

TraumaCad 2.5 prerequisites



Before beginning the TraumaCad Server software installation, please verify all prerequisite are installed and minimum hardware and software requirements are met, as described below.

Server hardware requirements

- One or more processors with a recommended minimum speed 2.4 GHz and 8M Cache
- Minimum - 4 GB, Recommended - 8GB RAM
- Hard Drive - 100GB (2 virtual drives are recommended to separate OS and application files):
 - Up to 80 GB for Operating system, TraumaCad software and logs
 - Up to 20 GB for digital templates
- Internet connection details are specified below (*Table 1*) and are **recommended** for the installation, user's documentation download and ongoing server updates

TraumaCad Server installation is supported inside a virtualized environment as long as the Virtual machine meets the above requirements

Server software requirements

- Microsoft Windows Server 2012(R2) / 2016 / 2019
- English should be the default OS language; additional languages can co-exist
- Server naming convention: server NAME must **NOT** contain an _ (underscore) symbol (<http://support.microsoft.com/kb/909264>)
- MS Internet Information Services (IIS)
- Microsoft ASP.NET
- Microsoft .NET versions 3.5 & 4.5 - available under features inside Server manager
- Microsoft .NET framework 4.7.1 (or higher) - available via [download](#) or Windows Updates
- MS windows update (all patches & hot fixes available at Microsoft windows update)
- RDP / LogMeIn / Customer provided VPN - recommended for installation and ongoing support
- Operating system installation media (source location of the files needed to install Windows features)

- UAC (User Account Control) should be disabled via Windows registry and the server should be rebooted before installation can begin (Navigate to: **HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Windows\CurrentVersion\Policies\System** and modify the value of the **EnableLUA** DWORD value and set it to **0**)
 - Internet explorer 11
 - “localhost” to be added to Internet explorer & Microsoft Edge under Compatibility View settings
- **To install TraumaCad, you must be logged-on as a user with administrative privileges**

TraumaCad client requirements

Software requirements

- Windows 10 Operating System (64Bit - recommended 64 Bit)
- Microsoft .NET Framework V4.7.1 (part of Windows update)
- Operating system installation disk (source location of the files needed to install Windows features)
- Internet Explorer as default web browser
- MS windows update (all patches & hot fixes available at Microsoft windows update)
- PDF Reader
- LogMeIn / VPN / TeamViewer - recommended for installation and ongoing support

Hardware requirements

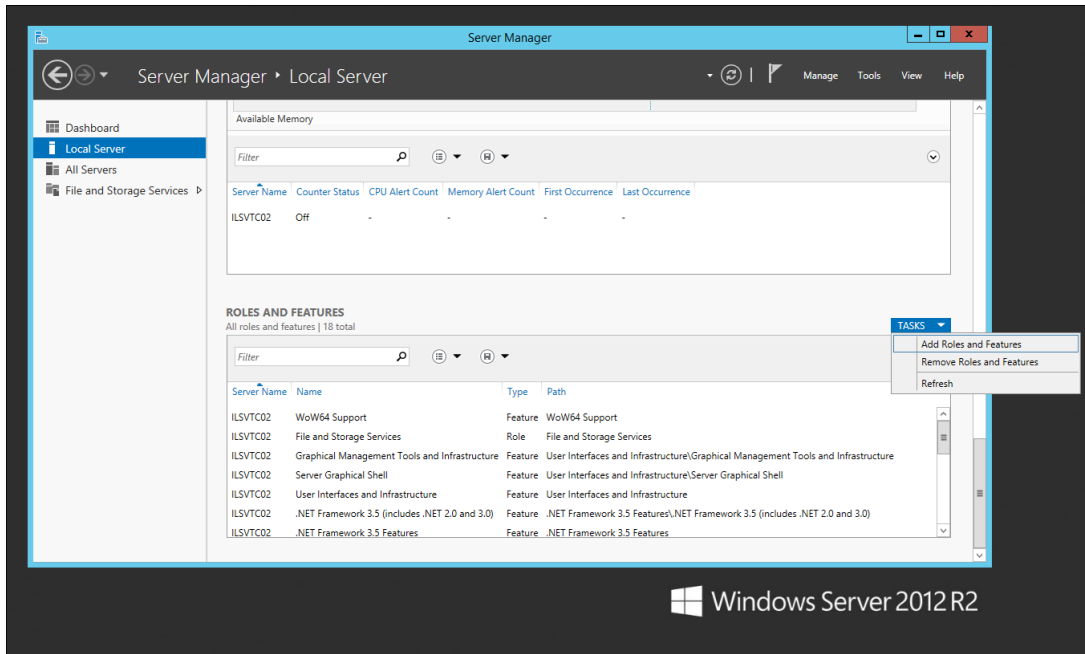
- 1 GHz or faster 32-bit (x86) or 64-bit (x64) processor (recommended 2 GHz 64 bit)
- Available memory 2 GB RAM (32-bit) / 4GB RAM (64-bit)
- Hard Drive: Up to 500 MB for the software
- Networking access to TraumaCad server for software updates, licensing and templates usage
- DirectX graphics device 1280 x 1024 true color 128 MB with WDDM 1.0, or higher driver
- Open Internet access (recommended)
- Minimum 1280x1024 screen resolution
- For higher screen resolution (2048 × 1080 and up), modify display settings to scale magnification to between 100%-150% & set the screen resolution to 1920X1200

Server operating system configuration

Before installing TraumaCad server – Make sure .Net 3.5 SP1 and IIS are installed using the below steps:

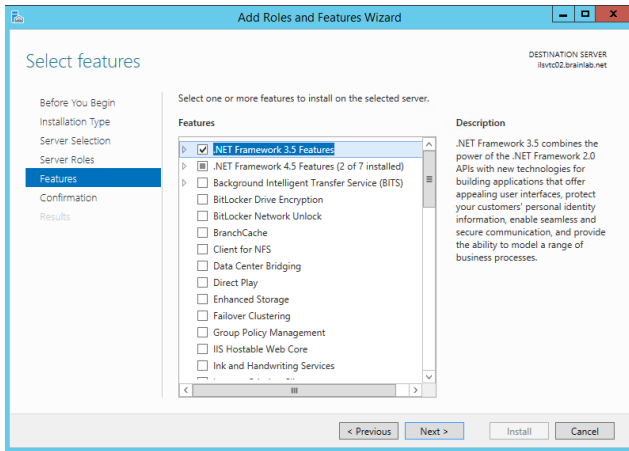
.Net 3.5 sp1 installation

- Launch the Server Manager

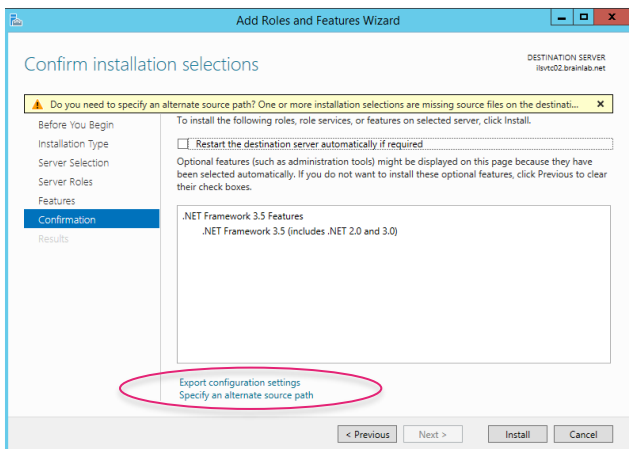


- Scroll down to **ROLES AND FEATURES** and open the **TASKS** dropdown menu – select **Add Roles and Features**
- In the Before you Begin step, click Next
- In the Installation Type step, verify the **Role-based or feature-based installation** radio button is selected, and click **Next**
- in the Server Selection step, verify the **Select a server from the server pool** radio button is selected and the appropriate server name is selected in the Server Pool, and click **Next**
- In the Server Roles step, click **Next**

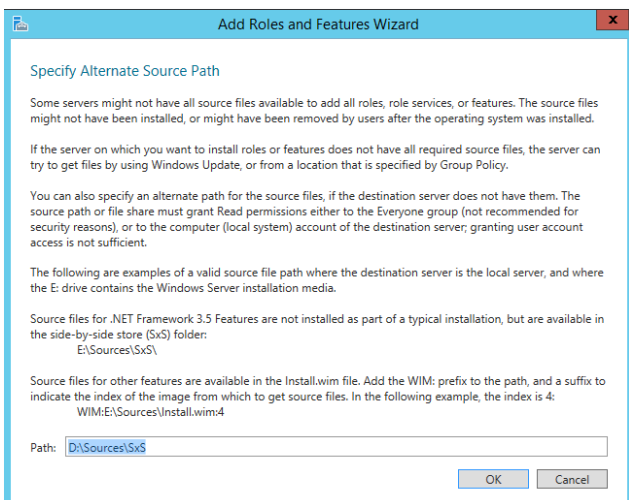
- In the Features step, check the **.Net Framework 3.5 Features** and click **Next**



- In the Confirmation step, click the **Specify an alternate source path** link

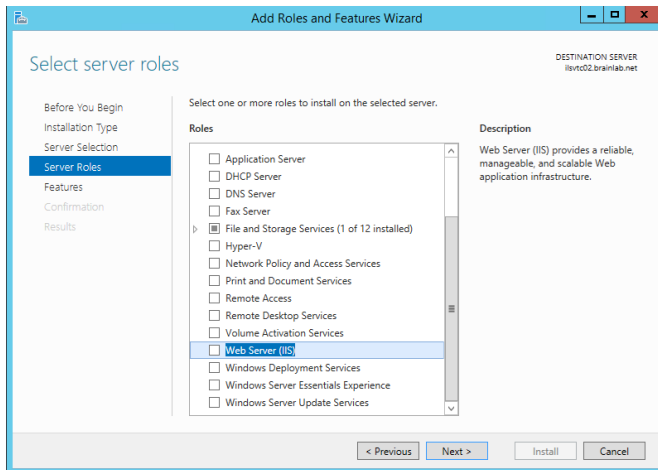


- Enter **\\sources\sxs** as the path in the pop-up window

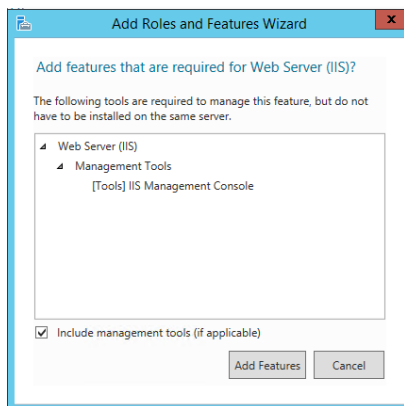


IIS Installation

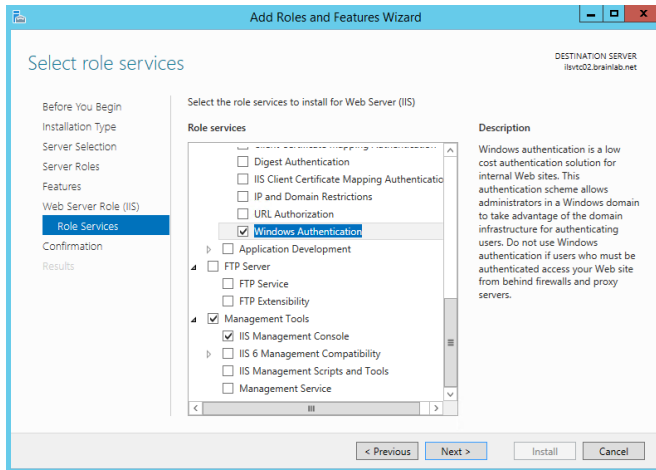
- Launch the Server Manager
- Scroll down to ROLES AND FEATURES and open the TASKS dropdown menu – select **Add Roles and Features**
- In the Before you Begin step, click Next
- In the Installation Type step, verify the **Role-based or feature-based installation** radio button is selected, and click **Next**
- In the Server Selection step, verify the **Select a server from the server pool** radio button is selected and the appropriate server name is selected in the Server Pool
- In the Server Roles step, check the Web Server (IIS) checkbox and click **Next**



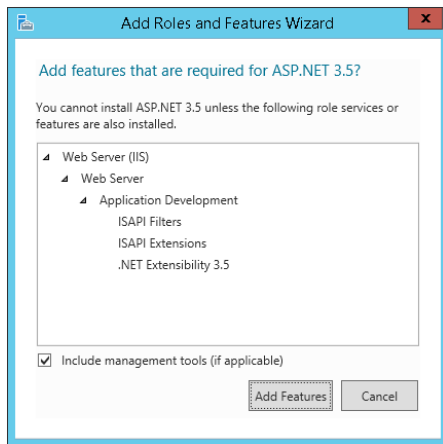
- When pop-up with Add Features for Web Server IIS is prompted, click the **Add Features** button



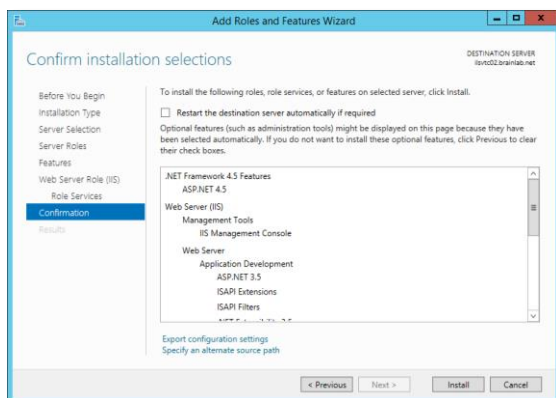
- In the Role Services step, select Role Services to install, scroll down to Security section and check **Windows Authentication** option



- Continue scrolling down to expand Application Development and select **ASP.NET 3.5**
- Click **Add Features** button in the pop-up window



- Click **Next** to move to the Confirmation step, and there click **Install**



- Close all windows on the server and continue to configure IIS to support TraumaCad server installation
- Adjusting File Size Limit in IIS 8

The problem is that in IIS 8 on Windows 2012 Server, the web application will reject any file that is larger than 30 MB and since TraumaCad can handle CR \ DX images that can vary between 5MB-75MB we need to increase the file size limitation.

To increase file size limit to 100MB open command line console and run:
%windir%\system32\inetsrv\appcmd.exe set config "Default Web Site" -
section:system.webServer/security/requestFiltering
/requestLimits.maxAllowedContentLength:"100000000" /commit:apphost

Where TraumaCadServer is a web site created for TraumaCad. You can use "Default Web Site" if TraumaCad was installed on the default web site.

- Change Application pool pipeline mode
 - By default – each application pool pipeline mode in IIS is set to "Integrated". In TraumaCad – this should be converted to "Classic" for the application to run*
 - On the taskbar, click Start, point to Administrative Tools, and then click Internet Information Services (IIS) Manager.
 - In the Connections pane, expand Sites, and then navigate to the application you want to edit
 - In the Actions pane, click Advanced Settings...
 - Change the Pipeline mode to Classic
 - Click on Save
 - Restart IIS

Pre-installation PACS configuration

- Please define TraumaCad as a DICOM node in your PACS system and supply the details (as configured) to TraumaCad support and implementation engineer.
- Details to be configured include:
 - IP address (of TraumaCad server)
 - AE title of TraumaCad
- If the TraumaCad server application should run on SSL – please install the SSL certificate prior to TraumaCad server installation – make sure the certificate meets the server's FQDN

Table 1:

	TraumaCad Activation	TraumaCad Templates Download	TraumaCad User's documentation
Source	TraumaCad server	TraumaCad server	TraumaCad server
Destination	http://license.traumacad.com/LicenseIssueWs/IssueService.aspx	https://www.templates.traumacad.com/GlobalTemplatesWS/TWS.aspx	http://update.traumacad.com/Guides
IP address	TraumaCad IP address <-> 13.74.178.179	TraumaCad IP address <-> 107.22.221.57	TraumaCad IP address <-> 107.22.221.57
Port	TCP and TLS 80 & 443	TCP and TLS 80 & 443	TCP and TLS 80
Remarks	TraumaCad performs a POST of activation data on SecureLM website, SecureLM performs the activation and send back to TraumaCad a small license file	TraumaCad requests the latest index file from the templates server and downloads the templates upon selection in TraumaCad	TraumaCad requests the PDF file from the server and downloads the guide file upon click on link in TraumaCad Help

TraumaCad server installation

Please use the TraumaCad [Admin guide](#) for installation instructions or contact support at TraumaCad.support@brainlab.com with a request for remote installation.

For any further assistance, please contact TraumaCad Support at:

United States, Canada, Central and South America:
Phone +1 (800) 597-5911

Europe, Africa, Asia and Australia:
Phone +49 89 991568-44
TraumaCad.Support@brainlab.com
www.traumacad.com/chat