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Segment Manager Supervisor Setup Guide

No: 24821 - 06/17 rev. 1

Catalog Numbers • Les Numéros de Catalogue • Números de Catálogo: LMSM-3E/LMSM-6E

Country of Origin: Made in China • Pays d'origine: Fabriqué en Chine • País de origen: Hecho en China

INTRODUCTION

The purpose of this document is to describe the steps needed to connect the **Segment Manager Supervisor** software to one or more LMSM-3E or LMSM-6E Segment Managers.

Before beginning this process, you must have properly installed the **Workbench** and **Supervisor** applications on the PC used for monitoring/controlling the DLM devices on your BACnet network. You must also have already installed and discovered the individual Segment Managers on the network, and imported any LMCS files into the appropriate Segment Managers.

There are four main tasks required to connect the Supervisor with one or more Segment Managers and enable proper communication between them. The steps to complete each part are described in this document:

- · Configure the Supervisor to Connect to a Remote Segment Manager.
- · Configure a Remote Segment Manager to Connect to the Supervisor.
- Set Up a Remote Segment Manager to Export Points to the Supervisor.
- · Sync the Supervisor with a Remote Segment Manager.

For each separate remote Segment manager, you must complete all of the steps.

NOTE: While it is possible to connect to multiple Segment Managers in the first section before moving on to the second section, Wattstopper recommends that you complete the entire connection process for each Segment Manager one at a time to avoid potential confusion, particularly with regard to configuring SSL certificates.

CONFIGURE THE SUPERVISOR TO CONNECT TO A REMOTE SEGMENT MANAGER

In the following steps, you configure the Supervisor to communicate with one or more remote Segment Managers.

- 1. Open the Workbench application.
 - a. Record (write down) the station name of the remote Segment Manager.
 - **NOTE:** The Segment Manager station should already be discovered, with the room names renamed and the LMCS file imported through the Segment Manager web application.
 - b. Record the IP address of the remote Segment Manager.
 - c. Record the IP address of the Supervisor.
- 2. Open/Connect to the Supervisor Station (not the Station for a remote Segment Manager).



3. Expand Station -> Config -> Drivers . Double-click Niagara Network.

✓ L Nav		Database			
🔯 🐟 💿 🧑 My Network	Ţ	Nam	e	Exts	
	<u> </u>		AcademicSurge_01	🌀 兆 🐥 📑	
다. 🚍 My Host : FAC-LMCS1 (UCDavis)	-		AcademicSurge_02	🌀 🏂 📮 📑	
🕀 📾 My File System		L			
🕀 😚 My Modules		L			
🖻 🏹 Station (UCDavis)					
🕀 🕋 Home					
🛱 🗐 Config					
⊕ ﷺ Services		L			
Drivers					
1 NiagaraNetwork					
E Bas Apps	Ξ				

- 4. In the "Database" view on the right, click New.
- 5. Select OK in the New popup dialog.

New X
Type to Add 🔲 Niagara Station 👻
Number to Add 1
OK Cancel

6. Define the new Niagara station settings (These are settings of the remote Segment Manager. Use the name and IP address that you wrote down in Step 1.)

a. Enter the Station Name.

This must completely match the Segment Manager station name (NOTE: It is case sensitive).

- b. Enter the Segment Manager IP Address.
- c. Change Fox Port to "4911".
- d. Set **Use Foxs** to "true".
- e. Enter the Username as "Imem_link".
- f. Set the **Password** to "w@ttstopper".
- g. Ensure **Enabled** is set to "true".
- h. Click OK to add the station to the Database

New								>
Name	Address	Fox Port	Use Foxs	Username	Password	Enabled	Virtuals Enabled	₽
DuttonHall_01	ip:192	4911	true	lmem_link	password	true	false	
 Name Address Fox Port Use Foxs Username 	a. Dutt b. P C. 491: d. O t	ionHall_(v	01	3.114.1] » r ₀ -	7 🛃		
○ Username C. lmem_link ○ Password f. ○ Enabled G. true ○ Virtuals Enabled Image: additional states of the states of								
h. ок Cancel								

- 7. After creating the connection, the device will ping and show as "failed" and "down".
 - This is because the SSL certificate is not yet in the Allowed Hosts section of the CertManagerService.

Database								
Name	Exts	Address	Host Model	Version	Status			
AcademicSurge_01	🔊 🖫 👃 🔜 🖉 🖄	ip: 192. 168. 106. 1	NPM6E	3.7.106.10	{ok}			
AcademicSurge_02	🌔 🌿 🐥 🔚 🖉	ip: 192. 168. 106. 2	NPM6E	3.7.106.10	{unackedAlarm}			
DuttonHall_01	🙆 🖧 🔂 🔂 🏀	ip: 192, 168, 114, 1			{down,alarm,unac			

Expand Supervisor Station -> Config -> Services -> PlatformServices.
 a. Double-click CertManagerService.



b. On the right, select the Allowed Hosts tab.

0	Certificate Management for "localhost"							
ſ	Key Store Trust Store Allowed Hosts							
Hosts and host certificates that could not be validated:								
	Allowed Hosts							
	Host	Subject	Approval	Created				
	♠ 102 169 106 2,5011	MipgorpAV	100	Tuo Apr 07 12:49:19				

c. Select the "Unapproved" certificate from the list that matches the IP address of the newly added station. If you have never connected to this device from the supervisor before, it should be flagged with a red shield. If you have connected to this device before and just need to re-validate the certificate, it will be flagged with a yellow shield, as shown in the screenshot below.

192.168.114.1:4911	NiagaraAX yes	Thu Oct 30 07:54:04 PDT 2014	NiagaraAX	Thu Oct
--------------------	---------------	------------------------------	-----------	---------

- d. If this is the first connection attempt, click **Approve** after selecting the device from the list. This option is only available on first-time connections.
- e. If this is a key revalidation, double-click the certificate and click Accept in the Detected Public Key Change window.

SHA1 Eingergrint (-)	:c9:5c:03:cb:9a:13:35:dd:96 🔽	
4	[[]	
	Accept Reject	

- 9. Go back to the NiagaraNetwork (Expand Station -> Config -> Drivers).
 - a. Double-click Niagara Network
 - b. Right-click the recently added station
 - c. Select Actions -> Ping.

R Dutto	oH-11_01	💻 🔒 🖗 🔊 🗌	• = p	ip: 192, 168
	Views		•	
	Actions		(Ping
	New		•	Join

d. Alternately, if you wait long enough, the system will automatically re-ping the device.

CONFIGURE A REMOTE SEGMENT MANAGER TO CONNECT TO THE SUPERVISOR

- Next, you must configure the remote Segment Manager to communicate with the Supervisor application.
 - 1. Open/connect to the Segment Manager Station.



2. Expand Station -> Config -> Drivers. Double-click Niagara Network.



3. Because a connection has been made from the Supervisor, the station **Status** should show "{disabled}" in the Database view on the right.



- 4. Double-click the station name to edit the properties
 - a. Enter the IP Address of the Supervisor station. (This is the address you wrote down in step 1 in the first section.)
 - b. Enter the Username as "Imem_link".
 - c. Set the Password to "w@ttstopper".
 - d. Set Enabled to "true".
 - e. Click OK.

Edit)
Name	Address	Fox Port	Use Foxs	Username	Password	Enabled	Virtuals Enabled	₽
📲 UCDavis	ip:FAC-LMCS1	4911	true	lmem_link	password	true	false	
 Name UCDavis Address a. P ▼ 192.168.0.1 » *⊙ ▼ Fox Port 4911 Use Foxs ○ true ▼ Username b. Imem_link Password C. •••••••••••••••••••••••••••••••••••								
e. OK Cancel								

5. After creating the connection, the device will ping and show as "failed" and "down". This is because the SSL certificate is not in the **Allowed Hosts** section of the **CertManagerService**.

Database							
Name	Exts	Address	Host Model	Version	Status		
🔝 UCDavis	🔊 🖧 🔁 🔂 🖓 🗅	ip:192.168.0.1			{down,alarm		

- 6. Expand Segman Station -> Config -> Services -> PlatformServices.
 - a. Double-click CertManagerService.
 - b. On the right, select the Allowed Hosts tab.

🖻 🍇 Station (DuttonHall_01)				
🕂 🗂 Home				
⇔ I Config				
🛱 🍘 Services				
🕀 🚨 UserService				
E 😗 CategoryService				
🕀 🔨 JobService				
🕀 🐥 AlarmService				
HistoryService				
🕀 🛆 AuditHistory				
E- CogHistory				
🕀 🛷 ProgramService				
🕀 🎼 BackupService				
🕀 🎆 WebService				
BoxService				
E 🔛 VelocityServlet	Certificate Manage	ement for	"192.16	8.114.1"
🕀 🔘 SegManBacnet		-		
SMUpgradeServlet	Key Store Trust Stor	e Allowed	Hosts	
EnergyService				
WeatherService	Hosts and host certi	ficates that	could not	be validated:
E PlatformServices				
SerialPortService	Allowed Hosts			
- PowerMonitorService	Host	Subject	Approval	Created
- DataRecoveryService	0 102 169 0 1:4011	NiagaraAV	00	Wed Oct 29 11:42
	¥ 192.100.0.1:4911	NagaraAA	no	Web Oct 20 11:42
WeatherService PlatformServices SerialPortService PowerMonitorService DataRecoveryService CertManagerService	Allowed Hosts Host 9 192.168.0.1:4911	ficates that Subject NiagaraAX	Approval	be validated: Created Wed Oct 28 11:4

c. Select the "Unapproved" certificate from the list that matches the IP address of the newly added station.

Allowed Hosts							
Host	Subject	Approval	Created	Issued By	N		
0 192.168.0.1:4911	NiagaraAX	no	Wed Oct 28 11:42:28 PDT 2015	NiagaraAX	T		

- d. Click Approve, then click Yes in the confirmation dialog.
- 7. Go back to the Segment Manager's NiagaraNetwork (expand Station -> Config -> Drivers).
 - a. Double-click Niagara Network.
 - b. Right-click the recently added station.
 - c. Select Actions -> Ping.

Re Dutto		🛛 🗖 🖌 🗛 🔊	<u> </u>	ip: 192. 168
	Views		•	
	Actions		\neg	Ping
	New		•	Join

d. Alternately, if you wait long enough, the system will automatically re-ping the device.

SET UP A REMOTE SEGMENT MANAGER TO EXPORT POINTS TO THE SUPERVISOR

In the following steps, you configure the remote Segment Manager to export data points to the Supervisor.

- 1. Open a Platform connection to the Segment Manager and perform a "Station Copy"
- **NOTE:** If the "SubordinateExportTagNetworkExt" is already under the "NiagaraNetwork" as shown in Step 3, you can skip Steps 1-3.
- 2. Make sure your "Palette" window is enabled.

ols	Window Manager Help	
	Side Bars	Show Side Bar
E.	🖌 PathBar Uses NavFile	Bookmarks
=	Active Plugin Ctrl+F4	🕜 <u>H</u> elp
_	+ Hide Console F4	Sobs .
	Console CODav F3	la Nav
)	🕕 Kill Console Command F10	<u>Palette</u>
)		Todo List

- 3. The window will be in the bottom-left of the AX Workbench screen
 - a. Click the **Open Palette** button.
 - b. Filter by typing "export".
 - c. Select the "exportTags" module and click **OK**.



d. Right-click SubordinateExportTagNetworkExt and select Copy.

😚 🛞 🛕 🗍 exportTags	•	
SupervisorExportTagNetworkExt		
🖶 😴 SubordinateExportTagNetworkEx		
Extensions	Views	►
🕀 🛅 Examples	Actions	► E
<	[<u>ь</u> <u>С</u> ору	
	a Refresh Tre	e Node

4. Expand the Segment Manager Station -> Config -> Drivers.
a. Right-click NiagaraNetwork and select Paste.
b. Click OK.



5. Double-click the **SubordinateExportTagNetworkExt** to open its Database.

🖻 🧺 Station (DuttonHall_01)
🕂 🕋 Home
🛱 🗐 Config
🕀 🎲 Services
🛱 🕮 Drivers
🛱 🕮 NiagaraNetwork
🕀 📠 UCDavis
🕀 😴 SubordinateExportTagNetwork

6. Double-click the Station Name to open the Properties window.

Database			
Station Name	Last Join	Station Display Name	
😴 UCDavis	null		

- 7. Configure the Join Profile as follows:
 - a. Set Enabled to "true".
 - b. Enter Default Subordinate User as "Imem_link".
 - c. Set Default Subordinate User Password to "w@ttstopper".
 - d. Set Default Subordinate Use Fox SSL to "true".
 - e. Click Save.
 - f. The Status should change from "disabled" to "ok".

🐝 Join Profile (Join Profile)	
🗆 🔘 Status	{disabled}
🗆 🔘 Enabled 🛛 🔍 🧟	v true v
🗆 🔘 Last Join	null
🗆 🔘 Station Display Name	
🗆 🔘 Default Subordinate User 🛛 🖒	lmem_link 💌
Default Subordinate User Password C,	
Default Subordinate IP Address	
Default Subordinate Port	<pre>\$foxService.port\$</pre>
🗆 🔘 Default Subordinate Use Fox SSL 🏼 🏼 🏼 d	true 🔻
Default Subordinate Fox SSL Port	<pre>%foxService.foxsPort%</pre>
🗆 🔘 Station File	file:^joinProfiles\$(defaultStationFileName).bog
∰ Station Info	Station Information

8. Right-click the SubordinateExportTagNetworkExt and select Actions -> Set All Supervisor Station Names. Then, click Yes in the confirmation dialog.

🖃 🍓 Station (DuttonHall_01)		U 🔍	Station File	file
🕂 🚰 Home		⊞ 鯔	Station Info	Statio
🛱 🗏 Config		—		
🕀 🎬 Services				
🛱 🕮 Drivers				
🛱 🕮 NiagaraNetwork				
🕀 🕞 UCDavis				
🗄 😴 SubordinateExp	Views		•	
⊕ · · · iii BacnetNetwork	Actions		Join	
🕀 🗱 Apps	N		Set A	Supervisor Station Names
🕀 🧰 Schedules	New			

9. Type in the Supervisor station Name (or select from drop-down menu), then click OK.

Se Se	t All Supervisor Station Names	x
٢	UCDavis 💌 🛞	
	OK Cancel	

SYNC THE SUPERVISOR WITH A REMOTE SEGMENT MANAGER

Once the remote Segment Manager is set to export points, the final process is to import the values from the Segment Manager into the Supervisor, by Syncing the two.

- 1. In your web browser, connect to the Supervisor User Interface by typing the Supervisor's IP Address in the address bar.
- 2. Log in, click **Configure** to enter Configuration Mode, then click the **Connections** tab.

Watts						
CONFIG	DEVICES	BACNET EXPORT	REPORTS	CONNECTIONS	JOBS	
Refresh]					
Name: Ac Model: NF Status: {o Enabled: Sync	cademicSurge_(PM6E ik} true Groups	01		Name: Academi Model: NPM6E Status: {unacke Enabled: true Sync Grou	icSurge_02 edAlarm} ps	
Name: Du Model: NF Status: {u Enabled: t	ittonHall_01 PM6E inackedAlarm} true Groups					

3. Locate the desired Segment Manager station from the list and click Sync.

Name: DuttonHall_01 Model: NPM6E Status: {unackedAlarm} Enabled: true		
Sync Groups		

- 4. Click the **Jobs** tab to monitor the status of the Sync/Join and confirm it finishes correctly. This process will take some time depending on the size of the station.
- 5. Once the Sync job is complete, return to the **Connections** tab, locate the same station again, and click **Groups**.

Name: DuttonHall_01 Model: NPM6E Status: {unackedAlarm} Enabled: true	
Sync Groups	

6. Click the **Jobs** tab to monitor the status of the Groups process and confirm it finishes correctly. This process typically finishes much faster than the Sync process

CONFIG	DEVICES	BACNET EXPORT	REPORTS	CONNECTIONS	JOBS			
Job Sta	atus							
Job Nam	10		% Don	ie	Status	Start Time	End Time	Log
Superviso	orJoinJob3		-1		Running	28-Oct-15 12:46 PM PDT		Read Log

7. Lastly, click the Config tab.

- a. Click LMCS-100 Import.
- b. Browse to the saved LMCS file for the desired building/panel.

c. Click Submit.

d. The Jobs tab will automatically be selected and you can confirm that the process completes correctly.

CONFIG	DEVICES	BACNET EXPORT	REPORTS	CONNECTIONS	JOBS
About Me System Information			LMCS Import		
Date/Time Settings Sunrise/Sunset Settings User Management User Services (LDAP)			Import File: Dutton_86024_47823.dlm		
Jser Servi	ices (LDAP)				
User Servi Network S BACnet S Device Dis	ices (LDAP) Settings ettings scovery		Submit	RS	

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No. 24821 - 06/17 rev. 1

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