### 10. Client Installation

The Client software is installed using the provided Windows installer Stratus.EEG.Client\_ *Major.Minor.build.rev*.msi. The software is installed in %programfiles%\Kvikna ehf\Stratus EEG Client.

# **System Requirements**

The table below represents the minimum and recommended specifications for installation of Stratus EEG client software which comprises Centrum, Review and Team Monitor modules:

	Minimum	Recommended
Operating System	Windows 10 (64-bit)	Windows 10 (64-bit)
Processor	2.0 GHZ	Quad Core – 3 GHZ
Memory	8 GB	32 GB
Screen Resolution	1920x1080	1920x1080
Graphic Card	-	Graphics processing units (GPU)
Hard Drive (Available space)	50GB	50GB

Note: The minimum system requirements may result in slower performance, especially with exams including video.



Warning: Failure to meet the minimum system requirements may lead to a delayed diagnosis for the patient.

# **Antivirus Requirement**

Windows Defender with default configuration of firewall and real-time protection. The key antivirus requirements are the following exceptions:

- DNS Server address
- Path: %programdata%\Kvikna\
- Path: %programdata%\Kvikna ehf\
- Path: %windir%\TEMP\\*.keeg
- Path: %windir%\TEMP\\*.ieeg
- Path: %windir%\TEMP\\*.edf
- Path: %windir%\TEMP\\*.avi

### **Additional Requirements**

- (a) Microsoft .NET Framework 4.8
- (b) Visual C++ Redistributable packages for Visual Studio 2015- 2022 (X64)

### **Network Requirements**

The table below represents the network requirements for optimal communication with a Stratus EEG Server from a client system:

	Minimum	Recommended (Mbps)
Bandwidth - Upload	20 Mbps	40 Mbps
Bandwidth - Download	50 Mbps	100 Mbps
Packet loss	<1%	<0.1%

Note: The minimum bandwidth requirement may result in slower performance, especially with exams including video.



Warning: Failure to provide a network that meets the above minimum network requirement may lead to a delayed diagnosis for the patient.

# **LDAP Configuration Requirements**

Communication between the Stratus EEG Server and LDAP server is via port 389.

### Windows .NET Applications Requirement

The following Windows .Net application must be running for background operations such as exam upload:

- 1. Kvikna.Streaming.Server.exe (Upload service)
  - a. Connection to the Patient Management Server and Signum Reader Server for background EEG upload

## **Software Installation**

The following steps are required to successfully install the client Software:

- 1. Log on to the computer with administrative rights.
- 2. Download and install all applicable Windows updates.
- 3. Double-click the downloaded Stratus EEG Client application.



4. Click **YES** to continue with the installation



5. (Optional) At the prompt to install the word Add-in, click Yes or No (explained below).

### Word Report Template Add-in

Install W	ord Addin?			×
?	Do you wis	n to install	the Word Report T	emplate Addin?
			Yes	No

For users creating Word Report Templates, the Stratus EEG Word Report Template Add-in must be installed. Click yes to start the installation. A new ribbon item in the Word Ribbon control will appear next time the Word 2010 or later is launched.

Note:

- To install the Word Add-in, a compatible Microsoft Word application must be installed in the system. The supported Microsoft Word versions are 2010 and above.
- Additional requirements may not be needed on a client system with the most recent Windows updates.

AutoSave (		89								
File Ho	ome	Insert	Design	Layout	References	Mailings	Review	View	EEG Report	Help
Report Fields Add Field Add Rep	ort Field	t Ta								

If the EEG Report tab does not appear on the Word ribbon, go to File  $\rightarrow$  Options  $\rightarrow$  Add-ins,

# Stratus EEG Technical Manual | Revision 1.00 | Software version 5.1 select COM Add-ins in the Manage combo box and click Go...

eneral			
	View and manage Microsoft Office Add-ins.		
splay			
oofing	Add-ins		
ive	Name *	Location	Туре
nguage	Active Application Add-ins		
nguage	Financial Symbol (XML)	C:\\Smart Tag\MOFL.DLL	Action
dvanced	Instant Messaging Contacts (English)	C:\ Tag\IMCONTACT.DLL	Action
1 D11	Measurement Converter (Measurement Converter)	C:\rt Tag\METCONV.DLL	Action
istomize Kibbon	Stratus EEG Word Report Template Addin	file:///Reports.Addin.vsto	COM Add-in
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	Microsoft Actions Pane 3		XML Expansion Pack
	OneNote Notes about Word Documents	C:\ce16\ONWordAddin.dll	COM Add-in
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Make sure that Stratus EEG Word Report Template Add-in is checked and click OK.

### **Automatic Import Service**

The client software (not applicable to the Physician Client) provides an automatic import function. This function enables both online imports while recording in PC or Dual mode and

allows the user to log out before importing completes without interrupting the transfer. To facilitate this, the Kvikna.Streaming.Server Windows service is provided.

General	Log On	Recovery	Depender	ncies	
Service	name:	Kvikna Str	eaming.Sen	ver	
Display	name:	Kvikna.Str	eaming.Sen	ver	
Descrip	tion:	Stratus EE	G Streamin	g Server	< >
Path to "C:\Pro	executabl gram Files	le: (x86)\Kvikr	ia ehf∖Strati	us EEG Client\S	ignum HomeRecor
Startup	type:	Automatic	: (Delayed S	itart)	~
Service	status:	Running			
5	lart	Stop	o	Pause	Resume
You can from he	n specify t re, arameters;	he start para	meters that	apply when you	i start the service
start pa	irameters:				

This service runs as the Local System account by default. If the Local System account does not have read and write permissions to the files to be imported, it will fail. In this case, either the Local System account should be given proper permissions or the service should be configured to run as a user that has them.

Note: If users will be importing from a mapped network drive, the user that this service is configured to run as must also have the network location mapped as the same drive letter.

Kvikna.Streaming.Ser	ver Properties (Local Computer)	×
General Log On R	ecovery Dependencies	
Log on as:		
◯ <u>L</u> ocal System acc □ Allo <u>w</u> service	count to interact with desktop	
	domain \properpermissionuser	Browse
Password:	•••••	
Confirm password	•••••	
	OK	Annly
	UK Cancel	Apply

## **Troubleshoot Video Playback**

In some cases, extra steps are required to enable video playback.

- 1. Open an exam for review and check if the video picture is showing for exams that have video.
- 2. If the video is not showing, restart Stratus EEG Review.
- 3. If the video picture is still not shown, download lav filters: http://www.free-codecs.com/LAV\_Filters\_download.htm
- 4. Run the installation program.
- 5. If the video picture is still not shown, download the xvid codec: http://www.<u>xvid</u>.org/Downloads.15.0.html
- 6. Run the installation program.
- 7. Under normal circumstances, the video should now work. If it still does not work, try:
  - a. Computer reboot.
  - b. Make sure there are no server-side problems.
  - c. Try playing back the exam video file directly from Windows Media Player.

8. The software contains two different video players. It is possible to switch between those by opening the My Settings tab in Centrum and selecting either Version 1 or Version 2 from the Video Player Version dropdown. A restart of Review is required for the change to take effect.

#### Settings

Selected Language	English (United States)	Ŧ		
System Font	Segoe UI	٣	Default Font	
Video Player Version	Version 1	Ŧ		

### **Configure Connection**

The configuration of the Client involves connection to a designated Stratus EEG Server. The Client can be configured to connect to multiple Stratus EEG Servers, however, there can only be one active connection session at any time from a client station to a Stratus EEG Server.

The steps below outline the process for configuring a Stratus EEG Client to connect to a

Stratus Server:

1. Click the Start button



- 2. Type Centrum
- 3. Click on Centrum



4. Click Manage Connections



5. Click Add



6. On the right hand of the displayed window, enter the following:

Name: Distinguishable name for the Server

Host: click the dropdown and select https

Host: Enter the IP Address or DNS name of the Stratus EEG Server

Name	myconnec	tion
Host	https 🔻	myconnection.stratuseeg.com
Port	443	

7. At the bottom of the page click Save



8. To confirm successful configuration, click on the name assigned to the connection (from previous step) to login to the assigned Stratus EEG Server



9. To access assigned records available on the Stratus EEG Server, enter the assigned User Name and Password, then click OK



## **Client Upgrade**

Please refer to the section: Client Installation

# **Physician Client Installation**

Please refer to the section: Client Installation