



## BMC Track-It!

Installing BMC Track-It! 11.4  
(Full Installation)  
Including Track-It! Web

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# Installing

## Installing Track-It! 11.4

### 1 Introduction to Installing Track-It! 11.4

This guide is intended for individuals responsible for installing and configuring Track-It! and provides step-by-step instructions for a full installation of Track-It! 11.4.

You can download Product Documentation from our Web page at:

<http://support.numarasoftware.com/support/updates.asp?product=2&content=Documentation&version=11.4&Offering=2>. Log in to [My Profile](#) on our Support Web site to determine whether there is another version you should download first (<http://support.numarasoftware.com/support/MyTrackIt.asp>).

If you need additional help installing Track-It!, please see our Web site for support information at <http://support.numarasoftware.com>

### 2 Preparation Prior to Installing Track-It! 11.4

The Track-It! 11.4 installation is different from previous Track-It! installations you may have performed. Please review the following information carefully prior to beginning the installation to ensure a smooth experience.

#### 2.1 General Information about the Full Installation

Note	Description
<p><b>1. Track-It! 11.4 System Requirements</b></p>	<p>View the <a href="#">System Requirements</a> on the BMC Support Web site to be sure your systems can support Track-It! 11.4.</p>
<p><b>2. Two Installations Not Allowed on the Same Computer</b></p>	<p>The Track-It! 11.4 Full Installer will not allow Track-It! 11.4 to be installed if an existing version of Track-It! is detected on the computer. Only a single version of the Track-It! server component can be installed on a computer at any one time.</p>
<p><b>3. Track-It! 11.4 Has Several Prerequisites</b></p>	<p>The Track-It! Full Installer will install several prerequisites on the computer where the Track-It! server component is installed. You can manually install these prerequisites or allow the installer to install them for you. A reboot may be required after installing the prerequisites. For a complete list of prerequisites, see: Step 11: Verify the Prerequisites to be Installed.</p>
<p><b>4. Installing Track-It! Web to Windows 7, Windows Server 2008, or Windows Server 2012</b></p>	<p>If you are installing Track-It! Web Component on Windows 2008, Windows 2008 R2 or Windows 7 (Vista/IIS7), see the following KnowledgeBase article for instructions on configuring IIS7 for use with Track-It!: <a href="#">How to make sure that the Track-It! Web server is configured properly to run Track-It! Web for Track-It! 11.4.</a></p>

Note	Description				
<b>5. Installing Track-It! 11.4 in a Citrix Environment</b>	For instructions on installing to a Citrix server environment, please see the following Knowledge Base article: <a href="#">How to Set up Citrix to Work with Track-It!</a> .				
<b>6. Firewall Configuration May Be Required</b>	<p>If there is a firewall running on the server where the Track-It! Server component is installed, the following ports must be opened for Track-It! to function correctly:</p> <table border="1"> <tr> <td>BMC Track-It! Remote Control Host*</td> <td>6502</td> </tr> <tr> <td>Track-It! Service Management</td> <td>9010</td> </tr> </table> <p>*required if you plan to use this feature to take remote control of the computer where the Track-It! Server component is installed</p>	BMC Track-It! Remote Control Host*	6502	Track-It! Service Management	9010
BMC Track-It! Remote Control Host*	6502				
Track-It! Service Management	9010				
<b>7. Router Configuration May Be Required</b>	If a router is between the Track-It! components (Track-It! Web, database, and Technician Client) and the computer where the Track-It! Server component is installed, the same ports also need to be opened on the router.				

## 2.2 What to Do and Decide Before Starting the Full Installation

Note	Description
<b>1. Find Out What is New in Track-It! 11.4</b>	Download <a href="#">Product Documentation</a> to find out what's new in Track-It! 11.4.
<b>2. Obtain Your Track-It! 11.4 Installation File</b>	Download your <b>Track-It! 11.4 Full Installer file</b> from the <a href="#">My Profile</a> page on our Support Web site.
<b>3. Obtain Your Track-It! 11.4 License File</b>	<p>You can download your <b>License File</b> (trackit.lic) from the <a href="#">My Profile</a> page on our Support Web site.</p> <p>OR</p> <p>If you enter your Serial Number and Activation Key during the installation, the installer will automatically download your license file from the BMC Software Web site.</p>
<b>4. Installing Track-It! 11.4 Remotely</b>	The Track-It! server component can be installed via a remote terminal session or a remote desktop connection, but you must

Note	Description
	<p>connect to the console session on the server. Failure to connect to the console session on the server may result in the Track-It! server component functioning incorrectly.</p> <p>If you are planning to install remotely, please see the following article for important information:  <a href="#">Track-It! Updates and Remote Desktop or Other Session Based Remote Control Products</a></p>
<p><b>5. Choose Your Installation Model</b></p>	<p><b>Very Important:</b> The Track-It! system consists of four main components:</p> <p>Server Components            Track-It! Server component            Track-It! Database component            Track-It! Web component</p> <p>Desktop Components            Track-It! Technician Client</p> <p>Special considerations need to be taken when deciding where to install the different components of Track-It!. See <a href="#">Track-It! Installation Models</a> to help choose the installation model that is best for your company.</p>
<p><b>6. Choose your Database Type</b></p>	<p>Track-It! runs with either Microsoft SQL Express* or Microsoft SQL Server (2005 and above).</p> <p><b>*Note:</b> As of Track-It! 9 SP2, SQL 2000 is no longer supported. As of Track-It! 11, Oracle is no longer supported.</p>

## 2.3 Information You May Need During the Full Installation

Note	Description
1. <b>Internet Access</b>	During the installation, the installer will attempt to automatically download your Track-It! License File from the Internet if you have not already downloaded it. If Internet access will not be available during the installation process, you should download your license file in advance by logging on to <a href="#">My Profile</a> on our Support Web site.
2. <b>Database Administrator Credentials</b>	If the setup cannot connect to the database, you will be asked for Database Administrator credentials. You will not need this information if you choose to use the included Microsoft SQL Express database.
3. <b>Domain Administrator Credentials</b>	Domain Administrator credentials are needed so that Track-It! can install software on remote computers and for the Track-It! Web Component to run Password Reset.
4. <b>Share Name</b>	Track-It! Full Installation will provide a default Share name, which you can change. <b>Note:</b> The Track-It! Share is accessed by various components of Track-It! (such as Audit and Technician Client) to read and write data on the Track-It! Server.
5. <b>Virtual Directory Name</b>	Track-It! Full Installation will provide a default Virtual Directory name, which is included in the Track-It! Web site's URL. You can use the default Virtual Directory name (TrackItWeb), or change it as shown in the examples below:  http://Server01/HelpDesk http://Server01/SelfHelp

### 3 Step-by-Step Instructions for a Full Installation

#### Step 1: Run the Track-It! Installation File

When you run the Track-It! installation file, Track-It!11.4.exe, a **file extracting** dialog displays and copies the setup files to your computer. This might take a few minutes.

#### Step 2: Start the Installer Wizard

On the **BMC Track-It! 11.4** dialog, click the “**Install Track-It! Now**” button.

A dialog displays that shows the progress while temporary files are copied to your computer.

If prerequisites need to be installed, the **BMC Track-It! InstallShield Wizard** dialog displays while the following are installed:

- Microsoft Visual C++ 2010 Redistributable Package (x86 & x64Wow)
- Microsoft .NET Framework 4.0 Full (Web Download)
- Microsoft Data Access Components (MDAC ) 2.8

Click the **Install** button to install the prerequisites. (This may take several minutes).

On the **Welcome** dialog, click **Next**.

#### Step 3: Review and Accept the License Agreement

Review the licensing terms on the **License Agreement** dialog. If you accept the terms and conditions, click **Yes**.

#### Step 4: Enter the License Information

On the **Enter License Information** dialog, enter your Track-It! serial number and activation key to download your Track-It! license file, then click **Next**.

#### Notes:

- If you already have a Track-It! license file, you can browse to that file instead of downloading the license file.
- Track-It! license information is stored in a file called trackit.lic that was created for you by BMC Software when your organization purchased our software. The name of the Track-It! license file must remain trackit.lic.
- If you don't have a license file, install the trial version and add the license later.
- You can download a copy of your license file at any time by logging on to [My Profile](#) on our Support Web site.

#### Step 5: Specify Setup Type (Typical or Custom)

Select Typical or Custom for additional share and security settings.

Accept the default destination folder or specify a different destination folder, and then click the **Next** button.

#### Step 6: Select the Database Type

You can select one of three database types that Track-It! will use to store your data: Microsoft SQL Express\* or Microsoft SQL Server\*.

On the **Select Database Type** dialog, select the database server type you want to use, click the **Next** button.



### Step 7: Specify Database Settings

If you selected "SQL Express", the installer will install and configure the database.

If you selected "Use Existing SQL Server\*" you will need to provide information about the location of the database server and the new Track-It! database.

#### Existing SQL Server

If you selected "Use Existing SQL Server", on the **Specify Database Settings** dialog, select the **SQL Server** or **SQL Express Server** from the "Install to this SQL Server" drop-down list, then click the **Next** button.

#### Notes:

- By default the Installer will create a new database with a default database name. You can change this name if desired. Alternatively, you can specify the name of an existing empty database that has been created on the database server.
- If prompted, enter the database system administrative credentials in order to create the new database on the database server.
- If you selected Typical installation, the **Start Copying Files** dialog displays. Click the **Next** button.

### Step 8: Accept or Enter the Track-It! Share Name (Custom Setup)

On the **Share the Track-It! Directory** dialog, accept the default share name or specify a different name, and then click **Next**.

**Note:** The Track-It! Share is accessed by various components of Track-It! (such as Audit and Technician Client) to read and write data on the Track-It! Server.

### Step 9: Grant Permissions to the Track-It! Network File Share (Optional - Custom Setup)

**Note:** You can grant permissions to the Track-It! Network File Share now, or after you have installed Track-It!.

On the **Grant Permissions to the Track-It! Network File Share** dialog, click the **Browse** button to select domain users and/or groups. These will be the Technicians who will have access to the Track-It! Network File Share. Click **Next**.

## **Step 10: Enter Administrator Credentials (Custom Setup)**

### **a. Domain Administrator**

On the next Enter Administrator Credentials dialog, enter the Domain Administrator Username (such as Domain\Administrator) and Password.

Track-It! needs Domain Administrator account credentials to install the Track-It! Agent and Remote Control Guest on remote workstations.

If you do not know the domain administrator credentials, you can enter the Windows account name and password of an administrator on the server where you are installing Track-It!. These credentials can be changed later in the Administration Console.

### **b. Track-It! Administrator**

On the same dialog, accept the default Track-It! Administrator Username and Password, or specify a different username and password.

The Track-It! Administrator account is created during the install. You will use these credentials to login to the Track-It! Technician Client to further configure the system.

Click **Next**.

The **Start Copying Files** dialog displays. Click the **Next** button.

## **Step 11: Verify the Prerequisites to be Installed**

On the **Start Copying Files** dialog, review the settings that will be used to install Track-It!, then click **Next**.

The **Installing Prerequisites** dialog displays. The installer will install the following prerequisites if they are not detected:

- Microsoft SQL Server 2008 R2 Express Edition (if you selected SQL Express to use as your database)
- Microsoft .NET Framework 4
- Crystal Reports XI Release 2 - SP4

Please wait while the prerequisites are installed (this may take several minutes).

After the prerequisites have been installed, you may receive a message to reboot the computer. If you are prompted to reboot, reboot the computer, and re-run the setup from the beginning.

## Step 12: Install Track-It! Web (Optional) with Web Services API

You can install Track-It! Web at this point or install it later from the path indicated on the **BMC Track-It! Web** dialog, e.g., "\Program Files\BMC Software\ Track-It!\Track-It!

Server\Installers\TrackItWeb\TrackItWebSetup.exe"

**Note:** The following will be installed along with Track-It! Web for Track-It! Web Services API. For more information, see the Track-It! Web Services topics in the online help.

- The Web Services API is automatically installed if you choose to install Track-It! Web.
- A new virtual directory named "TrackItWebAPI" will be automatically created in IIS, which will share the physical path with the Track-It! Web virtual directory.
- The "TrackItWebAPI" virtual directory should not be renamed in IIS if customers want to work with Web Services APIs.
- A new application pool "TrackItWebAPI" will also be created and mapped to the "TrackItWebAPI" virtual directory to isolate the Track-It! Web IIS process from "TrackItWebAPI".
- A new registry key "TIWebAPIVirtualPath" is added to store the virtual directory name "TrackItWebAPI" by the installer; this key is used in the uninstall operation as well.
- A new application setting "TrackItAPIKeyValidity" is added in web.config to set the token validity period for Web API calls; the default is 60 minutes.
- The token validity range is 1 minute to 480 minutes.
- There are two application settings "AllowedOriginsForCORS" and "AllowedMethodsForCORS" that are added and required in web.config for supporting CORS through Web API.
- Web.config will be shared between "TrackItWebAPI" and the Track-It! Web interface; any manual changes to this file will recycle the IIS process.
- The "TrackItWebAPI" virtual directory will only allow web service API calls.
- The request "content-type" should be set to text/json while calling APIs.

### To install Track-It! Web:

Click the **Install Track-It! Web** button on the **BMC Track-It! Web** dialog, then go to [Step 1.1](#), below.

If you are not installing Track-It! Web at this time, go to [Step 13](#).

#### 1.1. Install Prerequisites for Track-It! Web

The required prerequisites to install Track-It! Web display on the next dialog. Click the **Install** button.

On the **Welcome to the BMC Track-It! Web** setup dialog, click the **Next** button.

#### 1.2. Review and Accept the License Agreement

Review the licensing terms on the **License Agreement** dialog.

If you accept the terms and conditions, click **Yes**.

#### 1.3. Select the Destination Folder

On the **Choose Destination Location** dialog, accept the default destination folder or specify a different destination folder, and then click **Next**.

#### 1.4. Specify the Track-It! Server Location

On the **Specify Track-It! Server Location** dialog, either accept the default network share or folder location or specify a different name (click the **Browse** button to browse to a location). Then click **Next**.

**Note:** The Track-It! Share is accessed by various components of Track-It! (such as Audit and Technician Client) to read and write data on the Track-It! Server.

#### 1.5. Define the IIS Virtual Directory Name

If you choose an existing virtual directory name, make sure that it is not currently used by another application.

- Either accept the default Web site, or select another from the drop-down list of Web sites running on this server.
- Either accept the default Track-It! Web virtual directory name (TrackItWeb) or enter a different name.
- Either accept the default Password Reset virtual directory name (PasswordReset), or enter a different name.
- Either accept the default Web Survey virtual directory name (TISurvey), or enter a different name.

Then click the **Next** button.

#### 1.6. Configure IIS for 32-bit Application Support for 64-bit Environments

If you are installing Track-It! on a 64-bit server with IIS5 or IIS6, a message will display notifying you that IIS must be configured to enable 32-bit applications. Click the **OK** button.

#### 1.7. Review Settings

On the **Start Copying Files** dialog, review the settings that will be used to install Track-It! Web (destination folder, server location, and URLs), then click the **Next** button.

#### 1.8. Click Finish to Complete the Track-It! Web Installation

The links are displayed to begin using Track-It! Web (Technician), Self Service Web (two URLs: one for login, and one for auto-login), Password Reset, Track-It! Web API. and Web Survey.

#### Step 13: Click Finish to Complete the Track-It! Installation

Click the **Finish** button on the “You have finished installing Track-It!” dialog.

By default, the checkbox to **Launch Track-It! Technician Client** is selected. If checked, this will install the Technician Client on the server after you click the **Finish** button.

**Note:** If you choose not to install the Track-It! Technician Client on the Server, you can install it at any time by navigating to: `\Program Files\BMC Software\Track-It!\Track-It! Server\Installers\TechnicianClient\en\Setup.exe`

#### Step 14: Install the Technician Client on the Server

On the Application Install – Security Warning dialog, click **Install**.

**Note:** The Publisher is labeled as Unknown Publisher because setup.exe is signed during the installation, and for security reasons, the BMC Software certificate is not shipped with the installer.

When the Track-It! Technician Client installation is complete, the Track-It! Technician Client will launch automatically.

On the **BMC Track-It! 11 Login** dialog, enter your Track-It! Administrator Username and Password, then click **Login**.

## 4 After Installation

### 4.1 Configuring Track-It! with the Configuration Wizard

After the Track-It! Technician Client is installed, the **Configuration Wizard** displays. You can click the **Next** button to continue, or you can click the **Finish** button and configure Track-It! at a later time if you prefer.

### 4.2 Sending Installation Instructions for the Track-It! Technician Client to Your Technicians

Track-It! Technicians can install the Track-It! application by clicking on a link sent via e-mail from your Help Desk e-mail account.

Start the Track-It! Technician Client (Start/All Programs/BMC Track-It!/BMC Track-It! Technician Client).

From Track-It!'s main menu bar, select Tools/Administration Console/Administration/Distribute Technician Client.

The Technician Client Click-Once link is displayed.

Select the technician(s) from the **Available Technicians** list, then click the **Add** button. (You can select multiple technicians by holding the Shift or CTRL key as you select them). This places the technicians in the Technicians to Notify list.

Click the **Send E-mail** button.

On the **Enter E-mail Address** dialog, enter the e-mail address that was set up for your Help Desk e-mail account (e.g. help@yourcompany.com), then click the **OK** button.

The selected Technicians will receive an e-mail with a link so that they can install the Track-It! Technician Client.

### Uninstalling Track-It!

If you need to uninstall Track-It!, make sure to uninstall Track-It! Web before uninstalling the Technician Client.

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## Andrey V. Sorokin License

RegExpr.pas

TRegExpr library

Regular Expressions for Delphi

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This library is derived from Henry Spencer sources.  
I translated the C sources into Object Pascal,  
implemented object wrapper and some new features.  
Many features suggested or partially implemented  
by TRegExpr's users (see Gratitude below).

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Internet Wizard

Windows Process Description:

The file inetwh32.dll is famously known as the Blue Sky dynamic link library (DLL) since it was specially made for Blue Sky Software products.

BlueSky Software Corporation was an American software company founded in 1988. It was located in California and had a successful run for 12 years until March 2001, when the mother company Interplay, an American video game publisher and developer, was embroiled in deep financial trouble. Blue Sky Corporation was sacrificed and was closed down.

This inetwh32.dll file is dependent on other DLLs like comdlg32.dll, advapi32.dll, user32.dll, and kernel32.dll. It is used in several PC games designed by Blue Sky Software Corporation such as Arachnophobia, Hare Raising Havoc, PC USA, and PC Globe. The inetwh32.dll file is also used in Java

Applet games such as Destroyer, Flam, Hole in One, and Sky Battle.

Functions of inetwh32.dll are somehow necessary for internet browsing and these are BrowserNameFromSystem, BrowserNameFromUser, INETWH\_Initialize, Inet and Internet. It is also the DLL that finds what state the active browser is in and eventually launches it. It stores its name with its functions FindActiveBrowser, StoreBrowserName, and LaunchBrowser. The Launchbrowser function of inetwh32.dll file triggers the dialer module for a selected Internet Service Provider (ISP) to start a web browser.

The inetwh32.dll file is an essential element for Net Nanny's Ad-Free application to work. Net Nanny's Ad-Free is a software application that blocks unwanted online advertisements and stops pop-ups and banner ads on web pages.

The inetwh32.dll file is a part of Active Email Monitor. Active Email Monitor is a program that acts as an antivirus for one's electronic mail. It frees your inbox from spam and is capable of checking numerous accounts for malicious and potentially fatal e-mail worms and viruses.

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DCPcrypt

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