

# Installation and Release Bulletin Full-Text Search Specialty Data Store Version 12.0 for Windows NT

74006-01-1200-01

October, 1999

Table of Contents	Page
1. Accessing Current Installation and Release Bulletin Information	1
2. Product Summary	2
3. Installation Instructions	2
4. Configuring the Full-Text Search Engine	5
5. What's New in Version 12.0	8
6. Known Problems	8
7. Upgrading from Adaptive Server Enterprise 11.9.2	10
8. Technical Support	10
9. Other Sources of Information	11

## 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).

Copyright 1989-1999 by Sybase, Inc. All rights reserved. Sybase, the Sybase logo, Data Workbench, InfoMaker, PowerBuilder, Powersoft, SQL Advantage, SQL Debug, Transact-SQL, Adaptive Server, Adaptive Server Anywhere, Adaptive Server Enterprise, Adaptive Server Enterprise Monitor, AnswerBase, Backup Server, ClearConnect, Client-Library, DB-Library, dbQueue, DirectConnect, Distribution Agent, Embedded SQL, Enterprise Client/Server, Enterprise Connect, InformationConnect, KnowledgeBase, MainframeConnect, MAP, Net-Gateway, NetImpact, Net-Library, ObjectConnect, OmniConnect, OmniSQL Access Module, Open Client, Open ClientConnect, Open Client/Server, Open Gateway, Open Server, Open ServerConnect, PC DB-Net, PowerDesigner, Replication Agent, Replication Driver, Replication Server, Replication Server Manager, RW-Library, Secure SQL Server, Security Guardian, SQL Anywhere, SQL Remote, SQL Server, SQL Server Manager, SQL Toolset, Sybase Central, Sybase IQ, Sybase SQL Desktop, Sybase SQL Workgroup, SyBooks, System 10, System 11, Watcom SQL, Web.SQL, WorkGroup SQL Server, XA-Library, XA-Server, and XP Server are trademarks of Sybase, Inc. Other product names used herein may be trademarks or registered trademarks of Sybase or other companies. 1/99

- 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 Enterprise is compatible with the following platform and operating system configuration:

- Microsoft Windows NT 4.0 service pack #3

### 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 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.

---

**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.

---

### 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 Enterprise release 12.0.

#### Hardware Requirements

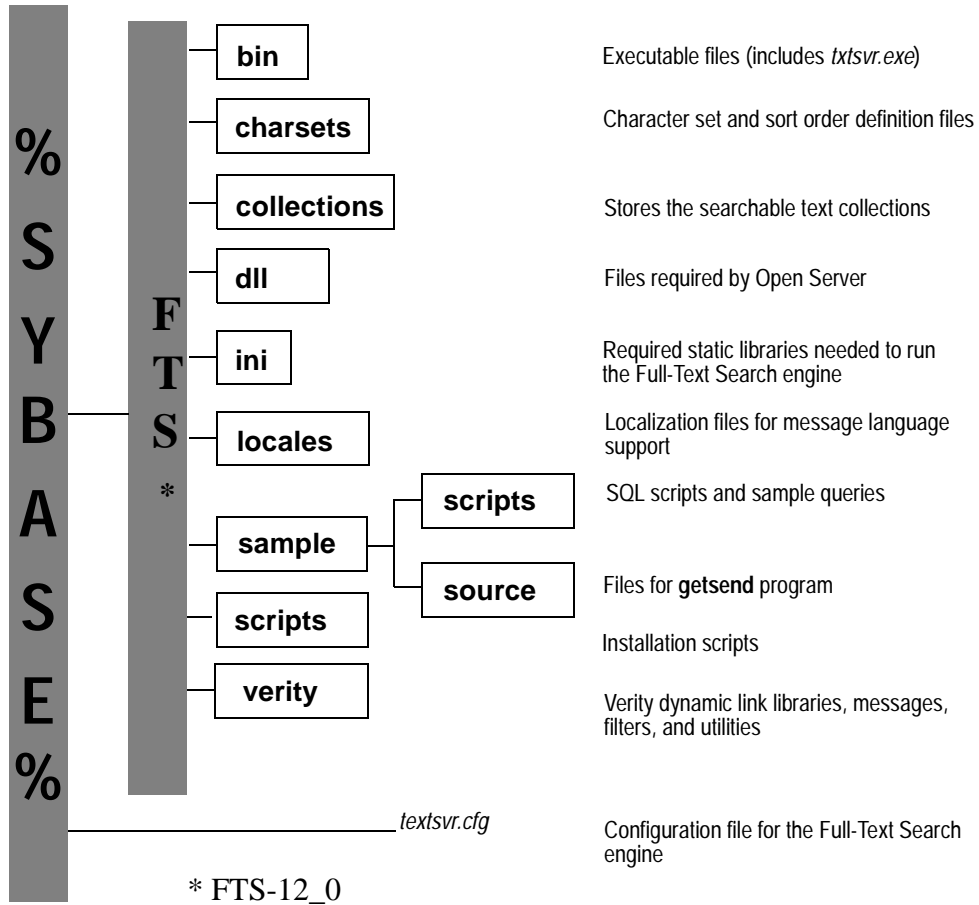
- Minimum of 64MB of RAM
- 100MB of disk space for the Full-Text Search engine and Verity collections
- Twice the amount of space required by the text being indexed (for example, if you have 100MB of text, you need 200MB of space)

### 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
- Adding the Full-Text Search engine to the PATH environment variable
- Adding entries to the interfaces file
- Editing parameters in the configuration file
- Starting the Full-Text Search engine

### 4.1 Setting the SYBASE Environment Variable

Check to be sure the SYBASE environment variable points to the Sybase installation directory.

### 4.2 Adding a Line to the PATH Environment Variable

The Full-Text Search engine includes libraries that enable it to connect to Adaptive Server Enterprise. Check to be sure the following line is in your PATH environment variable:

```
%SYBASE%\FTS-12_0\dll
```

### 4.3 Adding Entries to the Interfaces File

Use the **dsedit** utility to add entries to the interfaces file. Adaptive Server Enterprise uses the interfaces file to define connection information for servers and clients. Follow the steps below to use **dsedit**:

- 1 Start **dsedit** in one of the following ways:
  - Start the Windows NT Explorer and move to the `%SYBASE%\FTS-12_0\bin` directory. Double-click on `dsedit.exe`.
  - Move to the `%SYBASE%\FTS-12_0\bin` directory. At the command line, enter:

```
dsedit
```

**dsedit** displays the Select Directory Services dialog box.

- 2 Make sure that **dsedit** is pointing to the correct configuration file. The default is %SYBASE%\FTS-12\_0\ini\libtcl.cfg. If your configuration file is in another directory, change this setting.
- 3 In the DS Name list box, highlight the directory service you want to open, and choose OK.

**dsedit** displays the Interfaces Driver dialog box. Table 1 describes the attributes.

**Table 1: Default attributes in dsedit**

Attribute	Value	Description
Server Entry Version	1	Can be any positive integer value and can be set to indicate the software version of Adaptive Server Enterprise (this attribute works only if you use the NT Registry Directory Services).
Server Name	<i>server_name</i>	The name of the Full-Text Search engine.
Server Status	4 Unknown	Indicates the state of the Full-Text Search engine (active, stopped, failed, or unknown, including a corresponding number).
Server Address	User configures	Connection information for the Full-Text Search engine.

- 4 From the Server Object drop-down list, choose Add. **dsedit** displays the Input Server Name dialog box.
- 5 Enter the name of the Full-Text Search engine in the Server Name box, and choose OK.

---

**Note** The Full-Text Search engine uses the server name “textsvr” as the default name in installation scripts and sample files. If you use Sybase Central to start the Full-Text Search engine, Sybase recommends you add the extension “\_TS” to your server name. For example, “TEXTSVR\_TS”.

---

**dsedit** returns to the Interfaces Driver dialog box, which displays the values for Server Entry Version, Server Name, and Server Status.

- 6 In the Interfaces Driver dialog box, double-click Server Address. **dsedit** displays the Network Address Attribute dialog box.
- 7 Choose Add. **dsedit** displays the Input Network Address for Protocol dialog box.

- 8 In the Protocol entry box, enter the network protocol “NLMSNMP” (Named Pipes) or “NLWNSCK” (Winsock). These are the only valid values for the Full-Text Search engine.  
**dsedit** displays the Network Address dialog box.
- 9 Enter the network address information, and choose OK.  
**dsedit** returns to the Network Address Attribute dialog box and displays the new network connection information.
- 10 Choose OK to return to the Interfaces Driver dialog box.

## 4.4 Editing Parameters in the Configuration File

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 your Full-Text Search engine is not named “textsvr”, you must rename the configuration file and change the Full-Text Search engine’s name in the configuration file.

### 4.4.1 Renaming the *textsvr.cfg* File

The format for the configuration file name is *server\_name.cfg*, where *server\_name* is the name of the Full-Text Search engine you are installing. If your Full-Text Search engine is not named “textsvr”, make a copy of the sample configuration file using the name of the Full-Text Search engine as the prefix. For example, if the Full-Text Search engine is named KRAZYKAT, the configuration file name is *KRAZYKAT.cfg*.

### 4.4.2 Renaming the Full-Text Search Engine in the Configuration File

The configuration file names the Full-Text Search engine as the first entry in the values section of the file. It looks like this:

```
[textsvr]
```

Change the name to the name of your Full-Text Search engine. For example, if you named your Full-Text Search engine KRAZYKAT, edit the configuration file to read:

[ KRAZYKAT ]

---

**Note** The *textsvr.cfg* file is shipped with the default parameters listed but commented out. If necessary, you can alter these defaults in the configuration file for your Full-Text Search engine to suit the needs of your site.

---

## 4.5 Starting the Full-Text Search Engine

You must start the Full-Text Search engine before you can continue the configuration. For instructions, see “Starting the Full-Text Search Engine on Windows NT” in the *Full-Text Search Specialty Data Store User’s Guide*.

## 4.6 What’s Next

Go to “Configuring Adaptive Server for Full-Text Searches” in the *Full-Text Search Specialty Data Store User’s Guide* to configure the Adaptive Server Enterprise 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 Enterprise 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](http://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](http://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).

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

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

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](http://techinfo.sybase.com)
- 2 In the Browse section, click on the Hot entry.
- 3 Click on the topic that interests you.