDO is needed; obtain by ordering product SR71V1 or SR72V1)

NOTE: The minimum OS release required is G06.20.

Disk Space Requirement:

|               |        |
|---------------|--------|
| NSK files     | 100 MB |
| Documentation | 10 MB  |

#### V. Installation Prerequisites

Required Hardware:

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NonStop S72000 server or above

Communications controller allowing file transfer  
from workstation to HP NonStop server

Workstation with 233 MHz or higher Pentium processor  
and all of the following:

CD-ROM drive  
VGA or higher-resolution video adapter and monitor

Microsoft Mouse or similar pointing device

Communications controller allowing file transfer  
from workstation to HP NonStop server

Required Software:

T9550D30 SOCKET LIBRARY or later version  
T9552D40 TCP/IP FTP with RVU ABJ or superseding Successive  
SPR (for releases D40.01 and later)  
Microsoft Windows 2000 or Windows XP  
Microsoft TCP/IP stack and FTP client

#### VI. Manuals Included On this CD

|                                                       |                 |
|-------------------------------------------------------|-----------------|
| HP NonStop CORBA 2.6.1 Getting Started Guide for C++  | (PN 525933-002) |
| HP NonStop CORBA 2.6.1 Getting Started Guide for Java | (PN 525934-002) |
| HP NonStop CORBA 2.6.1 Administration Guide           | (PN 525935-002) |
| HP NonStop CORBA 2.6.1 Programmer's Guide for C++     | (PN 525936-002) |
| HP NonStop CORBA 2.6.1 Programmer's Guide for Java    | (PN 525937-002) |
| HP NonStop CORBA 2.6.1 Programmer's Reference         | (PN 525938-002) |
| HP NonStop CORBA 2.6.1 Glossary                       | (PN 525939-002) |

#### VII. CD-ROM Root Directory Contents

|             |                                                                                                                                                                 |
|-------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| AUTORUN.INF | File containing CD AutoRun commands.                                                                                                                            |
| AXDIST.EXE  | Microsoft Redistributable files.                                                                                                                                |
| IPSETUP.CNT | File containing help contents for the CD installation.<br>utility IPSetup.                                                                                      |
| IPSETUP.EXE | File containing the main executable for IPSetup.                                                                                                                |
| IPSETUP.HLP | File containing help text for IPSetup.                                                                                                                          |
| LICENSE.TXT | File containing limited-use Software Licensing.<br>Agreement with the licensing terms governing<br>this product.                                                |
| README.TXT  | File containing product and installation information<br>(this file).                                                                                            |
| SETUP.EXE   | File containing the Launcher executable.                                                                                                                        |
| CD_DOCS     | Subdirectory containing product documentation.<br>CORBADOC.EXE: CORBA 2.6.1 documentation in a<br>self-extracting executable.<br>NOTE: Documentation is in html |

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files.

|          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| NSK_SW   | Subdirectory containing NonStop Kernel component files, including installation utilities and instructions.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| SOFTDOCS | Subdirectory containing all Product Version softdocs.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| WS_SW    | Subdirectory containing workstation component files.<br><br>INSTALL_CORBA.EXE: Self-extracting workstation-based installer for NonStop CORBA 2.6.1. This installer will install RTK, SDK, and/or SSLIOP.<br><br>JORBLITE.EXE: Self-extracting JORB Lite.<br><br>NSDCONSOLE.EXE: Self-extracting NonStop Distributed Component Console.<br><br>VSEP.BAT: Installation script for VSEP files.<br><br>VSEP.ZIP: Zip file containing the idl compiler and the include files to support the use of the Visual Studio Extension Package NonStop Edition for application development on a workstation. |

### VIII. JORB Lite installation and configuration instructions

1. Execute the file WS\_SW\JORBLITE.EXE on your CD by double clicking on it in Windows Explorer. You will be prompted for a directory where you want to place the files. The default directory is "c:\jorblite". If you want to enter a different directory name, do so and continue. Note that the installer will update your PATH and CLASSPATH. You will end up with the following directory structure (<jorblite-dir> is the directory in which you installed JORB Lite):

```
<jorblite-dir>
+---bin
+---docs
 +---javapubs
 +---javadocs
+---etc
+---idl
+---j avasamples
 +---bank
 +---calc
 +---event_service
 +---ins
 +---j pathsend
 +---j ts_bank
 +---portable-interceptor
 +---stack
 +---stack-obv
 +---stack-tie
 +---stock
 +---stock-dynamic
+---lib
+---urls
```

2. Unzip the following documentation zip files in the same directory that they reside in:  
<jorblite-dir>\docs\javapubs\javadocs\javadoc.zip

You can use an application like "WinZip" to do this.

3. You will need to obtain a "C" preprocessor, such as "cl" from Microsoft's Visual C++ (needed by IDL compiler). You will also need to ensure that the "cl.exe" program is accessible from the PATH environment variable. The idl2java script executes IDL using the "cl.exe" program to preprocess information in the IDL file. The error "nsdidl: Error: could not run preprocessor: "cl -E -C filename.idl java.io.IOException: CreateProcess: cl -E -C filename.idl error=2" will be received if the "cl.exe" program can not be found by the NSDIDL compiler.

NOTE: If you wish to use GNU's "C" preprocessor (cpp), you will need to edit bin\idl2java.bat and change "cl" to "cpp". GNU's "C" preprocessor can be found on the web at sites such as www.cygwin.com (under cygwin [full release]). You will also need to ensure that the "cpp.exe" program is accessible from the PATH environment as above.

4. In using the Java 2 platform, you need to copy lib\orb.properties to <Java 2 root directory>\jre\lib.
5. If you want to use org.omg.CORBA.ORB.resolve\_initial\_references("NameService"), you must also modify the RootNamingContextIORFile setting in the <jorblite-dir>\lib\lite.dbm file so that it looks like:  
NS@name\_service\_settings RootNamingContextIORFile  
<jorblite-dir>\urls\NameService

The file "NameService" must contain the root naming context IOR of the Naming Service running on a remote NonStop NonStop system. The NonStop CORBA subsystem creates this file when it is configured on the NonStop S-series system. It is created in the directory "<NonStop CORBA installation dir>/urls" on the NonStop s-series system. You must copy this file from the NonStop S-series system into the "<jorblite-dir>\urls" directory. You can use the Console or FTP to copy this file.

\*\*\*Special NOTE\*\*\*

You will want to copy this file to your workstation after each NonStop CORBA re-configuration on the NonStop S-series system.

6. JORB Lite is now installed and configured. You can now build and run the samples.

## IX. ETK Installation Instructions

If you wish to use the Visual Studio Extension Package NonStop Edition (VSEP-NSE) product for developing your NonStop CORBA applications you must follow the procedure outlined below. Any reference to the <Install Dir> in the instructions means the top level directory where the files to be placed,  
C:\NonStop\_CORBA\_2.6.1.

1. Create the <Install Dir>

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2. Copy the VSEP.BAT and VSEP.ZIP files from the WS\_SW directory on NonStop CORBA 2.6.1 CD to the <Install Dir> on your workstation.
  3. Ensure that your PATH environment variable includes the location of both the WINZIP32.EXE and REGEDIT.EXE programs.
  4. Execute the VSEP.BAT file which will unzip the files into a number of directories below the <Install Dir>. Once the files have been unzipped the VSEP.BAT file will then invoke the regedit program to add the necessary entries into your Windows registry.
  5. Refer to the documentation provided with the VSEP-NSE product to find out how to use the NonStop CORBA extensions.
- X. Correction to: HP NonStop CORBA 2.6.1 Administration Guide (PN 525935-002)

#### Appendix A. Configuration Database Entities

Entity keys CA\_file, CA\_path, ssl\_cert\_file, ssl\_pkey\_file, and ssl\_pkey\_pswd apply only to C++ applications.

Entity keys truststore, truststore\_pswd, keystore, and keystore\_pswd only apply to Java applications.

old: the default is SSLIOP\_DEFAULT/truststore\_pswd  
new: the default is SSLIOP\_DEFAULT/truststorepswd.txt

old: then the default is SSLIOP\_DEFAULT/keystore\_pswd.  
new: then the default is SSLIOP\_DEFAULT/keystorepswd.txt.

#### XI. Additional Information

Each CORBA process is shipped with SaveAbend enabled and a specified AUTORESTART value. This will always allow pertinent data to be captured if an abend should occur. If the AUTORESTART value is greater than 0, Pathway will attempt a restart of the process. In case the reason for the abend is persistent, Pathway will stop trying to restart the process once it has hit the AUTORESTART limit. For example, if the port number that is assigned to the ilsd is in use, the process will abend and create abend files each time it tries to restart.

For SaveAbend to work properly, you must have the Inspect product, T9673AAZ or later.