

WebFOCUS

WebFOCUS Narrative Charts
Installation and Configuration
Release 8.2 Version 03

April 13, 2018

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Preface

This content describes how to install WebFOCUS Narrative Charts on Windows and Linux environments.

How This Manual Is Organized

This manual includes the following chapters:

Chapter/Appendix		Contents
1	WebFOCUS Narrative Charts	Describes Natural language generation (NLG) and the WebFOCUS Narrative Charts analytics option.
2	Installing WebFOCUS Narrative Charts on a Windows Environment	Provides the step-by-step instructions that you need to install WebFOCUS Narrative Charts on a Windows environment.
3	Installing WebFOCUS Narrative Charts on a Linux Environment	Provides the step-by-step instructions that you need to install WebFOCUS Narrative Charts on a Linux environment.

Conventions

The following table describes the conventions that are used in this manual.

Convention	Description
THIS TYPEFACE or <i>this typeface</i>	Denotes syntax that you must enter exactly as shown.
<i>this typeface</i>	Represents a placeholder (or variable) in syntax for a value that you or the system must supply.
<u>underscore</u>	Indicates a default setting.
<i>this typeface</i>	Represents a placeholder (or variable), a cross-reference, or an important term. It may also indicate a button, menu item, or dialog box option that you can click or select.
Key + Key	Indicates keys that you must press simultaneously.

Convention	Description
{ }	Indicates two or three choices. Type one of them, not the braces.
[]	Indicates a group of optional parameters. None are required, but you may select one of them. Type only the parameter in the brackets, not the brackets.
	Separates mutually exclusive choices in syntax. Type one of them, not the symbol.
...	Indicates that you can enter a parameter multiple times. Type only the parameter, not the ellipsis (...).
.	Indicates that there are (or could be) intervening or additional commands.

Related Publications

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Customer Support

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To learn about the full range of available support services, ask your Information Builders representative about InfoResponse Online, or call (800) 969-INFO.

Information You Should Have

To help our consultants answer your questions effectively, be prepared to provide the following information when you call:

- ☐ Your six-digit site code (xxxx.xx).
- ☐ Your WebFOCUS configuration:
 - ☐ The front-end software you are using, including vendor and release.
 - ☐ The communications protocol (for example, TCP/IP or HLLAPI), including vendor and release.
 - ☐ The software release.
 - ☐ Your server version and release. You can find this information using the Version option in the Web Console.
- ☐ The stored procedure (preferably with line numbers) or SQL statements being used in server access.
- ☐ The Master File and Access File.
- ☐ The exact nature of the problem:
 - ☐ Are the results or the format incorrect? Are the text or calculations missing or misplaced?
 - ☐ Provide the error message and return code, if applicable.
 - ☐ Is this related to any other problem?
- ☐ Has the procedure or query ever worked in its present form? Has it been changed recently? How often does the problem occur?
- ☐ What release of the operating system are you using? Has it, your security system, communications protocol, or front-end software changed?

- ☐ Is this problem reproducible? If so, how?
- ☐ Have you tried to reproduce your problem in the simplest form possible? For example, if you are having problems joining two data sources, have you tried executing a query containing just the code to access the data source?
- ☐ Do you have a trace file?
- ☐ How is the problem affecting your business? Is it halting development or production? Do you just have questions about functionality or documentation?

User Feedback

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Thank you, in advance, for your comments.

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WebFOCUS Narrative Charts

Natural language generation (NLG) is a subfield of artificial intelligence (AI), which produces language as output on the basis of data input.

NLG quickly helps you get to an easily understandable explanation of report or chart output, especially where multiple dimensions and measures are involved. The narrative produced immediately adds value to data by identifying the most relevant information and conveying it through professional, conversational language. The result is intelligent narratives that efficiently communicate the insights in data that people can comprehend, act on, and trust.

The WebFOCUS Narrative Charts technology is highly configurable, enabling companies to set the appropriate level of analysis and detail based upon user and data requirements.

The WebFOCUS Narrative Charts installation provides the technology needed to analyze data sourced from a wide variety of sources, and by passing the data through algorithms and configurable settings, the result is an automatically generated professionally written narrative.

In this chapter:

- ☐ [Natural Language Increases Value and Accessibility to Analytics](#)
-

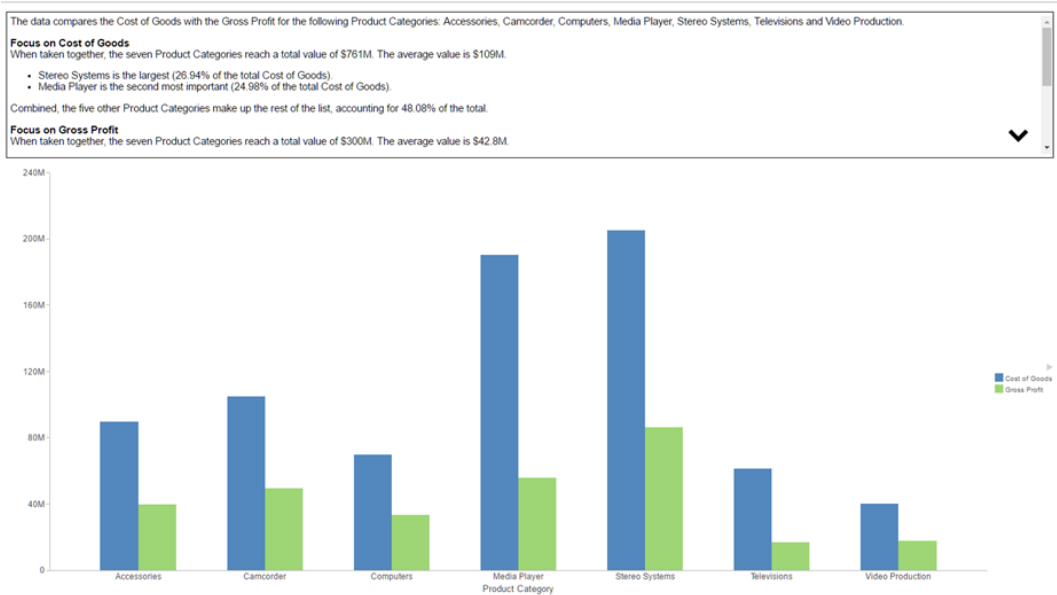
Natural Language Increases Value and Accessibility to Analytics

WebFOCUS includes an analytics option that leverages natural language, in the form of WebFOCUS Narrative Charts. The feature automatically translates charts into a narrative, explaining in everyday English what is happening in the data.

Narrative Charts is integrated into WebFOCUS as a charting option. This provides an NLG analytics delivery capability to a wide variety of users.

Narrative Chart Example

The following image is an example of a chart created inside InfoAssist with narrative above the chart.



Installing WebFOCUS Narrative Charts on a Windows Environment

This topic provides the step-by-step instructions that you need to install WebFOCUS Narrative Charts on a Windows environment.

You can begin using WebFOCUS Narrative Charts immediately after you install the product. No additional configuration steps are required.

In this chapter:

- ☐ [WebFOCUS Narrative Charts Requirements for Windows](#)
 - ☐ [Installing WebFOCUS Narrative Charts](#)
 - ☐ [Starting WebFOCUS Narrative Charts Manually](#)
 - ☐ [WebFOCUS Narrative Charts Directory Structure](#)
 - ☐ [Uninstalling WebFOCUS Narrative Charts](#)
 - ☐ [Verifying WebFOCUS Narrative Charts](#)
 - ☐ [Changing the Administrator User ID and Password](#)
-

WebFOCUS Narrative Charts Requirements for Windows

To install WebFOCUS Narrative Charts, you must have administrator privileges. Additionally, your machine must meet the system requirements that are defined in the Hardware Requirements and Software Requirements topics.

Hardware Requirements

- ☐ Quad-core processor, 2.5 GHz minimum per core is recommended.
- ☐ 8 GB of RAM or higher is recommended.
- ☐ 10 GB of free disk space.

Software Requirements

- ☐ Windows 10, 8.1, 7, Windows 2012, 2012 R2, or 2008 R2 Service Pack 1 Server editions.
- ☐ 64-bit Version of Windows.

Installing WebFOCUS Narrative Charts

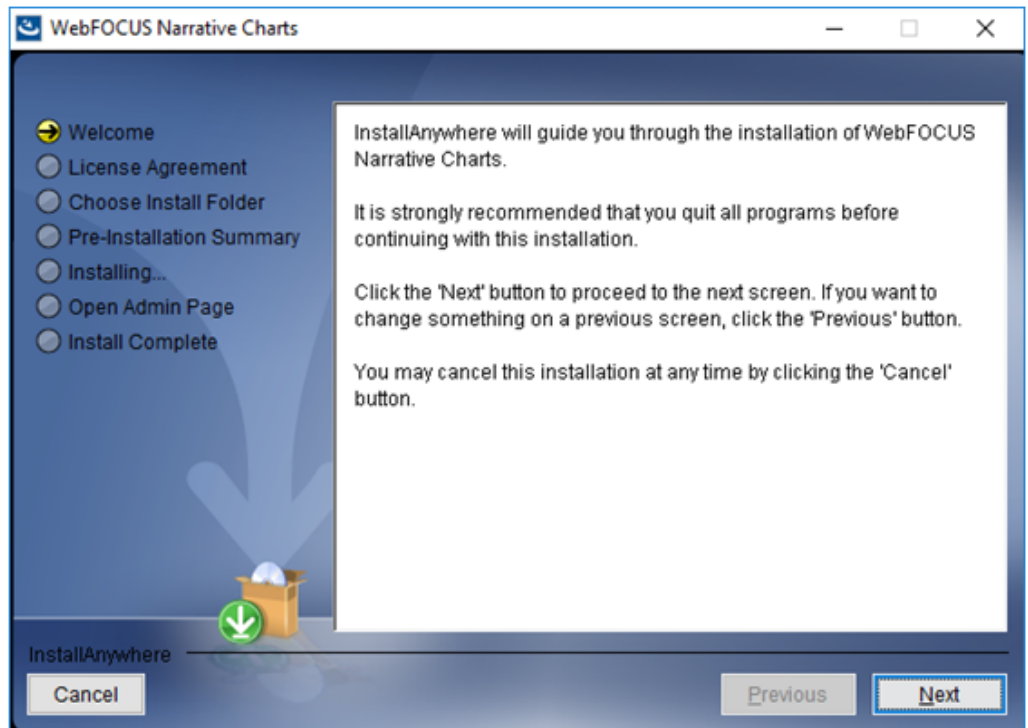
This section describes how to install WebFOCUS Narrative Charts.

Note: Only one WebFOCUS Narrative Charts installation per platform is supported. Multiple installations are not permitted.

Procedure: How to Install WebFOCUS Narrative Charts

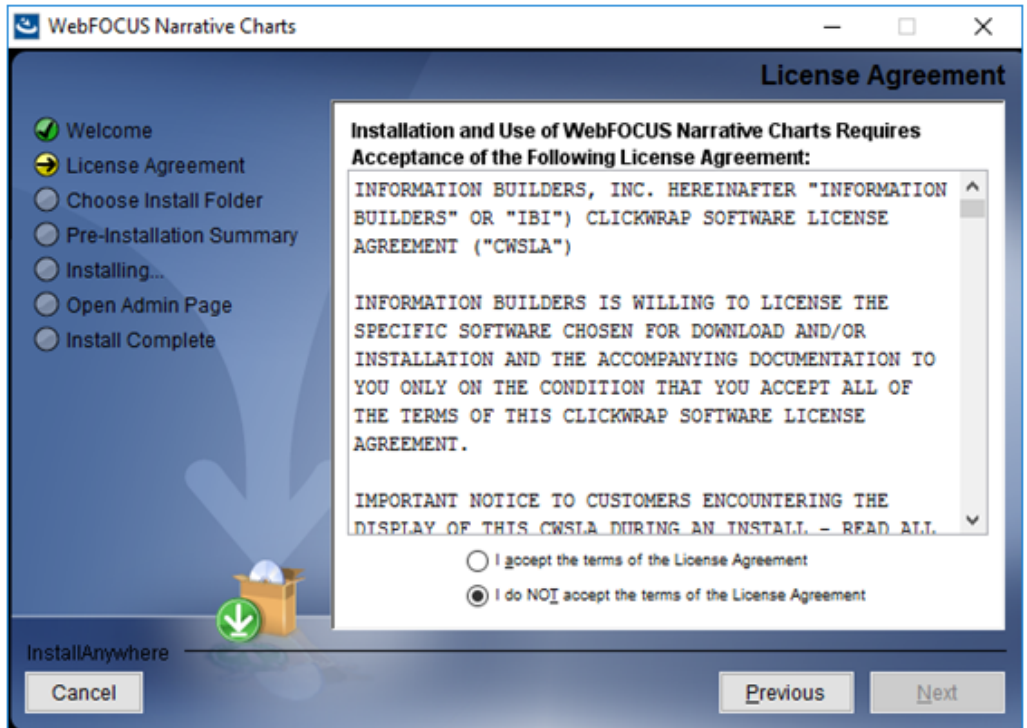
1. Download the installation files.
2. Double-click `wfnc_install.exe`.

The InstallAnywhere installation program opens. After the files are extracted for the installation, the Welcome dialog box opens, as shown in the following image.



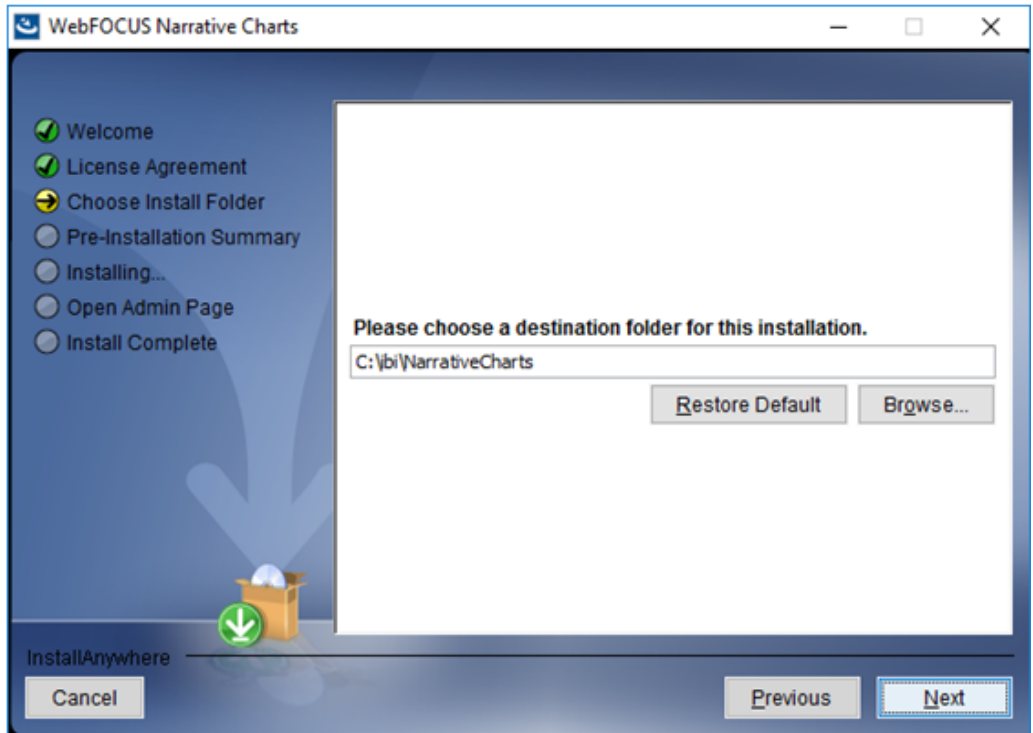
3. Click *Next* to continue.

The License Agreement window opens, as shown in the following image.



4. Click *I accept the terms of the License Agreement*, and then click *Next*.

The Choose Install Folder dialog box opens, as shown in the following image.



5. On the Choose Install Folder dialog box, choose the default destination folder or browse to the root folder in which to install the software.

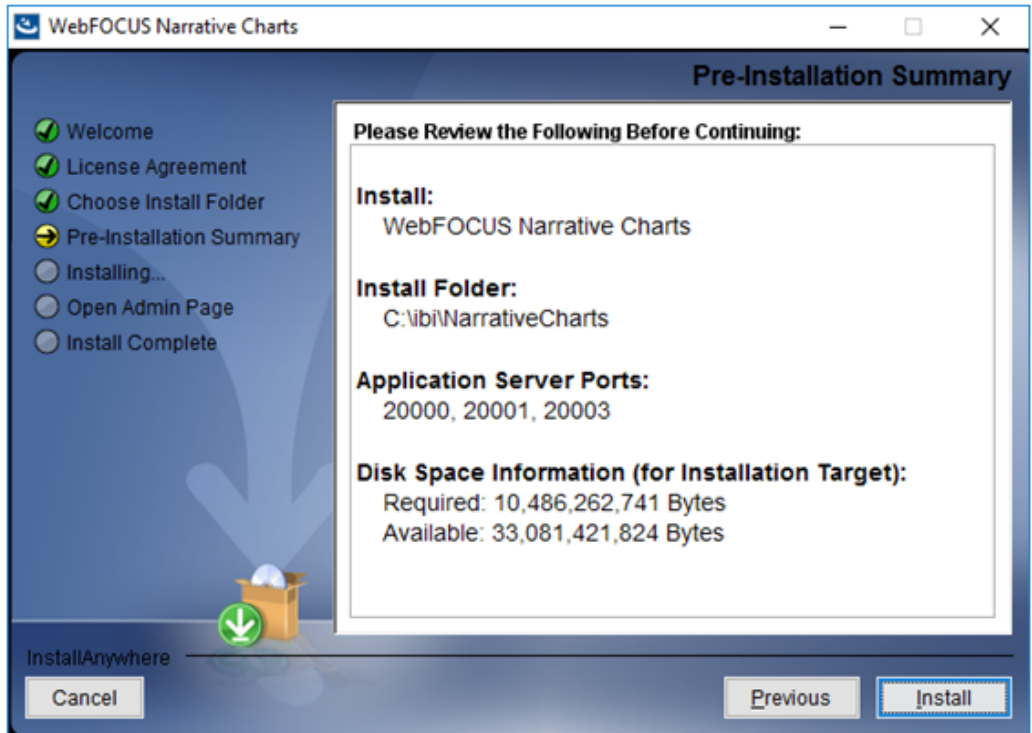
Note:

- ☐ The folder name cannot contain spaces.
- ☐ The folder name *NarrativeCharts* cannot be changed.
- ☐ The product is installed under the *ibi* parent folder, for example C:\ibi.
- ☐ The only customization allowed is the location of the parent folder, for example, you can install the product under:

C:\MyPrograms\ibi

6. Click *Next* to continue.

The Pre-Installation Summary dialog box opens, as shown in the following image.



7. Confirm that the summary information is correct, and then click *Install*.

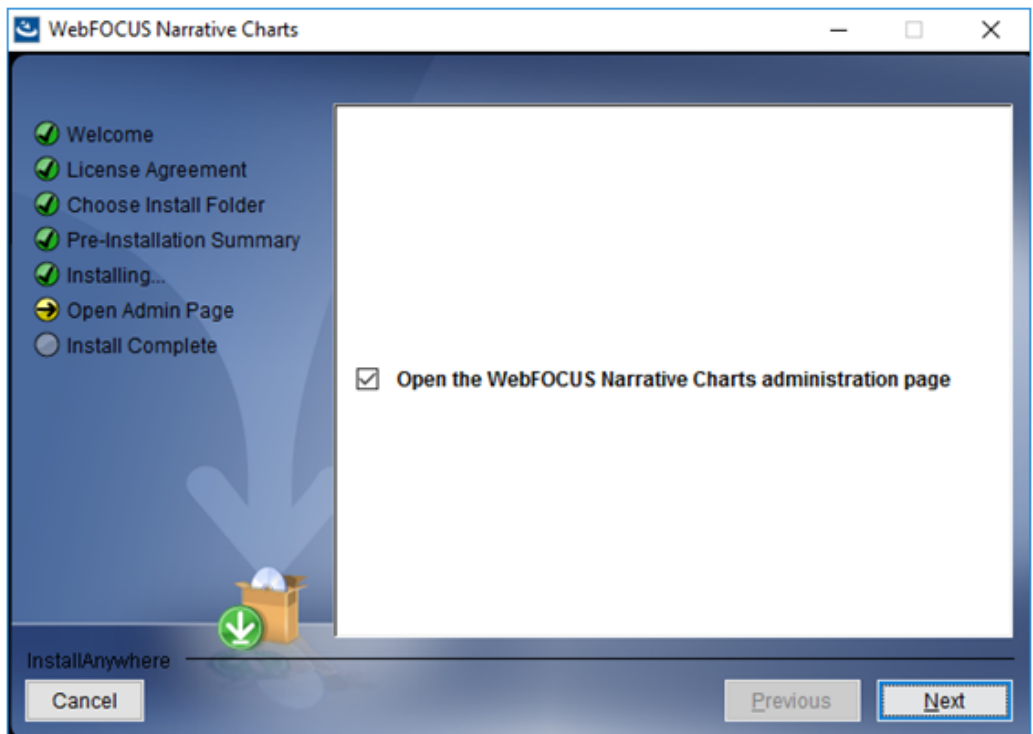
Note:

- ☐ The product may be configured to use different application server ports than shown in the image. Keep track of these port numbers for reference.
- ☐ The installation will not proceed if the required space (10 GB) is not available.
- ☐ The installation program installs and configures all required files under the following folder:
 `drive:\ibi\NarrativeCharts`
- ☐ Java Version 8 Update 102 (8u102) and Tomcat 8.0.36 are included with the WebFOCUS Narrative Charts product installation.

Tomcat Memory Allocation

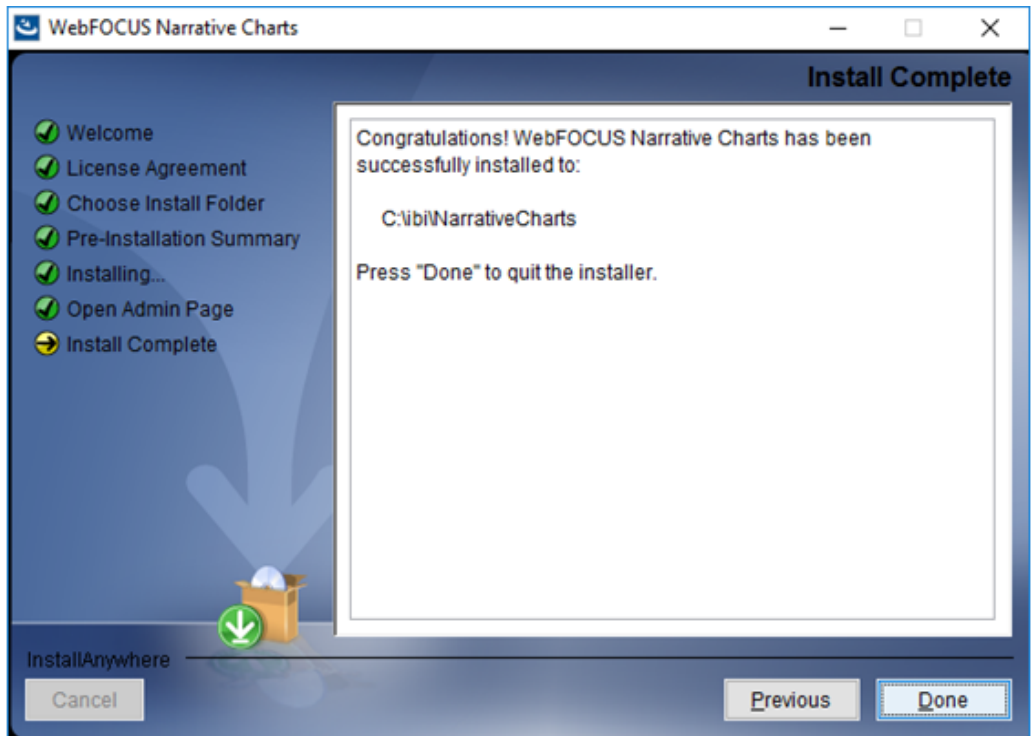
- ❑ The Tomcat initial memory pool size (JvmmS) is configured to use 1/8 of the physical memory of the machine. For example, on a machine with 16 GB RAM, the pool size is set to 2130. The maximum memory pool size (JvmmX) is configured to use 1/4 of the physical memory of the machine. For example, on a machine with 16 GB RAM, the pool size is set to 4261.
- ❑ You can change the Java memory allocation by running the WfNarrativeChartsw.exe Tomcat configuration utility, located in the *drive:\ibi\NarrativeCharts\tomcat\bin* folder, and selecting the *Java* tab.

The Open Admin Page dialog box opens, as shown in the following image.



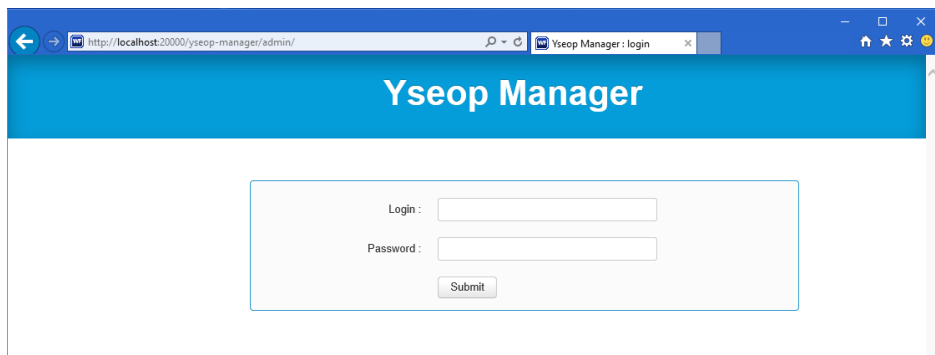
If you select the *Open the WebFOCUS Narrative Charts administration page* check box, the browser page for the Yseop Manager opens at the end of the installation. The Launch WebFOCUS Narrative Charts check box is selected, by default.

8. When the installation completes, the Install Complete dialog box opens, as shown in the following image.



9. Click *Done* to close the installation program.

If you selected the *Launch WebFOCUS Narrative Charts* check box on the Choose Install Folder dialog box, the browser page for the Yseop Manager opens at the end of the installation, as shown in the following image.



10. Sign in using the default credentials:

- ☐ User ID: admin
- ☐ Password: admin

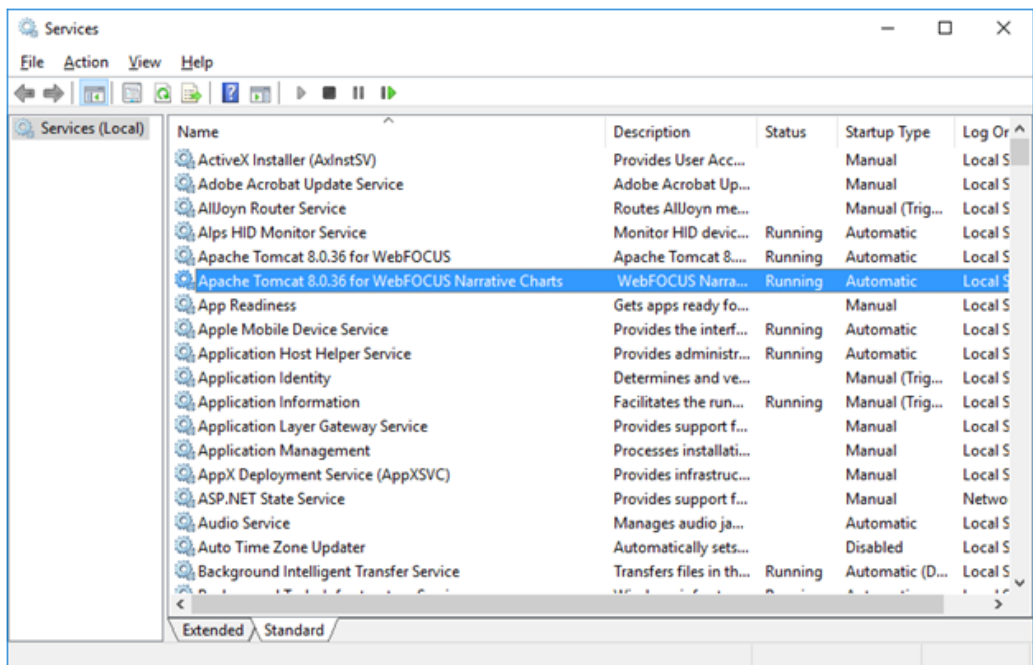
11. Click *Submit*.

Starting WebFOCUS Narrative Charts Manually

The installation program installs the following service based on the Tomcat installation, which is used to run WebFOCUS Narrative Charts:

- ☐ Apache Tomcat 8.0.36 for WebFOCUS Narrative Charts

To view the status of this service, launch your Windows Services program from the Control Panel and click the *Standard* tab. The following image highlights the WebFOCUS Narrative Charts service as it appears in the Windows Services program.



Ensure that the Apache Tomcat 8.0.36 for WebFOCUS Narrative Charts is running.

Display name	Service Name
Apache Tomcat 8.0.36 for WebFOCUS Narrative Charts	WfNarrativeCharts

WebFOCUS Narrative Charts Directory Structure

After installation, the WebFOCUS Narrative Charts directory structure is created.

WebFOCUS Narrative Charts Directories

The default location for WebFOCUS Narrative Charts directories is:

`drive:\jbi\NarrativeCharts`

The NarrativeCharts directory contains the following subdirectories:

`config`

Contains installation information.

`deploy`

Contains the files created during deployment of the Knowledge Base.

`jre`

Contains Java bundled with WebFOCUS Narrative Charts.

`kb`

Contains the Yseop Manager Knowledge Base files.

`tomcat`

Contains Tomcat application files. bundled with WebFOCUS Narrative Charts.

`Uninstall`

Contains files used by the uninstall program.

`utilities`

Contains the shortcuts that are used to launch the Administration page.

`yseop-engine`

Contains the Yseop Engine software.

`yseop-manager`

Contains the Yseop Manager software.

Uninstalling WebFOCUS Narrative Charts

If you want to remove an existing WebFOCUS Narrative Charts installation and want to perform a full installation of a newer release, you can run the uninstall program.

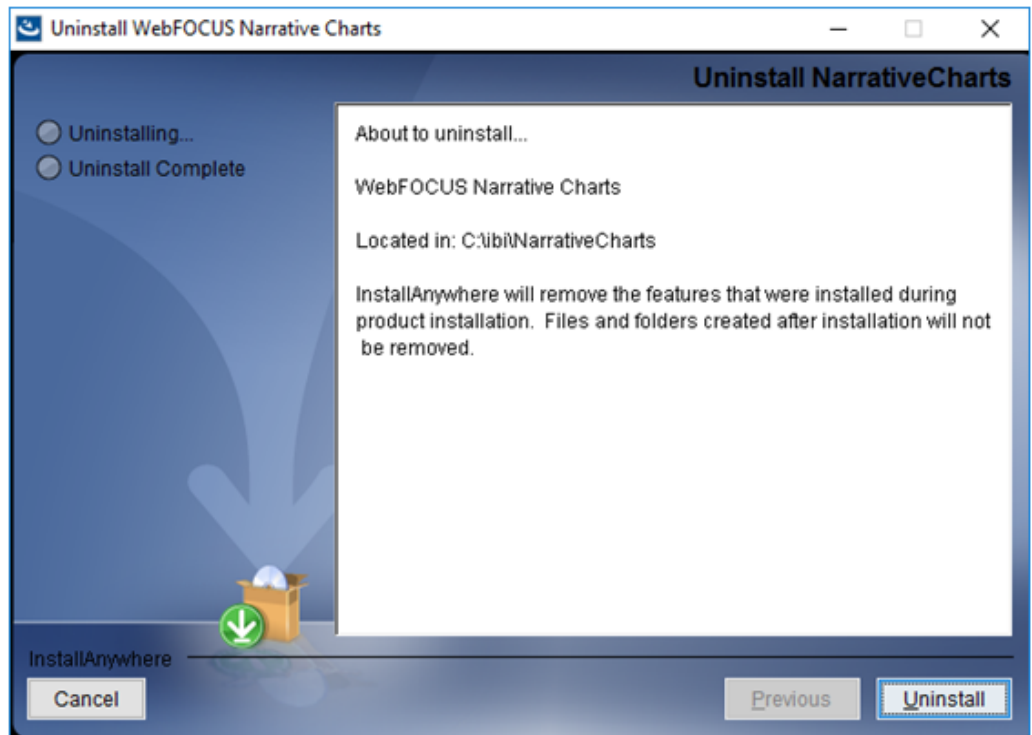
Procedure: How to Uninstall WebFOCUS Narrative Charts

1. From the Start menu, navigate to the Uninstall shortcut, under the Information Builders program group.
2. Click *Uninstall*.

The InstallAnywhere installation program opens.

Note: If the uninstall program is not visible from the Windows Start menu, uninstall the software using the Programs and Features option on the Control Panel. Alternatively, create a shortcut to C:\ProgramData\Microsoft\Windows\Start Menu\Programs. This will open Windows Explorer with a classic view of all installed programs. You can use this to navigate to WebFOCUS Narrative Charts in the Information Builders folder, and then run the uninstall program.

3. In the Uninstall WebFOCUS Narrative Charts dialog box, click *Uninstall*, as shown in the following image.



The installation program begins and uninstalls the WebFOCUS Narrative Charts components.

4. When the uninstall completes, click *Done*.

Verifying WebFOCUS Narrative Charts

To verify WebFOCUS Narrative Charts, ensure that:

- ☐ Tomcat is running.
- ☐ The Yseop Manager web application is running.
- ☐ The Knowledge Base is loaded.

Procedure: How to Verify WebFOCUS Narrative Charts

1. Ensure that the Yseop Manager web application is running using the following URL:

<http://localhost:20000/yseop-manager>

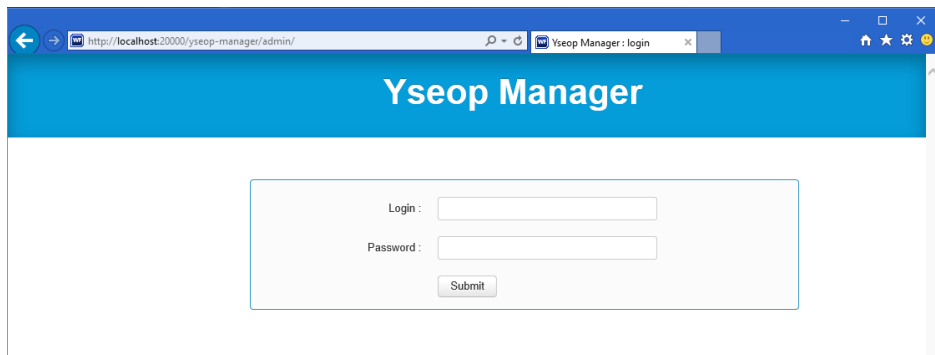
Note: The product may be configured to use a different port, if port 20000 is already assigned at the time of installation. The Program Group shortcut *Launch WebFOCUS Narrative Charts* will be updated with the correct port used by the installation.

The Yseop Manager web application opens.

2. Navigate to the Yseop Manager Administrator page using the following URL:

<http://localhost:20000/yseop-manager/admin/>

The Yseop Manager Administrator page opens, as shown in the following image.

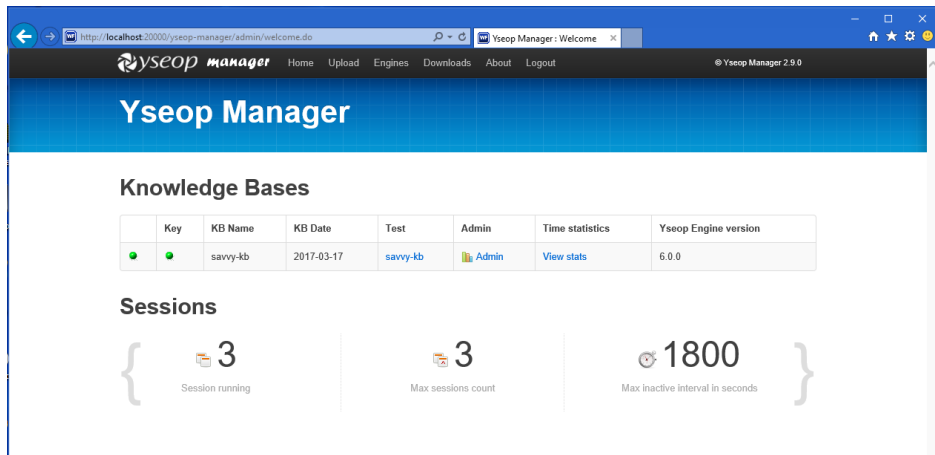


3. Sign in using the default credentials:

☐ User ID: admin

☐ Password: admin

The Yseop Manager Administrator Knowledge Bases dialog box opens, as shown in the following image.



4. Click the [savvy-kb](#) link to test the Knowledge Base.

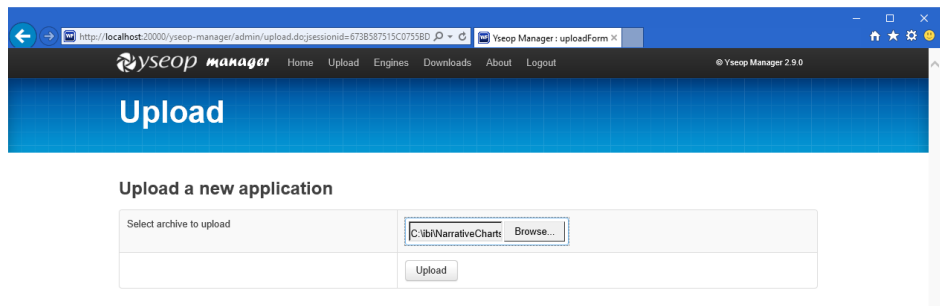
Note: If the [savvy-kb](#) link is not available, you need to perform the following steps to manually deploy the Knowledge Base.

- a. From the Yseop Manager Administrator page (<http://localhost:20000/yseop-manager/admin/>), click the *Upload* link.
- b. Browse to the location where the *savvy-kb-latest.zip* file is located.

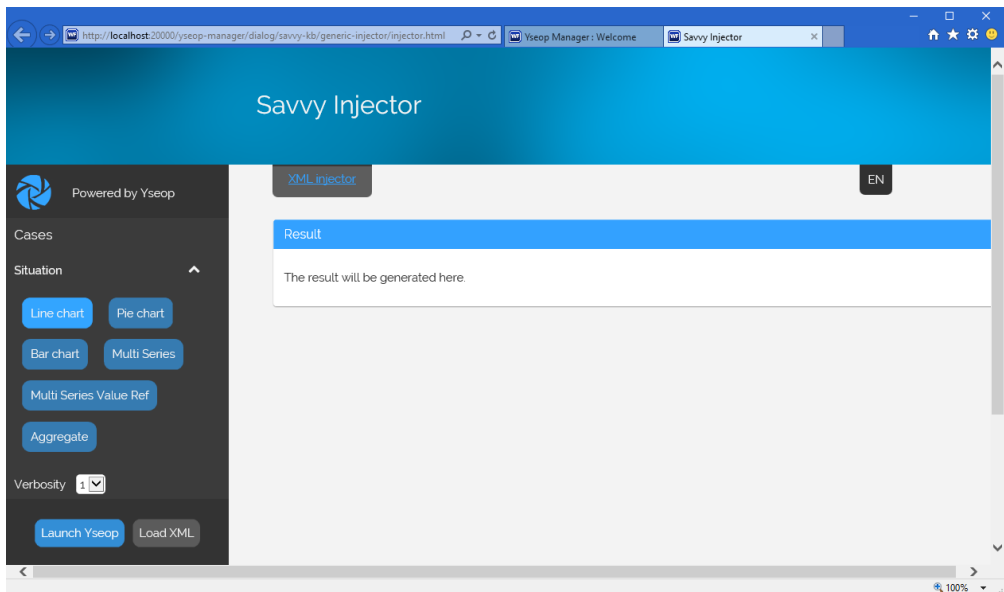
The *savvy-kb-latest.zip* file resides in the *drive:\ibi\NarrativeCharts\kb* folder.

- c. Click *Upload*.

A verification link displays when the upload completes, as shown in the following image.



A dialog box similar to the following image opens. This confirms that the software is properly installed and configured.



Port Assignment

By default, port 20000 is checked for availability. If the installation program detects that the port is not available, it then increases the range by 10 and checks again for availability. For example, if port 20000 is unavailable, port 20010 is then checked.

WebFOCUS Narrative Charts Log Files

WebFOCUS Narrative Charts creates the following log files in the following location for Windows:

```
drive:\Users\user_id\NarrativeCharts_Install_date_time.log
drive:\Users\user_id\NarrativeCharts_date_time.log
```

where:

user_id

Is your Windows user ID.

date_time

Is the date and time the log file was created. This log file provides information about the WebFOCUS Narrative Charts installation. If you contact Customer Support Services with an installation problem, have this file available.

Troubleshooting the Uninstall Process

If you choose to uninstall WebFOCUS Narrative Charts, and the uninstall process fails, you can follow the procedure in this section to clean up your machine.

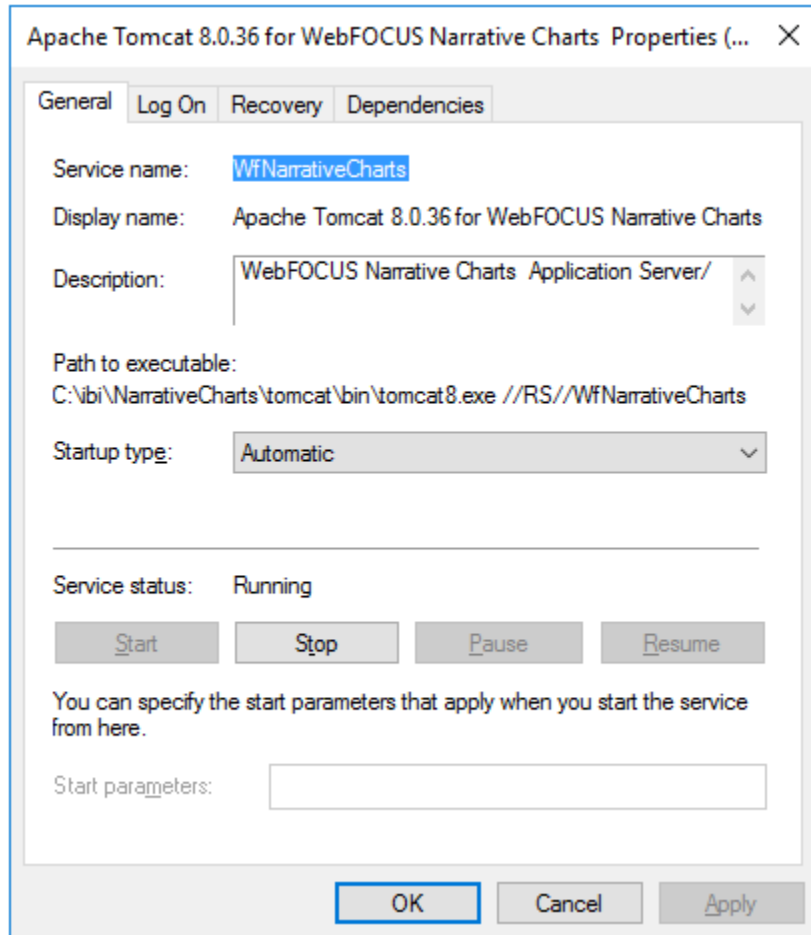
Before performing the following procedure, ensure that you have uninstalled WebFOCUS Narrative Charts, as described in *#unique_27*.

***Procedure:* How to Manually Uninstall WebFOCUS Narrative Charts Components**

If the WebFOCUS Narrative Charts uninstall process fails, you can do the following to manually cleanup the remaining WebFOCUS Narrative Charts components on your machine.

1. Stop Tomcat.

2. Remove the Tomcat service from your machine.
 - a. Locate the existing WebFOCUS Narrative Charts service. To get the service name, right-click the service in the Windows Services program and click *Properties*. The Properties dialog box opens, as shown in the following image, where you can right-click the service name and click *Copy*.



- b. To remove a service, open the Command Prompt as an Administrator and issue the following command:

```
sc delete "service name"
```

where:

service name

Is the name of the service you are manually deleting. For example:

```
C:\sc delete "WfNarrativeCharts"
```

Note: The service name must be enclosed in double quotation marks (").

3. Launch the Windows Registry Editor, and remove the following registry keys.
 - ☐ HKEY_LOCAL_MACHINE\SOFTWARE\Wow6432Node\Apache Software Foundation\Procrun 2.0\WfNarrativeCharts
 - ☐ HKEY_LOCAL_MACHINE\SOFTWARE\Information Builders\NarrativeCharts
4. Delete the *drive:\ibi\NarrativeCharts* folder.
5. Delete the C:\ProgramData\Microsoft\Windows\Start Menu\Programs\Information Builders\WebFOCUS Narrative Charts program group.

Changing the Administrator User ID and Password

To enhance your system security, complete the following steps to change the default Administrator ID and password, or to add additional users.

Procedure: How to Change the Administrator User ID and Password

1. Backup the users.xml file located in the *drive:\ibi\NarrativeCharts\yseop-manager* installation folder.
2. Edit the users.xml file to modify the user name and display name. A sample users.xml file is shown in the following image.

```

1  <?xml version="1.0" encoding="UTF-8"?>
2  <users>
3    <user name="admin"
4          display-name="admin"
5          password="$2a$10$aHG8z9k.KQT3H.3zAdZDh.CY57JIZQBAzfgVfCi.sAsKaDYWHcQEG">
6      <granted>yseop-manager-admin</granted>
7      <granted>yseop-manager-upload</granted>
8    </user>
9  </users>
10

```

Note: The password is encrypted using the bcrypt algorithm.

3. To change the password, open a Command window and navigate to the *drive:\ibi\NarrativeCharts\yseop-manager* folder.
4. Run the following java command:

```
java -jar com.yseop.bcrypt-1.0.0.jar
```

You will be prompted for the password you want to encrypt.

5. Type the new password. You will be prompted to confirm the new password.
6. In the users.xml file, locate `password="install_provided_password"` and replace `install_provided_password` with the value generated by the bcrypt program.

Note: Do not remove the beginning or ending double quotation marks (").

7. You can add a new user by duplicating the block beginning with `<user name>` and ending with `</user>`.
8. Save and close the file.
9. Restart Tomcat.
10. Verify the updated user ID and password by navigating to the `http://localhost:20000/yseop-manager/admin/` admin page and providing the new credentials.

Installing WebFOCUS Narrative Charts on a Linux Environment

The following topic describes how to install WebFOCUS Narrative Charts on a Linux environment.

In this chapter:

- ☐ [WebFOCUS Narrative Charts Requirements on a Linux Environment](#)
 - ☐ [Installing WebFOCUS Narrative Charts Using Console Mode](#)
 - ☐ [WebFOCUS Narrative Charts Directory Structure](#)
 - ☐ [Configuring Java Memory Allocation for the Application Server](#)
 - ☐ [Launching WebFOCUS Narrative Charts](#)
 - ☐ [Starting WebFOCUS Narrative Charts Servers Manually](#)
 - ☐ [Uninstalling WebFOCUS Narrative Charts](#)
-

WebFOCUS Narrative Charts Requirements on a Linux Environment

The following section describes the system requirements for installing WebFOCUS Narrative Charts on a Linux environment. WebFOCUS Narrative Charts is supported on:

- ☐ Intel Linux - Kernel-2.6.32-glibc-2.6 and higher x86_64 64-bit
- ☐ Intel Linux - Kernel-3.10.0-glibc-2.17 and higher x86_64 64-bit
- ☐ Ubuntu Intel Linux - Kernel-2.6.32-glibc-2.6 and higher x86_64 64-bit

Note: Java Version 8 Update 102 (8u102) and Tomcat 8.0.36 are included with the WebFOCUS Narrative Charts product installation.

Installation Prerequisites

The following are installation prerequisites for installing WebFOCUS Narrative Charts on Linux:

- ☐ 10GB of available disk space.
- ☐ 8GB of RAM or higher is recommended.
- ☐ If the temp directory on the host does not meet the minimum size requirements, the InstallAnywhere environment variable IATEMPDIR can be set to use an alternate directory.

You may specify an alternate /tmp location by setting the following environment variable:

```
IATEMPDIR=/large_tmp
export IATEMPDIR
```

System Resource Limits

The operating system provides ways of limiting the amount of resources that can be used. These limits can affect the installation process.

Use the *ulimit* command to set process memory-related resource limits for your session.

The WebFOCUS Narrative Charts installation program requires ulimit to be set to 8192.

Limits can be *hard* or *soft*. Hard limits are set by the root user. Only the root user can increase hard limits, although other users can decrease them. Soft limits can be set and changed by other users, but they cannot exceed the hard limits. To view the current limits, enter the following command:

```
ulimit -a
```

Use the /etc/security/limits.conf file to store ulimit settings. Changes to this file should be made by a system administrator.

Installing WebFOCUS Narrative Charts Using Console Mode

The following section describes how to install WebFOCUS Narrative Charts using Console Mode.

Note: Only one WebFOCUS Narrative Charts installation per platform is supported. Multiple installations are not permitted.

Procedure: How to Install WebFOCUS Narrative Charts Using Console Mode

1. Download the self extracting installation program, *wfnc_install.bin*.
2. Apply the permissions necessary for the owner of the file to execute the installation by using the following command:

```
chmod u+x wfnc_install.bin
```

3. Run the installation program using the following command:

```
./wfnc_install.bin -i console
```

The Introduction prompt displays.

4. Press Enter to continue.

The License Agreement prompt displays.

5. Read the License Agreement. Press Enter after each screen until you receive the License Agreement Acceptance prompt.
6. Type Y to accept the terms of the agreement and press Enter to continue.

The Destination Folder prompt displays.

7. Accept the default destination folder for the installation. If you want to install WebFOCUS Narrative Charts in a different folder, type the path to the location where you want to install the software.

Note:

- ☐ Spaces are not allowed in the destination path.
- ☐ WebFOCUS Narrative Charts uses the credentials admin/admin, by default.

8. Press Enter to continue.

The Pre-Installation Summary window displays.

9. Verify that the information in the Pre-Installation Summary window is correct, and press Enter to continue.

The installation begins.

During installation, the activity window indicates which ports are being configured.

When the installation is complete, a verification message displays.

10. Press Enter to exit the Installer.

WebFOCUS Narrative Charts Directory Structure

After installation, the WebFOCUS Narrative Charts directory structure is created.

WebFOCUS Narrative Charts Directories

The default location for WebFOCUS Narrative Charts directories is:

`/$HOME/ibi/NarrativeCharts`

The NarrativeCharts directory contains the following subdirectories:

`config`

Contains installation information.

`deploy`

Contains the files created during deployment of the Knowledge Base.

jre

Contains Java bundled with WebFOCUS Narrative Charts.

kb

Contains the Yseop Manager Knowledge Base files.

tomcat

Contains Tomcat application files. bundled with WebFOCUS Narrative Charts.

Uninstall

Contains files used by the uninstall program.

utilities

Contains shortcuts that are used to launch the Administration page.

yseop-engine

Contains the Yseop Engine software.

yseop-manager

Contains the Yseop Manager software.

Configuring Java Memory Allocation for the Application Server

For UNIX installations, the default Tomcat Java memory configuration is set to use an initial Java heap size of 128MB and a maximum Java heap size of 2048MB.

These settings are located in the `/ibi/NarrativeCharts/tomcat/bin/catalina.sh` file. For example:

```
JAVA_OPTS="-Xms128m -Xmx2048m -Djava.awt.headless=true"
```

These values need to be set based on the physical memory of the machine.

Launching WebFOCUS Narrative Charts

To launch WebFOCUS Narrative Charts, type the following:

```
http://host:port/yseop-manager/admin/
```

For example,

```
http://localhost:20000/yseop-manager/admin/
```

Note: Enter the application server port number when using this command to start WebFOCUS Narrative Charts. The application server port number is the lowest port number displayed in the summary at the end of the WebFOCUS Narrative Charts installation.

The default port for the WebFOCUS Narrative Charts application server is 20000. It is listed during the end of the installation and also available in the installation log file.

Note: The product may be configured to use a different port, if port 20000 is busy. The shortcut to launch WebFOCUS Narrative Charts will be updated with the correct port used by the installation.

A shortcut to launch the WebFOCUS Narrative Charts Administration page is created in the following directory:

`/$HOME/NarrativeCharts/Utilities/URLs/manager`

Installation log files are under the user home directory.

`/$HOME/NarrativeCharts_installs_date_time.log`
`/$HOME/NarrativeCharts_date_time.log`

where:

`date_time`

Is the date and time the log file was created. This log file provides information about the WebFOCUS Narrative Charts installation. If you contact Customer Support Services with an installation problem, have this file available.

Starting WebFOCUS Narrative Charts Servers Manually

The following commands are used to manually start and stop the required WebFOCUS Narrative Charts servers.

Note: The double periods (..) before each of the entries below indicates that the full path of the items below should be entered.

Application Server

- ❑ To start the WebFOCUS Narrative Charts Application Server, run:

`../ibi/NarrativeCharts/tomcat/bin/startup.sh`

- ❑ To stop the WebFOCUS Narrative Charts Application Server, run:

`../ibi/NarrativeCharts/tomcat/bin/shutdown.sh`

Uninstalling WebFOCUS Narrative Charts

To uninstall WebFOCUS Narrative Charts, either:

- ❑ Run the uninstall program using the following command:

```
../ibi/NarrativeCharts/Uninstall/Uninstall
```

- ❑ Delete the ../ibi/NarrativeCharts/Uninstall/Uninstall folder.

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