FORTRA



Copyright Terms and Conditions

Copyright © Fortra, LLC and its group of companies. All trademarks and registered trademarks are the property of their respective owners.

The content in this document is protected by the Copyright Laws of the United States of America and other countries worldwide. The unauthorized use and/or duplication of this material without express and written permission from Fortra is strictly prohibited. Excerpts and links may be used, provided that full and clear credit is given to Fortra with appropriate and specific direction to the original content.

202211160341

Table of Contents

Before You Begin	4
Software Requirements and Notes	4
Installing the Unified Server	8
Configuring the Unified Server	. 33
Configuring the Sequel Web Server (SWS)	.40
Configuring TLS on SWS	.49
Configuring the Viewpoint Server	. 52
After You Are Done	56

Before You Begin

The Unified Server Install is a single process that installs any or all of the three servers that make-up the Unified Server: **Sequel Web Server (SWS)**, **Automate Schedule**, and **Viewpoint**. Make sure to read and understand this document before you install the Unified Server.

- For First-time / Trial installations, the Unified Server must be installed before Sequel 11 is installed on the IBM i.
- This is a supplemental document to the Sequel 11 Install. You should have already downloaded the necessary software as outlined in the Sequel 11 Install documentation.

Software Requirements and Notes

Unified Server

You can install the SWS, Automate Schedule and Viewpoint severs on the same physical PC. If you choose to do so, the following is required:

- A server-class PC with at least 16GB of RAM, and a 2GHZ+ processor with 4 or more cores.
- 64-bit Windows 8/8.1 Professional with Service Pack 3 or higher or Windows Server 2012/2012 R2/2016.

NOTE:

- If the Unified Server is going to be installed on a PC running other mission critical services, consideration must be given to workloads and resource contention between the various services. Our recommendation is to allocate a dedicated server for Sequel [Showcase].
- IBM i Access for Windows or IBM i Client Access Solutions (for Windows 10) is required to define the Power i Host Systems on the server. See the Viewpoint Client requirements for more on this.

Sequel Web Server (SWS)

This server is optional and should be configured if you intend to use the Sequel Web Interface to take advantage of multiple system access, interactive (pivot) Client Tables via a browser, the Viewpoint Repository, or job scheduling. The following is required:

- A server-class PC with at least 16GB of RAM, and a 2GHZ+ processor with 4 or more cores..
- 64-bit Windows 8/8.1 Professional with Service Pack 3 or higher or Windows Server 2012/2012 R2/2016.

Automate Schedule Server

This server is optional and should be configured if you intend to use job scheduling in conjunction with the Viewpoint Repository. The following is required:

- A server-class PC with at least 16GB of RAM, and a 2GHZ+ processor with 4 or more cores.
- 64-bit Windows 8/8.1 Professional with Service Pack 3 or higher or Windows Server 2012/2012 R2/2016

Automate Schedule works in conjunction with (requires) SWS, and can be configured on the same hardware. If you choose to do so, follow the OS requirement for the SWS Server above.

Viewpoint Server

This server is optional and should be configured if you intend to use the Sequel Web Interface to make Client Reports (new or converted from Showcase) available via a browser. The following is required:

- A server-class PC with at least 16GB of RAM, and a 2GHZ+ processor with 4 or more cores..
- 64-bit Windows 8/8.1 Professional with Service Pack 3 or higher or Windows Server 2012/2012 R2/2016.
- Viewpoint Client Software. See the Viewpoint Client requirements for more on this.
- IBM i Access for Windows or IBM i Client Access Solutions (for Windows 10) is required to define the Power i Host Systems on the server. See the Viewpoint Client requirements for more on this.

The computer should be fast enough to run Viewpoint requests quickly, and have access to the local network so that it can receive requests and route Viewpoint output to its desired location.

Viewpoint Client

Viewpoint is the Windows interface to Sequel 11 and is used to create, access, run, and manage your Viewpoint objects (queries, reports, scripts, dashboards and so on). The following is required:

- A PC with at least 2GB of RAM, 250Mb of available disk space, a Pentium (or equivalent) processor, graphics resolution of 800 x 600 or higher along with the following:
- 64-bit Windows 8/8.1 Professional with Service Pack 3 or higher or Windows Server 2012/2012 R2/2016 with:
 - IBM i (System i, iSeries, Client) Access for Windows version V6R1 service pack SI35607 (or higher), or V7R1 service pack SI53809 (or higher) with the following installed components:
 - Client Access Express Required Programs.
 - iSeries Navigator Base Support (an option under iSeries Navigator).
 - Commands Component (an option under iSeries Navigator for prompting commands in the script designer).
 - OLE DB Provider (an option under Data Access).

To verify these components are installed, go to: Start\Programs\IBM iSeries Access for Windows\Selective Setup.

- a. On the Selective Setup window, press Next.
- b. On the Selective Setup Options window, select **Ignore, I am only going to uninstall** and press **Next** (you won't uninstall, but will check if the components are installed).
- c. On the Component Selection window, verify that **Required Programs** is selected.
- d. Expand the iSeries Navigator node to verify that the **Basic Operations and Commands** components are listed and selected.
- e. Expand the Data Access node and verify that **OLE DB Provider** is listed and selected.
- A System i defined in iSeries Navigator.

This is sometimes an issue for people who don't typically use Client Access as their emulator. If you start iSeries Navigator, you should see your System i under My Connections. To check, go to: Start\Programs\IBM iSeries Access for Windows\iSeries Navigator\My Connections.

• Microsoft .NET 3.5 or higher.

or

- Windows 10/11 with:
 - IBM Access Client Solutions (ACS) Windows Application Package with the following installed components:
 - Required Programs.
 - OLE DB Provider (an option under Data Access).

To verify these components are installed, go to: Windows Settings\Apps and features OR Control Panel Programs and features. Find IBM i Access Client Solutions – Application Package and click on Change or Modify. Be patient as it can take the Install Shield wizard quite a while to open. Make sure the OLE DB Provider does not have a red x indicating it is not selected.

- A System i defined in iSeries Navigator.
- Microsoft .NET 3.5 or higher.

Viewpoint Excel Add-in

- Excel 2010 and greater (32-bit).
- Microsoft .NET 4.5 or higher is required for the ViewPoint Excel Add-in.

During install, a message will display if .NET is deficient. This will not halt nor harm the install process, and you should continue if prompted. .NET can be updated any time after the ViewPoint install and is available at:

http://www.microsoft.com/en-us/download/details.aspx?id=30653

or

http://www.microsoft.com/en-us/download/details.aspx?id=17851

or

http://msdn.microsoft.com/en-us/library/5a4x27ek%28v=vs.110%29.aspx

Installing the Unified Server

- 1. Move the Unified Server setup file (**setupUnified-sequel.exe**), downloaded from the HelpSystems Web Site, to the server PC you wish to install onto.
- 2. Run (double-click) the setup file to start the install. Press **Next** on the Welcome screen to continue.

📢 Unified Server Setup	– 🗆 X
	Welcome to the Unified Server Setup Wizard
	This program will extract ViewPoint, SEQUEL Web Server and Automate Schedule installers and run each one. Optionally, you can select custom and then select which products to install. Click next to continue.
Sequel Automate Schedule	
	Next > Cancel

NOTE:

The Unified Installer progress screen remains open during the entire process and may become hidden behind other input dialogs or progress windows. Drag this Welcome screen or the Component screen that follows somewhere off-center on your desktop to more easily keep track of your progress.

3. On the Choose Components screen the install type defaults to Typical which installs all three servers. Select Custom to choose the servers to install.

Press **Install** to continue.

Unified Server Setup		– 🗆 X
Choose Components		
Choose which features of Un	ified Server you want to install.	helpsystem
Check the components you v	vant to install and uncheck the comp	oonents you don't want to
install. Click Install to start th	e installation.	
Select the type of install:	Custom \checkmark	
Or, select the optional	ViewPoint	Description
components you wish to install:	SEQUEL Web Server	over a component to
	Automate Schedule	see its description.
Space required: 1.2GB		
Jullsoft Install System v12-Jul-2	2011.cvs	
	< Pack	Install
		Instan Caricer

NOTE:

A warning will diplay if the install detects any active Viewpoint Listeners.



The Unified Install first extracts the Viewpoint client software, and then launches the Viewpoint Setup Wizard.



4. At the Viewpoint Welcome screen, press **Next** to start the Viewpoint Setup Wizard. (Again, this occurs alongside the Unified Server install process)



5. Press **I Agree** at the License Agreement screen to continue.

SEQUEL Web Server Setup	_		\times
License Agreement	🗘		
Please review the license terms before installing SEQUEL ViewPoint.	helps	syste	ems
Press Page Down to see the rest of the agreement.			
3Y SELECTING "AGREE," OR INSTALLING, COPYING OR OTHERWI SOFTWARE PRODUCT ("PRODUCT"), YOU ACKNOWLEDGE THAT, INDIVIDUAL OR AN AUTHORIZED REPRESENTATIVE OF AN ENTIT TO BIND IT ("purchaser"), YOU HAVE READ THIS LICENSE AGREEN IT, AND AGREE TO BE BOUND BY IT.*	SE USING THE WHETHER AS Y WITH AUTH MENT, UNDER	E AN ORITY STAND	^
License Upon receipt of Purchaser's payment for the Product (which includ accompanying documentation), SEQUEL Software grants the Purch party identified in the final quote or purchase order pursuant to wh made available) a perpetual, limited, non-exclusive, non-transfera	es the softwa haser (the lice hich the Produ ble license to	re and insing uct was use the	~
If you accept the terms of the agreement, click I Agree to continue agreement to install SEQUEL ViewPoint.	e. You must ad	cept the	
Nullsoft Install System v2,46			
< <u>B</u> ack	I <u>A</u> gree	Cano	el

6. Choose which shortcuts to create and press **Next** to continue.

SEQUEL Viewpoint Setup		—		×
Shortcuts Where would you like to place shortcuts?	ł	nelps	yste	ms
Please select where to place shortcuts.				
Quick Launch panel				
Nullsoft Install System v2.46				
	< <u>B</u> ack <u>N</u> ex	(t >	Cance	ł

7. For Viewpoint, there are three components available to install: Client Report Option, Administrator, and the Excel Add-in. Choose the Custom option and select Client Report Option and Administrator. Press **Next** to continue.

SEQUEL Viewpoint Setup		– 🗆 X
Choose Components Choose which features of SEQL	JEL Viewpoint you want to install.	helpsystems
Check the components you war install. Click Next to continue.	nt to install and uncheck the compo	onents you don't want to
Select the type of install:	Custom \lor	
Or, select the optional components you wish to install:	 Client Report Option Administrator Excel Add-In 	Description Position your mouse over a component to see its description.
Space required: 364. 1MB		
Nullsoft Install System v2.46		
	< <u>B</u> ack	Next > Cancel

NOTE:

If you select the Administrator component, you will be prompted to provide a password. <u>Contact a support representative to obtain the password before you install</u>.

8. This screen displays only the first time Viewpoint is installed. Press **Install** to continue.



9. Check the box to run Viewpoint (recommended). Press **Finish** to continue and launch Viewpoint (shown below).



Viewpoint's Explorer screen.

Q ViewPoint		- • •
<u>F</u> ile <u>E</u> dit <u>V</u> iew <u>T</u> ools <u>H</u> e	elp	
🙀 <u>N</u> ew 👻 🖗 <u>D</u> esign 🛛 Display	👻 📊 <u>S</u> ave Results 👻	🔄 E <u>m</u> ail 🚿 <u>P</u> rint 👻 😦
Existing Recent New		
Library: RBUENAFE -	Name:	Type: SEQUEL \
ADDISON BEAR CYBRKING DEMETER YOGI	Name	Туре
	•	4
Ready		

10. The Unified Install continues by extracting the Sequel Web Server (SWS) software and launching the SWS Setup Wizard.



11. At the SWS Welcome screen, press **Next** to start the SWS Setup Wizard.

SEQUEL Web Server Setup	- 🗆 X
	Welcome to the SEQUEL Web Server Setup Wizard
	This wizard will guide you through the installation of SEQUEL Web Server (Build 20170811).
	It is recommended that you close all other applications before starting setupSequelWebServer.exe. This will make it possible to update relevant system files without having to reboot your computer.
	Click Next to continue.
	Next > Cancel

12. This screen displays only the first time SWS is installed. Press **Install** to continue.

SEQUEL Web Server Setup		_		×
Choose Install Location		1		
Choose the folder in which to install SEQUEL Web Server.	he	lps	yste	ms
Setup will install SEQUEL Web Server in the following folder. To inst dick Browse and select another folder. Click Next to continue.	tall in a d	differer	nt folder,	
Destination Folder		Descu		
C: Program Files (x86) SEQUEL		Brows	se	
Space required: 520.4MB				
Space available: 38.1GB				
Nullsoft Install System v12-Jul-2011.cvs				
< <u>B</u> ack	<u>N</u> ext >		Cance	el

13. Choose which shortcuts to create and press **Install** to continue.

SEQUEL Web Server Setup			_		×
SEQUEL Web Server for Windows Where would you like to place shortcuts?		I	help	> syste	ems
Please select where to place shortcuts					
Desktop					
Quick Launch panel					
Nullsoft Install System v12-Jul-2011.cvs ————	< <u>B</u> ack	In	istall	Can	cel

SWS install progress.

SEQUEL Web Server Setup	- 🗆 🛛
Installing Please wait while SEQUEL Web Server is being installed.	helpsystems
Extract : bin\cpappend.bat	
Extract : RUNNING.txt Extract : ReleaseNotes.html Extract : bin\bootstrap.jar Extract : bin\catalina-tasks.xml Extract : bin\catalina.bat Extract : bin\catalina.sh Extract : bin\commons-daemon-native.tar.gz Extract : bin\commons-daemon.jar Extract : bin\configtest.bat Extract : bin\configtest.sh	· ·
Nullsoft Install System v12-Jul-2011.cvs ————————————————————————————————————	Next > Cancel

14. When the Sequel Web Server Setup screen displays, specify (to create) the Windows user and password under which the servers will run. Press **Create** once the password is accepted.

The Tomcat Username and Password defaults to *admin / adminpwd*. Change them if you wish. If you are using Automate Schedule, the Admin password in SWS must be the same as the Admin password in Automate Schedule.

Important: If you change the Tomcat Username and Password values, write them down here:

These values are needed to log on before configuring <u>Automate Settings</u> and <u>Viewpoint Settings in SWS</u>.

Q SEQUEL Web Server	Setup	-	\times
Create Windows Use	er		
User Name:	sequelweb		
Password:			
Potrao Desculord			
Retype Passworu.			
Crea <u>t</u> e Cl	ear_		
Tomcat User authori	ized to Global SWS settings		
Username:	admin		
Password:	******		
Retype Password:	******		
Information			
The windows user s	equelweb does not exist.		
 Enter the de Upon succe 	esired password, then click Create. essful creation, click OK to continue the installation.		
The tomcat user exis	sts.		
● Enter new t ● Click OK to	username and/or password to override the existing username and/or password. save and continue the insallation.		
	· · · · · · · · · · · · · · · · · · ·		

Press **OK** to continue.

15. The Sequel Web Server Configuration Manager screen assigns ports for the Apache and Web servers. The installer shows you the default ports if they are available. If a port is not available, enter a new port number and click **Test** to see if it is available. Once all ports are set, press **OK** to save the ports and continue the installation.

SEQUEL Web Sen	ver Configura	tion Manager		_		×
ort Settings						
Apache Http Serv	er					
Listen Port:	80	؇ Port 80 is available.				
Database Port:	5433	🖋 Port 5433 is available.				
Neb Server						
Shutdown Port:	8007	🖋 Port 8007 is available.	Default 8005 is in use.			
Connector Port:	8080	🖋 Port 8080 is available.				
AJP 1.3 Port:	8012	🖋 Port 8012 is available.	Default 8009 is in use.			
Test Re	vert					
formation						
II selected Ports a	are available:					
 Press Ok 	to save and	use these ports.				
 Select dif 	ferent port nu	mbers and test.				
				ОК	Ca	ncel

NOTE:

To access this screen in the future, run the application, *Sequel Web Server Configuration*, located in the All Programs\SEQUEL Web Server folder. You can also use Windows Search to locate the application.

16. Check the box to launch a browser and connect to the SWS server (recommended). Press **Finish** to continue.



Browser connected to SWS.

Q SEQUEL × +	
(♦) @ hs0409/sequel/web/index.html ▼ C S - Google P ☆ 自 ↓	⋒ ≡
SECTIEI Skybot Login 🐍 Settings - He	lp About
Software	
Explorer	
Library*	
Object Actions Filter Results	ate
Type All v	
─ ▼ more options	
Reset	
1.3 2014-09-04 @ 2014 Hel	tal Objects 0

17. The Unified Install continues by extracting the Automate Schedule software and launching the Automate Schedule Setup Wizard.



18. At the Automate Schedule Welcome screen, press **Next** to start the Automate Setup Wizard.



19. The Automate Schedule install will check your PC for minimum requirements. Press **Next** to continue.



NOTE:

Automate Schedule will install and run on Windows XP and greater. A red indicator merely means that an item doesn't meet a suggested minimum.

20. This screen displays only the first time Automate Schedule is installed. Press **Install** to continue.

🙆 Automate Schedule Setup	_		×
Choose Install Location Choose the folder in which to install Automate Schedule.	A	Sche	dule
Setup will install Automate Schedule in the following folder. To insta Browse and select another folder. Click Next to continue.	ill in a diffe	erent folder,	dick
Destination Folder C:\Program Files (x86)\Help Systems	E	rowse	
Space required: 668.0MB Space available: 104.1GB Nullsoft Install System v24-Mar-2015.cvs			
< <u>B</u> ack	<u>N</u> ext >	Can	cel

21. Choose which shortcuts to create and press **Install** to continue.

🙆 Automate Schedule Setup	_		×
Automate Schedule Server for Windows Where would you like to place shortcuts?	A	Schee	dule
Please select where to place shortcuts			
Desktop			
Quick Launch panel			
Nullsoft Install System v24-Mar-2015,cvs ————————————————————————————————————	<u>I</u> nstall	Cano	el

Automate Schedule install progress.

🙆 Automate Schedule Setup		_		\times
Installing Please wait while Automate Schedule is being ir	stalled.	As	ichec	lule
Extract: masterToStandby.exe				
Extract: schent-mp-servergui.jar Extract: schent-mp-module.jar Extract: schent-mp-automate.jar Extract: backupdatabase.bat Extract: Create_Skybot_Server_Symlinks.bat Extract: restoredatabase.bat Extract: run_java.bat Extract: reportrunner.bat	:			^
Extract: checkmaster.bat Extract: masterToStandby.exe				~
Nullsoft Install System v24-Mar-2015,cvs ———	< <u>B</u> ack	<u>N</u> ext >	Cance	2

You may see this pop-up if your PC does not have the Microsoft Visual C++ Redistributable.



22. The Create Automate User screen only displays the first time Automate Schedule is installed. Specify (to create) the user and password under which the servers will run.

🙆 Automate Schedule Create Automate User	-		\times
Create Automate Windows User			
Windows User			
User Name: Automate			
Password:			
Retype Password:			
Create Clear			
Information			
The user Automate does not exist.			
 Enter the desired password, then click Create. Upon successful creation, click OK to continue the installation. 			
	ОК	Can	cel

Press **Create** once the password is accepted, and then **OK** to continue.

23. The Automate Schedule Configuration Manager screen assigns ports for Automate Schedule and Web servers. The installer shows you the default ports if they are available. If a port is not available, enter a new port number and click Test to see if it is available.

Important: Write down the Web Server\Connector Port value here:_____

_

This is needed later to set SWS values related to <u>Automate Schedule</u>. Once all ports are set, press **OK** to save the ports and continue installation.

Automate Schedu	le Configuration Manager —		;
Startup Options — Hold Schedule	r 🗌 Hold Agents		
Port Settings Automate Sched	ile Server		
Listen Port:	7472 Port 7472 is available.		
Database Port:	7432 Port 7432 is available.		
Web Server			
Shutdown Port:	8005 🕑 Port 8005 is available.		
Connector Port:	8008 🗹 Port 8008 is available.		
Test Re	vert		
formation			
All selected Ports	are available:		
Press Ol	to save and use these ports.		
e Select di	ferent port numbers and test.		
	ОК	Can	:el
			_

To access this screen in the future, run the application, Automate Schedule Configuration, located in the **All Programs\Automate Schedule** folder. Or use Windows Search to locate the application. 24. **This is not a repeated screen**. This Welcome screen starts the Automate Schedule Agent sub-install and is still part of the overall Automate Schedule install (step 17). Press **Next** to continue.



25. You do not need to change anything here.

Important: Write down the Remote Server to Connect:_____

This is the Automate Schedule Server IP address (the server you are installing Automate Schedule and the Unified Server onto). This is needed later to set SWS values related to <u>Automate Schedule</u>). Press **Next** to continue.

🙆 Automate Schedule Agent Setuj	p		_		\times
Agent for Windows Please enter the information below	to create a Window	/s agent.	As	Schee	dule
Alias Name:	Default				
Local Port number:	7473				
Remote server to connect:	10.60.153.13				
Remote server Port number:	7472				
If you are using firewall software of Port number.	n this PC, it must all	ow incomin	ig connections	to the Loc	al
Windows Agent names appear in Au Agent's alias name (up to 20 charao	utomate Schedule a :ters).	s your com	nputer name fo	llowed by	the
Nullsoft Install System v24-Mar-2015.c	:vs				
	< <u>E</u>	<u>a</u> ck	<u>N</u> ext >	Cano	el

26. Choose which shortcuts to create and press Next to continue.

ᢙ Automate Schedule Agent Setup	—		×
Agent for Windows			
Where would you like to place shortcuts?	(A)	Schee	dule
Please select where to place shortcuts			
⊡ <u>D</u> esktop			
Quick Launch panel			
Nullsoft Install System v24-Mar-2015.cvs ————————————————————————————————————	Install	Cano	el
Automate Agent install progress.			
ᢙ Automate Schedule Agent Setup	—		\times
Installing Please wait while Automate Schedule Agent is being installed.	A	Schee	dule
Extract: vcredist_x86_2005sp1.exe			
Build R04M011170605 MD5: [5255c68f836457c653c36068184eb1da] for C:\Program Fi First time install value: 1 (1/Yes 0/No) Output folder: C:\Program Files (x86)\Help Systems\Automate S	iles (x86)\Help chedule Agen	o Syste… t\/ib\sig…	^

Output folder: C:\Program Files (x86)\Help Systems\Automate Schedule Agent

Extract: sigar-x86-winnt.dll Extract: sigar-x86-winnt.lib

Extract: isProductCodeInstalled.exe Extract: vcredist_x86_2005sp1.exe

Nullsoft Install System v24-Mar-2015.cvs -

Redistributable.

< <u>B</u>ack

You may see this pop-up if your PC does not have the Microsoft Visual C++

 $\underline{N}ext >$

v

Cancel



27. Check the box to launch the Automate Schedule Agent Manager (recommended). Press **Finish** to continue.



The Automate Schedule Agent Manager.

🙆 Auton	nate Schedule A	gent Manager				-		\times
Agents	Properties	Console Output						
🕥 Defau	ılt	Add	Agent Information					
			Status:	🕥 Active				
		Remove	Alias:	Default				
		Edit	Configuration File:	agent.xml				
		Comu	Auto Start:	Yes				
		<u> </u>	Server Address:	10.60.153.13				
			Server Listen Port:	7472				
		Start	Agent Listen Port:	7473				
			Log File:	Not specified				
		Stop			Dis	niav An	ent Loa	
		Restart						
Automate	Schedule Age	nt Server is connecte	ed.					

28. Check the Launch Browser option and press **Finish** to complete the install and launch Automate Schedule.

NOTE:

Launching the browser the first time initiates the configuration process described in the next section of this document.

🙆 Automate Schedule Setup	- 🗆 ×
	Completing the Automate Schedule Setup Wizard
	Automate Schedule has been installed on your computer. Click Finish to close this wizard.
	< <u>B</u> ack <u>F</u> inish Cancel

The final Unified Install completion screen displays. Press **Finish** to close.

Unified Server Setup	- 🗆 ×
	Completing the Unified Server Setup Wizard
	Unified Server has been installed on your computer.
	Click Finish to close this wizard.
Sequel	
Automate Schedule	
	< <u>B</u> ack <u>Finish</u> Cancel

All the components of the Unified Server should now be installed.

If you chose to launch all the components during the install you should have a Viewpoint Explorer, Sequel Web Server browser, Automate Schedule Agent Manager, and an Automate Schedule browser open on the desktop.

You are now ready to configure the Unified Server components starting with Automate Schedule.

Configuring the Unified Server

Configuration of the Unified Server components starts with Automate Schedule. After configuring Automate Schedule you will install Sequel on the IBM i. Then you will complete this section to configure the Sequel Web Server (SWS), and finally the Viewpoint Server.

NOTE:

These steps are only required for first-time installs.

Configure Automate Schedule

The following configuration steps are required to integrate Automate Schedule with Sequel Web Interface:

- Set a new Admin password
- Apply a product license
- Add Email Notification Settings
- Add an IBM i Agent Environment
- Create a new Automate Schedule user (optional)
- Configure SWS Web Service (required for Repository mode)

This process starts the first time the Automate Schedule server is accessed—either at the end of the install process (<u>step 28</u>), or by clicking the program shortcut on the Desktop or Quick Start menu depending what you specified during install (<u>step 21</u>).

1. Enter and confirm a new password for the Automate Admin user. This must be the same as the Admin password on the SWS server.

Important: Write down this new password here:_____

This password will be entered as <u>SWS Default User</u> setting related to Automate Schedule.

💧 Login » Automate	Sch 💘 🗙					1	_		×
\leftrightarrow \rightarrow C \bigcirc No	t secure 10.60.153.13:800	08/automate-schedule/first_login	☆ 🛽		D ()	8		22	• :
		Auto Sche	oma [:] edul	te e					
	Welcome t	o Automate Sche	edule! Pl	ease	e er	nter			
	a new	password for the	e 'admin	'use	er.				
		New password for 'admin							
		Confirm new password:							
			Save						

- 2. You will be prompted to enter your Automate Schedule license. If you don't have a license, contact your HelpSystems sales representative .
- 3. On the menu select **Admin\System Settings** and scroll down to the Email Notification section.

ystem Settings » Auti 💘 🗙				
C 10.60.153.13:8	008/automate-schedule/syst 🛧 📜 🍃 🛈 💿		5	2
lome History ▼ Jobs ▼	Objects ▼ Universal Connector Agents ▼ Server ▼	Analy	sis Toq A	dmin
Email Notification			[EDI]	n
SMTP Address:	smtp.your-company.com			
SMTP Port:	25			
Use SSL:	No			
SMTP Server Timeout:	60 seconds			
Server requires Authentication:	No			
Sender Email Address:	no-reply@automate-schedule-server.com			
Maximum Email Attachment Size:	10 megabytes			
SNMP Notification			[EDI]	n
SNMP Trap Managers:	None defined			
SNMP Trap Monitor			[EDI]	n
Monitor for SNMP Traps:	No			
SNMP Trap Port:	7462			-1

- a. Press the **Edit** link and enter the values (address, port, and so on) to use your mail router.
- b. At the bottom of the page, press **Save** to finish.
- 4. Back at the menu, select **Objects\IBM i Agent Environments**.

G 10.60.153.13:8008	3/automate-schedule, 🛧 🗾 💈	9 0 0 焓 🚺 🖬 💐
ome History 🕶 Jobs 🕶 Objec	ts 🔻 Universal Connector Agents 🔻	Server 🔻 🛛 Analysis Tools 💌 🛛 F Admir
Dbjects	Command Objects	Server Definitions
Agent Environments	Command Sets	Automate System Definitions
Calendars	Return Codes	Remote Servers
Date Lists	Monitors	File Transfer Systems
Notification Lists	Agent Event Monitors	Web Server Definitions
Automate Schedule Variabl	es SNMP Trap Monitors	
rd Party Integration SAP NetWeaver®	S Informatica®	
System Definitions	Informatica Cloud® Server De	efinitions
Job Definitions	Informatica® PowerCenter® S	System Definitions
ABAP Step Sets	IBM [©] i	Microsoft [®]
Run Intercepted Jobs	IBM [®] i Agent Environments	SQL Server® Definitions
	IBM [®] i Command Sets	Oracle®
Job Overview		Oracle [®] System Definitions

IBM i Agent Environments are named groups of IBM i job control defaults that contain attributes to run your jobs. These attributes are stored in one place and shared across multiple jobs and if something changes, you change it in one place, not every job.

- a. Press the **Create IBM i Agent Environment** button to access the new environment entry screen (be- low).
- b. Specify a unique Name for the new environment and a Description.
- c. Set the Job Description to ***USRPRF** and the (iSeries) User Profile to JOBUSER. Press **Save** to continue.

	tomate-schedule/ibmi_agent_environmer 🚖 🗾 謅 🕕	6 🕭	5		×2 (
History ▼ Jobs ▼ Object	ts ▼ Universal Connector Agents ▼ Server ▼ Analysis Tools	- ▼ Repo	orts ▼	A Adr	minist
IBM® i Agent Envir	onment » New		•		
General					
Name:	SWS				
Description:	SWS				
-	Provide a useful description.				
Tags:	Organize with tags!				
Job Description:	*USRPRF				
Job Description:	*USRPRF				
	*JOBD v				
Job Queue:					
Job Queue: Job Queue Priority:	"JOBD (default), job queue name or library qualified job queue. *JOBD 5				
Job Queue: Job Queue Priority:	"JOED (default), job queue name or library qualified job queue.				
Job Queue: Job Queue Priority: Output Queue:	*JOBD (default), job queue name or library qualified job queue.				
Job Queue: Job Queue Priority: Output Queue: Message Queue:	"JOBD (default), job queue name or library qualified job queue.				
Job Queue: Job Queue Priority: Output Queue: Message Queue:	'JOBD (default), job queue name or library qualified job queue.				

You can specify any existing user on the IBM i, or create a new iSeries profile to run these jobs.

- (Optional) Create a new Automate user to use for SWS/Automate Schedule functions. This user is refer- enced in the Automate Schedule Setting for SWS (page 27).
 - a. Select **Admin\Users** from the menu and press the **Create User** button to open the User>New screen.
 - b. Enter the required values and set the **Role** to either User, Operator or Administrator.

utomate Sch 🔌 🗙					1	-		
(i) Not secure 10.60.153.1	3:8008/automate-schedule/users/new 🛣	ج 🛃 🙏	D ()		5		×8 🔮	9
History • Jobs • Objec	ts ▼ Universal Connector Agents ▼ Se	rver 🗸 An	alysis	Tools	• F	Re Ad	lministr	2
User » New				(
General					1			
Name:	The user's real name.							
Description:								
Notify User of System Events:	Notify this user when important system events occur.				1			
User Details								
Username:	Denide a success for the second				1			
Email Address:	Provide a username for the user.				1			
Language:	en				1			
Role:	Operator Select a role for the user.	*			1			
Enabled:	Allows the user to log in and use this product.				1			
Password Expired:	Forces user to change password when checked.				1			
New password:	Provide a user password.							
Confirm new password:								

c. Press Save to create the user account.

Configure SWS Web Service for Automate Schedule

For Automate Schedule to make web service calls to SWS, there must be a defined web service inside of the Automate Schedule interface with the URL of the SWS server. This is the communication link between SWS and Automate Schedule, and it must be manually configured. Perform the following steps if you plan to operate SWI in Repository mode:

1. From the menu, select Objects\Web Server Definitions.

🖕 skybot ❤ SCHEDULER Home History ▾ Jobs ▾	Objects • Agents • Server • Analysis Tools • Reports • Admin •
Web Server Definitions	
Create Web Server Definition Tags:	Match Any Tag Not Eitered
Name 🔺	Des Base URL
SWSLOCAL	SWS http://localhost:8080/sequel/sws

2. Pres the green **Create Web Server Definition** for a new definitions. Specify a Name, Description and the URL of the Sequel Web Server.

Home Histor	ry ▼ Jobs ▼ Objects ▼	Agents ▼ Server ▼ Analysis Tools ▼ Reports ▼	Admin 🗸
	Web Server Definiton	» SWSLOCAL	0
	General		[EDIT]
	Name:	SWSLOCAL	
	Description:	SWS on Localsys	
	Tags:		
	Definition Details		[EDIT]
	Base URL:	http://localhost:8080/sequel/sws	
	Ignore Invalid Certificate Errors:	No	
	Character Set:	UTF-8	
	Authentication Type:	No Authentication	

This web server definition can be named anything that the user likes. In the above example, it is named **SWSLOCAL** to indicate that it's talking to SWS on the localhost. The important part from a configuration perspective is that the name of the WebServer Definition be set in the Automate Schedule properties (page 30) in SWS. Press Save to save changes and close the screen.

3. From the menu select **Agents**, and double click the local agent for the server. It will be named *swsServer_DEFAULT*.

Agents							
Preferences - Upo	iate All Agents Tags:	Match Any Ta	ag Not Filtered			Stat	us: Releas
Status	Name 🔺	Description	Operating System	Agent Rel/Mod	Jobs On Queues	Active Jobs	Queue
Retive (Unlic	BAMBI_SKYAGENT	Registered 2017-09-22 16:00 CDT	OS/400 V7R2M0	A R03M091161028	0	0	No
Active	MHS0409_DEFAULT	Registered 2017-08-29 14:16 CDT	Windows 7 6.1	R04M011170605	0	0	No
Failed (Unlic	HS0409_LARRRY	Registered 2017-09-20 08:55 CDT	Windows 7 6.1	R04M011170605	0	Unavailable	No
Failed	B HS18_SKYHS0409	Registered 2017-04-18 16:36 CDT	OS/400 V7R1M0	R04M011170612	0	Unavailable	No
Active	B HS44_SKYAGENT	Registered 2017-04-18 12:55 CDT	OS/400 V7R2M0	R04M011170612	0	0	No
Active (Unlic	E TRISTAN_SKYHS0409	Registered 2017-09-26 08:11 CDT	OS/400 V7R2M0	A R03M091151210	0	0	No
Failed (Unlic	C TRISTAN_SKYHS0409	Registered 2017-08-31 13:29 CDT	OS/400 V7R2M0	R03M091151210	0	Unavailable	No

4. In the General section, click the Edit link, and set the 'Allow Jobs to Run as the Agent's User' value to **YES**. Press **Save**.

A Schedule Home His	story 🗸 Jobs 🖌 Objects 🕇	v Universal Connector Agents v Server v Analy	ysis Tools + Reports	s ▼ Adm
	Agent » HS0409_DEF	AULT	0	
	General		(EDIT)	
	Name:	HS0409_DEFAULT		
	Description:	Registered 2017-08-29 14:16 CDT		
	Tags:			
	Aliases:			
	Job Shell:			
	Agent Rel/Mod:	R04M011170605		
	Listen Port:	7473		
	IP Address:	10.61.48.26		
	Operating System:	Windows 7 6.1		
	CPU Information:	x86		
	Time Zone:	America/Chicago		
	Allow Jobs to Run as the Agent's User:	Yes		
	Allow agent name clustering:	No		

Congratulations! The Automate Schedule Server should now be configured to interact with the Sequel Web Server.

For information on working with the Automate Agent on the IBM i, setting Automate user authority, and starting Automate on IPL, see the SWI Host Mode section of the *SWI User Guide*.

Before You Continue

If you are currently installing the Unified Server components for the first time, please stop here and complete the host Sequel install described in the Sequel 11 Install document as there are steps below that require working host software. When you are finished with the host, you can continue with the Sequel Web Server and Viewpoint Server configuration.

Note To JD Edwards EnterpriseOne Users:

To ensure correct configuration to support JDE environment and role prompting, please contact one of our Technical Support team members by using the live chat window, emailing us at <u>support.sequel@helpsystems.com</u>, or calling +1 952-933-0609 in the U.S. Outside the U.S., call ++44 (0) 870 120 3148.

Configuring the Sequel Web Server (SWS)

To configure SWS, follow the steps below to add a new host connection and enter some settings related to Automate Schedule. Use the appropriate steps depending on the mode: Host or Repository.

Host Mode

- Navigate to the address of the Sequel Web Server using the following URL: http://SWSname/sequel/web/index.html (where 'SWSname' is your server or IP address).
- 2. When the SWI Explorer displays, use the **Actions** button to select the **New\Host** option , and log on using your Tomcat credentials.

Navigator	*	Recen	it Objec	cts		
4 🧃 GUINVERE			Action	5 •		
Here and the second sec		Name	Q	Display Results Display Results in a tab	-	
 Repository 		C C		Save Results	⊳ -Ore	der Acknowledgemer
Search		Q D		Save results locally or remotely	ing -	Customer sum by re
		C	5	Print results locally or send to remote queue		
SEQUELREPO		C III		Email Results	nent	Laser Report
SQTEST		C C	\checkmark	Bookmark	Tau	
🧊 hs44		C C	\sim	Bookmark selected object		
	•	•	×	Delete Folder Delete Folder from SEQUEL Repository		
				New Create new object	•	Host
				Create new object		New Folder
					-	Job

3. In the Add New Host screen, enter the host name (network resolvable) to define the connection to the IBM i. Press **Tab**, and all the remaining fields will auto-fill with default values based on the host name.

Add New Host		×				
Name*	SystemiName					
Туре*	*ISERIES					
Database URL*	jdbc:as400://SystemiName; extended metadata = true; translate bin					
Driver*	com.ibm.as400.access.AS400JDBCDriver					
SEQUEL library*	SEQUEL					
SequelWi*	SEQUELWI					
Esend*	ESEND					
SWI Host Secure URL*	http://SystemiName:400/secure/sequel					
Verify connection (ple	ase, provide username and password below)					
Default						
Username*						
Password*						
	Reset Save Cancel)				

You should not have to change any of the values except for the **SWI Host Secure** URL string to add the port number (usually 400) for the IBM i Apache server into the URL as shown.

4. (Optional) Check the **Default** option, and enter a valid IBM i Username and Password to be used for anonymous SWI access.

NOTE:

- Anonymous users have limited functionality in SWI.
- Leave this option unchecked to force users to sign on securely (recommended).
- 5. To save the definition and verify the connection, leave the **Verify Connection** option checked, enter a valid IBM i Username and Password (or use the values specified in step 4), and press **Save**.

To save without verification, uncheck the **Verify Connection** option (Username and Password will disappear, unless Default is checked), and press **Save**.

6. A message indicating a successful connection will display along with a new host icon in the Navigation panel of the SWI Explorer.

Automate Schedule Settings

 To set the link between SWS and Automate Schedule, first add the string '?secure=true' to the current browser URL (so it reads http://SWSSVR/sequel/web/index.html?secure=true). This exposes the Set- tings button.

Select **Settings\Automate Schedule Server** in the upper-right of the explorer and you will be prompted for a SWS/Tomcat server credential. Enter the default user and password of admin and adminpwd, or the password created during the SWS install (step 14) and press **Enter**.

Note about the SWS/Tomcat user account:

A default user and password of admin and adminpwd are created during the SWS install (<u>step 14</u>). If you wish to change these values, you can easily edit the tomcatusers.xml file located in the **C:\Program Files**

(x86)\SEQUEL\SEQUELWebServer\conf folder. You may have to use Windows Search to locate this file.



The Schedule Settings screen is where you enter the values you wrote down during the Unified Server install (steps 23 and 25).

- The Schedule Host should default to the server where Automate was installed and is the **Remote Server to Connect** value from install (<u>step 25</u>).
- Set the Schedule Port to the **Connector Port** value from the Unified Server install (step 23).
- If you want SWS to interact with the Automate Server using a default user, check the Authentication box, and enter a Username and Password. You can use the Admin user and password that you reset at the start of the Automate Schedule configuration (not the SWS/Tomcat credential). You can also create a new user-class user in Automate and specify that value here.
- If this option is left unchecked, users will be prompted for a Automate

credential anytime they use Automate functions in SWS.

Automate Schedule Sett	ings X
Host*	xxxxxxx.helpsystems.com
Port*	8008
Authentication	
Default Username*	larryt
Default Password*	•••••
	Reset Save Cancel

2. Press **Save** to continue.

NOTE:

These settings are stored in the Automate Schedule.settings file located in C:\Program Files (x86)\SEQUEL\SEQUELWebServer\conf.

Don't log off yet. You still need a secure connection to continue with the <u>TLS</u> and <u>Viewpoint Server</u> sections that follow.

Repository Mode

- Navigate to the address of the Sequel Web Server using the following URL: http://SWSname/sequel/sws/ui/ (where 'SWSname' is your server name or IP address). Log on as ADMIN using the SWS (local) authenticator.
- 2. When the SWI Explorer displays, click the Hosts menu (the three stacked dots), and select the **New Host** option.

		`			
Users		Q /LARRY/larrylynn.vptview			
Veste	Q /MAR	Q /MARKA/CUSTLISTPA.VPTVIE			
HUSIS	Refresh	lers0010 MODIFIE			
	New Host	a lars0010 votview			
TRISTAN	. New Host				
	Q /BRAI	Q /BRANDY/Red Gold CAS-00100			
Lilo		Q /MARKA/PMT_DBLIS2.VPTSC			
E outer		RVL/PMT_DBLIS2_VPTSC			

3. In the Add New Host screen, enter the host Name (network resolvable) to define the connection to the iSeries. Press the **Tab** key, and all the remaining fields will auto-fill with default values based on the host name.

ADD NEW HOST	×
Name*	SystemName
Туре*	*ISERIES
Database URL*	jdbc:as400://SystemName; extended metadata = true; translate binary =
Driver*	com.ibm.as400.access.AS400JDBCDriver
SEQUEL library*	SEQUEL
SequelWi*	SEQUELWI
Esend*	ESEND
SWI Host Secure URL*	http://SystemName/secure/sequel
Verify connection (please	e, provide username and password below)
Username*	
Password*	
	Reset Save Cancel

You should not have to change any of the values except the **SWI Host Secure URL**. Make sure to insert the port number (usually 400) for the IBM i Apache server into the URL as shown.

4. (Optional) Check the **Default** option, and enter a valid iSeries Username and Password to be used for anonymous SWI access.

NOTE:

- Leave this option unchecked to force users to sign on securely (recommended).
- Anonymous users have limited functionality in SWI.
- 5. To save the definition and verify the connection, leave the **Verify Connection** option checked, enter a valid iSeries Username and Password (or use the values specified in step 4), and press **Save**.

To save without verification, uncheck the **Verify Connection** option (Username and Password will disappear, unless Default is checked), and press **Save**.

6. A message indicating a successful connection displays along with a new host icon in the Navigation panel of the SWI Explorer.

Automate Schedule Settings

1. To set the link between SWS and Automate Schedule, select **Settings\Automate Schedule Server** in the upper-right of the explorer.

The Schedule Settings screen is where you enter the values you wrote down during the Unified Server install (steps 23 and 25).

- The *Schedule Host* should default to the server where Automate was installed and is the **Remote Server to Connect** value from install (<u>step 25</u>).
- Set the *Schedule Port* to the **Connector Port** value from the Unified Server install (step 23).
- Set the *Schedule Web Service Definition* to the name defined in <u>step 2</u> of the Configure SWS Web Service section.
- If you want SWS to interact with the Automate Server using a default user, check the Authentication box, and enter a Username and Password. You can use the Admin user and password that you reset at the start of the <u>Automate</u> <u>Schedule</u> configuration (not the SWS/Tomcat credential). You can also <u>create a</u> <u>new user-class user</u> in Automate and specify that value here.
- If this option is left unchecked, users will be prompted for a Automate credential anytime they use Automate functions in SWS.

SCHEDULER SETTINGS	×
Scheduler Host*	10.99.999.99
Scheduler Port*	8008
Scheduler Web Service Definition:	
Authentication	
Scheduler Default Username*	admin
Scheduler Default Password*	
	Reset Save Cancel

2. Press **Save** to continue.

NOTE:

These settings are stored in the Automate Schedule.settings file located in C:\Program Files (x86)\SEQUEL\SEQUELWebServer\conf.

Don't log off yet. You still need a secure connection to continue with the <u>TLS</u> and <u>Viewpoint Server</u> sections that follow.

Congratulation again! The Sequel Web Server should now be installed and functional.

Configuring TLS on SWS

Follow the steps below to enable TLS from a browser to the SWS server. This process is optional but recommended.

IMPORTANT:

Before configuring TLS, you must obtain a valid certificate, comprised of the following two files:

- **xxxxx.crt** (or xxxxx.cert)
- xxxxx.key

Steps for SWS Server version 2.6 or higher

- HelpSystems recommends that the two certificate files that you have obtained are installed into folder C:\Program Files (x86)\SEQUEL\SEQUELHttpServer\certs. However, you may use any folder location.
- 2. Using Windows Services, stop the following services:
 - a. Sequel HTTP Server
 - b. Sequel Web Server
 - c. SequelDatabaseServer
- 3. Using Windows Explorer, navigate to folder C:\Program Files (x86)\SEQUEL\SEQUELHttpServer\conf
- 4. Using a text editor, edit file **httpd.conf** as follows:
 - a. Change the line "#Include conf/extra/httpd-ssl.conf" to "Include conf/extra/httpd-ssl.conf".
 - b. Save your changes.
- 5. Open the extra folder and edit file httpd-ssl.conf as follows:
 - a. Find the line "ServerName localhost:443". Replace localhost with your fully qualified server name. This must match the server name on your certificate.
 Example : ServerName MySWSServer.mydomain.com:443
 - b. Find the line "ServerAdmin admin@example.com". Replace the **example email** address with a valid email address:

Example : ServerAdmin MyServerAdmin@mydomain.com

c. Find the line "SSLCertificateFile "\${SRVROOT}/certs/server.crt". If, in step 1, you installed your certificate files into folder C:\Program Files
 (x86)\SEQUEL\SEQUELHttpServer\certs, change "server.crt" to the name of

your .crt/.cert file. Otherwise, replace "\${SRVROOT}/certs/server.crt" with the path to your .crt/.cert file.

Example : SSLCertificateFile "\${SRVROOT}/certs/certificate-name.crt"

d. Find the line "SSLCertificateKeyFile "\${SRVROOT}/certs/server.key"". If, in step 1, you installed your certificate files into folder C:\Program Files (x86)\SEQUEL\SEQUELHttpServer\certs, change "server.key" to the name of your .key file. Otherwise, replace "\${SRVROOT}/certs/server.key" with the path to your .key file.

Example : SSLCertificateKeyFile "\${SRVROOT}/certs/certificate-name.key"

- e. Save your changes.
- 6. Restart the services:
 - a. Sequel HTTP Server
 - b. Sequel Web Server
 - c. SequelDatabaseServer
- 7. Test that the SWS server now accepts secure connections

Migrating from SWS Server 2.5 or older to SWS Server 2.6 or newer

- 1. Since the SSL configuration in SWS Server 2.6 and newer (Apache 2.4.39) is substantially changed from the SWS Server 2.5 and older (Apache 2.2.29), the migration is manual.
- The certificates used in your previous version of SWS were most likely stored in C:\Program Files (x86)\SEQUEL\SEQUELHttpServer2.4.39\certs. HelpSystems recommends that the two certificate files are copied into folder C:\Program Files (x86)\SEQUEL\SEQUELHttpServer\certs. However, you may use any folder location.
- 3. Using Windows Services, stop the following services:
 - a. Sequel HTTP Server
 - b. Sequel Web Server
 - c. SequelDatabaseServer
- 4. Using Windows Explorer, navigate to folder C:\Program Files (x86)\SEQUEL\SEQUELHttpServer\conf
- 5. Using a text editor, edit file **httpd.conf** as follows:
 - a. Change the line "#Include conf/extra/httpd-ssl.conf" to "Include conf/extra/httpd-ssl.conf".
 - b. Save your changes.

- 6. Open the extra folder and edit file **httpd-ssl.conf** as follows:
 - a. Find the line "ServerName localhost:443". Replace localhost with your fully qualified server name. This must match the server name on your certificate.
 Example : ServerName MySWSServer.mydomain.com:443
 - b. Find the line "ServerAdmin admin@example.com". Replace the **example email address** with a valid email address.

Example : ServerAdmin MyServerAdmin@mydomain.com

c. Find the line "SSLCertificateFile "\${SRVROOT}/certs/server.crt". If, in step 1, you installed your certificate files into folder C:\Program Files (x86)\SEQUEL\SEQUELHttpServer\certs, change "server.crt" to the name of your .crt/.cert file. Otherwise, replace "\${SRVROOT}/certs/server.crt" with the path to your .crt/.cert file.

Example : SSLCertificateFile "\${SRVROOT}/certs/certificate-name.crt"

d. Find the line "SSLCertificateKeyFile "\${SRVROOT}/certs/server.key"". If, in step 1, you installed your certificate files into folder C:\Program Files (x86)\SEQUEL\SEQUELHttpServer\certs, change "server.key" to the name of your .key file. Otherwise, replace "\${SRVROOT}/certs/server.key" with the path to your .key file.

Example : SSLCertificateKeyFile "\${SRVROOT}/certs/certificate-name.key"

- e. Save your changes.
- 7. Restart the services:
 - a. Sequel HTTP Server
 - b. Sequel Web Server
 - c. SequelDatabaseServer
- 8. Test that the SWS server now accepts secure connections

Steps for SWS Server 2.5 or older

 HelpSystems recommends that the two certificate files that you have obtained are installed into folder C:\Program Files (x86)\SEQUEL\SEQUELHttpServer\certs. However, you may use any folder location.

NOTE:

Depending on your current SWS software level the \certs subfolder may not exist. If using this default location, create the certs folder if necessary.

- 2. Using Windows Services, stop the following services:
 - a. Sequel HTTP Server,
 - b. Sequel Web Server
 - c. SequelDatabaseServer
- 3. Using Windows Explorer, navigate to folder: C:\Program Files (x86)\SEQUEL\SEQUELHttpServer\conf
- 4. Using a text editor, edit file **httpd.conf** as follows:
 - a. Change the line "#LoadModule ssl_module modules/mod_ssl.so" to "LoadModule ssl_module modules/mod_ssl.so"
 - b. Change the line "#Include conf/extra/httpd-ssl.conf" to "Include conf/extra/httpd-ssl.conf".
 - c. Save your changes.
- 5. Open the extra folder and edit file httpd-ssl.conf as follows:
 - a. Use the text editor's 'Replace' function to replace all instances of **c:/Apache2** with **c:/Program Files (x86)/SEQUEL/SEQUELHttpServer**.
 - b. Find the line beginning ServerName and replace localhost with your fully qualified server name. This must match the server name on your certificate.
 Example : ServerName MySWSServer.mydomain.com:443
 - c. Find the line beginning ServerAdmin and replace the **example email address** with a valid email address.
 - d. Find the line beginning SSLCertificateFile and replace the entire string commencing c: with the path and name of your Certificate file.
 - e. Find the line beginning SSLCertificateKeyFile and replace the entire string with the path and name of your Certificate Key file. (Refer to step 1 for the location of these files).
 - f. Save your changes.
- 6. Restart the services
 - a. Sequel HTTP Server
 - b. Sequel Web Server
 - c. SequelDatabaseServer
- 7. Test that the SWS server now accepts secure connections.

Configuring the Viewpoint Server

Available as a result of the Viewpoint install process, the Viewpoint Listener Manager works with a licensed instance of Viewpoint to create Windows listener services. These services

receive requests from the host (via the VPTRMTCMD command) to direct the output of Client Report, Client Table, and Script objects from Sequel Web Interface.

NOTE:

Due to recent security updates Windows does not allow Viewpoint (or any other application with a UI) to start without a logged on user. After logging onto the server and starting the Viewpoint Listener, lock the server with WinKey+L instead of logging out.

Configuration of the Viewpoint server is very easy. Once the Viewpoint client software is installed and host systems are defined in Access Client Solutions, you simply need to install and configure the Viewpoint Listener Manager (VLM).

Define Power i Host Systems

For Windows 10, use IBM i Client Access Solutions to define the Power i Host Systems on the PC that will run the VLM.

When defining a new connection be sure you have matching user profiles and passwords on the Viewpoint Server and the Power i host. To do this edit the connection definition and select the Use shared credentials options on the Connection tab.

Install the VLM

1. The VLM is an executable (*VPT_Listener_Manager.exe*) file installed in the Viewpoint application folder (typically C:\Program Files (x86)\SEQUEL Viewpoint).

To run the Listener Manager, right-click and select **Run as Administrator**.

The Viewpoint Listener Manager Displays.

Q Viewpoint Listene	r Installer X			
Create New Listener	lanage Listeners			
The Viewpoint Listener receives processing requests for Client Reports and Client Tables sent from a Sequel host job. It is installed as a Windows Service that can start automatically when the system starts.				
A Viewpoint Listener listens on a specified data queue (and therefore is associated with a specific Sequel host). If requests can be sent from multiple hosts, you may define two or more listeners as required.				
Sequel Host Na	me HS44 ~			
Product library	SEQUEL			
Data Queue Na	me VPTRMTDQ in Library SEQUEL			
Service Name	Vpt_Listener_01 Start Service			
Description	ViewPoint Listener Service for HS44/SEQUEL/VPTRMTDQ			
User ID	Service Startup Type			
Password	Automatic			
	Create Service Cancel Help			

- 2. On the **Create New Listener** tab, fill in all fields, and press **Create Service** when finished.
 - Sequel Host Name Select from the list the IBM i where Sequel is installed.
 - **Product Library**: Specify the product install library. SEQUEL is the default.
 - **Data Queue Name**: Specify the data queue on the Host that this Listener will listen on (VPTRMTDQ is the default).

NOTE:

The data queue must exist before the Listener is created. The Sequel install will create VPTRMTDQ, which should be used in most instances. If requests from the Host need be run on multiple, but specific PC/SERVERs, create a new DTAQ on the Host using the following command: CRTDTAQ DTAQ(SEQUEL/CUSTOMDQ) MAXLEN(1024)

- In Library: Specify a library for the data queue. The product library is the default.
- Service Name: Enter a descriptive name that includes the name of the PC/Server that the listener resides on. This helps to identify, from the host, which server processed the request.
- **Description**: Enter appropriate Description, no spaces (default value is acceptable)
- User ID: Enter valid Host User ID (The Operational user from Viewpoint Server Setup, if applicable)
- Password: Enter the host password for selected User ID

Its recommended that :

- The **Start Service** box is checked, so the service starts at the completion of this setup.
- The **Service Startup Type** is set to **Automatic**, so the Listener Service restarts automatically on reboot.
- 3. Press Create Service.
- 4. Test the Service by issuing the following from a Host command line:

VPTRMTCMD CMD("\program files (x86)\Sequel Viewpoint\ViewPnt.exe" /v:xxxxx/SEQUELEX/crorep /d:\\xxxxxx\tmp\crorep.pdf /F:*PDF /Q ') DATAQ(VPTRMTDQ) WAITTIME(60)

(where xxxxx is the IBM i name)

5. Verify the file was created on the IFS.

Manage Viewpoint Listeners

The Manage Listeners tab displays all Viewpoint listeners and their status. From this screen you can use any of the buttons below to manage a selected listener.

Q Vie	wpoint Liste	ner Installer							×
Create I	New Listener	Manage Listener	s						
	Status	Name	Host	Data Queue	Product Library	Debug	Description		
	Running	Vpt_Listener_01	HS44	SEQUEL/VPTRMTDQ	SEQUEL	ON	ViewPoint Listener Service for	r HS44/SEQUEL/VPTRMTDQ	
	Stopped	Vpt_Listener_02	HS44	SEQUEL/VPTRMTDQ	SEQUEL	OFF	ViewPoint Listener Service fo	r HS44/SEQUEL/VPTRMTDQ	
		St	art	Stop Dele	te Debug	OFF/ON	Update UserID/Password		

Options

Start - Start the selected listener if it is currently stopped.

Stop - Stop the selected listener if it is currently started.

Delete - Delete the selected listener. If the listener is running, you will be prompted to confirm deletion.

Debug OFF/ON - Setting DEBUG to OFF and restarting the listener will turn off logging for the selected listener. Setting DEBUG to ON and restarting the listener will turn on logging for the selected listener. A log based on the name of the listener (VPT_ ServiceLog_VPTRMTDQ.txt) will be generated and saved to the C:\Program Files (x86)\SEQUEL Viewpoint folder.

Update UserID/Password - Change or update the user credentials (ID and/or Password) for the selected listener.

NOTE:

The user profile used to install Viewpoint on the serve, and any users that might sign on to run the PC, must have write access to folder **c:\windows\temp** for the listener to successfully create output for Client Reports.

TIP: We suggest that the Power i host system and the Viewpoint Server be on the same domain.

The Viewpoint Server should be installed and configured.

After You Are Done

A final congratulations! Upon completing the steps outlined in this document you should have:

- Installed all components of the Unified Server.
- Configured:
 - The Unified Server
 - Automate Scheduler
 - SWS Web Service
 - Sequel Web Server
 - ° TLS for SWS
 - Viewpoint Server.