

# Installation and Release Bulletin Full-Text Search Specialty Data Store Version 12.0 for Digital UNIX

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## 1. Accessing Current Installation and Release Bulletin Information

A more recent version of this *Installation and Release Bulletin* may be available on the World Wide Web. To check for critical product or document information added after the release of the product CD, use the Sybase Technical Library Product Manual Web site.

To access release bulletins at the Technical Library Product Manual Web site:

- 1 Go to [support.sybase.com](http://support.sybase.com).

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- 2 Click the Electronic Support Services tab.
- 3 Under the Technical Library heading, choose Product Manuals.
- 4 Choose the appropriate version link.
- 5 In the right-hand window, choose the “platform” collection of the product you are interested in.
- 6 In the right-hand window, choose the release bulletin for your platform.

## 2. Product Summary

Full-Text Search Specialty Data Store version 12.0 for Sybase Adaptive Server Enterprise is compatible with the following platform and operating system configuration:

- Digital UNIX 4.0d

### 2.1 Version Contents

There are two versions of the Full-Text Search Specialty Data Store:

- The Standard version is included with your purchase of Adaptive Server Enterprise.
- The Enhanced version is purchased separately and has additional capabilities.

The information in this *Installation and Release Bulletin* applies to both versions.

## 3. Installation Instructions

This section contains information about unloading Full-Text Search Specialty Data Store from the CD.

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**Note** If you are using Standard Full-Text Search Specialty Data Store, install the software from the Enterprise Data Studio distribution media, and proceed to “Configuring the Full-Text Search Engine” on page 5 of this Release Bulletin.

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### 3.1 Hardware and Software Requirements

To install and use the Full-Text Search Specialty Data Store, you must have one of the following installed:

- Adaptive Server Enterprise version 12.0 or later
- OmniConnect version 12.0 or later

The Full-Text Search Specialty Data Store requires the same operating system and patches that are required by Adaptive Server Enterprise release 12.0.

#### Hardware Requirements

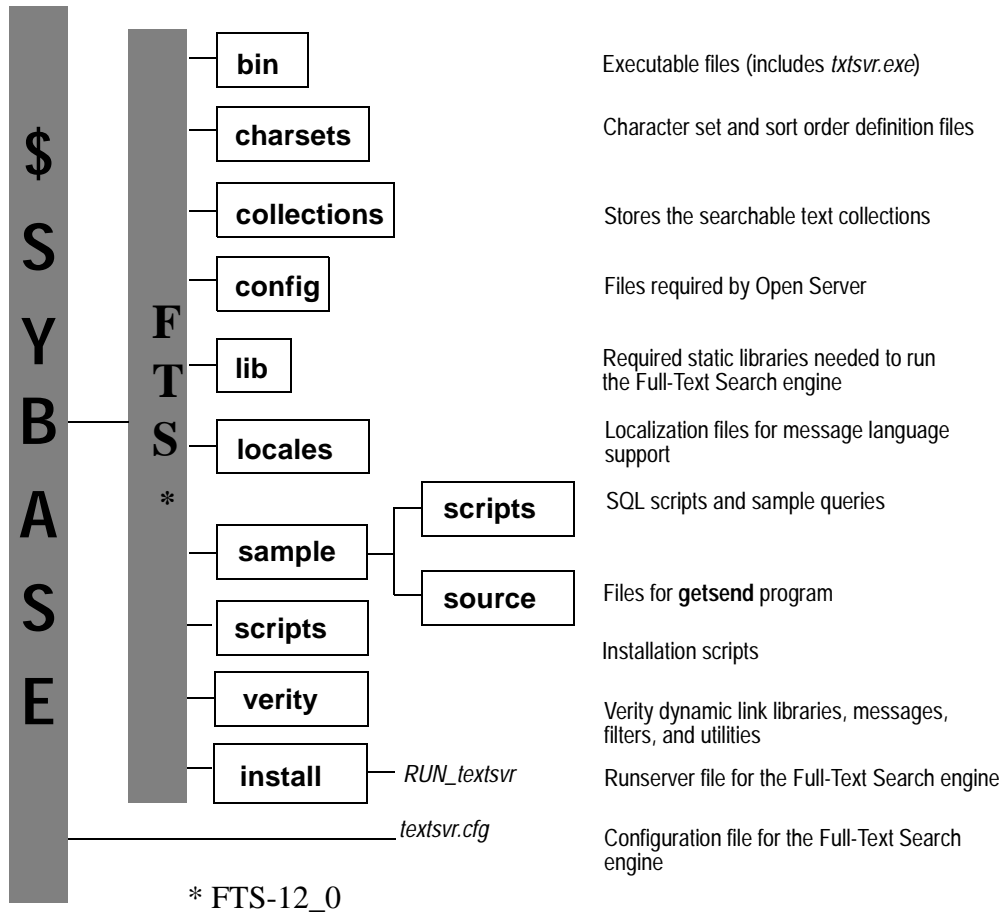
- Minimum of 64MB of RAM
- 100MB of disk space for the Full-Text Search engine and Verity collections
- Twice the amount of space required by the text being indexed (for example, if you have 100MB of text, you need 200MB of space)

### 3.2 Installation Directory Structure

When you unload the Full-Text Search engine from the CD, the *FTS-12\_0* directory containing the Full-Text Search engine is installed in your Sybase installation directory (*\$SYBASE*).

The Full-Text Search engine installation directory is in *\$SYBASE/FTS-12\_0* and has the structure shown in Figure 1.

**Figure 1: Full-Text Search engine installation directory for UNIX platforms**



Note that the *RUN\_textsvr* file is copied to the *\$SYBASE/FTS-12\_0/install* directory and the *textsvr.cfg* file is copied directly to the *\$SYBASE* directory.

### 3.3 Unloading Files from the CD

The Full-Text Search engine is on the Sybase product CD. It must be installed along with Adaptive Server Enterprise as explained in the installation instructions that accompany Adaptive Server Enterprise.

## 4. Configuring the Full-Text Search Engine

This section describes how to configure the Full-Text Search engine. The configuration process includes:

- Setting the SYBASE environment variable
- Using the **srvbuild** utility to:
  - Add an entry to the interfaces file
  - Edit the configuration file
  - Create a runserver file

### 4.1 Setting the SYBASE Environment Variable

If you have not already done so, set the SYBASE environment variable to point to the Sybase installation directory.

### 4.2 Using the *srvbuild* Utility

The Full-Text Search engine should be configured at the same time as Adaptive Server Enterprise. Follow these steps to configure the Full-Text Search engine:

1 Log in as the user “sybase”.

2 Source the SYBASE.sh script file.

```
$ source $SYBASE/SYBASE.sh
```

3 Start the **srvbuild** utility:

```
$SYBASE/ASE-12_0/bin/srvbuild
```

**srvbuild** displays the Select Servers to Build menu.

4 Choose Full-Text Search SDS. **srvbuild** activates the Server Name box. The default server name that displays is the name of the machine on which you installed the Full-Text Search engine.

- 5 Accept the default name or enter a new name in the Server Name box.

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**Note** The Full-Text Search engine is shipped with a default configuration file named *textsvr.cfg*. This file is copied to \$SYBASE when the software is unloaded from the CD. If you do not name the Full-Text Search engine “textsvr”, **srvbuild** creates a configuration file named *server\_name.cfg*. For example, if you enter KRAZYKAT as the name of your Full-Text Search engine, **srvbuild** creates a configuration file named *KRAZYKAT.cfg*.

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- 6 Choose OK. **srvbuild** displays the Server Attribute Editor dialog box, where you select options for the configuration file and the Full-Text Search engine entries for the interfaces file.

Following are the configuration file options—the only option you *must* select is the error log path:

- Error log path – the full path name to the Full-Text Search engine error log file. The default entry for the error log path is *\$SYBASE/install/server\_name.log*.
- Collection directory – the location of the Verity collections. The default location of the collections is *\$SYBASE/FTS-12\_0/collections*.
- Default database – the name of the database that contains the metadata used by the Full-Text Search engine. The default name is *text\_db*. This database is created in Adaptive Server and contains the *vesaux* and *vesauxcol* tables. You are only *naming* the default database at this time; you will create the database itself later, following the instructions in “Running the installtextserver Script” on page 3-3 in the *Full-Text Search Specialty Data Store User’s Guide*.
- Language – the language used by the Full-Text Search engine. The default is *us\_english*. Set the language parameter to the same value as Adaptive Server.
- Character set – the character set used by the Full-Text Search engine. The default is *iso\_1*. The character set parameter should be set to the same value as Adaptive Server.
- Minimum number of sessions – defines the **min\_sessions** parameter, which specifies the minimum number of user sessions for the Full-Text Search engine. The default is 10. For more information about **min\_sessions**, see “min\_sessions and max\_sessions” on page 9-4.

- Maximum number of sessions – defines the **max\_sessions** parameter, which specifies the maximum number of user sessions for the Full-Text Search engine. The default is 100. For more information about **max\_sessions**, see “min\_sessions and max\_sessions” on page 9-4 in the *Full-Text Search Specialty Data Store User’s Guide*.

You can adjust any of these options for a configuration that best suits your site. **srvbuild** lists only the required configuration parameters.

- 7 Edit the interfaces file. Select Transport Type, Host Name, and Port Number:
  - Transport Type – The network interface used by your system. Select tli tcp or tcp spx.
  - Host Name – the name of the machine on which you installed the Full-Text Search engine.
  - Port Number – the port number Adaptive Server uses to connect to the Full-Text Search engine.
- 8 Choose the Build Server! button to build the Full-Text Search engine. **srvbuild** displays the Status Output window, which describes the process of building the Full-Text Search engine. While building the Full-Text Search engine, **srvbuild** creates the runserver and configuration files and also sets the SYBASE and LD\_LIBRARY\_PATH environment variables.
- 9 Exit **srvbuild**.

### 4.3 Starting the Full-Text Search Engine

After **srvbuild** completes, the Full-Text Search engine is running, but is not yet connected to Adaptive Server.

### 4.4 What’s Next

Go to “Configuring Adaptive Server for Full-Text Searches” on page 3-1 in the *Full-Text Search Specialty Data Store User’s Guide* to configure the Adaptive Server to perform full-text searches.

## 5. What’s New in Version 12.0

The following new features were added to Standard Full-Text Search in version 12.0:

- **batch\_blocksize** – A new configuration parameter enables the Full-Text Search engine to retrieve data in the specified chunk sizes of up to 64K.
- **sp\_check\_text\_index** – A new stored procedure for reporting and fixing consistency problems in the Full-Text Search index and source tables.
- **IDENTITY** column size limit increased – In earlier Full-Text Search versions, the **IDENTITY** column of the source table was limited to 10 digits. This restriction has been removed to allow **IDENTITY** column precision up to `numeric(38,0)`.
- **Named pipes** – This version supports named pipes.

## 6. Known Problems

The following sections describe known problems with this version of Full-Text Search Specialty Data Store.

### 6.1 Duplicate **IDENTITY** Column Values

If you execute **sp\_refresh\_text\_index** and **sp\_text\_notify** several times for the same source record, you may create duplicate **IDENTITY** values.

**sp\_check\_text\_index** is a new stored procedure added to this release. It will assist in reporting and fixing consistency problems in the index and source tables.

Your user application should ensure that there are no duplicate **IDENTITY** column values in a Verity collection or index.

### 6.2 Using Multiple *index\_any* Clauses

You use multiple *index\_any* clauses in queries that have search items of more than 255 characters. You cannot join multiple *index\_any* clauses using the **or** keyword. Because of Adaptive Server Bug #140002, **or** clauses are not passed to the Full-Text Search engine. Use the following method to rewrite a query that contains multiple *index\_any* clauses in which one or more clauses are joined by an **or** keyword.

Specify a sequence number as the first word in an *index\_any* clause. This instructs the Full-Text Search engine to concatenate all *index\_any* clauses, based on the sequence number. The format of the sequence number is “*sn*” where *n* is a number greater than 0.

For example, to change this query:



```
select i.score, t.name from index i, table t
where i.id = t.id and
index_any = 'apple <and> orange' OR
index_any = 'kumquat <and> lime'
```

use an **and** clause instead of an **or** clause:

```
select i.score, t.name from index i, table t
where i.id = t.id and
index_any = '<s1>apple <and> orange' AND
index_any = '<s2> <or> kumquat <and> lime'
```

### 6.3 Using Filters

Do not create a text index that contains more than one column, if the text index must use a filter. This causes the Full-Text Search engine to crash during **sp\_create\_text\_index** processing.

### 6.4 Ignoring Error E0-0900

Occasionally, the Full-Text Search engine logs the following error message when using collections that are on NFS-mounted devices:

```
Error E0-0900 (Io): Couldn't delete filespec
```

Ignore this error. The unused files will be deleted the next time the text index is optimized.

## 7. Upgrading from Adaptive Server Enterprise 11.9.2

The following steps describe how to upgrade from release 11.9.2:

- Shut down all servers and install Adaptive Server Enterprise 12.0 and Full-Text Search 12.0.
- Upgrade the Adaptive Server Enterprise following instructions in the *Adaptive Server Enterprise Installation Guide*.
- When configuring the new Full-Text Search server during installation, enter the path to the old collections directory.
- Copy the Full-Text Search configuration file from the old location to the new \$SYBASE.

- Re-run the following installation scripts as outlined for configuring Adaptive Server Enterprise for a Full-Text Search engine shown on page 3-1 of the *Specialty Data Store User's Guide*.:
  - **installtextserver**
  - **installmessages**
  - **installevent**
- Start the server and run **sp\_text\_online** as described on page A-31 of the *Specialty Data Store User's Guide*.

## 8. Technical Support

Each Sybase installation that has purchased a support contract has one or more designated people who are authorized to contact Sybase Technical Support. If you have any questions about this installation or if you need assistance during the installation process, ask the designated person to contact Sybase Technical Support or the Sybase subsidiary in your area.

## 9. Other Sources of Information

Use the Sybase Technical Library CD and the Technical Library Web site to learn more about your product:

- Technical Library CD contains product manuals and technical documents and is included with your software. The DynaText browser (included on the Technical Library CD) allows you to access technical information about your product in an easy-to-use format.

Refer to the *Technical Library Installation Guide* in your documentation package for instructions on installing and starting Technical Library.

- Technical Library Web site includes the Product Manuals site, which is an HTML version of the Technical Library CD that you can access using a standard Web browser. In addition, you'll find links to the Technical Documents Web site (formerly known as Tech Info Library), the Solved Cases page, and Sybase/Powersoft newsgroups.

To access the Technical Library Web site, go to [support.sybase.com](http://support.sybase.com), click the Electronic Support Services tab, and select a link under the Technical Library heading.

## 9.1 Sybase Certifications on the Web

Technical documentation at the Sybase Web site is updated frequently.

For the latest information on product certifications and/or the EBF Rollups:

- 1 Point your Web browser to Technical Documents at the following Web site:  
techinfo.sybase.com
- 2 In the Browse section, click on the Hot entry.
- 3 Explore your area of interest: Hot Docs covering various topics, or Hot Links to Technical News, Certification Reports, Partner Certifications, and so on.

If you are a registered Support**Plus** user:

- 1 Point your Web browser to Technical Documents at the following Web site:  
techinfo.sybase.com

2 In the Browse section, click on the Hot entry.

3 Click on the EBF Rollups entry.

You can research EBFs using Technical Documents, and you can download EBFs using Electronic Software Distribution (ESD).

- 4 Follow the instructions associated with the Support**Plus**<sup>SM</sup> Online Services entries.

If you are not a registered Support**Plus** user and you want to become one:

You can register by following the instructions on the Web.

To use Support**Plus**, you need:

- A Web browser that supports the Secure Sockets Layer (SSL), such as Netscape Navigator 1.2 or later
- An active support license
- A named technical support contact
- Your user ID and password

Whether or not you are a registered Support**Plus** user:

You can use Sybase's Technical Documents. Certification Reports are among the features documented at this site.

- 1 Point your Web browser to Technical Documents at the following Web site:

techinfo.sybase.com

2 In the Browse section, click on the Hot entry.

- 3 Click on the topic that interests you.