



**Quick Installation Guide Adaptive Server®
Enterprise 15.0.3 for Linux**

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Sybase, Inc., One Sybase Drive, Dublin, CA 94568

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Installation Workflows

Overview the basic process for installing Adaptive Server.

1. Obtain a license - For information on how to do this see the *SySAM Software Asset Manager Users Guide*.
2. Ensure that your system meets the required system requirements.
3. Perform Preinstallation tasks.
4. Perform the installation steps.
5. Perform the postinstallation and configuration tasks.

Adaptive Server Editions

This installation document the installation procedure for editions that are available on the Linux operating system.

- Express Edition
- Developer Edition
- Enterprise Edition Evaluation

Express Edition

Adaptive Server Express Edition for Linux is a free enterprise-class commercial database that can take you from pilot to deployment at no cost, with no risk.

The Express Edition version 15.0.3 is currently offered on these Linux operating systems:

- Linux on POWER
- Linux x86
- Linux x64

The Express Edition has these configuration limitations:

- You can specify only one engine in the max online engines configuration parameter.
- You can configure up to 2GB of maximum memory.
- The total disk space is limited to 5GB.

Developer Edition

Adaptive Server Enterprise Developer Edition is available at a nominal fee, or as a free download on certain platforms, for developers to use to create applications in their development environment.

The Developer Edition is offered on these operating systems:

- Windows x86
- Windows x64
- Linux x86
- Linux x64
- Solaris 64

The Developer Edition includes a full set of Adaptive Server features and options for these configurations:

- Number of engines – 1
- Number of connections – 25

The Developer Edition supports these Adaptive Server options:

- Security and Directory Services
- High Availability

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- Distributed Transaction Management (DTM)
- Partitions
- Encryption

Note: Use the Developer Edition only to develop your applications. Under no circumstances are you allowed to use Enterprise Developer Edition for production purposes.

Enterprise Edition Evaluation

The copy installed from the installation media can be evaluated for a period of 30 days. You can further extend the evaluation for another 150 days term for a total evaluation term of 180 days.

The evaluation copies of Adaptive Server are available for these operating systems:

- Windows x86
- Windows x64
- Linux x86
- Linux x64

The Enterprise Edition Evaluation does not place any limits on configurable Adaptive Server resources (other than the normal Adaptive Server limitations). It includes support for these optional features:

- Security and Directory Services
- High Availability
- Distributed Transaction Management (DTM)
- Partitions
- Encryption

Note: Use an evaluation copy only to evaluate Adaptive Server. Under no circumstances are you allowed to use Adaptive Server Enterprise Evaluation Edition for any commercial or production purposes.

Planning Your Installation

Learn about system requirements and preinstallation tasks.

System Requirements for Servers

Learn about system requirements for installing this release.

Table 1. System requirements for Linux 32-bit and 64-bit systems

Operating system	Hardware	Minimum RAM
Linux x86 Red Hat Enterprise Linux 4.0 update: 4 <ul style="list-style-type: none"> • kernel-2.6.9-55.EL • glibc-2.3.4-2.36 Red Hat Enterprise Linux 5.0 update:1 <ul style="list-style-type: none"> • kernel-2.6.18-53.1.13.el5 • glibc-2.5-18 SuSE Linux Enterprise Server SLES 10 <ul style="list-style-type: none"> • kernel-smp-2.6.16.21-0.8 • glibc-2.4-31.2 	Intel Xeon AMD Opteron	512MB
Linux x64 RedHat Enterprise Linux 4.0 update: 4 <ul style="list-style-type: none"> • kernel-2.6.9-55.EL • glibc-2.3.4-2.36 Red Hat Enterprise Linux 5.0 update:1 <ul style="list-style-type: none"> • kernel-2.6.18-53.1.13.el5 • glibc-2.5-18 SuSE Linux Enterprise Server SLES 10 <ul style="list-style-type: none"> • kernel-smp-2.6.16.21-0.8 • glibc-2.4-31.2 	Intel Xeon EM64T AMD Opteron	512MB
Linux PSeries Red Hat Enterprise Linux 4.0 update: 4 <ul style="list-style-type: none"> • kernel-2.6.9-55.EL • glibc-2.3.4-2.36 • compat-libstdc++-33-3.2.3-47.3 Red Hat Enterprise Linux 5.0 update:1 <ul style="list-style-type: none"> • kernel-2.6.18-53.1.13.el5 • glibc-2.5-18 SuSE Linux Enterprise Server SLES 10 <ul style="list-style-type: none"> • kernel-smp-2.6.16.21-0.8 • glibc-2.4-31.2 	IBM pSeries Server with POWER5 CPU	512MB

Operating system	Hardware	Minimum RAM
	Memory needed for 32-bit x86 systems	
Minimum RAM required for Adaptive Server	96MB	With default stack size, packet size, and user log cache size
Minimum RAM per additional user	Approximately 182KB	
Default user stack size	64KB	
	Memory needed for 64-bit x64 systems	
Minimum RAM required for Adaptive Server	106MB	With default stack size, packet size, and user log cache size
Minimum RAM per additional user	Approximately 233KB	
Default user stack size	86K	
	Memory needed for pSeries systems	
Minimum RAM required for Adaptive Server	127MB	With default stack size, packet size, and user log cache size
Minimum RAM per additional user	Approximately 324KB	
Default user stack size	128K	

Table 2. Disk space requirements for Linux 32-bit platforms

Product	Disk space requirements
Adaptive Server typical installation	861MB
Default databases created during installation	306MB
Total	1167MB

Table 3. Disk space requirements for Linux 64-bit platforms

Product	Disk space requirements
Adaptive Server typical install	923MB
Default databases created during installation	306MB
Total	1229MB

Table 4. Disk space requirements for Linux 64-bit pSeries platforms

Product	Disk space requirements
Adaptive Server typical installation	1225MB
Default databases created during installation	306MB
Total	1531MB

Note: Adaptive Server 15.0.3 supports Pentium and higher chip sets.

If you are running RHEL 5 or higher, use these settings:

- kernel.exec-shield = 0
- kernel.randomize_va_space = 0

These patches are required for GUI components to work properly:

- xorg-x11-libs-6.7.0-2
- openmotif-2.2.3-6

Adaptive Server requires this environment variable:

- For glibc version 2.4, LD_POINTER_GUARD=1
- for glibc version 2.5, LD_POINTER_GUARD=0

Note: Java Runtime Environment (JRE) version 6 is required.

System Requirements for Clients

Learn about system requirements for installing PC-Client.

Table 5. PC-Client system requirements

Operating system	Service pack level
Windows 2003	Service pack 2
Windows XP Professional	Service pack 2
Windows Server 2003 Edition x64	Service pack 2

Note: Java Runtime Environment (JRE) version 6 is required.

Preinstallation tasks

Before installing Adaptive Server, complete the preinstallation tasks for this release.

Preinstallation for a New Installation

The “sybase” user must have permission privileges from the root of the disk partition or operating system directory down to the specific physical device or operating system file.

1. Create a “sybase” account on your system to perform all installation tasks.
2. Log in to the machine as the “sybase” user.

Maintain consistent ownership and privileges for all files and directories. A single user—the Sybase system administrator with read, write, and execute permissions—should perform all installation, upgrade, and setup tasks.

3. Decide where to install the Adaptive Server software. Make sure there is sufficient available disk space. Do not use any spaces in the path name of the directory.
4. Verify that the operating system meets the version level, RAM, and network protocol requirements for your platform.
5. Verify that your network software is configured.

Sybase software uses network software even if Adaptive Server and Sybase client applications are installed on a machine that is not connected to a network.

Ping the host if you are having connection problems, or to verify your network configuration.

6. The operating system shared memory default of most Linux releases is 32MB. The minimum required by Adaptive Server is 64MB for a default server with 2K pages. Increase the amount of shared memory if you plan to increase the total memory of Adaptive Server.

Check and adjust the operating system shared memory parameter.

- To check the current shared memory size, enter:

```
# /sbin/sysctl kernel.shmmax
```
- To adjust the shared memory size, enter the following, where *nnn* is the new size in bytes (at least 64MB which is 67108864 bytes):

```
# /sbin/sysctl -w kernel.shmmax=nnn
```

To guarantee that this value is applied every time the system is started, add this line to your `/etc/rc.d/rc.local` file (`/etc/init.d/boot.local` on SuSE systems).

7. On Linux RHEL Update 3.0 and higher, Adaptive Server version 15.0.3 running on multiple engines requires the security feature Exec-Shield to be disabled. To disable Exec-Shield:
 - Add the following lines in `/etc/sysctl.conf`:

```
kernel.exec-shield=0  
kernel.exec-shield-randomize=0
```
 - As su(super user), enter:

```
/sbin/sysctl -P
```
8. If you are having trouble starting the installer, make sure you have the required operating system patches for the Java Runtime Environment (JRE) version 6.
 - For Linux x86 and x64, use Sun Microsystems JRE 6.
 - For Linux 64 pSeries, use the IBM JRE 6.
9. You must know what product edition you are installing. Your options are:
 - Developer Edition
 - Express Edition
 - Enterprise Edition Evaluation

Preinstallation for an Overlay Installation

Learn how to execute an overlay installation.

1. Verify that your current Adaptive Server is one of the releases prior to the version you are installing. In `isql` enter:

```
1> select @@version  
2> go
```

If your server is not running, enter:

```
$$SYBASE/$SYBASE_ASE/bin/dataserver -v
```

Warning! Your software needs to be at a version lower than the version you are installing prior to applying this EBF.

2. Installing Adaptive Server version 15.0.3 overwrites the current Adaptive Server. Prior to installing Adaptive Server version 15.0.3, make sure that your databases are error free and back up your `%SYBASE%` directory, in case you need to return to the original version of the software.

To ensure that your database is error free, run `dbcc checkdb`, `dbcc checkcatalog` and `dbcc checkstorage` prior to installing any new Adaptive Server binaries including the *master* database.

If any of the dbcc commands reveal problems, stop here and see the *Troubleshooting and Error Messages Guide* for more information.

3. If you are installing Adaptive Server 15.0.3 over an existing Adaptive Server 15.0.x version then, if Java in database feature is enabled, perform the following steps:

- Create the sybpcidb database

The sybpcidb database stores configuration information for the PCI and all PCA components. This database is used by the installpcidb script. For example:

```
1> disk init
2> name = "sybpcidb_dev"
3> physname = "${SYBASE}/data/sybpcidb_dev.dat"
4> size = '24MB'
5> go
1> create database sybpcidb on sybpcidb_dev = 24
2> go
```

The device and database sizes depend on the Adaptive Server pagesize:

- 2k pagesize - 24MB
- 4k pagesize - 48MB
- 8k pagesize - 96MB
- 16k pagesize - 192MB

If you are upgrading from a 15.0.x ASE, disable java feature before the upgrade and enable after the upgrade is complete.

- Disable java feature:

```
1> sp_configure 'enable java', 0
2> go
```

Note: If you plan to use sqlupgrade utility to upgrade from a pre-15.0.x Adaptive Server, do not disable Java in database feature. The sqlupgrade utility will automatically disable and re-enable Java feature.

Installing the Server

Install a fresh installation of Adaptive Server into a clean directory or overlay Adaptive Server 15.0.3 on a previous 15.0.x version of Adaptive Server.

Note: Log in as “sybase” when you perform installation tasks. Do not install Adaptive Server as “root.”

The installer creates the target directory, if necessary, and installs all the selected components into that directory.

At the end of the installation, you can verify the product installation. You might need to perform additional configuration procedures before you can use some products.

As part of the installation, the installer sets up all of the environment variables Adaptive Server products need. To access these environment variables, source `SYBASE.csh` or `SYBASE.sh` script.

Installing the Server with the Sybase Installer

1. Use a GNU utility to extract the file.

If you are downloading files from the Web—

After you download Adaptive Server, extract the contents into an temporary directory, by entering:

```
unzip -d -S .tgz download_file_name.tgz
tar -xf download_file_name.tar
```

If you are installing from a CD—

Insert the Adaptive Server CD into the CD drive.

Change to the CD or installation directory and start the installer by entering:

```
./setup
```

The Welcome window displays. Click Next.

Note: If you are installing Adaptive Server onto an existing Adaptive Server installation, ensure that all Sybase applications are shut down before performing the installation.

2. The Install directory window allows you to select a directory for the installation by clicking Browse. Click Next to accept the default of:

```
/opt/sybase
```

You can also type the directory for installation.

3. You can choose from four types of installations in the Install Type window:

- Typical - Language modules other than English are not installed as part of a typical install. Use Full or Custom to install them.
- Full - Installs all product features.
- Custom - Allows you to choose the products and features you want to install.
- Update - Update existing products/features to current version. This option only exists if you perform an overlay installation to an existing directory.
- If you choose Update, the installer lists the products, versions and features to be updated.

4. After you make your selection, click Next.

5. If you choose a Full, Custom or Typical installation you will be prompted to select the type of product license you want to install. Your choices are:

- Adaptive Server Enterprise for evaluation

- Adaptive Server Enterprise Developer Edition
- Adaptive Server Enterprise Express Edition

Click Next.

6. When the Sybase license agreement selection window displays, select the most appropriate location from the drop-down list, read the license terms, and then click “I agree...” to proceed.

Click Next.

- If you perform an overlay installation, and do not already have a valid SySAM license, a warning message will appear during the installation process.

7. The Product Selection Summary window displays the selections that you made. Verify that you:

- Selected the correct type of installation
- Have enough disk space to complete the process

Click Next to proceed. The Install Progress window shows the progress of the installation.

8. The Install Status window displays the result of the installation process.

9. You have the option to enable or disable the remember password feature in ASE Plug-in. Select yes or no.

Adaptive Server passwords are encrypted and stored on a per-user basis. If for security reasons you do not want ASE Plug-in to store any passwords, you can disable this feature. If you need to change the remember passwords feature settings, go to **Tools | Adaptive Server Enterprise** in Sybase Central. Choose the **Preferences** tab then select or unselect **Remember passwords after connecting to servers**.

10. The Configure New Servers window asks if you want to configure new servers, depending on the products installed.

Select the servers you want to configure at this time and click Next.

To skip the configuration step and end the installation, deselect all servers and click Next.

Note: If you are performing an overlay installation to upgrade an existing Adaptive Server, do not select any servers to configure and click Next to complete the installation.

11. Select the servers you want to custom configure. If you do not select any servers in this window, the installer configures all servers using default values.

If you:

- Choose the default values, the installer chooses everything, including the server name, port number, and master device location. The installer does this for the System Procedure device. It also installs Backup Server, Monitor Server, and the XP Server, choosing the name, port number, and error log.
- Accept the defaults, the server names are:
 - Adaptive Server – *HOST NAME*
 - Backup Server – *HOST NAME_BS*
 - Monitor Server – *HOST NAME_MS*
 - XP Server – *HOST NAME_XP*

To configure servers using the default values, click Next.

12. The Configure Server Attributes Summary window displays a summary of the values that are used to configure the servers. These values are either the default or custom values.

Verify the information, then click Next. The installer proceeds with the server configuration.

The Configure Server Progress window displays the progress of the server configuration.

13. The Installation Complete window is the last window.

Click Next to finish the installation. The installation is complete.

Note: Sybase strongly recommends that you check [the Sybase Web site](#) for software updates.

14. Upon completion of the installation steps you are notified of a successful or failed installation. If you receive an installation failed dialog, follow the messages about where to get help or updates. Once you have fixed the problems you can run through the installation steps again.

If you receive an installation successfully completed message then your installation is complete.

Installing from the Command Line

To run the installer without the graphical user interface (GUI), launch the Installer in console or non-GUI mode.

Add the `-is:javaconsole -console` command to the command line argument.

The flow of the consoles installation is identical to that of a GUI installation, except that the display outputs to a terminal window and responses are entered using the keyboard.

1. Change the default directory to the CD or DVD directory.
2. Run the setup program with the `-is:javaconsole -console` command line argument:

```
setup -is:javaconsole -console
```

Installing in Unattended Mode

To perform a silent installation, run the installer while answering the prompts with a response file.

There are two methods to generate a response file for the installer, either:

- Run the installer in GUI or console mode and record the responses to the response file. You can edit the response file to customize the responses.
- Run the installer and have it write out a template file. The template file contains all of the questions, but no responses. You can use an editor to edit the template file so that it provides responses to the prompts.

The response file invokes the installer, which takes actions based on your recorded or customized responses to the prompts.

1. Change default directory to the CD or DVD.
2. Run the setup program with the `-options-record filename:`

```
./setup -is:javaconsole -options-record <full_path_response_file>
```

3. Run through the installation saving all of the responses.
4. Edit the response file to customize it for your needs.
5. Run the setup program with the `-options filename` and `-silent` command line arguments. Additionally you must include the `-W` argument that indicates that you accept the license agreement.

```
./setup -is:javaconsole -silent -options <full_path_response_file>  
-W SybaseLicense.agreeToLicense=true
```

6. Restart the machine when the silent installation is complete.
7. To generate a template response file, skip step 3 and alter step 2 above to do the following:

```
./setup -is:javaconsole -options-template <full_path_response_file>
```

Note: The value for `-options`, `-options-template`, and `-options-record` must specify an absolute path.

In either case it is possible to custom configure the servers, to select a typical install and use the default configuration values.

Except for the absence of the GUI screens all actions of the Installer are the same and the result of an installation in silent mode is exactly the same as one done in GUI mode with the same responses. Set the following options at the command line level to specify actions to take when installing in silent mode:

- a) `replaceExistingResponse` – stores your response to whether you want to replace a file that currently exists on your system with the one being installed.
- b) `replaceNewerResponse` – stores your response to whether you want to replace a file that currently exists on your system with the one being installed if the existing file is newer than the file being installed.

- c) `removeExistingResponse` – stores your response to whether you want to remove a file that currently exists on your system.
- d) `removeModifiedResponse` – stores your response to whether you want to remove a file that has been modified since installation.

Any of these options can be specified on the command line or within the options file as follows:

```
-G <option>="<value>"
```

Valid values are:

- `yesToAll`
- `yes`
- `noToAll`
- `no`

```
./setup -is:javaconsole  
-silent  
-options <full path response file>  
-W SybaseLicense.agreeToLicense=true  
-G replaceNewerResponse="yesToAll"
```

Uninstalling

Uninstall in GUI or console mode.

1. Run `$SYBASE/uninstall/ASESuite/uninstall`
2. To uninstall in console mode add `-is:javaconsole -console` arguments to the above command.
A welcome screen appears.
3. Select the product or feature to uninstall.
A summary will appear.
4. Click **Uninstall** if the summary is correct.
A successful install message appears when the install is complete.

Postinstallation

Learn about postinstallation steps.

Preinstallation for an Overlay Installation

To install Adaptive Server 15.0.3 over Adaptive Server 15.0.x server, perform these postinstallation tasks.

If you install 15.0.3 over a pre-15.0 Adaptive Server, then you must upgrade the server. The upgrading steps can be found in the "Upgrading Adaptive Server" chapter in the *Installation Guide*.

Note: Before doing any of these tasks, source `SYBASE.csh` or `SYBASE.sh` in `$SYBASE` to set the environment variables.

Running the `installmaster` script

Use `isql` to run the new `installmaster` script included with this release.

Enter:

```
isql -Usa -P<sa password> -S<servername> -n
-i$SYBASE/$SYBASE_ASE/scripts/installmaster
-o<output file>
```

Where:

- `-P` is the password parameter
- `-S` is servername parameter

Save the output to an operating system file.

Note: If you have modified any of the Sybase system stored procedures without changing the names, executing `installmaster` overwrites your modifications. Reload the modified stored procedures after you run the `installmaster` script.

Running the `installcommit` script

If you use two-phase commit or distributed transactions, rerun the `installcommit` SQL script to restore the following stored procedures:

- `sp_start_xact`
- `sp_abort_xact`
- `sp_remove_xact`
- `sp_stat_xact`
- `sp_scan_xact`
- `sp_probe_xac`

Note: If you modified any of these Sybase system stored procedures without changing the names, executing `installcommit` overwrites your modifications. In this case, reload the modified stored procedures after you run `installcommit`.

Using `isql`, run the new `installcommit` script included with this release.

```
isql -Usa -P<sa password> -S<servername> -n
-i$SYBASE/$SYBASE_ASE/scripts/installcommit
-o<output file>
```

Where:

- -P is the password parameter
- -S is servername parameter

Save the output to an operating system file.

Running the `installsecurity` Script

If you use the Sybase auditing feature, rerun the `installsecurity` script. This script reinstalls the following stored procedures:

- `sp_addauditrecord`
- `sp_audit`
- `sp_aux_getsptaud`
- `sp_aux_displaylogaud`
- `sp_aux_displayoptaud`
- `sp_aux_displaysprocaud`
- `sp_aux_displaydbauid`
- `sp_displayaudit`
- `sp_addaudittable`

Note: If you modified any of these Sybase system stored procedures without changing the names, executing `installsecurity` overwrites your modifications. In this case, you must reload the modified stored procedures after you run the `installsecurity` script.

Using `isql`, run the new `installsecurity` script included with this release.

```
isql -U<sa password> -P<sa password> -S<servername> -n  
-i$SYBASE/$SYBASE_ASE/scripts/installsecurity  
-o<output file>
```

Where:

- -P is the password parameter
- -S is servername parameter

Save the output of this step to an operating system file.

Running the `instmsgs.ebf` script

Running the `instmsgs.ebf` script brings your Adaptive Server messages up to the level of this EBF.

Using `isql`, run the new `instmsgs.ebf` script included with this release.

```
isql -U<sa password> -P<sa password> -S<servername> -n  
-i$SYBASE/$SYBASE_ASE/scripts/instmsgs.ebf -o<output file>
```

Where:

- -P is the password parameter
- -S is servername parameter

Save the output of this step to an operating system file.

Running the `installjsdb` Script

Follow these instructions if you installed Adaptive Server with Job Scheduler enabled.

1. Stop Job Scheduler by issuing the following command from an `isql` session:

```
use sybmgmtdb  
go  
sp_js_wakeup "stop_js", 1  
go
```

- Using `isql`, run the `installjsdb` script that is included with this release.

```
isql -Usa -P<sa_password> -S<servername> -n
-i$SYBASE/$SYBASE_ASE/scripts/installjsdb
-o<output file>
```

Where:

- `-P` is the password parameter
- `-S` is servername parameter

Save the output of this step to an operating system file.

- The `installjsdb` script looks for the `sybmgmtdb` database. The script updates Job Scheduler tables and stored procedures.
- Start Job Scheduler by issuing the following commands from an `isql` session:

```
1> use sybmgmtdb
2> go
1> sp_js_wakeup "start_js", 1
2> go
```

Upgrading Job Scheduler Templates

If you installed Adaptive Server with the Job Scheduler feature enabled, Sybase recommends that you upgrade the Job Scheduler Templates.

- Go to the Job Scheduler (JS) template stored procedure directory. For example:

```
cd $SYBASE/ASE-15_0/jobscheduler/Templates/sprocs
```

- Run `installTemplateProcs` by entering:

```
installTemplateProcs <servername> <username> <password>
```

- Move to the JS template XML directory. For example:

```
cd $SYBASE/ASE-15_0/jobscheduler/Templates/xml
```

- Run `installTemplateXML`, by entering:

```
installTemplateXML <servername> <machinename> <serverport> <username>
<password> [<language_code>]
```

Use “en” for the `language_code` or you may omit the parameter completely as “en” is the default.

Running the `installmontables` script

If Monitoring Tables were installed in a previous version of Adaptive Server, then you need to update the table definitions to this version by running the `installmontables` script.

To install the Monitoring Tables, see the “Monitoring Tables” chapter of the *Performance and Tuning Guide*. Using `isql`, run the new `installmontables` script included with this release by entering:

```
isql -Usa -P<sa_password> -S<servername> -n -i$SYBASE/$SYBASE_ASE/scripts/
installmontables -o<output file>
```

Save the output to an operating system file.

Running `installpcidb` script

Run `installpcidb` script if the Java in database functionality was enabled during the installation or upgrade.

If Java in database functionality was not disabled during pre-install, run `installpcidb` script to create tables and stored procedures in the `sybpcidb` database.

In `isql`, run the `installpcidb` script that is included with this release. Save the output of this step to an operating system file.

```
isql -Usa -P<sa_password> -S<server_name>
-i$SYBASE/$SYBASE_ASE/scripts/installpcidb -o<output_file>
```

If you are upgrading a 15.0.x Adaptive Server and disabled Java in database feature before installation, you must enable the Java in database functionality.

```
1> sp_configure 'enable pci', 1
2> go
1> sp_configure 'enable java', 1
2> go
```

You may need to increase the 'max memory' in order to enable these parameters. Configure the maximum size of the PCI Bridge memory pool through the 'pci memory size' configuration parameter. For more information see *Java in Adaptive Server Enterprise for 15.0.3*.

These configuration parameters are static. So you must restart Adaptive Server for these changes to take effect.

Reverting to the previously installed release

You can return all scripts and messages to their former versions.

To revert to the previously installed release, use the back-up copy you created before the upgrade. Perform the steps to run the `installmaster`, `installcommit`, `installsecurity`, and `instmsgs.ebf` scripts located in the back-up. This ensures that all scripts and messages are returned to their former versions.

Configuration tasks

Custom configure your installation.

If you chose not to configure a new server during the installation process you can run `$SYBASE_ASE/bin/srvbuild` to configure a new server. For details on how to use `srvbuild`, see the *Adaptive Server Configuration Guide*.

1. To custom configure servers, select the servers and click **Next**.
2. The Custom Configure Input window prompts you for the following custom Adaptive Server configuration information:
 - Enable PCI (Yes/No)
 - PCI device size (MB)
 - PCI device
 - PCI database size (MB)
 - Server name
 - Port numbers
 - Page size
 - Error log
 - Master device
 - Master device size (MB)
 - Master database size (MB)
 - System procedure device
 - System procedure device size (MB)
 - System procedure database size (MB)
 - System device
 - System device size (MB)
 - System database size (MB)

After you customize the Adaptive Server configuration, click **Next** to record the input fields.

3. The Custom Configure Backup Server Input window prompts you for the Backup Server information.

Enter the appropriate information, then click **Next** to record the information.

4. The Custom Configure Monitor Server Input window prompts you to enter the Monitor Server configuration information.

Enter the appropriate information, then click **Next** to record the information.

5. The Custom Configure XP Server Input window prompts you to enter the XP Server configuration information.

Enter the appropriate information, then click **Next** to record the information.

6. The Configure Server Attributes Summary window displays a summary of the values that are used to configure the servers. These values are either the default or custom values.

Verify the information, then click Next. The installer proceeds with the server configuration.

The Configure Server Progress window displays the progress of the server configuration. The Installation Complete window is the last window.

7. Sybase strongly recommends that you check [the Sybase Web site](#) for software updates.

Click **Next** to finish the installation. The installation is complete.

If you encounter errors, see the *Troubleshooting Guide*.

To configure your Adaptive Server Express Edition, read the *Configuration Guide*.

Note: Sybase strongly recommends that you check [the Sybase Web site](#) for software updates.

Changing default character set, sort order or language

Adaptive Server supports a wide variety of character sets and you can localize error messages to suit your user community.

Adaptive Server is installed with a default character set of iso_1 (ISO 8859-1), a binary sort order, and English as the default language.

Changing the default language

Configure Adaptive Server to deliver messages in a language other than English, install messages for non-English languages and set the default language.

To install, remove, or set default language, character set, and sort order, run `$SYBASE/ASE-15_0/bin/sqlloc` For steps on how to do this, see 15.0.3 *Configuration Guide* for UNIX.

Changing defaults

Complete these steps before adding user data to Adaptive Server.

If your server contains data, follow the procedures outlined in the *System Administration Guide* to save and restore it.

Use the `sqlloc` utility to change the default character set, language, and sort order.

1. Select **Configure Adaptive Server**.
2. Select the Adaptive Server you want to configure.
3. Enter your login and password
4. Click **Language** to set the defaults for character sets, language, and sort orders.
5. Source environment variables file. [`SYBASE.csh` or `SYBASE.sh`]
6. Execute `$SYBASE/ASE-15_0/bin/sqlloc`.

Obtaining Help and Additional Information

Use the Sybase Getting Started CD, SyBooks Online or CD or download, and online help, to learn more about this product release.

- The Getting Started CD (or download) – contains release bulletins and installation guides in PDF format, and also contains other documents or updated information not included on the SyBooks CD.
- The SyBooks CD (or download) – contains product manuals. The Eclipse-based SyBooks browser allows you to access the manuals in an HTML-based format. Some documentation is provided in PDF format, which you can access through the PDF directory on the SyBooks CD. See the *SyBooks Installation Guide* on the Getting Started CD, or the *README.txt* file on the SyBooks CD for instructions about installing and starting SyBooks.
- SyBooks Online at <http://sybooks.sybase.com/> – is an online version of SyBooks that you can access using a standard Web browser. You can browse documents online, or download them as PDFs. In addition to product manuals, the Web site also has links to EBFs/Maintenance, Technical Documents, Case Management, Solved Cases, newsgroups, and other resources.
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