



## **PACSgear Enterprise Server**

EHR Gateway, EHR Gateway Print, Image Link, Image Link Plus,  
Image Link Encounter Workflow (Encounter Manager), MDR Video  
Touch (MDR Link), Video Touch 4K, PACS Scan Mobile,  
PACS Scan Web and Web Forms

## **Technical Specifications**

DOC-CS5.2-TS-EN-REVA

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## Regulatory and compliance

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## General warnings and precautions



To ensure patient safety and adhere to HIPAA Privacy Rule involving patient health information, the Healthcare provider shall assign a unique Accession Number and Medical Record Number (MRN) to identify individual patient's health record affiliated with the patient to prevent erroneous medical data and duplicate identification with other patients.

# Symbols glossary



ISO - 15223-1 - Medical devices - Symbols to be used with medical device labels, labeling, and information to be supplied.

3082 - Manufacturer: Indicates the medical device manufacturer.



ISO - 15223-1 - Medical devices - Symbols to be used with medical device labels, labeling, and information to be supplied.

Authorized representative in European Community: Indicates the authorized representative in the European union. Symbol is accompanied by the name and address of the authorized representative adjacent to the symbol.



ISO - 15223-1 - Medical devices - Symbols to be used with medical device labels, labeling, and information to be supplied.

2497 - Date of Manufacture: Indicates the date when the medical device was manufactured.



ISO - 15223-1 - Medical devices - Symbols to be used with medical device labels, labeling, and information to be supplied.

2493 - Catalog number: Indicates the manufacturer's catalog number so the medical device can be identified.



ISO - 15223-1 - Medical devices - Symbols to be used with medical device labels, labeling, and information to be supplied.

2498 - Serial number: Indicates the manufacturer's serial number so that a specific medical device can be identified.



ISO - 15223-1 - Medical devices - Symbols to be used with medical device labels, labeling, and information to be supplied.

1641 - Consult instructions for use: Indicates the need for the user to consult the instructions for use.



ISO - 15223-1 - Medical devices - Symbols to be used with medical device labels, labeling, and information to be supplied.

0434A - Caution: Indicates the need for the user to consult the instructions for use for important information such as warnings and cautions.



ISO - 15223-1 - Medical devices - Symbols to be used with medical device labels, labeling, and information to be supplied.

2610 - Patient number: Indicates a unique number associated with an individual patient.



Medical Devices Directive 93/42/EEC and EU 2017-745 Medical Device Regulation

CE Marking: Indicates that a product complies with applicable European Union regulations.



Quantity: Indicates the number of units.

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## What is PACSGear Enterprise Server?

PACSGear Enterprise Server is a program that processes DICOM and non-DICOM medical data including patient demographics, images, videos, and HL7 messages. It also handles user accounts, security, client configuration, and the flow of data between modalities and destination DICOM systems. PACSGear Enterprise Server exclusively supports PACSGear client products such as EHR Gateway, Image Link, MDR Video Touch and Web Forms. You access PACSGear Enterprise from a web browser.

## Intended use

PACSGear Enterprise Server with installed client applications are intended to be used by authorized staff to perform various operations on imaging studies before they are made available to other locations in the network. These operations include processing images, video, and patient demographics. PACSGear Enterprise Server is not labeled for diagnostic use.



See the PACSGear Enterprise Server Installation Guide for details on installing Enterprise Server and for instructions how to license client application.

## Media Writer Web and PACSGear Enterprise Server



PACSGear Enterprise Server 5.0 does not support Media Writer Web. If you are already using Media Writer Web, we recommended that you do not upgrade to PACSGear Enterprise Server 5.0. A future release of PACSGear Enterprise Server will support Media Writer Web and include an update to Media Writer.

Report any malfunction, security risk, unauthorized access or series incident that occurs in relation to PACSGear Enterprise Server and client applications to Hyland at <https://community.hyland.com>.

### Note:

For details for protection on software virus, refer to PACSGear Enterprise Server Technical Specifications DOC-CS5.2-TS-EN.

## Technical Specifications

### PACSGear Enterprise Server product requirements

The minimum hardware and software requirements (or their virtual machine equivalents) are provided in the following table.

Specification	Description
Operating systems	Windows Server 2016 R2 and later
Processor	Xeon, 4 cores, 2 GHz

Specification	Description
Memory	8 GB
Hard disk	250 GB
Network interface	100 MB/1 GB
Display	1024 x 768, 32-bit color
SQL	Microsoft SQL Server 2014 or later  For base installation we recommend 10 GB SQL Server hard drive allocation for each PACSGear Enterprise Server.

## PACSGear Enterprise Server setup program requirements

The following table provides setup program requirements for PACSGear Enterprise Server by operating system.

I/O	Connectors and Adapters
Windows Server 2016 R2 Standard	<ul style="list-style-type: none"> <li>• Web Server IIS</li> <li>• Web Server/Application Development/ASP.NET 4.6</li> <li>• Web Server/Application Development/.NET Extensibility 4.6</li> <li>• IIS Hostable Web Core</li> <li>• .NET Framework 4.6 Features/ASP.NET 4.6</li> </ul>
Windows Server 2019	<ul style="list-style-type: none"> <li>• Web Server IIS</li> <li>• Web Server/Application Development/ASP.NET 4.6</li> <li>• Web Server/Application Development/.NET Extensibility 4.6</li> <li>• IIS Hostable Web Core</li> <li>• .NET Framework 4.6 Features/ASP.NET 4.6</li> </ul>

## Virtual host requirements

The minimum virtual host requirements are provided in the following table.

Specification	Description
Virtual processors	8 vCPU, 1.8 GHz

Specification	Description
Memory	8 GB
Hard disk	150 GB free space
Network interface	100 MB/1 GB

## Client requirements

The minimum hardware and operating system requirements are provided in the following table.

Specification	Description
Operating Systems	Windows 8 and Windows 10
Memory	2 GB
Internet Browser	IE 10 or higher, Edge

## PACS Scan Web specifications

- PACS Scan Web supports scanner resolutions of 150, 200, 300, 400, and 600.
- Maximum number of DICOM files per upload: 500

## OnBase specifications

- OnBase 17.0.1 (Build 75) or higher.
- Supports sending of only the following video format to OnBase: MPEG4 from the MDR Video Touch or PACS Scan Mobile.

## Antivirus exclusion recommendation

This application supports passive antivirus scans. You must ensure that passive scanning of the server conforms to the security policy at the installation site. Real-time scanning is allowed, but you must configure the antivirus program to exclude the following folders.

- C:\Program Files (x86)\PACSGear\PACSGEAR Core Server\config
- C:\Program Files (x86)\PACSGear\PACSGEAR Core Server\dicomfiles
- C:\Program Files (x86)\PACSGear\PACSGEAR Core Server\jobs
- C:\Program Files (x86)\PACSGear\PACSGEAR Core Server\logs
- C:\Program Files (x86)\PACSGear\PACSGEAR Core Server\PGAPPS
- C:\Program Files (x86)\PACSGear\PACSGEAR Core Server\rawcap

## Port settings

PACSGear Enterprise Server, depending on its configuration, may use several TCP/IP ports in the host computer's firewall. This can include the following ports.



- The default DICOM Modality Worklist port for Image Link is 104.
- The default Image Link HL7 listening port for ingesting HL7 messages is 5100.
- The default Encounter Manager listening port is 5555.
- The PG Scanner service on the client uses 5050 and 8555.
- The default EGHR port is 6500.
- The HTTP/HTTPS Web interface defaults are 80 and 443 respectively.
- The Server needs port 6000 as the default server access point.
- The default MDR Link port is 7070.

You can configure and add additional ports for these services to the system's firewall exceptions.

## Windows patches and updates

You can install all standard Microsoft security patches and updates on the system unless your support representative tells you otherwise.

## Disable HTTPS/2 security

Starting with PACSGear Enterprise Server 5.1, servers with HTTPS/2 enabled (hyperlink) may experience problems receiving images over a certain size, or a batch of images over a certain number. To resolve this issue, you must configure the Windows Server OS to disable HTTPS/2 security.

To disable HTTPS/2 on the Windows Server OS, complete the following steps.

1. Start Registry Editor.
2. In the tree, under **Computer**, navigate to HKEY\_LOCAL\_MACHINE\System\CurrentControlSet\Services\HTTP\Parameters.
3. In the right pane, right-click the whitespace and select **New**, click **DWORD (32-bit) Value** and then name the parameter EnableHttp2Tls.
4. Right-click the EnableHttp2Tls parameter and select **Modify**. In the **Value data:** field, set the value to **0** to disable.
5. In the right pane, right-click the whitespace and select **New**, click **DWORD (32-bit) Value** and then name the parameter EnableHttp2Cleartext.
6. Right-click the EnableHttp2Cleartext parameter and select **Modify**. In the **Value data:** field, set the value to **0** to disable.