

Nlyte Integration with RF Code's CenterScape

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Nlyte Integration with CenterScape by RF Code

The optional Nylte Integration Module and Nlyte's Asset Sync Framework together allow customers to integrate and synchronize data from both RF Code's CenterScape and the Nlyte DCIM solution.



Important: Nylte 7 or later must be installed and configured before the Nlyte Integration Module can be used.

The Nlyte Integration Module must be installed and configured on a new CenterScape instance to which no assets or locations have yet been added.

Minimum Requirements

- CenterScape version 1.2.1 or later
- RF Code's Nylte Integration Module package
- Nlyte 7 or 8
- Nlyte's Asset Sync Framework 7.9.140 or later
- Linux or Windows server to host module (can be installed to same host as Nlyte and/or CenterScape or to another)

Install and Configure Packages

This document assumes that Nlyte 7 or 8 is already installed and running. CenterScape and the Nlyte Integration Module must be downloaded, installed, and configured. The following steps must be completed, in the listed order, to complete the Nlyte Integration with CenterScape:

- Download and install CenterScape
 - Add at least one license key and restart service
 - Copy js0 file to jetty/logs/postupgrade and restart service
 - Import schema file supplied with Integration Module
 - Import config files supplied with Integration Module
 - Add tag groups



- Download Nylte Integration Module installer package
 - Add js0 to jetty folder
 - Restart CenterScape service
 - Verify that Nlyte Expected Location Attribute appears in CenterScape's UI
- Run serversync installer
- Run cabinetname installer
- Edit config files
- Schedule Task
- Build Location Tree
- Configure Asset Sync Framework
- Create Cabinets and Assign to Locations
- Run Full Sync

Each of these steps is described in detail in the remainder of this document.

CenterScape Installation

If you have selected the database to be used, set up the database before installing CenterScape. Otherwise, for a pilot deployment, install CenterScape using the PostgreSQL that is bundled with the product.

To install CenterScape:

- 1. Run the installer image provided by RF Code.
- 2. Follow the prompts of the Installation Wizard.
- 3. Choose the Local Zone Manager option.
 - If you are using an external database, *do not check* the Install and Configure PostgreSQL box. You will later be able to specify the database to which CenterScape will connect.
 - If you are using the default PostgreSQL Database that is integrated into the CenterScape installer, check the **Install and Configure PostgreSQL** box.
- The Admin Console will launch automatically upon completion of installation.
 NOTE: It will take a few minutes for CenterScape to initialize.
- 5. Log in with the default Administrator user name and password (case sensitive):
 - Username: admin
 - Password: admin
- 6. After logging in, proceed to the Software Configuration section(s).

NOTE: At any time, you can launch the CenterScape web interface by navigating to **Start > Programs > RF Code > CenterScape** or by navigating in a browser to http://{server host name}:6580

NOTE: Refer to the CenterScape System Administration Guide available from <u>Support.RFCode.com</u> for further details about installing and configuring CenterScape.

Add License Keys

A license key is a 16-digit encoded alphanumeric dash-separated sequence that is generated by RF Code. All license keys are unique, and depending on the coding scheme, the key will turn on specific software capabilities and entitle you to create and manage a select number of racks, assets, sensors or other items within the software. Keys may be issued with a fixed time-out basis (expiration date). At a minimum, you must enter a single Product Enablement key once CenterScape is installed. Additional license keys may be purchased and added at any time.

1. Log in. If no license has yet been added, CenterScape opens to the License Key configuration screen.

💡 CenterScape Administ	ration: Lice	nse Keys					RFCOI
3 Add License Key 🤤 Delete License Key 🕴	Service						
License Key	License Count	License Key Install Date	Expiration Date	License Key Type			
Page 0 of 0 D R							No data to
- License Key Use							
Туре		t	Used		Total	Available	
Rack		(0		0	0	
Asset		(D		0	0	
Sensor		(0		0	0	

- 2. Click the Add License Key button.
- 3. In the Create: License Key pop-up window, enter the Product Enablement Key provided by RF Code.

💡 CenterScape Administ	ation: License Ke	ys					RFCO
😌 Add License Key 🥥 Delete License Key 📲	Restart Service						
License Key	License Count Licens	se Key Install Date	Expiration Date	License Key Type			
MA Dogo of 0 D D M		Create: License	Кеу				No data ta
		License Key					NO UALA LO
License Key Use		License Key:	66GQ-WRYC-JFV7	-RVV9-VWNW-ER			
Туре						Availa	able
Rack		•			F	0	
Asset				🖌 ок 🗶 с	ancel	0	
Sensor						0	

NOTE: License Keys must be added exactly, including dashes.

- 4. Click **OK** when finished.
- 5. Click Restart Service. CenterScape performs an orderly shutdown and restart.



6. Log in.

7. If desired, navigate to Admin Console > Configuration > License Keys.

The License Key Information pane displays a partially obscured License Key, the number of units (for example, sensors or racks) licensed, the date on which each license was installed, its expiration date (Never for perpetual licenses), and the license key type.

Configure CenterScape for Nlyte Integration

As part of the CenterScape installation process, a number of folders are created on the host server. A special file must be added to one of these folders in order to support an attribute not otherwise used by CenterScape. This file is included in the Nlyte Integration Module package.

- 1. Open the Nlyte Integration Module package.
- 2. Copy the file nlyte-exp1.2.js0.
- 3. Navigate to ... jetty/logs/postupg.
- 4. Paste the file into that folder.
- 5. Restart the CenterScape service. The system takes approximately five minutes to restart.
- 6. In the CenterScape UI, login and navigate to Admin > Data Schema > System Attributes. Verify that the Nlyte Expected Location Attribute appears in the list of system attributes.

CenterScape Ac	dmin	istration: System Attribu	tes		
Tasks	«	🚱 New Statistic 🤤 Delete			
Bookmarks 💌 🥹	2	Attributes	- Name and Type		
🔢 Dashboard	+	Filter	Name*:	Nlyte Expected Location(s)	
Configuration	÷	Navigation Root	Description:	Expected Asset Location(s) Nlyte S	upplied
Customization	+	Nlyte Expected Location(s)			
Integration	+	Number Of Readers	Record Value Changes:		
Locations / Rules / Maps	+	- Confline Tag List	Values Are Unique: Restrictable:		
📑 Data Schema		On Operator	ID*:	\$aExpectedLocation	
Asset Attributes		On Value	Type * :	Custom Type List Reference	~
System Attributes		Online Status	- Custom Attribute Type List		
Calculated Asset Attributes		Out of Sync Days	Custom Attribute Type*:	Location	~
Custom Attribute Types		Outlet Active Power	Selection:	All	~
E Statistical Packs		Outlet Amperage		700	
Statistical Policies		Outlet Apparent Power	Inheritance Mapping		
		- Cutlet Bank ID	Source Reference	Mapped Attribute	Field Order
		Contract Conference in a			

- 7. Navigate to Admin > Configuration > Import Configuration > System Configuration File.
- 8. Click **Browse...** and select the schema file included in the Nlyte Integration Module package to **Upload**.
- 9. Click **Browse...** and select the configuration file included in the Nlyte Integration Module package to **Upload**.
- 10. Once all provided schema and configuration files have been imported, <u>Add Tag Groups</u> for all tags that will be used within the Nlyte integration.





Important: Tag Groups must be added before running the integration.

Configure Tag Groups

Tag Groups tell CenterScape how to interpret beacons it receives. A Tag Group is made up of a threecharacter Treatment Code and a six-letter Group Code (both printed on the label of each tag). This combination signals CenterScape to expect data from those types of tags defined by the Tag Group and instructs the system on how to treat the data it receives from them. Tag models that look and behave similarly are assigned the same Tag Group. Tag Groups must be configured for all the types of tags you have deployed, which can then be detected and associated with assets or, in the case of sensor tags, assigned to the locations where environmental conditions will be monitored.



Add a New Tag Group

1. Navigate to Admin Console > Configuration > Tag Groups and click the New button.



2. In the right pane, click the **Tag Group** drop-down menu and find the correct **Treatment Code** for the Tag Group that you want to add. When a Treatment Code is clicked, Tag Group configuration fields appear. In the **Basic Information** section, the **Group Code** (for example, RFCRCK) will be pre-populated.

NOTE: The Treatment Code is printed on each tag on the bottom right corner of the label. When you enter a Treatment Code, the Group Code will pre-populate with a common Group



Code; however, this may not match the Group Code on your tag. If it does not, enter the Group Code on your tag instead. Refer to the section on <u>Tag Codes</u> in the Appendix or the CenterScape Knowledge Base for more information about Group Codes and Treatment Codes.

NOTE: Each Tag Group can have multiple Group Codes; you may need to specify a different Group Code than the one that appears in the field.

- 3. In the **Name** field, type the **Group Code** again, unless you need to name the Tag Group something different.
- 4. Click the Save Changes button at the bottom of the window.
- After Readers and tag groups have been configured, tags can be detected.
 NOTE: It may take up to five minutes for tags to be detected after configuration.

Install RF Code's Nlyte Integration Module

The RF Code Nylte Integration for CenterScape software can be configured on Windows or Linux. It may be installed on the same host that runs Nlyte and/or, or on a separate host. The integration adds no significant drain on system resources.

Contact <u>Professional Services</u> to obtain the scripts, which are built as self-contained archives for either <u>Windows</u> or <u>Linux</u> platforms.

Install in Windows:

Two installers must be run to extract the files. They are named rfc-ss-cabinetname-impl_setup.exe and rfc-ss-serversync-impl_setup.exe. Click on each installer.

After both scripts are installed, their config files must be modified.

- 1. Click on one of the .exe installers.
- 2. Click on the second installer.
- 3. Navigate to the folder where the files were installed, RF Code > mod_data >config.



- 4. In each of the two installer files:
 - a. open the config file
 - b. replace the default *ipAddress, port, username*, and *password* with the correct information for your CenterScape instance.
 - c. If using <u>SSL</u>, add the appropriate parameters.
 - d. Save and close the configuration files.

Install on Linux:

- 1. Create an empty directory into which the integration module will be installed.
- 2. Untar the two installer packages to the directory. These installers are named rfc-ss-cabinetname-impl.tar.gz and rfc-ss-serversync-impl.tar.gz.
- 3. Navigate to the folder where the files were installed. Within this directory are two configuration files that must be modified, mod_data/config/rfc-ss-nlyte-cabinetname-impl/config.json and mod_data/config/rfc-ss-nlyte-serversync-impl/config.json
- 4. In each of the two config files:
 - a. replace the default *ipAddress, port, username*, and *password* with the correct information for your CenterScape instance.
 - b. If using <u>SSL</u>, add the appropriate parameters.
 - c. Save and close the configuration files.

SSL for Nlyte Integration

SSL is an optional security setting. There are three possible SSL options, and example code is provided below for each: <u>no SSL</u>, <u>SSL but no verification</u>, <u>SSL with imported client certificate</u>. Edit your config files to include parameters for the desired SSL settings.

 $\underline{No SSL}$ – Use non-encrypted HTTP only. (There is no need to add additional parameters to the config file.)

```
{
    "meta": {
        "rfapi": {
            "ipAddress": "192.168.0.104",
            "port": 6580,
            "username": "admin",
            "password": "RFCB64/YWRtaWF=",
        },
        "batchSize": 200,
        "concurency": 16
    }
}
```

<u>Use SSL but do not require verification of the host certificate</u> – This is useful for self-signed certificates. (Add *scheme* and *rejectUnauthorized*.)

```
{
    "meta": {
        "rfapi": {
            "ipAddress": "192.168.0.104",
            "port": 6581,
            "username": "admin",
            "password": "RFCB64/YWRtaWF=",
            "scheme": "https",
            "rejectUnauthorized": false,
        },
        "batchSize": 200,
        "concurency": 16
    }
}
```

NOTE: The password appears in plaintext when entered, but will be encypted after the first run.

<u>SSL with imported client certificate</u> – The certificate must be saved to the same host running the Nlyte Integration for CenterScape. (Add *scheme*, *rejectUnauthorized*, and *CaFile*. *User_ Provided.pem* is the file name of the certificate.)

```
{
  "meta": {
    "rfapi": {
      "ipAddress": "192.168.0.104",
      "port": 6581,
      "username": "admin",
      "password": "admin",
      "scheme": "https",
      "rejectUnauthorized": true,
      "caFile": "/Users/user1/impl/rfc-ss-nlyte-cabinetname-
impl/cert/USER_PROVIDED.pem"
    },
    "batchSize": 200,
    "concurrency": 16
  }
}
```

Set Up a Scheduled Task

RF Code has included a scheduled task that will run the Nlyte Integration component every five minutes. The directory structure it uses is based on a default install but can be modified to any directory.

In Windows:

1. In the Task Scheduler, select Import Task.



- 2. Select the task.
- 3. If the software was installed in a directory other than the default, modify the "Start in" as required.



4. Execute the task in the task scheduler to verify operation.

						_
Name	Status	Triggers	Next Run Time	Last Run Time	Last Run Result	A
Optimize Start Menu Cache F	Disabled	When computer is idle		5/23/2017 11:56:21 AM	The operation completed successfully. (0x0)	Μ
RFCode Nlyte Integration Task	Ready	At 1:30 AM every day - After tri	5/23/2017 2:10:00	5/23/2017 2:06:00 PM	The operation completed successfully. (0x0)	D

In Linux:

1. Copy the simple shell script int_master.sh to the directory in which the Nlyte Integration Module was installed. This script should be made executable.



- 2. Edit the script to set the INT_DIR parameter to the name of this directory.
- 3. Use crontab -e and place an entry in the crontab of the account used to run the software to run the int_master.sh script every five minutes. One suggestion for this would be as follows:

1,6,11,16,21,26,31,36,41,46,51,56 * * * * /opt/rfcode/rfc_int/int_master.s

Create an Integrated Location Tree

The location tree in CenterScape must be created or updated to match the Locations in iTRACS, with similar levels and naming conventions so that users can easily recognize corresponding locations across systems. As a best practice, RF Code recommends unique names for locations in CenterScape in all situations, in order to avoid any confusion with Detected Location and Assigned Location attributes. You may need to create a shorthand hierarchy for location names in CenterScape where the same names have been duplicated in iTRACS, as for example prepending a building number before a room ID. Each location to which assets will be assigned *must* have a unique name or mapping will not work well.

iT												
File	Edit	View	Design	Workflow	Window	Help						
	Root	8	E Create	Delete	Connect	Disconnect	Trace	Viewer	(All the second	Library	Planner	
An	cestry	🗃 нтх	_CableB	in1 (Cable B	in) 옷옷8	U HTX_Ser	rver1 (Server)					
				Roo	t Navigat	or						
		SA (Co	ountry)	(Oabla Dia)	°				^			
		пх_са Поту	DieBin1	(Cable Bin)	** 8							
			Server 1	(Server)								
			Server2	(Server)								
		∥нтх ∎нтх	Server4	(Server)								
		П НТХ	Server5	(Server)								
	Ū	НТХ	Server6	(Server)								
	Ō	нтх		(Server)								
	Ū	НТХ_	Server8	(Server)								
Ė	🗃 D	TX_Ca	bleBin1	(Cable Bin)	£ 8 8				=			
	J	DTX	Server1	(Server)								
	Q	DTX_	Server2	(Server)								
		DTX_	_Server3	(Server)								
		DTX_	Server4	(Server)								
	U		Server5	(Server)								
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	Ū	ATX_	Server4	(Server)								
	Ū	ATX_	Server5	(Server)								
	Ū	ATX_	Server6	(Server)								
	J	ATX_	Server7	(Server)					~			
	_	_										

- 1. In the CenterScape UI, add the corresponding locations:
- 2. Navigate to Admin Console > Locations/Rules/Maps > Locations & Rules.
- 3. Select the parent location beneath which your new Location will appear.
- 4. Click the New Location button.
- 5. Input the location *Name* and optional *Description*.



6. Save Changes. The new Location appears in the hierarchy beneath the parent location you selected.



Configure Asset Sync Framework

The Nylte Integration Module includes an updated configuration file for Nylte's Asset Sync Framework (ASF). This file must be added to the Asset Sync Framework and the RF Code plugin updated.

- 1. Navigate to the directory where the Nlyte Integration Module was installed.
- 2. Back up the XML file to a safe location.
- 3. Copy the file Configuration.RFCode.4.0.xml provided by RF Code.
- 4. Paste this file to the Asset Sync Framework plugin directory:

📕 🕨 This PC 🔸	Local Disk (C:)	Program Files (x86) Inlyte Software Asset Sync Framework Plugins	RF Code 4.0		~ ¢
	^	Name	Date modified	Туре	Size
		Configuration.RFCode.4.0.xml	5/24/2017 9:52 AM	XML Document	30 KB
ds		Nlyte.Integration.Framework.Plugin.RFCode.4.0.dll	11/19/2015 1:49 PM	Application extens	119 KB
aces		File version: 7.9.140.61884 Date created: 11/19/2015 1:49 PM Size: 119 KB			

5. After the config file has been replaced, run the ASF application and select **Settings** >**Configure...** to configure the plugin.





6. Change the web service URL's hostname and IP address to that of your CenterScape server. If using http instead of https, change that setting as well along with the appropriate port number in the URL. The default account used is admin/admin but any account with admin permissions will work.

RF Code	94.0		Licen	ised
General L	ocation Mappings	Property Mappings (Class Mappings RF Code Defaults	
Enabled Partial Syn		Sumo only the secere of	hanned einne 23 May 2017 - 11-34-03	
RF Code I	Details			
Webser	rvice URL	http://192.168.0.104:	6580/api	
Authent	tication Type	Basic v		
Usemar	me	admin		
Passwo	ord			
Default	AM Location Guid	St UnknownLocation		
Record St	tatuses	· 🗆		
	Enabled	Status	Operational Status	
►	✓	Active	•	
		Decommissioned	·	
	✓	Recycled	·	
	✓	Planned	Pre-Procurement, Procurement	
			Cancel Save	e



7. Next, on the Location Mappings tab, click the button to Load Locations from Nlyte.

				Nlyte Asset	Sync Framewor	k Configuratior	ı			_ _ ×
	RF Cod	e 4.0								Licensed
	General	Location Mappin	gs Property Mapp	ings Class Mappings	RF Code Defaults					
	Load	CSV Save	CSV						Load Locations	s from Nlyte
		Sync Enabled	AM ID	AM Name	AM Expected ID	AM Expected Name	Nlyte ID	Nlyte Name		
	<									>
_										
									Cancel	Save

8. Nlyte will populate the table with a row for each location. Locations in the Nlyte Name column represent locations currently in the Nlyte system, whether or not assets are assigned to the location.

Sync Enabled	AM ID	AM Name	AM Expected ID	AM Expected Name	Nlyte ID	Nlyte Name
		Bronze Room			8	Bronze Room (New York,25 State Street,24
		Recycle			11	Recycle (New York, 25 State Street, DEC)
		Decom Room			13	Decom Room (New York, 25 State Street, DE
		Lan Room 1			16	Lan Room 1 (New York,25 State Street,RL1
		Lan Room 2			18	Lan Room 2 (New York, 25 State Street, RL
		White Room			26	White Room (Tokyo,TK DC1,1)
		T1			34	T1 (London, 1, 2)
		Plant Room			37	Plant Room (London,1,3)
		Blue Room			40	Blue Room (London,1,4)
		DAL White Space			94	DAL White Space (Dallas, Dallas Data Center
		DAL Cable Vault A			95	DAL Cable Vault A (Dallas,Dallas Data Cente
		DAL Cable Vault B			96	DAL Cable Vault B (Dallas Dallas Data Center
			Ш			

9. To map an Nlyte Location to its corresponding location in CenterScape, input the name of the location as it appears in CenterScape in the column *AM Name*. You can copy and paste from the Location and Rules area of the CenterScape admin console. Only locations that can be assigned assets within Nlyte need to be mapped. These locations are typically "Rooms" and "Areas". In the example, the Bronze Room, Storage Room in New York, Green Room, and Storage Room in New Jersey will be mapped.

		CenterSc:	ne Manan	General								
192.168.0.104:6580/t1-ui/admit	n.html#view=locati	on-config 🔿		RFCode.4.0	RF Code	4.0						Lice
Servers V RFCode V Expenses V RFCode Test Servers V	Personal Y Fruit	Co Shipping - I	Jtilities 🛩 Niyte T									
tration, Locations & Bulos					General L	ocation Mapping	8 Property Map	ppings Class Mappings RF Code Defaul	ts			
ration: Locations & Rules	_		_		Land	- Cr	001					Lond Longton down Million
New Location 🔮 New Rule 🤤 Delete 🚯 Export					Load	Jov Save	60V					Load Locations from Nijte
nations «	Location Sum	mary Asset							AM	AM		
Xer X	- Name and Descrip	otion				Sync Enabled	AM ID	AM Name	Expecte	K Expected	Nyte ID	Nyte Name
E & 🖕	Name*:	US.NJ.NJ.01.02.Gree	n Room					FTW Cable Vault A			100	FTW Cable Vault A (Fort Worth, Fort Worth Data Center, 1
Location	Description:							FTW Cable Vault B			101	FTW Cable Vault B (Fort Worth, Fort Worth Data Center, 1
🖃 🍘 Americas	ID:							FTW Power Room			102	FTW Power Room (Fort Worth, Fort Worth Data Center, 1
	Parent:							FTW Equipment Yard			103	FTW Equipment Yard (Fort Worth, Fort Worth Data Center,
Wew Jersey	IR Bounded	-						Euless Cable Vault			106	Euless Cable Vault (Euless, Euless Splice Point, 1)
G G US.NJ.NJ	Location:							Arlington Splice Point			107	Adington Splice Point (Adington Adington Splice Point,1)
🖬 🌚 US.NJ.NJ.01	Attributes							Template Room			109	Template Room (London.1.1)
🗄 🍙 US.NJ.NJ.01.02	Name	Category	Field Order 4 Re		•			US.NJ.NJ.01.02.Green Room			132	Green Room (New Jersey, 1, 2)
B SUS.NJ.NJ.01.02.Green Room	SSI Location		0 No					Storage			136	Storage (New York 25 State Street 24)
Wew York	Location Purpose	Basic Information	65 Nc					Storage			137	Storage (New Jersey, 1.2)
Asia					•							
- Cabinets					<							2
EMEA												
Unassigned Racks												
	🕹 Add	🏅 Edit 📮 Dele	te									Cancel Sa
	- Inherited Attribute											
	Name +	Category	Field Order									



10. For each mapped location, check the box to **Enable Sync**.

	1			AM	AM		
	Sync Enabled	AM ID	AM Name	Expected	Expected Name	Nlyte ID	Nlyte Name
			FTW Cable Vault A			100	FTW Cable Vault A (Fort Worth, Fort Worth Data Center
			FTW Cable Vault B			101	FTW Cable Vault B (Fort Worth, Fort Worth Data Center
			FTW Power Room			102	FTW Power Room (Fort Worth, Fort Worth Data Center
			FTW Equipment Yard			103	FTW Equipment Yard (Fort Worth, Fort Worth Data Cent
			Euless Cable Vault			106	Euless Cable Vault (Euless, Euless Splice Point, 1)
			Arlington Splice Point			107	Arlington Splice Point (Arlington, Arlington Splice Point,
			Template Room			109	Template Room (London, 1, 1)
1	✓		US.NJ.NJ.01.02.Green Room			132	Green Room (New Jersey, 1,2)
	✓		US.NY.NY.25.24.Storage			136	Storage (New York, 25 State Street, 24)
	✓		US.NJ.NJ.01.02.Storage			137	Storage (New Jersey, 1, 2)
*							

11. Save the configuration, then navigate to Task > Start to run the sync. By default, this will create all the cabinets that are assigned in Nlyte for the locations that are mapped. A successful log output should look like this:

File Settings Task 10:57:12.089 [9] INFO - [RFCode 4.0] Adding/updating asset in RFCode 4.0. 10:57:12.089 [9] DEBUG - [RFCode - WebRequest] RF Code create web request for add or update
10:57:12,089 [9] INFO - [RFCode 4.0] Adding/updating asset in RFCode 4.0. 10:57:12,089 [9] DEBUG - [RFCode - WebRequest] RF Code create web request for add or update
10:57:12,089 [9] DEBUG - [RFCode - WebRequest] RF Code create web request for add or update
10:57:12,105 [9] DEBUG - [RFCode - WebRequest] RF Code send web request for add or update
10:57:12,105 [9] DEBUG - [Duration - WebRequest] RF Code add/update entity took 0.0156263 seconds
10:57:12,121 [9] DEBUG - [Duration - Total RFCode.4.0] Asset BR-90[167] added in RFCode.4.0 took 0.0400903 set
10:57:12,121 [9] DEBUG - [Duration - Discover] Asset BR-90[167] discover association added in nlyte took 0.01059
10:57:12,137 [9] INFO - [nlyte] nlyte Discover association created for BR-90[167]
10:57:12,137 [9] DEBUG - [Duration - Total asset] Asset BR-90[167] processing in Asset Sync Framework took 0.08
10:57:12,137 [9] INFO - [nlyte] Sending asset BR-120[168] data for adding/update.
10:57:12,152 [9] INFO - [RFCode.4.0] Adding/updating asset in RFCode.4.0.
10:57:12,152 [9] DEBUG - [RFCode - WebRequest] RF Code create web request for add or update
10:57:12,152 [9] DEBUG - [RFCode - WebRequest] RF Code send web request for add or update
10:57:12,168 [9] DEBUG - [Duration - WebRequest] RF Code add/update entity took 0.015536 seconds
10:57:12,183 [9] DEBUG - [Duration - Total RFCode.4.0] Asset BR-120[168] added in RFCode.4.0 took 0.040/1223
[10:57:12,183 [9] DEBUG - [Duration - Discover] Asset BR-120[168] discover association added in niyte took 0.0094
10:57:12,199 [9] INFO - Inlyte] nivte Discover association created for BR-120[168]
[10:57:12,199 [9] DEBUG - [Duration - Total asset] Asset BR-120[168] processing in Asset Sync Framework took 0.0
10:57:12,199 [9] INFO - Infyte] Sending asset BR-30[169] data for adding/update.
10:57:12,214 [9] INFO - [KFCode.4.0] Adding/updating asset in KFCode.4.0.
10:57:12,214 [3] DEBUG - [RFCode - WebRequest] RF Code create web request for add or update
10:57:12,214 [9] DEBUG - [RFCode - WebRequest] RF Code send web request for add or update
10:57:12,230 [9] DEBUG - [Duration - WebRequest] RF Code add/update entity took 0.0156222 second 8
10:57:12,230 [3] DEBUG - [Duration - 10tal RFCode.4.0] Asset BR-30[153] added in RFCode.4.0 took 0.0414[35] se
10:57:12,246 [9] DEBUG - [Duration - Discover] Asset BR-30[169] discover association added in nivte took 0.01606 [00:57:12,246 [9] DEBUG - [Duration - Discover] Asset BR-30[160] discover association added in nivte took 0.01601
10.57.12.201 [2] INFO - [III](E) TINTE Discover association created for Ph-30[163]
10.57.12.601 (3) DEDUG - [Duration - Total asset] Asset, DH-30 [103] processing in Asset Sync Framework took 0.08 [10.57.12.261 [9] INEO [Initial Senting asset] PD 311701 data for adding (windata
10-57-12,201 (a) INFO - [Injve] denoing asset pro-1 [170] data for adoing/update.
10-57-12,277 [9] INFO T [N COURT: A Wah Request IB Code create web request for add according

12. After the sync completes, CenterScape should have all the cabinets for the locations that are mapped in ASF.

Create Cabinet Locations and Assign Cabinets to Locations

A list of unmapped cabinets is visible from the CenterScape UI after the ASF has been run and locations mapped. These cabinets may be mapped manually one at a time, but it is typically faster to create a single cabinet manually and then use the export-import functions for bulk mapping.

1. Navigate to User Console > Assets > Nylte > Unmapped Cabinets and select an unmapped asset to View or Edit.

🔣 CenterScape: Unr	ma	apped Nly	yte (Cabir	nets							Search] RF COD
Tasks	~	New	Z	Edit	🔍 View	/ 😌 Retire	🤤 Unre	tire 🤤	Delete 🔒	Export			Pause Updates	Nlyte Rack Setup View
Bookmarks 💌 🔮 🖌	1	Туре		Assi	igned Locatio	n Status		Attribute		Operator	Valu	e		
Dashboard	+	nlyte Cabin	net	✓ U	nassigned R	ack 🛩 Active		 Rack M 	lapping Sta 🗸	!=	✓ M	apped		× 🕶 🚱 🛛 Go
		Name				Rack Mapping Sta	tı Rack Envi	ronmenta R	ack U Space C	apa Niyte	Asset Sync	St Cabinet ID St	atus Assigned Locati	on
ag Management	<u>+</u>	BR-50 [120]				New	None	4	2			Yes	Unassigned Rad	ks
🏶 Assets		BR-80 [121]				New	None	4	2			Yes	Unassigned Rad	:ks
🗄 🦲 Environmentals		BR-110 [122]]			New	None	4	2			Yes	Unassigned Rac	ks
🗉 🧰 Equipment		BR-20 [124]				New	None	4	2			Yes	Unassigned Rac	ks
anage Assets		BR-51 [127]				New	None	4	2			Yes	Unassigned Rad	ks
🚳 Manage Assets By Detected Locati	ion	BR-81 [128]				New	None	4	2			Yes	Unassigned Rac	ks
- 🍪 Manage Assets By Location		BR-111 [129]]			New	None	4	2			Yes	Unassigned Rac	ks
🍓 Manage Assets By Type		BR-21 [131]				New	None	4	2			Yes	Unassigned Rad	ks
🖃 🚍 Niyte		BR-52 [132]				New	None	4	2			Yes	Unassigned Rad	ks
📲 Nlyte Asset View		BR-82 [133]				New	None	4	2			Yes	Unassigned Rad	ks
🖓 Nlyte Asset View (Tagged Asse	ts (BR-112 [134]]			New	None	4	2			Yes	Unassigned Rad	ks
With Misplaced Assets		BR-22 [136]				New	None	4	2			Yes	Unassigned Rad	ks
🚳 Niyte Sync Status		BR-53 [137]				New	None	4	2			Yes	Unassigned Rad	ks
Unmapped Nlyte Cabinets		BR-83 [138]				New	None	4	2			Yes	Unassigned Rad	ks
🕀 🦲 Racks		BR-113 [139]]			New	None	4	2			Yes	Unassigned Rad	ks
Search Assets		BR-23 [140]				New	None	4	2			Yes	Unassigned Rad	ks
import Assets		BR-54 [141]				New	None	4	2			Yes	Unassigned Rad	ks
		BR-84 [142]				New	None	4	2			Yes	Unassigned Rad	ks
		BR-114 [143]]			New	None	4	2			Yes	Unassigned Rad	ks
		BR-24 [145]				New	None	4	2			Yes	Unassigned Rad	ks
		BR-55 [146]				New	None	4	2			Yes	Unassigned Rad	ks
		BR-85 [147]				New	None	4	2			Yes	Unassigned Rad	ks
		BR-115 [148]]			New	None	4	2			Yes	Unassigned Rad	ks
		BR-25 [149]				New	None	4	2			Yes	Unassigned Rad	ks
		BR-56 [150]				New	None	4	2			Yes	Unassigned Rad	ks
		BR-86 [151]				New	None	4	2			Yes	Unassigned Rad	ks
		BR-116 [152]]			New	None	4	2			Yes	Unassigned Rac	ks
		BR-26 [153]				New	None	4	2			Yes	Unassigned Rac	ks
	_	BR-57 [154]				New	None	4	2			Yes	Unassigned Rad	ks
		BR-87 [155]				New	None	4	2			Yes	Unassigned Rad	ks
Maps	+	BR-117 [156]]			New	None	4	2			Yes	Unassigned Rad	ks
Reports / Graphs	+	BR-27 [157]				New	None	4	2			Yes	Unassigned Rad	ks
Events	Ŧ	BR-58 [158]				New	None	4	2			Yes	Unassigned Rad	ks
	-													



2. Asset information for this cabinet displays in a multi-tabbed pop-up window.

- Nlyte Data	
niyte Asset Number:	35878
nlyte Asset ID:	35878
nlyte Business Group Name:	Windows Hardware
nlyte Cost Center:	
nlyte Operational Status:	Operational
nlyte Name:	GR-01
nlyte Material:	HP 10642 G2
nlyte Record Status:	Active
niyte Tag:	GR-5273907620
nlyte Business Group ID:	
nlyte Serial Number:	19146115276
- Integration Information	
nlyte cabinet key:	GR-01 (Room=Green Room (New Jersey,1,2))
Cabinet ID Status:	Yes
Rack Mapping Status:	New
- Basic Information	

- 3. Scroll to the Assigned Location field and, from the drop-down, select an *Assigned Location* for this asset; or, if the location has not yet been created, <u>Create a Location</u> and assign the asset to that location.
- 4. If IR is deployed on the cabinet, add an IR rule:
 - a. Click New Rule.
 - b. From the drop-down, select *Match by IR Locator*.
 - c. Complete the Basic Information and Rule Configuration fields.
 - d. Save. The new Rule appears beneath the location with a Rule icon.

CenterScape Ad	lmin	istration: Locations & Rules							RFCO
Tasks	~	3 New Location 3 New Rule 3 Delete 🚯 Export							
Bookmarks 💌 🔮	1	Locations	~	Location	Sum	mary Asset			
Dashboard	+	Filter ×		- Name and I	Descrip	ption			
Configuration	Ŧ		L 强	Name*:		GR-01			
et inguistion				Description					
Customization	+	Americas	-11	ID:					
Integration	+	🛓 🌑 US	- 11	Parent:		US_N1_N1_01_02			
Locations / Rules / Maps	-	🖻 🌑 New Jersey	-11	TR Bounder	4				
Locations & Rules			-11	Location:					
Map Configuration			- 11	- Attributes -					
🛤 Map Views		🖃 🌍 US.NJ.NJ.01.02	- 11	Name		Category	Field Order	Required Static	Default Value
		🖃 🌍 US.NJ.NJ.01.02.Green Room	- 11						
		S.NJ.NJ.01.02.Green Room Match	by						
		🖃 🌍 GR-01							
		SR-01 Match by IR Locator							



5. Select the Summary Asset tab and click **Create Summary Asset for** *Cabinet* to associate the asset with an existing summary asset.





6. Use filters or navigate to the summary asset, identified with a summary asset link icon. Select the summary asset and click **OK**. Scroll down to the Rack Mapping Status and change the status to *Mapped*. Save.

Filter Fil	
Image: Second secon	
Image: Second	
Americas Max Contiguous U: 42 Solution Equipment Count: Audit Information All Assets Verified: All Assets Operational: Nyte Data	
Image: Second	
Audit Information Audit Information Audit Information All Assets Verified: All Assets Operational: US.NJ.NJ.01 US.NJ.NJ.01.02 Nlyte Data	
All Assets Verified: All Assets Operational: US.NJ.NJ.01.02 Nlyte Data	
All Assets Operational:	
SUS.NJ.NJ.01.02	
US.NJ.NJ.01.02.Green Room nlyte Asset Number: 35878	
Source and the second s	
GR-01	
SR-01 Match by IR Locator niyte Business Group Name: Windows Hardware	
nlyte Cost Center:	
nlyte Operational Status: Operational	
B GR-05 nlyte Name: GR-01	
B GR-06	
GR-07	
GR-08	
GR-5273907620	
GR-10 nlyte Business Group ID:	
GR-12 nlyte Serial Number: 19146115276	
GR-13	
GR-14	
GR-15	
GR-16 Cabinet ID Status:	
GR-17 Rack Mapping Status: Mapped × V	
GR-18 New Basic Information Mana	
GR-20 SSI Location: Not Manad	
GR-21 Labels:	

Import Cabinets in Bulk

After you have created a single cabinet, this cabinet's information can be used to model data for importing in bulk. At least one cabinet must be created in CenterScape before an export is possible.

1. Select the cabinet from the location tree and right-click to view the actions menu. Select **Export**.



2. Open the CSV file in Excel.

•			en ب	- J -				
Г	Home	Insert	Page I	Layout Formulas Dat	ta Revi	ew Viev	v	
F	Paste 💞	Cut Copy * Format	Calibri B	i (Body) • 12 • A A I <u>U</u> • • • <u>A</u>	· =	= =		
A1	1 ‡	$\times \checkmark$	f_X	class				
	Α	В	С	D	E	F	G	
1	class	guid	name	parent	deletable	restrictable		
2	entity_type	GR_01	GR-01	US_NJ_NJ_01_02_GREEN_ROOM	TRUE	FALSE		
3)				
4								
5								
6								
7								
8								
9								
10								
11								

3. Using the first row as a template, add information on cabinets to be imported. A unique Name and GUID must be added for each cabinet. Copy all other information from the first row.

•			÷.	5	-					
Г	Home	Insert	Page I	Layout	Formula	is Dat	ta Revi	iew Vie	w	
1	haste 🗸	Cut Copy * Format	Calibri B	(Body) I <u>U</u>	• 12	A - A	• =		*** •11 •11	₩
82	2 \$	× ✓	fx	GR_01						
1	A	8	C		D		E	F	G	н
1	class	guid	name	parent			deletable	restrictable		
2	entity_type	GR_01	GR-01	US_NJ_N	_01_02_GR	EN_ROOM	TRUE	FALSE		
3	entity_type	GR_02	GR-02	US_NJ_N	01_02_GR	EN_ROOM	TRUE	FALSE		
4	entity_type	GR_03	GR-03	US_NJ_N	01_02_GR	EN_ROOM	TRUE	FALSE		
5	entity_type	GR_04	GR-04	US_NJ_N	01_02_GR	EN_ROOM	TRUE	FALSE		
6	entity_type	GR_05	GR-05	US_NJ_N	01_02_GR	EN_ROOM	TRUE	FALSE		
7	entity_type	GR_06	GR-06	US_NJ_N	_01_02_GRE	EN_ROOM	TRUE	FALSE		
8	entity_type	GR_07	GR-07	US_NJ_N	_01_02_GR	EN_ROOM	TRUE	FALSE		
9	entity_type	GR_08	GR-08	US_NJ_N	_01_02_GRE	EN_ROOM	TRUE	FALSE		
10	entity_type	GR_09	GR-09	US_NJ_N	_01_02_GR	EN_ROOM	TRUE	FALSE		
11	entity_type	GR_10	GR-10	US_NJ_N	_01_02_GR	EN_ROOM	TRUE	FALSE		
12	entity_type	GR_11	GR-11	US_NJ_N	J_01_02_GR	EN_ROOM	TRUE	FALSE		
13	entity_type	GR_12	GR-12	US_NJ_N	_01_02_GR	EN_ROOM	TRUE	FALSE		
14	entity_type	GR_13	GR-13	US_NJ_N	_01_02_GR	EN_ROOM	TRUE	FALSE		
15	entity_type	GR_14	GR-14	US_NJ_N	_01_02_GR	EN_ROOM	TRUE	FALSE		
16	entity_type	GR_15	GR-15	US_NJ_N	_01_02_GR	EN_ROOM	TRUE	FALSE		_
17	entity_type	GR_16	GR-16	US_NJ_N	_01_02_GR	EN_ROOM	TRUE	FALSE		
18	entity_type	GR_17	GR-17	US_NJ_N	_01_02_GRE	EN_ROOM	TRUE	FALSE		
19	entity_type	GR_18	GR-18	US_NJ_N	J_01_02_GR	EN_ROOM	TRUE	FALSE		

As a best practice, RF Code recommends creating GUIDS matched to Nlyte names as much as possible; the examples in this document use hyphens with names and underscores with GUIDS but are otherwise identical.

4. After all cabinets have been added to the CSV, navigate to Admin Console > Configuration > Import and Browse to... the CSV file to Upload.



Assign Cabinets in Bulk

After either importing cabinets in bulk or manually creating all cabinets in CenterScape, export cabinet assets to assign locations in bulk:

- Navigate to User Console > Assets > Nylte > Unmapped Cabinets and select all assets within the view, then right-click to Export to .csv. Select the option to export all attributes when prompted.
- 2. Open the CSV file and *delete* all columns except class, type, guid, \$aName, nlyte_name and \$aLocation. The end result should look like this.

I1 Nar	q ne Box	* ×	√ fx					
	A	В	С	D	E	F	G	H
1	class	type	guid	\$aName	nlyte_name	\$aLocation		
2	entity	nlyteCabinet	nlyte_Cabinet_35887	GR-10 [35887]	GR-10	UNASSIGNED_RACKS		
3	entity	nlyteCabinet	nlyte_Cabinet_35892	GR-15 [35892]	GR-15	UNASSIGNED_RACKS		
4	entity	nlyteCabinet	nlyte_Cabinet_35894	GR-17 [35894]	GR-17	UNASSIGNED_RACKS		
5	entity	nlyteCabinet	nlyte_Cabinet_35899	GR-22 [35899]	GR-22	UNASSIGNED_RACKS		
6	entity	nlyteCabinet	nlyte_Cabinet_35880	GR-03 [35880]	GR-03	UNASSIGNED_RACKS		
7	entity	nlyteCabinet	nlyte_Cabinet_35882	GR-05 [35882]	GR-05	UNASSIGNED_RACKS		
8	entity	nlyteCabinet	nlyte_Cabinet_35884	GR-07 [35884]	GR-07	UNASSIGNED_RACKS		
9	entity	nlyteCabinet	nlyte_Cabinet_35891	GR-14 [35891]	GR-14	UNASSIGNED_RACKS		
10	entity	nlyteCabinet	nlyte_Cabinet_35893	GR-16 [35893]	GR-16	UNASSIGNED_RACKS		
11	entity	nlyteCabinet	nlyte_Cabinet_35879	GR-02 [35879]	GR-02	UNASSIGNED_RACKS		
12	entity	nlyteCabinet	nlyte_Cabinet_35889	GR-12 [35889]	GR-12	UNASSIGNED_RACKS		
13	entity	nlyteCabinet	nlyte_Cabinet_35897	GR-20 [35897]	GR-20	UNASSIGNED_RACKS		
14	entity	nlyteCabinet	nlyte_Cabinet_35883	GR-06 [35883]	GR-06	UNASSIGNED_RACKS		
15	entity	nlyteCabinet	nlyte_Cabinet_35888	GR-11 [35888]	GR-11	UNASSIGNED_RACKS		
16	entity	nlyteCabinet	nlyte_Cabinet_35881	GR-04 [35881]	GR-04	UNASSIGNED_RACKS		
. 17	entity	nlyteCabinet	nlyte_Cabinet_35898	GR-21 [35898]	GR-21	UNASSIGNED_RACKS		
18	entity	nlyteCabinet	nlyte_Cabinet_35901	GR-24 [35901]	GR-24	UNASSIGNED_RACKS		
19	entity	nlyteCabinet	nlyte_Cabinet_35886	GR-09 [35886]	GR-09	UNASSIGNED_RACKS		
20	entity	nlyteCabinet	nlyte_Cabinet_35900	GR-23 [35900]	GR-23	UNASSIGNED_RACKS		
21	entity	nlyteCabinet	nlyte_Cabinet_35885	GR-08 [35885]	GR-08	UNASSIGNED_RACKS		
22	entity	nlyteCabinet	nlyte_Cabinet_35890	GR-13 [35890]	GR-13	UNASSIGNED_RACKS		
23	entity	nlyteCabinet	nlyte_Cabinet_35896	GR-19 [35896]	GR-19	UNASSIGNED_RACKS		
24	entity	nlyteCabinet	nlyte_Cabinet_35895	GR-18 [35895]	GR-18	UNASSIGNED_RACKS		
25	entity	nlyteCabinet	nlyte_Cabinet_35902	GR-25 [35902]	GR-25	UNASSIGNED_RACKS		
26	entity	nlyteCabinet	nlyte_Cabinet_35916	GR-39 [35916]	GR-39	UNASSIGNED_RACKS		
27	entity	nlyteCabinet	nlyte_Cabinet_35919	GR-42 [35919]	GR-42	UNASSIGNED_RACKS		
28	entity	nlyteCabinet	nlyte_Cabinet_35925	GR-48 [35925]	GR-48	UNASSIGNED_RACKS		
29	entity	nlyteCabinet	nlyte_Cabinet_35929	GR-52 [35929]	GR-52	UNASSIGNED_RACKS		
30	entity	nlvteCabinet	nivte Cabinet 35932	GR-55 [35932]	GR-55	UNASSIGNED RACKS		

3. *Sort* by the Nlyte Name to make the assignments easier. This will order the rows in a more legible manner:

	Α	В	С	D	E	F	G
1	class	type	guid	\$aName	nlyte_name	\$aLocation	
2	entity	nlyteCabinet	nlyte_Cabinet_35879	GR-02 [35879]	GR-02	UNASSIGNED_RACKS	
3	entity	nlyteCabinet	nlyte_Cabinet_35880	GR-03 [35880]	GR-03	UNASSIGNED_RACKS	
4	entity	nlyteCabinet	nlyte_Cabinet_35881	GR-04 [35881]	GR-04	UNASSIGNED_RACKS	
5	entity	nlyteCabinet	nlyte_Cabinet_35882	GR-05 [35882]	GR-05	UNASSIGNED_RACKS	
6	entity	nlyteCabinet	nlyte_Cabinet_35883	GR-06 [35883]	GR-06	UNASSIGNED_RACKS	
7	entity	nlyteCabinet	nlyte_Cabinet_35884	GR-07 [35884]	GR-07	UNASSIGNED_RACKS	
8	entity	nlyteCabinet	nlyte_Cabinet_35885	GR-08 [35885]	GR-08	UNASSIGNED_RACKS	
9	entity	nlyteCabinet	nlyte_Cabinet_35886	GR-09 [35886]	GR-09	UNASSIGNED_RACKS	
10	entity	nlyteCabinet	nlyte_Cabinet_35887	GR-10 [35887]	GR-10	UNASSIGNED_RACKS	
11	entity	nlyteCabinet	nlyte_Cabinet_35888	GR-11 [35888]	GR-11	UNASSIGNED_RACKS	
12	entity	nlyteCabinet	nlyte_Cabinet_35889	GR-12 [35889]	GR-12	UNASSIGNED_RACKS	
13	entity	nlyteCabinet	nlyte_Cabinet_35890	GR-13 [35890]	GR-13	UNASSIGNED_RACKS	
14	entity	nlyteCabinet	nlyte_Cabinet_35891	GR-14 [35891]	GR-14	UNASSIGNED_RACKS	
15	entity	nlyteCabinet	nlyte_Cabinet_35892	GR-15 [35892]	GR-15	UNASSIGNED_RACKS	
16	entity	nlyteCabinet	nlyte_Cabinet_35893	GR-16 [35893]	GR-16	UNASSIGNED_RACKS	
17	entity	nlyteCabinet	nlyte_Cabinet_35894	GR-17 [35894]	GR-17	UNASSIGNED_RACKS	
18	entity	nlyteCabinet	nlyte_Cabinet_35895	GR-18 [35895]	GR-18	UNASSIGNED_RACKS	
19	entity	nlyteCabinet	nlyte_Cabinet_35896	GR-19 [35896]	GR-19	UNASSIGNED_RACKS	
20	entity	nlyteCabinet	nlyte_Cabinet_35897	GR-20 [35897]	GR-20	UNASSIGNED_RACKS	
21	entity	nlvteCabinet	nivte Cabinet 35898	GR-21 [35898]	GR-21	UNASSIGNED RACKS	

4. *Add* a column called \$aScope. For the first row, add **\$aLoaction=GR_02** where GR_02 is the location ID to which the rack will be associated. Next, change the \$aLocation value for the first row to be *GR_02* where GR_02 is the GUID for the location to which the cabinet is assigned.

F3		‡ ×	$\checkmark f_x$ UNASSIG	SNED_RACKS					
	Α	В	С	D	E	F	G	н	
1	class	type	guid	\$aName	nlyte_name	\$aLocation	\$aScope		
2	entity	nlyteCabinet	nlyte_Cabinet_35879	GR-02 [35879]	GR-02	GR_02	\$aLocation=GR_02		
3	entity	nlyteCabinet	nlyte_Cabinet_35880	GR-03 [35880]	GR-03	UNASSIGNED_RACKS			
4	entity	nlyteCabinet	nlyte_Cabinet_35881	GR-04 [35881]	GR-04	UNASSIGNED_RACKS			
5	entity	nlyteCabinet	nlyte_Cabinet_35882	GR-05 [35882]	GR-05	UNASSIGNED_RACKS			
6	entity	nlyteCabinet	nlyte_Cabinet_35883	GR-06 [35883]	GR-06	UNASSIGNED_RACKS			
7	entity	nlyteCabinet	nlyte_Cabinet_35884	GR-07 [35884]	GR-07	UNASSIGNED_RACKS			
8	entity	nlyteCabinet	nlyte_Cabinet_35885	GR-08 [35885]	GR-08	UNASSIGNED_RACKS			
9	entity	nlyteCabinet	nlyte_Cabinet_35886	GR-09 [35886]	GR-09	UNASSIGNED_RACKS			
10	entity	nlyteCabinet	nlyte_Cabinet_35887	GR-10 [35887]	GR-10	UNASSIGNED_RACKS			
11	entity	nlyteCabinet	nlyte_Cabinet_35888	GR-11 [35888]	GR-11	UNASSIGNED_RACKS			
12	entity	nlyteCabinet	nlyte_Cabinet_35889	GR-12 [35889]	GR-12	UNASSIGNED_RACKS			
13	entity	nlyteCabinet	nlyte_Cabinet_35890	GR-13 [35890]	GR-13	UNASSIGNED_RACKS			
14	entity	nlyteCabinet	nlyte_Cabinet_35891	GR-14 [35891]	GR-14	UNASSIGNED_RACKS			
15	entity	nlyteCabinet	nlyte_Cabinet_35892	GR-15 [35892]	GR-15	UNASSIGNED_RACKS			
16	entity	nlyteCabinet	nlyte_Cabinet_35893	GR-16 [35893]	GR-16	UNASSIGNED_RACKS			
. 17	entity	nlyteCabinet	nlyte_Cabinet_35894	GR-17 [35894]	GR-17	UNASSIGNED_RACKS			
18	entity	nlyteCabinet	nlyte_Cabinet_35895	GR-18 [35895]	GR-18	UNASSIGNED_RACKS			
19	entity	nlyteCabinet	nlyte_Cabinet_35896	GR-19 [35896]	GR-19	UNASSIGNED_RACKS			
20	entity	nlyteCabinet	nlyte_Cabinet_35897	GR-20 [35897]	GR-20	UNASSIGNED_RACKS			



5. *Use the pattern drag function* to complete the information for all remaining cabinets. Make sure that GUIDs are associated correctly to the nlyte_name. The nlyte name is a unique field that will be managed by the ASF server.

	Α	В	с	D	E	F	G	н	1
1	class	type	guid	\$aName	nlyte_name	\$aLocation	\$aScope		
2	entity	nlyteCabinet	nlyte_Cabinet_35879	GR-02 [35879]	GR-02	GR_02	\$aLocation=GR_02		
3	entity	nlyteCabinet	nlyte_Cabinet_35880	GR-03 [35880]	GR-03	GR_03	\$aLocation=GR_03		
4	entity	nlyteCabinet	nlyte_Cabinet_35881	GR-04 [35881]	GR-04	GR_04	\$aLocation=GR_04		
5	entity	nlyteCabinet	nlyte_Cabinet_35882	GR-05 [35882]	GR-05	GR_05	\$aLocation=GR_05		
6	entity	nlyteCabinet	nlyte_Cabinet_35883	GR-06 [35883]	GR-06	GR_06	\$aLocation=GR_06		
7	entity	nlyteCabinet	nlyte_Cabinet_35884	GR-07 [35884]	GR-07	GR_07	\$aLocation=GR_07		
8	entity	nlyteCabinet	nlyte_Cabinet_35885	GR-08 [35885]	GR-08	GR_08	\$aLocation=GR_08		
9	entity	nlyteCabinet	nlyte_Cabinet_35886	GR-09 [35886]	GR-09	GR_09	\$aLocation=GR_09		
10	entity	nlyteCabinet	nlyte_Cabinet_35887	GR-10 [35887]	GR-10	GR_10	\$aLocation=GR_10		
11	entity	nlyteCabinet	nlyte_Cabinet_35888	GR-11 [35888]	GR-11	GR_11	\$aLocation=GR_11		
12	entity	nlyteCabinet	nlyte_Cabinet_35889	GR-12 [35889]	GR-12	GR_12	\$aLocation=GR_12		
13	entity	nlyteCabinet	nlyte_Cabinet_35890	GR-13 [35890]	GR-13	GR_13	\$aLocation=GR_13		
14	entity	nlyteCabinet	nlyte_Cabinet_35891	GR-14 [35891]	GR-14	GR_14	\$aLocation=GR_14		
15	entity	nlyteCabinet	nlyte_Cabinet_35892	GR-15 [35892]	GR-15	GR_15	\$aLocation=GR_15		
16	entity	nlyteCabinet	nlyte_Cabinet_35893	GR-16 [35893]	GR-16	GR_16	\$aLocation=GR_16		
17	entity	nlyteCabinet	nlyte_Cabinet_35894	GR-17 [35894]	GR-17	GR_17	\$aLocation=GR_17		
18	entity	nlyteCabinet	nlyte_Cabinet_35895	GR-18 [35895]	GR-18	GR_18	\$aLocation=GR_18		
19	entity	nlyteCabinet	nlyte_Cabinet_35896	GR-19 [35896]	GR-19	GR_19	\$aLocation=GR_19		
20	entity	nlyteCabinet	nlyte_Cabinet_35897	GR-20 [35897]	GR-20	GR_20	\$aLocation=GR_20		

6. Import the csv file then check to see that the racks are associated in the location configuration tree. Each Cabinet Location should have the Associated icon.



7. Update Rack Mapping Status: navigate to User Console > Assets > Unmapped Nlyte Cabinets. Filter by the location where the mapped assets reside. Select an asset and, in the Rack Mapping Status column, right-click to view available actions. Select Edit Attribute > Rack Mapping Status - All and set to Mapped.

🔣 CenterScape: Unma	apped Ni	yte Cab	inets									Search		RF	CC	DE
Tasks 🔍	New	📝 Edit	۹ ۱	/iew	0	Retire 🤤 Unretire	9	Delete	🐁 в	xport		0	Pause Upda	ates Niyte Ra	ick Setup	View 🔻
Bookmarks 💌 🥹 🔏	Туре	4	ssigned Loc	ation	St	atus	Attribute		0	perator	Value					
Dashboard +	nlyte Cabir	net 💌	All		~	Active 👻	Rack N	lapping S	šti 🕶	!= '	🖌 Map	oped		×	× 🕹	Go
							Assign	ed Locati	01 🗸	In '	 US. 	NJ.NJ.01.02.Green	Room	×	~	
Tag Management	Name			Rack	Мар	ping Statu Rack Environ	menta F	Rack U Spa	ace Capa	a Niyte Ass	et Sync S	St Cabinet ID Status	Assigned	Location		
💑 Assets 📃	GR-02 [3587	79]		New		None	4	12				Yes	GR-02			
🗄 🧰 Environmentals	GR-03 [3588	30]		New	Q	New		2				Yes	GR-03			
🖶 🧰 Equipment	GR-04 [3588	31]		New	7	Edit		2				Yes	GR-04			
- 🚳 Manage Assets	GR-05 [3588	32]		New	3			2				Yes	GR-05			
Manage Assets By Detected Location	GR-06 [3588	33]		New		View		2				Yes	GR-06			
Manage Assets By Location	GR-07 [3588	34]		New	٢	Delete		2				Yes	GR-07			
- 🍪 Manage Assets By Type	GR-08 [3588	35]		New								Yes	GR-08			
🖃 🚍 Nlyte	GR-09 [3588	36]		New		Edit Attribute	4	Ra	ck Mapp	oing Status	Selecte	d Yes	GR-09			
Nlyte Asset View	GR-10 [3588	37]		New	٩	View Open Alerts		🖌 Ra	ck Mapp	oing Status ·	All	Yes	GR-10			
Nlyte Asset View (Tagged Assets C	GR-11 [3588	38]		New	3			2				Yes	GR-11			
Nlyte Misplaced Assets	GR-12 [3588	39]		New		View Children		2				Yes	GR-12			
Nlyte Sync Status	GR-13 [3589	90]		New		Report - Rack Mapping	Status	2				Yes	GR-13			
Unmapped Nlyte Cabinets	GR-14 [3589	91]		New				2				Yes	GR-14			
H Racks	GR-15 [3589	2]		New		User Change Report		2				Yes	GR-15			
Search Assets	GR-16 [3589	3]		New		Tag Details		2				Yes	GR-16			
- Nort Assets	GR-17 [3589	94]		New	_			2				Yes	GR-17			
	GR-18 [3589	95]		New	Q.	Export		2				Yes	GR-18			
	GR-19 [3589	96]		New		Add Group(s)	Þ	2				Yes	GR-19			
	GR-20 [3589	7]		New		Add Group(s)	1	2				Yes	GR-20			
	GR-21 [3589	98]		New		Remove Group(s)	•	2				Yes	GR-21			
	GR-22 [3589	99]		New	1	Edit Group		2				Yes	GR-22			
	GR-23 [3590	00]		New		None		12				Yes	GR-23			
	GR-24 [3590	01]		New		None	4	12				Yes	GR-24			
	GR-25 [3590	02]		New		None	4	12				Yes	GR-25			
	GR-26 [3590	3]		New		None	4	12				Yes	GR-26			
	GR-27 [3590	04]		New		None	4	12				Yes	GR-27			
	GR-28 [3590)5]		New		None	4	12				Yes	GR-28			
	GR-29 [3590	06]		New		None	4	12				Yes	GR-29			
Mana (GR-30 [3590)7]		New		None	4	12				Yes	GR-30			
Maps T	GR-31 [3590	8]		New		None	4	12				Yes	GR-31			
Reports / Graphs +	GR-32 [3590	9]		New		None	4	12				Yes	GR-32			
Events +	GR-33 [3591	[0]		New		None	4	12				Yes	GR-33			
💄 Alert Management 🛛 🛨	P A	age 1	of 3		2									1 - 32 of 95	Rows:	Fit 💌

8. These cabinets no longer appear in the Unmapped Cabinets view.

Run Full Sync and Scheduled Sync

The final step in completing the integration is to enable full asset creation. After Cabinets and Locations are mapped and associated, ASF must be configured to include all the relevant asset types.

1. Open ASF and go to the Class Mappings tab. RF Code recommends enabling *Server, Chassis, Network, Auxiliary, KVM Switch, Peripheral* and *Cabinet.* PDU, UPS, StaticSwitch and AirConditioning are typically part of Nlyte's data set, but not assets that are trackable or that are placed in cabinets, storage rooms, etc.

	Sync Enabled	Nlyte Asset Type	RF	Code Type	
	~	Server	nlyte	Server	
	✓	Chassis	nlyte	Chassis	
		PDU	nlyte	PDU	
		UPS	nlyte	UPS	_
		AirConditioning	nlyte	AirConditioning	
	~	Network	nlyte	Network	
1	✓	Auxiliary	nlyte	Auxiliary	_
		StaticSwitch	nlyte	StaticSwitch	
	KVMSwitch		nlyte		
			nlyte	Peripheral	
	~	Cabinet	nlyte	Cabinet	

- 2. Save the configuration and then run a full sync again. This may take a while as Nlyte populates all the assets and their required fields.
 - As more sites are added, a full sync should be run again.
 - If you are initially syncing more than 20,000 assets, RF Code recommends running the sync via the Nlyte task in task scheduler.



3. As Assets are added to CenterScape they will show up as with a sync status of New. The Nlyte Integration Module updates these assets every five minutes with assigned location and assigned cabinet data.

CenterScape: Nlyte	Sync Sta	tus							Search] RFC	ODE
Tasks 🛞	New	🖌 Edit	View	Retire	🤤 Unretire 🤤 🛙	Selete 🛃 Export			Pause Updates	Nlyte Integrat	tion Status 🔻
Bookmarks 🗸 🥹 🏹 🕎 Dashboard 主	Assigned Loc	ation	* ×	Type Inventory	Status	Attribute	Ope	rator Value		3	Go
A Tag Management				Name		Service Date	Asset Tag	Assigned Location	Nlyte Asset Sync Status	Last Update Tim	ne
			BR-01/c-Class/1	14 [10204]	2017-05-24			New	2017-05-24 13:1	18:57	
💑 Assets 📃	Americas			BR-01/c-Class/1	11 [10205]	2017-05-24			New	2017-05-24 13:	18:57
🗉 🧰 Environmentals				SA-2128594 [10	0206]	2017-05-24			New	2017-05-24 13:1	18:57
😠 🦳 Equipment	Cabinets			SA-2981491 [10	0207]	2017-05-24			New	2017-05-24 13:1	18:57
🍓 Manage Assets	EMEA Unassigned Racks		BR-02/c-Class/6	5 [10208]	2017-05-24			New	2017-05-24 13:1	18:57	
Manage Assets By Detected Location		SA-2752244 [10	0209]	2017-05-24			New	2017-05-24 13:1	18:57		
- 🍪 Manage Assets By Location	Unk	Unknown Location			210]	2017-05-24			New	2017-05-24 13:1	18:57
See		-	SA-2759123 [10	0211]	2017-05-24			New	2017-05-24 13:	18:57	
			SA-2524540 [10	0212]	2017-05-24			New	2017-05-24 13:	18:57	
- 🍪 Nlyte Asset View				SA-6339468 [10	0213]	2017-05-24			New	2017-05-24 13:	18:57
- 🍪 Nlyte Asset View (Tagged Assets 0	C			SA2134582 [10	/214]	2017-05-24			New	2017-05-24 13:	18:57
- 🍪 Nlyte Misplaced Assets				SA-2788927 [10	0215]	2017-05-24			New	2017-05-24 13:	18:58
Nlyte Sync Status				SA-6199674 [10	0216]	2017-05-24			New	2017-05-24 13:	18:58
- 🍪 Unmapped Nlyte Cabinets				SA-2580628 [10	0217]	2017-05-24			New	2017-05-24 13:	18:58
🗄 🛄 Racks				SA-2517396 [10	0218]	2017-05-24			New	2017-05-24 13:	18:58
Search Assets				SA-2389607 [10	0219]	2017-05-24			New	2017-05-24 13:	18:58
Import Assets				SA-2344242 [10	0220]	2017-05-24			New	2017-05-24 13:	18:58
				SA-6156086 [10	0221]	2017-05-24			New	2017-05-24 13:	18:58
				SA-2774686 [10	0222]	2017-05-24			New	2017-05-24 13:	18:58
	4			SA557181 [102	:23]	2017-05-24			New	2017-05-24 13:	18:58
				SA-2228370 [10	0224]	2017-05-24			New	2017-05-24 13:	18:58
				SA-2440437 [10	0225]	2017-05-24			New	2017-05-24 13:	18:58
				SA-2540075 [10	0226]	2017-05-24			New	2017-05-24 13:	18:58

- 4. When the Nlyte Integration is complete, assets will have a Nlyte Asset Sync Status of Synced or Review Sync:
 - *Synced* indicates that the asset has been properly assigned to a cabinet or location within CenterScape.
 - *Review Sync* indicates that the location or cabinet referenced was not found in CenterScape at the time the integration ran.
- 5. For each asset with a status of Review Sync:
 - a. add a cabinet
 - b. add a location
 - c. manually mark assets as Needs Sync (individually or through mass configuration).
- 6. Run the Nlyte Integration again.
 - Assets marked as Needs Sync will be re-evaluated.
 - If the location or cabinet assignment in Nlyte for an asset changes then the asset will automatically be queued for resync.
- 7. After the full sync is complete, check **Partial Sync** in ASF and **Save** the configuration to set ASF to do partial syncs rather than full sync. A partial sync will only synchronize assets that have had modifications since a certain date. After a successful partial sync, the sync date will advance and the next partial sync will only sync assets with changes since the last partial sync.

ď		Nlyte A	sset Sync Framework Configuration		_ D X
General RFCode.4.0	RF Code 4.0				Not Licensed
	General Location Mappin	gs Property Mappings Class Mapping	gs RF Code Defaults		
	Enabled 🗸				
	Partial Sync 🗸	Sync only the assets changed since	24 May 2017 - 14:56:27		
	RF Code Details				
	Webservice URL	http://192.168.0.104:6580/api			
	Authentication Type	Basic V			
	Usemame	admin			
	Password	*****			
	Default AM Location G	uid StUnknownLocation			
	Check For Deleted As	sets			
	Record Statuses				
	Enabled	Status Operationa	I Status		
		Active *			
	✓	Decommissioned *			
	✓	Recycled *			
	✓	Planned Pre-Procur	ement,Procurement		
				Can	cel Save

A <u>task</u> to run the ASF sync should have been added when ASF was installed by Nlyte. This task should be set to repeat every 5-15 minutes indefinitely.

When complete, each Nlyte-created asset in CenterScape should have both Nlyte provided data and CenterScape-specific data. Any attribute that Nlyte can publish through ASF can be brought into CenterScape (or be removed). The Location Verified attribute will indicate that an Asset is detected in the location that Nlyte has specified. Manual intervention to the system should only be needed when cabinets are moved or the Nlyte location hierarchy changes.

The below screenshots show the same asset in Nlyte and CenterScape.



- Rack Configuration	
Mount Type:	Rack U Mount
Rack Item U Top:	10
Rack Item U Height:	2
Rack Item In Back:	
Rack Item Depth:	
Allow Front and Back:	No
Spatial Width:	19 in
Spatial Height:	0 in
Spatial Depth:	42 in
- Nivte Data	
nivte Asset Number:	36813
nivte Asset ID:	36813
nlyte Business Group Name:	Administration
- Location Information	
Detected Location Purpose:	Production
Niyte Data	
nlyte Cabinet Name:	GR-01 (Room=Green Room (New Jersey,1,2))
nlyte Cost Center:	
nlyte Operational Status:	Operational
nlyte Asset Sub Status:	
nlyte Name:	SA-8819162299
	100 01 101000 00



Tag Group Codes, IDs, and Treatment Codes

All RF Code tags have three distinguishing characteristics, regardless of the type, model, or function of the tag. In the example below is an R155 Temperature/Humidity Tag.

Outlined in the following photo are the three characteristics that distinguish this tag (and all individual tags) from every other tag:



Group Code: The Group Code is a six-letter code. Examples of this code are THSRCK, LOCATE, IRCODE, HUMRCK, and RFCRCK.

Tag ID: The Tag ID is a unique eight-digit numeric identifier. You might have 2,000 THSRCK tags in your environment, but you can only have one with the Tag ID of 00001900.

Treatment Code: The Treatment Code is used together with the Group Code to tell RF Code software how to interpret the data that each tag sends in beacons to RF Code readers. A Treatment Code can be associated with multiple Group Codes, so it is important to match them exactly when adding them to a specific environment of RF Code readers and tags.

All RF Code tags are defined as being members of a specific group, and have a unique tag ID number within that group. When an RF Code reader is configured, it can be supplied with up to eight group code IDs and a corresponding treatment code for each group code. The treatment code instructs the reader how to interpret the payload data for each tag event within that group code. RF Code tags are smart and have the ability to transmit various types of data within its radio frequency beacon such as indicators for motion, panic, tamper, infrared location, and low battery.



RF Code Support and Professional Services

For additional information about functionality that is not described in this document, please visit the RF Code <u>support website</u> and/or contact RF Code Support.

For more information about RF Code Professional Services, refer to rfcode.com/solutions/professional-services