

SINGLE/MULTIPLE PANACIM EE – MMS INTEGRATION

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1 Overview

PanaCIM Maintenance System (MMS) is a highly efficient maintenance management system aimed to automate the maintenance activities within the factory and track them in the real time. The MMS also enables tracking the equipment related records in the factory and facilitates reactive and preventive maintenance. It can work as a stand-alone system or also in conjunction with PanaCIM and data warehouse.

This document describes the configuration settings required for single/multiple PanaCIM EE integration with MMS.

2 PanaCIM EE Integration with MMS

There are following two common configurations of PanaCIM EE-MMS integration.

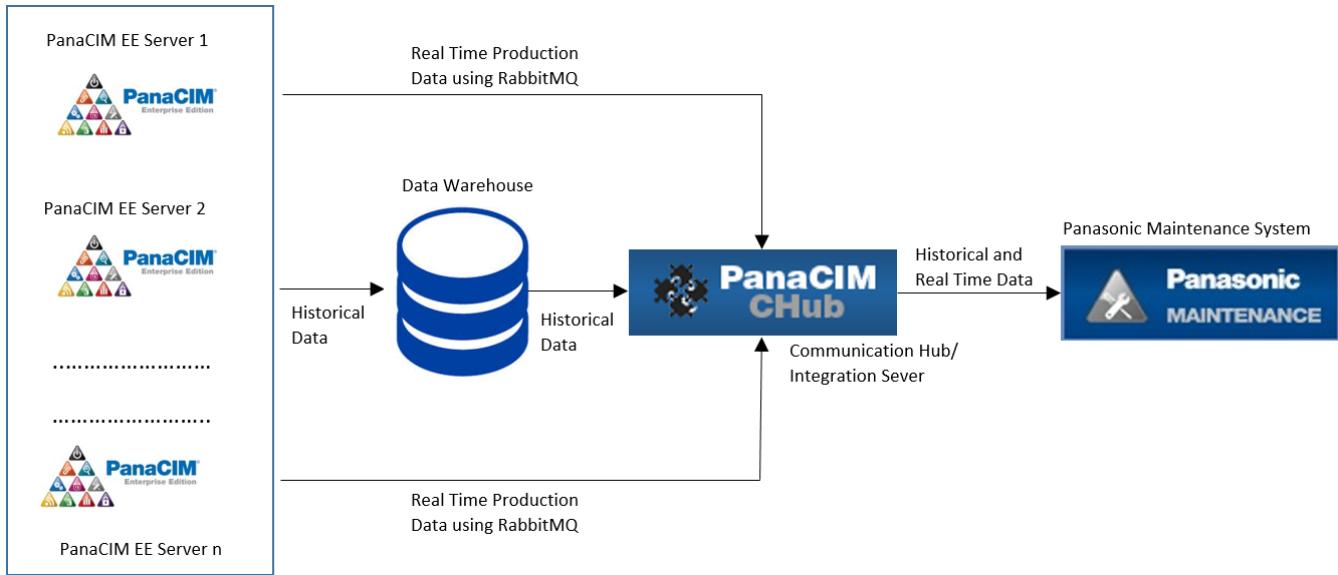
1. **Single PanaCIM with MMS:** The single PanaCIM EE is integrated with MMS application using Communication Hub. The Communication Hub application is used as the integration server between PanaCIM EE and MMS, as shown in the following figure.



2. **Multiple PanaCIM with MMS (Using Data Warehouse):** Multiple PanaCIM EE servers can be also integrated with MMS using a data warehouse server. In this configuration, multiple PanaCIM EE servers are integrated with a data warehouse and the data warehouse server is integrated with MMS.

In this configuration, the historical data is moved from PanaCIM EE servers to the data warehouse, and then from data warehouse to MMS using the integration server (Communication Hub). The real time data, such as scanning feeders or adding a new machine in the factory are directly transferred to MMS from multiple PanaCIM EE servers using the integration server, provided that the RabbitMQ clustering has been configured for PanaCIM EE servers and MMS.

The following figure provides an overview of multiple PanaCIM EE–MMS integration using data warehouse.



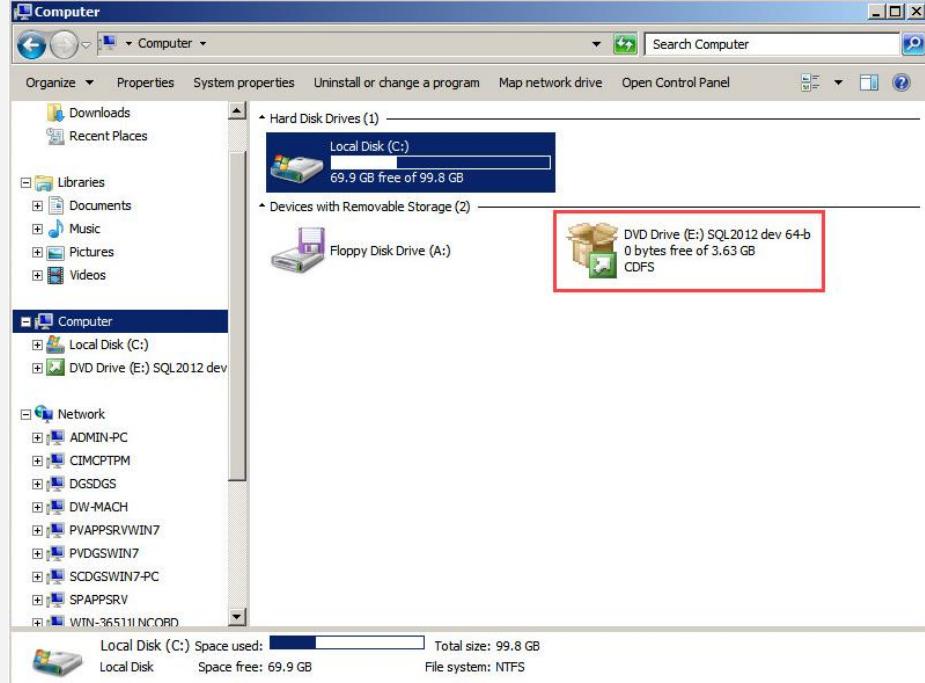
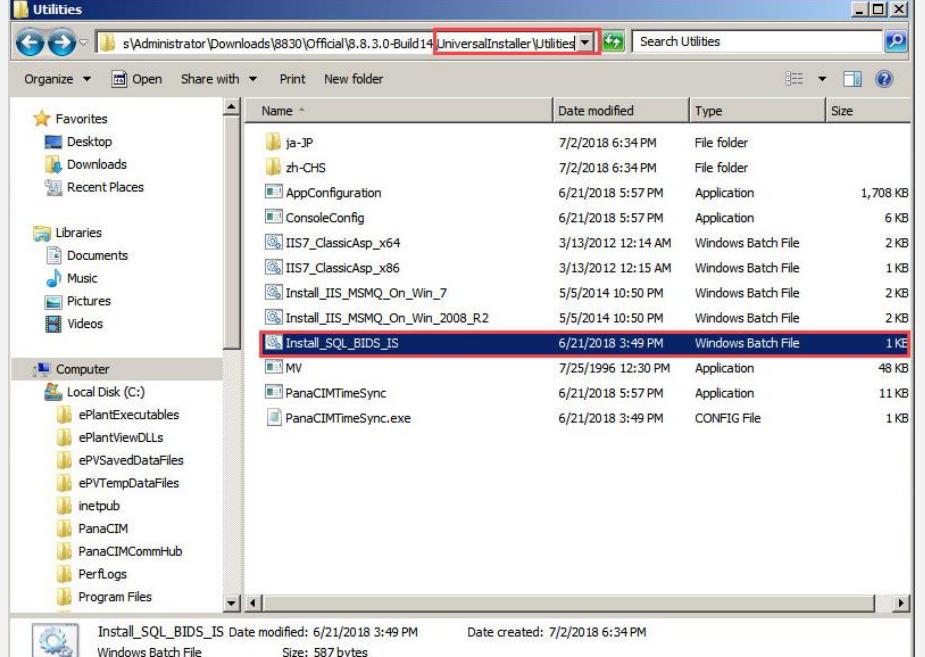
The subsequent sections describe the step-by-step procedure of integrating single/multiple PanaCIM EE servers with MMS.

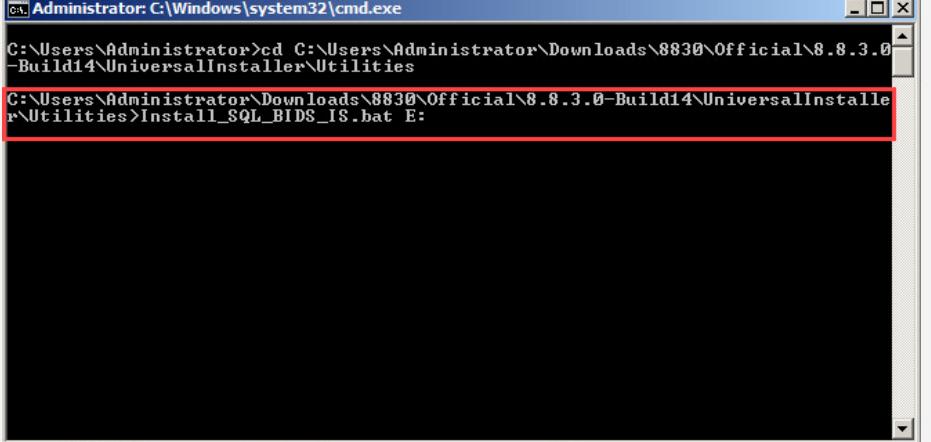
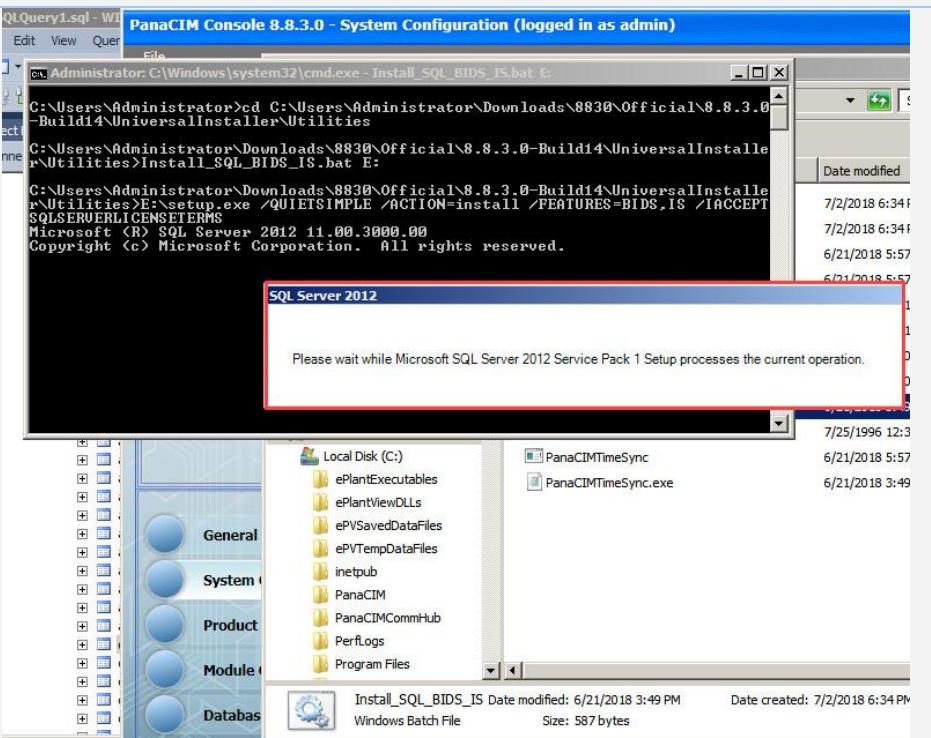
2.1 Single PanaCIM with MMS

Integration of single PanaCIM EE server with MMS can be categorized into the following broad level steps.

1. Install SQL Server Integration Service on Application Server
2. Configure the MMS Base Address
3. Enable Tagged Feeder for Feeder Locking
4. Configure Feeder Tag Reasons
5. Configure E-Link Settings
6. Enable Nozzle Maintenance Tagging in Option Settings Utility
7. Enable the License for Maintenance Module
8. Configure PanaCIM Service URL and Database Details in MMS
9. Import Data in MMS from PanaCIM

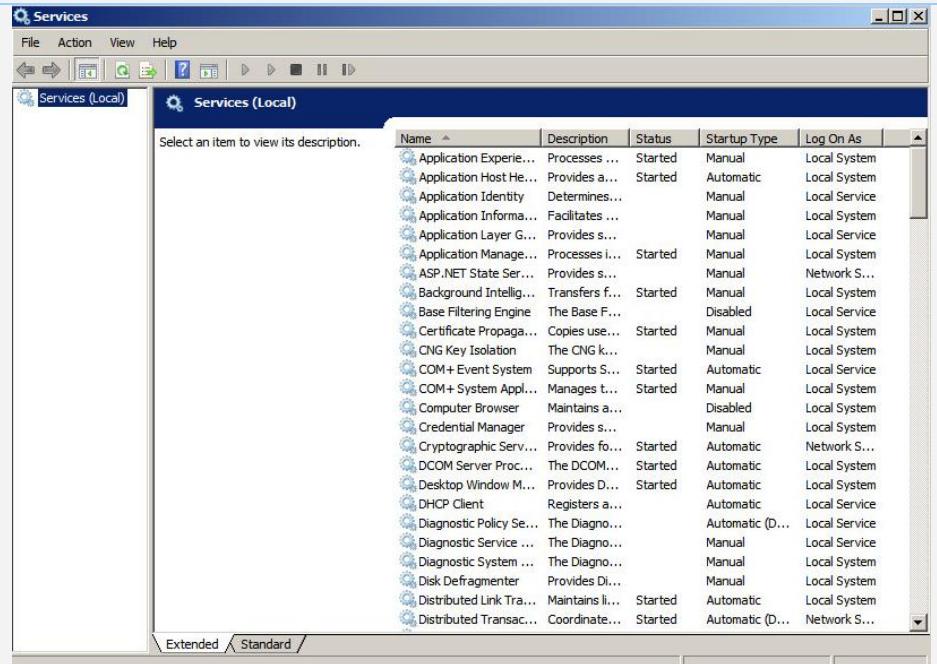
Step 1: Install SQL Server Integration Service on Application Server

Step	Description	Screenshot								
1	Mount the SQL installer CD on APP server.									
2	The server integration service file is available in the UniversalInstaller\Utilities folder of the PanaCIM installation directory.	 <table border="1"> <caption>File Details for Install_SQL_BIDS_IS</caption> <thead> <tr> <th>Name</th> <th>Date modified</th> <th>Type</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>Install_SQL_BIDS_IS</td> <td>6/21/2018 3:49 PM</td> <td>Windows Batch File</td> <td>1 KB</td> </tr> </tbody> </table>	Name	Date modified	Type	Size	Install_SQL_BIDS_IS	6/21/2018 3:49 PM	Windows Batch File	1 KB
Name	Date modified	Type	Size							
Install_SQL_BIDS_IS	6/21/2018 3:49 PM	Windows Batch File	1 KB							

3	Open command prompt as administrator. Go to the location of the batch file and run the batch file as shown to the right.	
4	The installation of the integration service begins. Wait for a few minutes to complete the installation.	

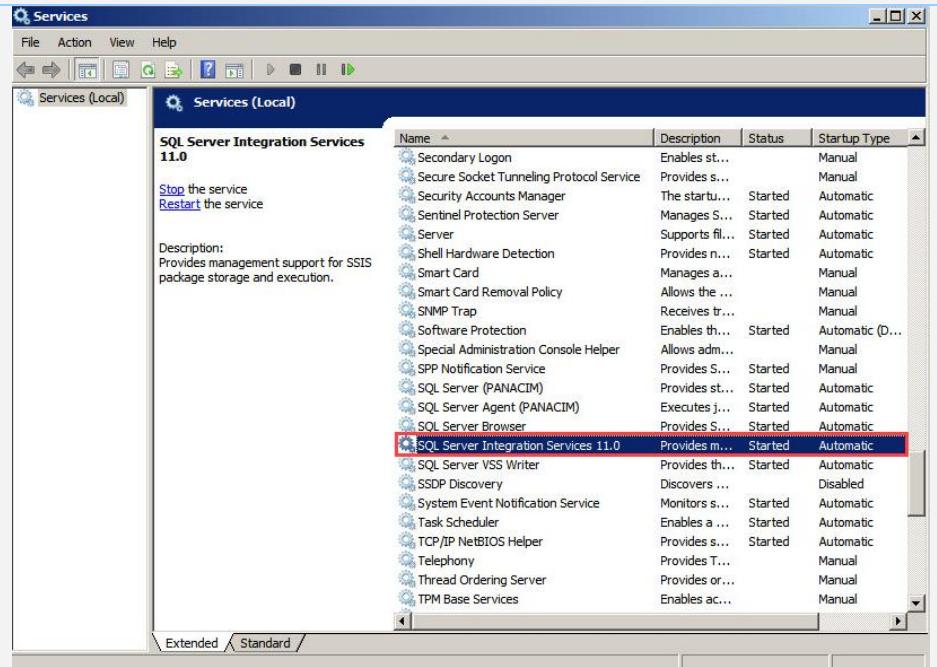
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To verify that the SQL integration service is installed and running on the machine, open **Services**.

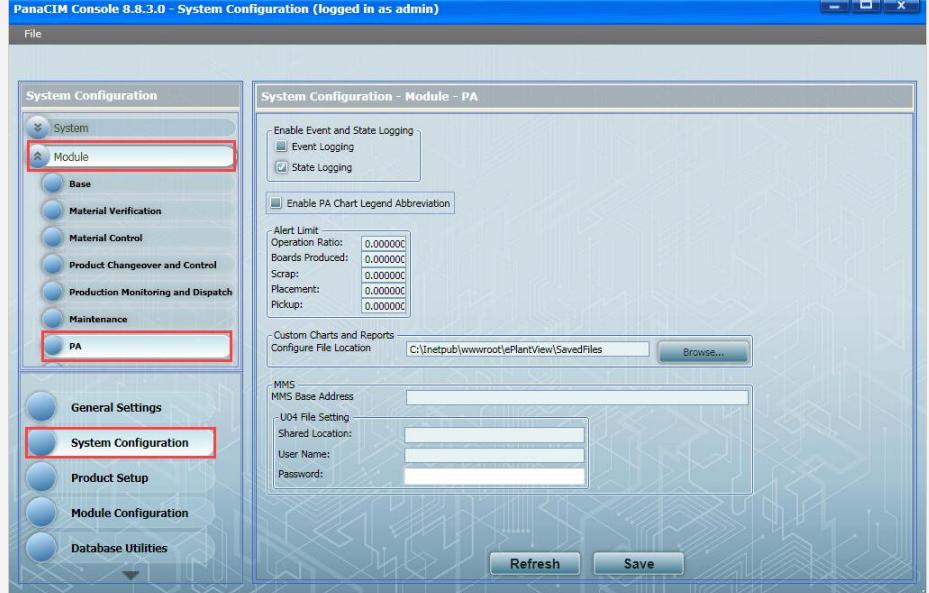
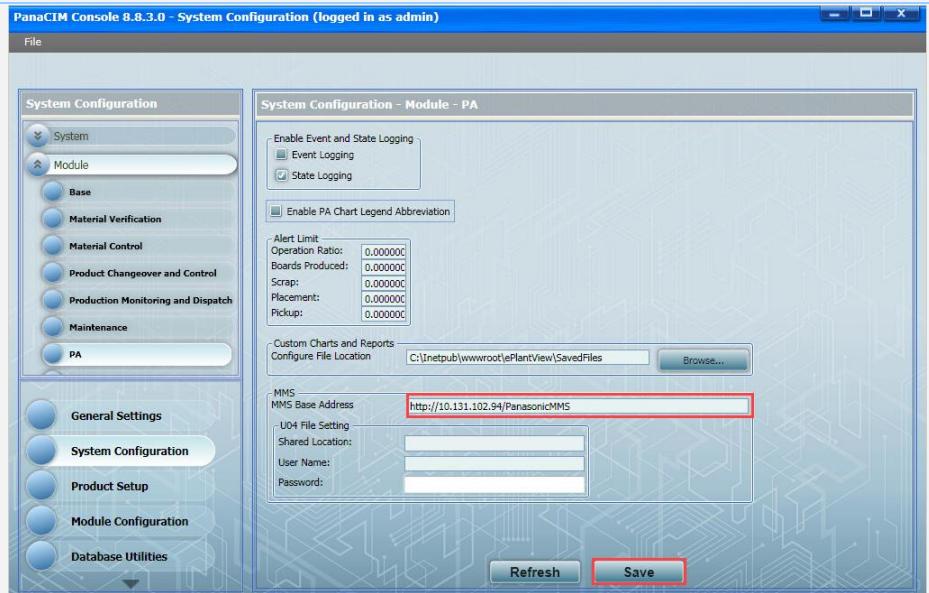


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The service is installed and running.

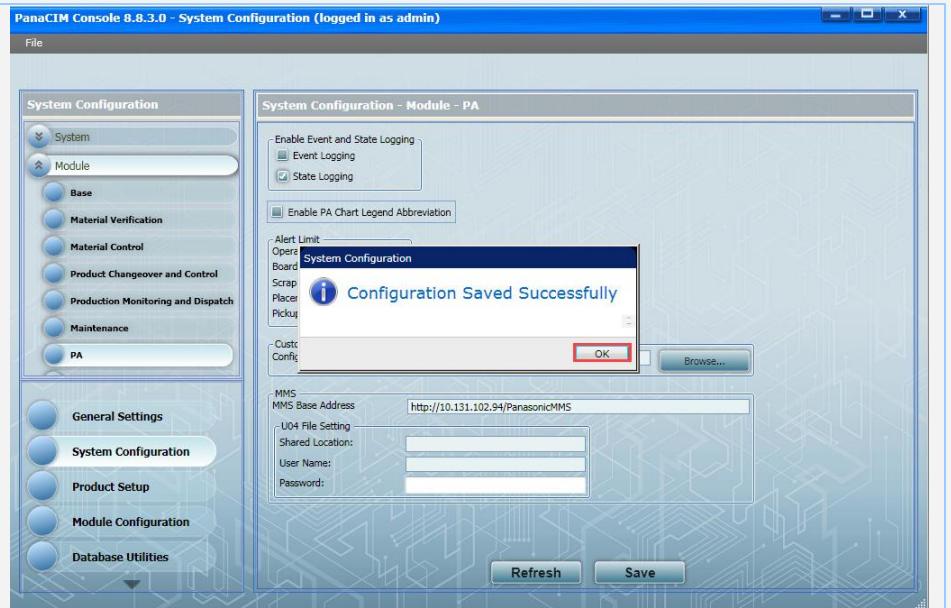


Step 2: Configure the MMS Base Address

Step	Description	Screenshot
1	<p>Open PanaCIM console and go to System Configuration → Module → PA.</p>	
2	<p>Provide MMS base address and click the Save button as shown to the right.</p> <p>The MMS base address is http://<ip_address_of_MMS_machine>/PanasonicMMS</p>	

3

A confirmation message box appears. Click **OK**.

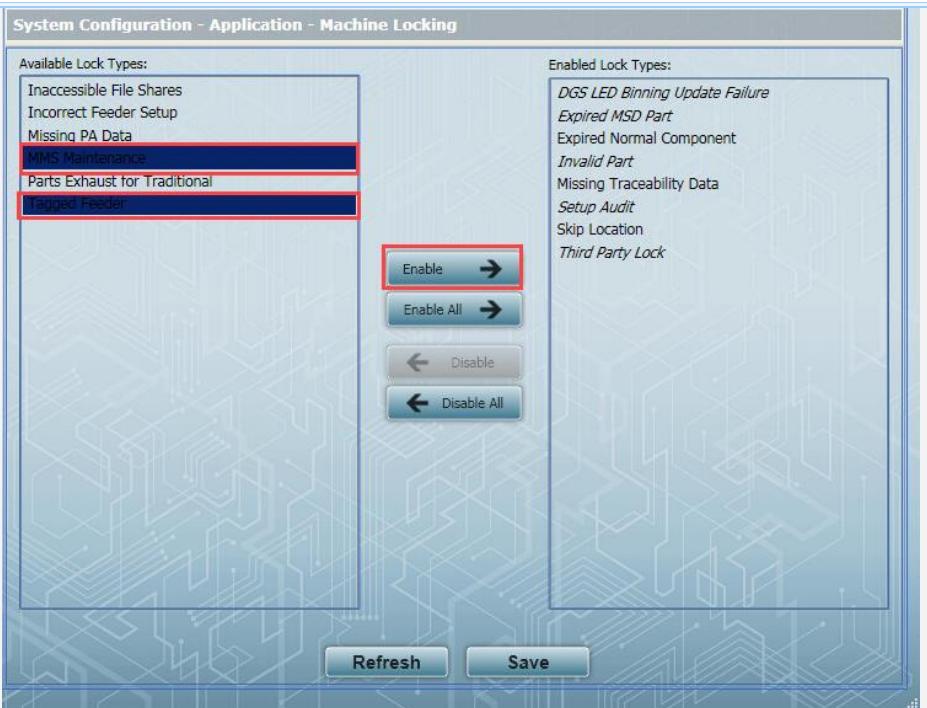


Step 3: Enable Tagged Feeder for Feeder Locking

Step	Description	Screenshot
1	<p>In PanaCIM console, go to System Configuration → Application → Machine Locking.</p>	

2

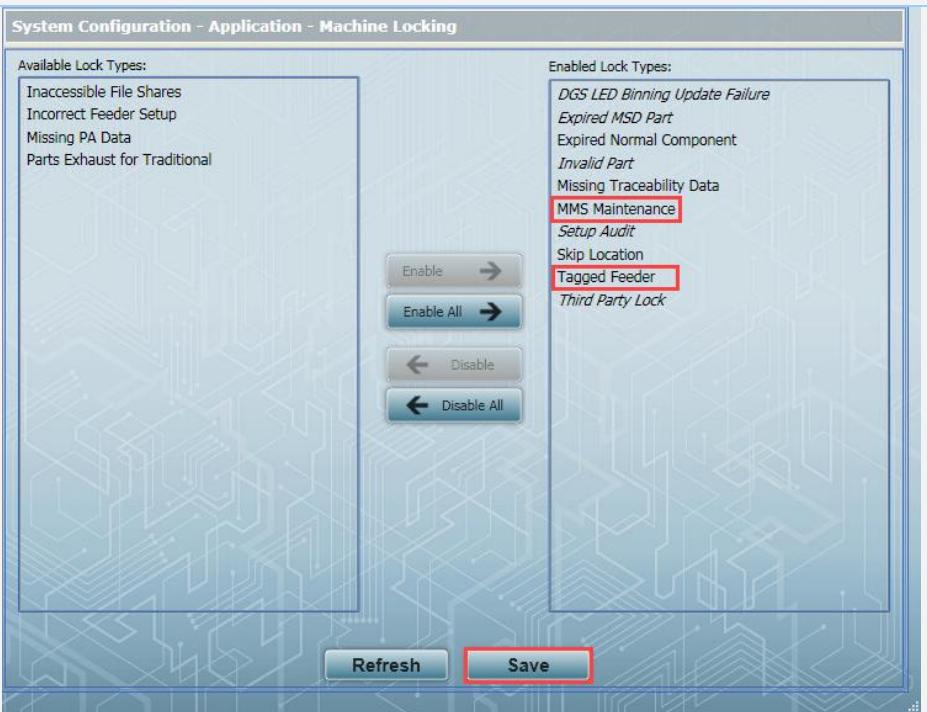
Select the **MMS Maintenance** and **Tagged Feeder** in the **Available Lock Types** list box and click the **Enable** button.



3

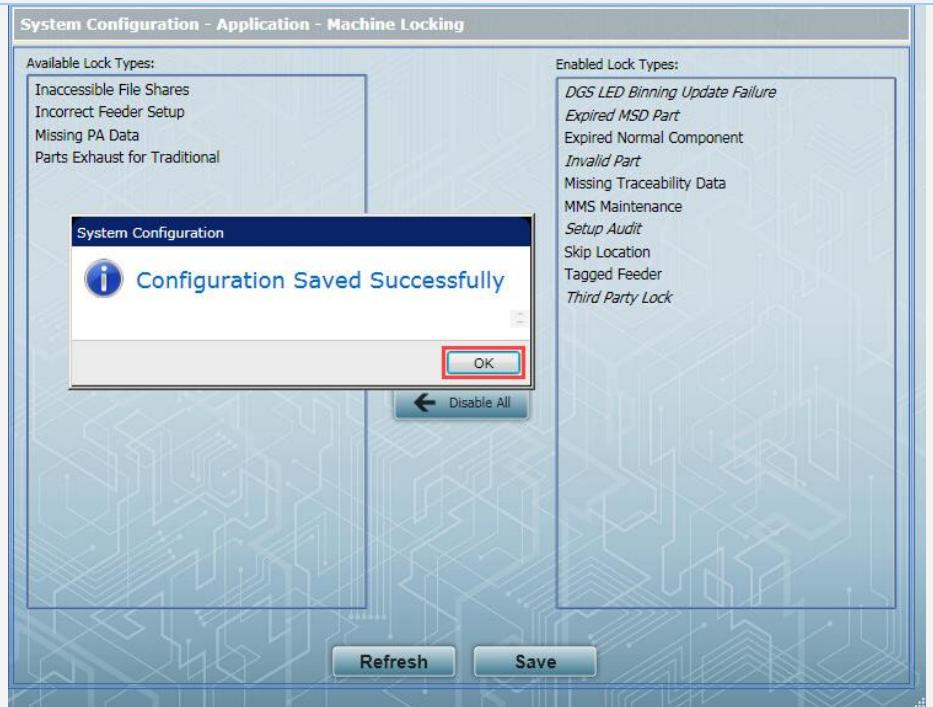
The **MMS Maintenance** and **Tagged Feeder** lock types are moved into the **Enabled Lock Types** list box.

Click the **Save** button.



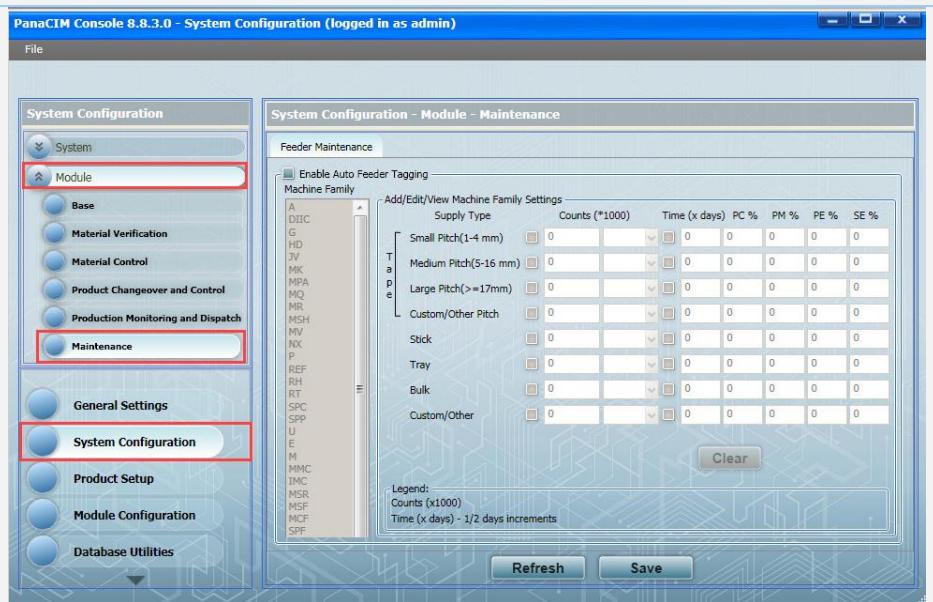
4

A confirmation message box appears. Click **OK**.



5

In PanaCIM console, go to **System Configuration** → **Module** → **Maintenance**.



6

Configure feeder maintenance and enable auto feeder tagging for machine.

System Configuration - Module - Maintenance

Feeder Maintenance

Enable Auto Feeder Tagging

Machine Family

Supply Type	Counts (*1000)	Time (x days)	PC %	PM %	PE %	SE %
Small Pitch(1-4 mm)	<input checked="" type="checkbox"/> 3	<input type="button" value="▼"/>	<input type="button" value="▼"/>	90	90	90
Medium Pitch(5-16 mm)	<input checked="" type="checkbox"/> 2	<input type="button" value="▼"/>	<input type="button" value="▼"/>	90	90	90
Large Pitch(>=17mm)	<input checked="" type="checkbox"/> 1	<input type="button" value="▼"/>	<input type="button" value="▼"/>	50	50	50
Custom/Other Pitch	<input checked="" type="checkbox"/> 9	<input type="button" value="▼"/>	<input type="button" value="▼"/>	50	50	50
Stick	<input type="checkbox"/> 0	<input type="button" value="▼"/>	<input type="button" value="▼"/>	0	0	0
Tray	<input type="checkbox"/> 0	<input type="button" value="▼"/>	<input type="button" value="▼"/>	0	0	0
Bulk	<input type="checkbox"/> 0	<input type="button" value="▼"/>	<input type="button" value="▼"/>	0	0	0
Custom/Other	<input type="checkbox"/> 0	<input type="button" value="▼"/>	<input type="button" value="▼"/>	0	0	0

Legend:
Counts (x1000)
Time (x days) - 1/2 days increments

Clear **Refresh** **Save**

7

Click the **Save** button to save the changes. A confirmation message box appears. Click **OK**.

System Configuration - Module - Maintenance

Feeder Maintenance

Enable Auto Feeder Tagging

Machine Family

Supply Type	Counts (*1000)	Time (x days)	PC %	PM %	PE %	SE %
Small Pitch(1-4 mm)	<input checked="" type="checkbox"/> 3	<input type="button" value="▼"/>	<input type="button" value="▼"/>	0.00	90	90
Medium Pitch(5-16 mm)	<input checked="" type="checkbox"/> 2	<input type="button" value="▼"/>	<input type="button" value="▼"/>	0.00	90	90

System Configuration

Configuration Saved Successfully

OK

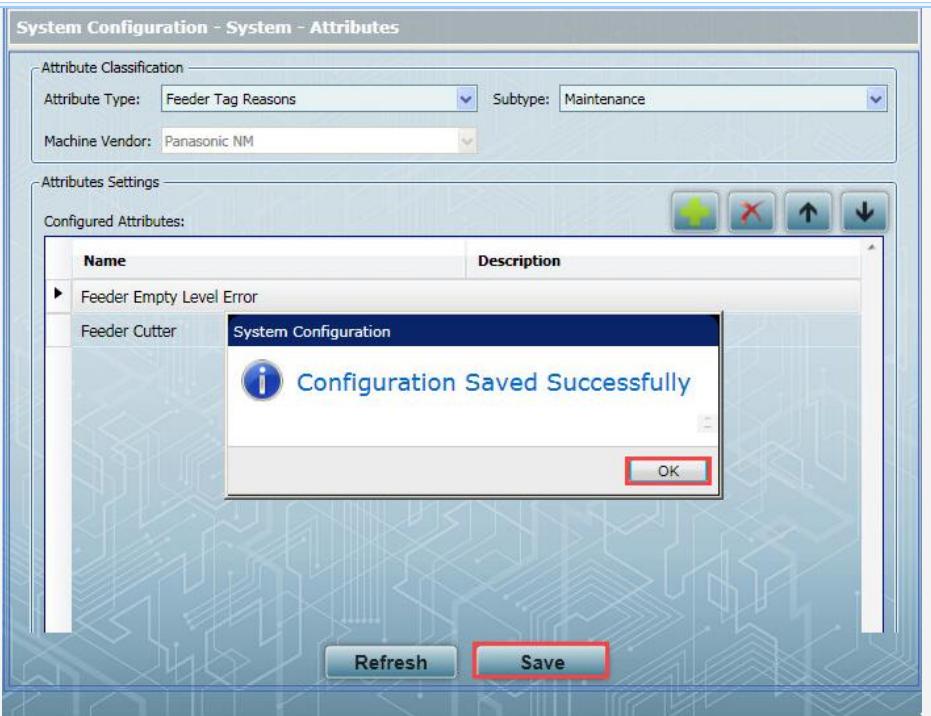
Clear **Refresh** **Save**

Step 4: Configure Feeder Tag Reasons

Step	Description	Screenshot
1	<p>In PanaCIM console, go to System Configuration → System → Attributes.</p>	
2	<p>Select the Attribute Type as Feeder Tag Reasons, Subtype as Maintenance and configure the attribute settings as shown to the right.</p>	

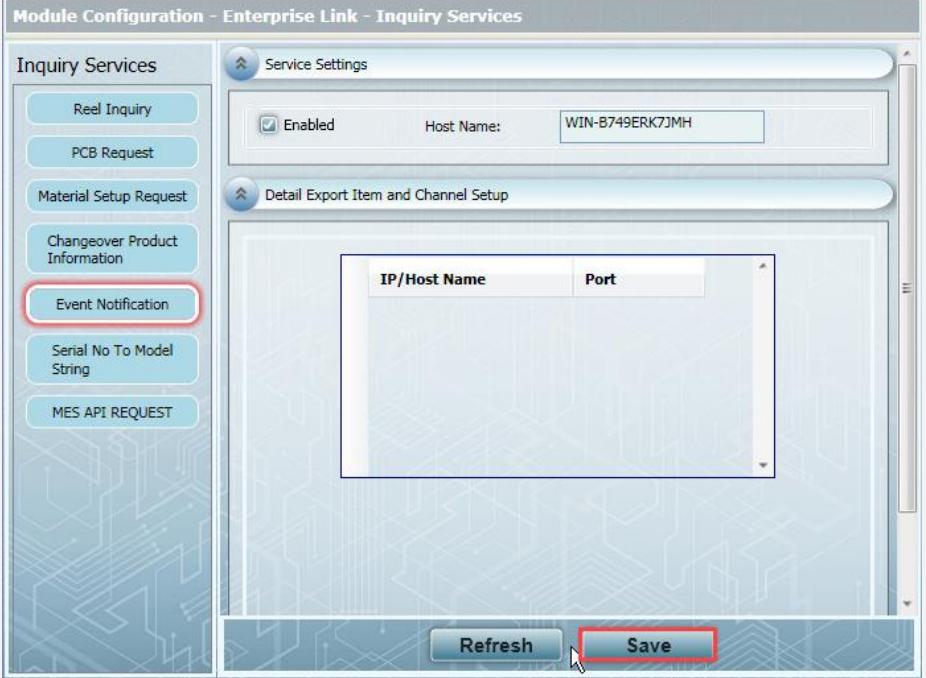
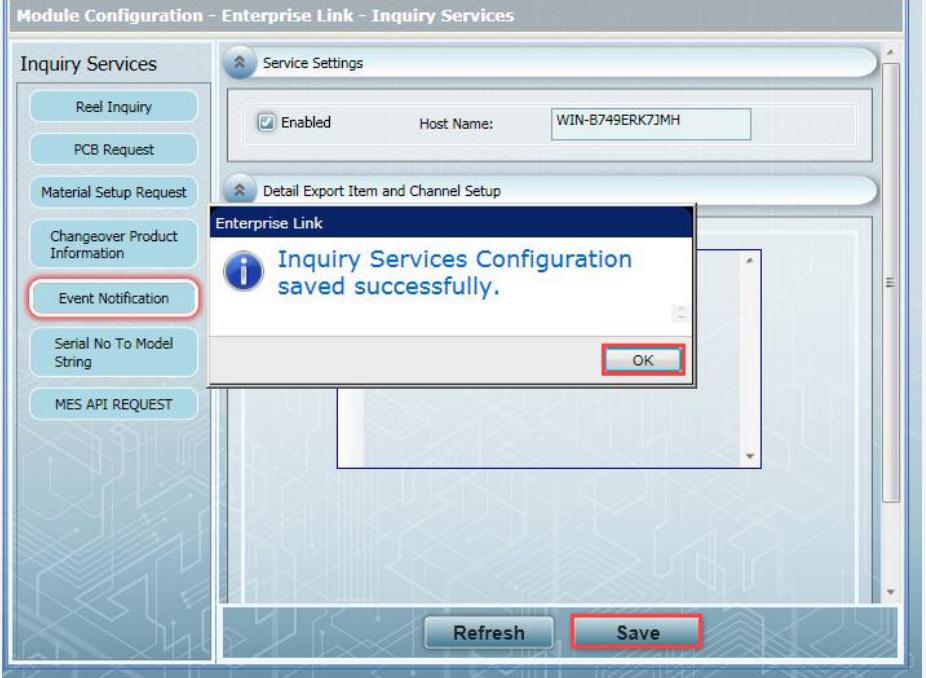
3

Click the **Save** button. A confirmation message box appears. Click **OK**.



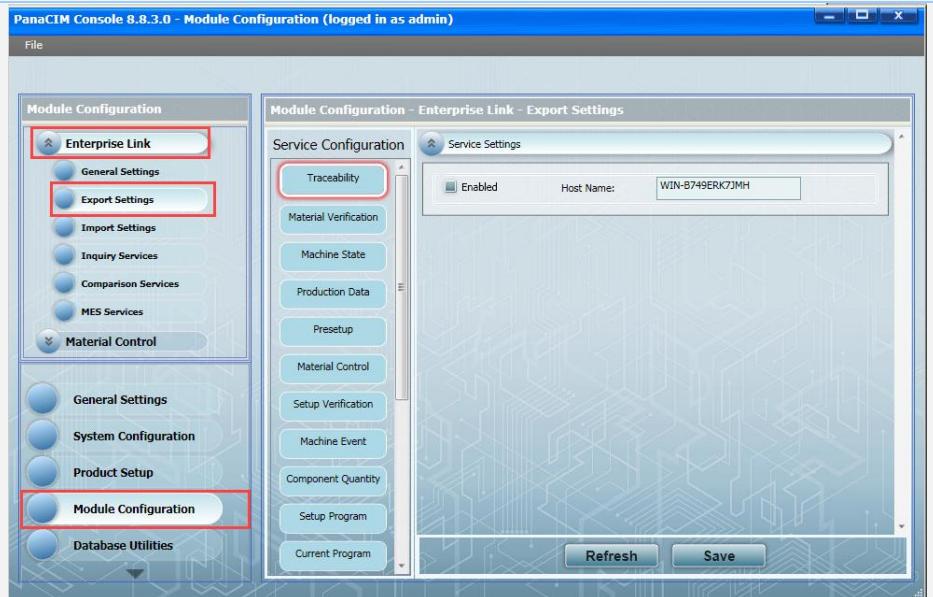
Step 5: Configure E-Link Settings

Step	Description	Screenshot
1	In PanaCIM console, go to Module Configuration → Enterprise Link → Inquiry Services .	

2	<p>Enable the Event Notification option. Click the Save button.</p>	
3	<p>Upon clicking the Save button, a confirmation message box appears. Click OK.</p>	

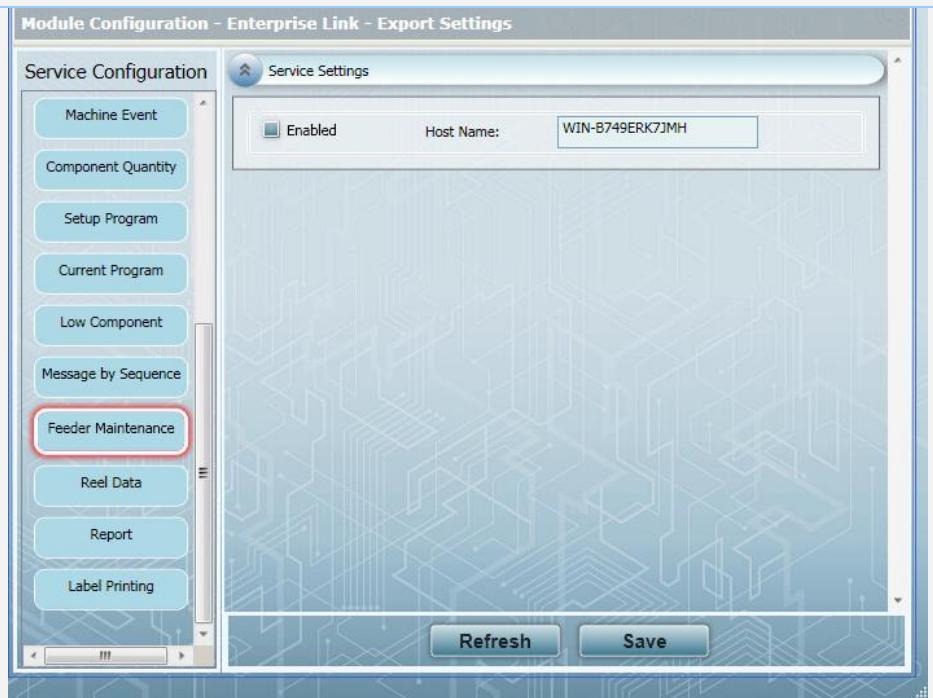
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In PanaCIM console, go to **Module Configuration → Enterprise Link → Export Settings**.

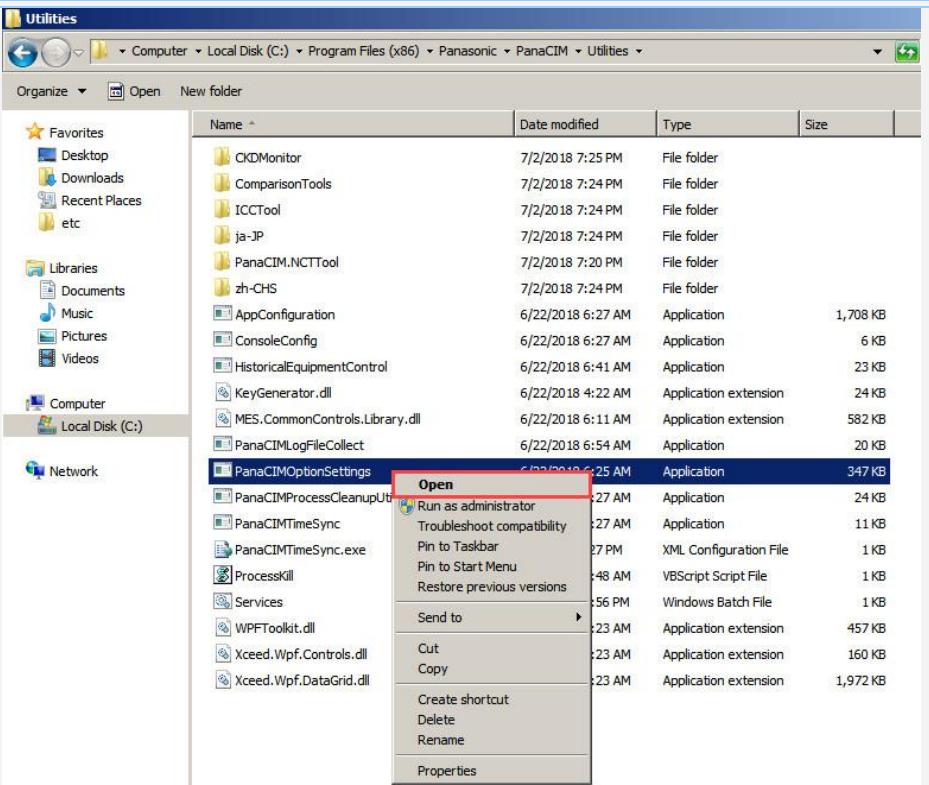
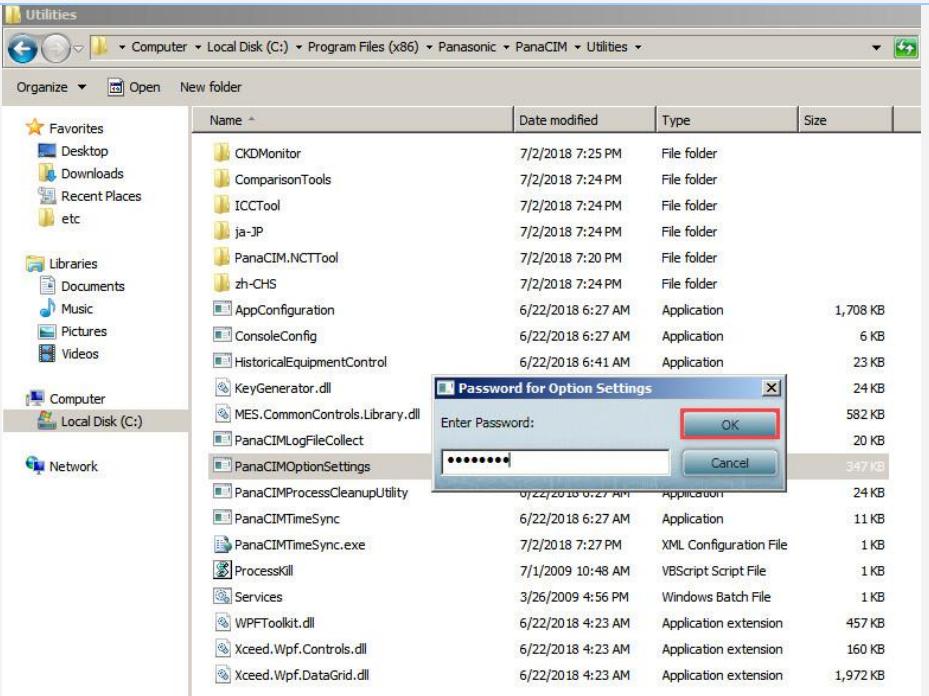


5

Ensure that **Feeder Maintenance** is disabled.

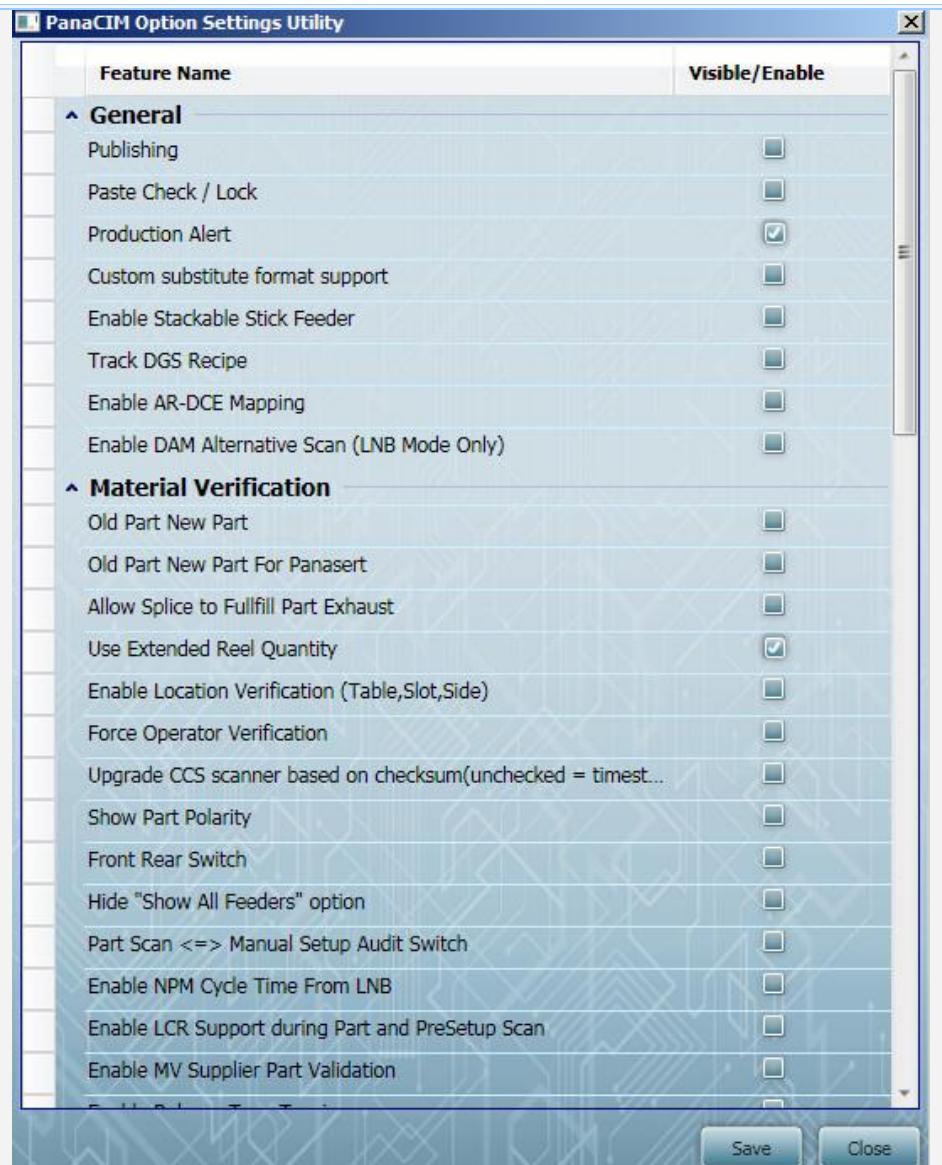


Step 6: Enable Nozzle Maintenance Tagging in Option Settings Utility

Step	Description	Screenshot
1	Right-click the PanaCIM Option Settings Utility and select the Open option from context menu.	
2	Enter password and click OK.	

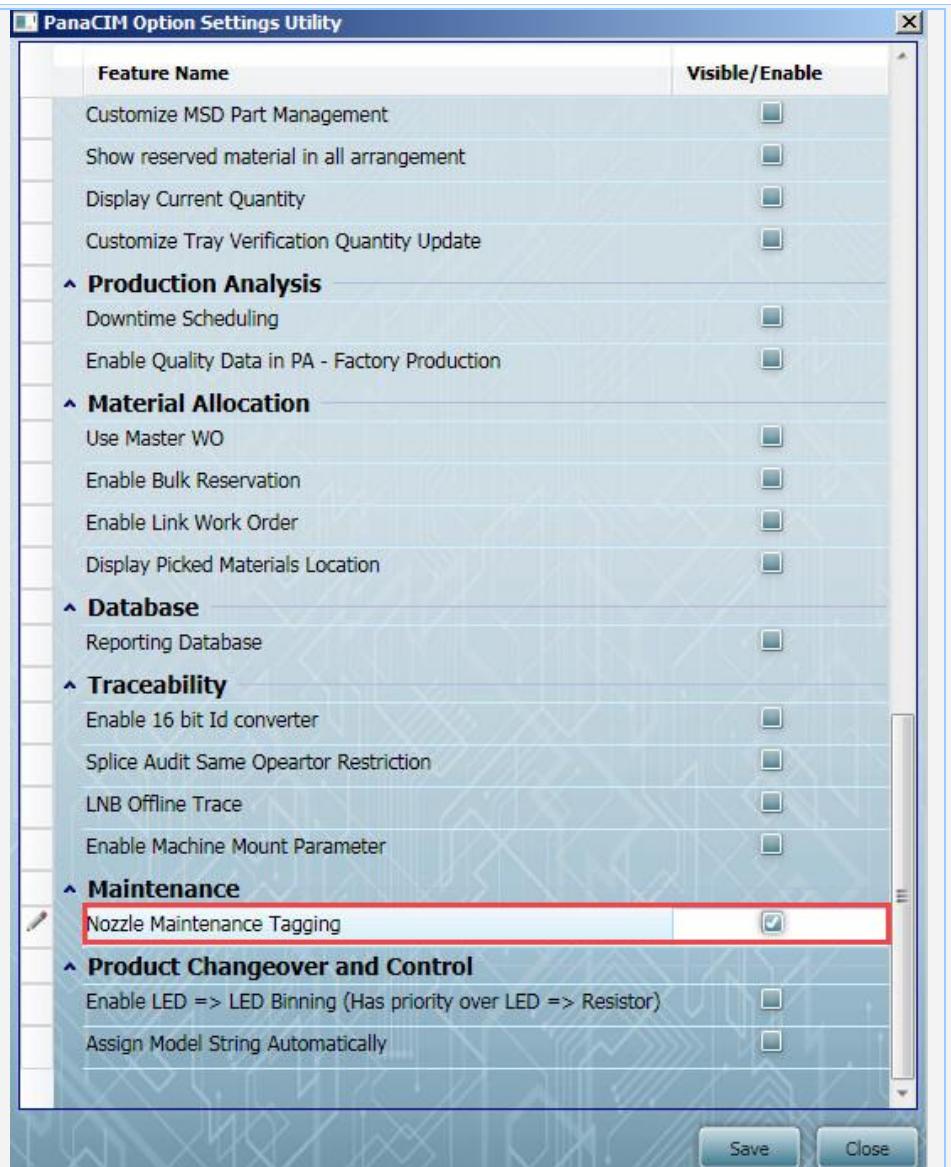
3

The Option Settings Utility appears.



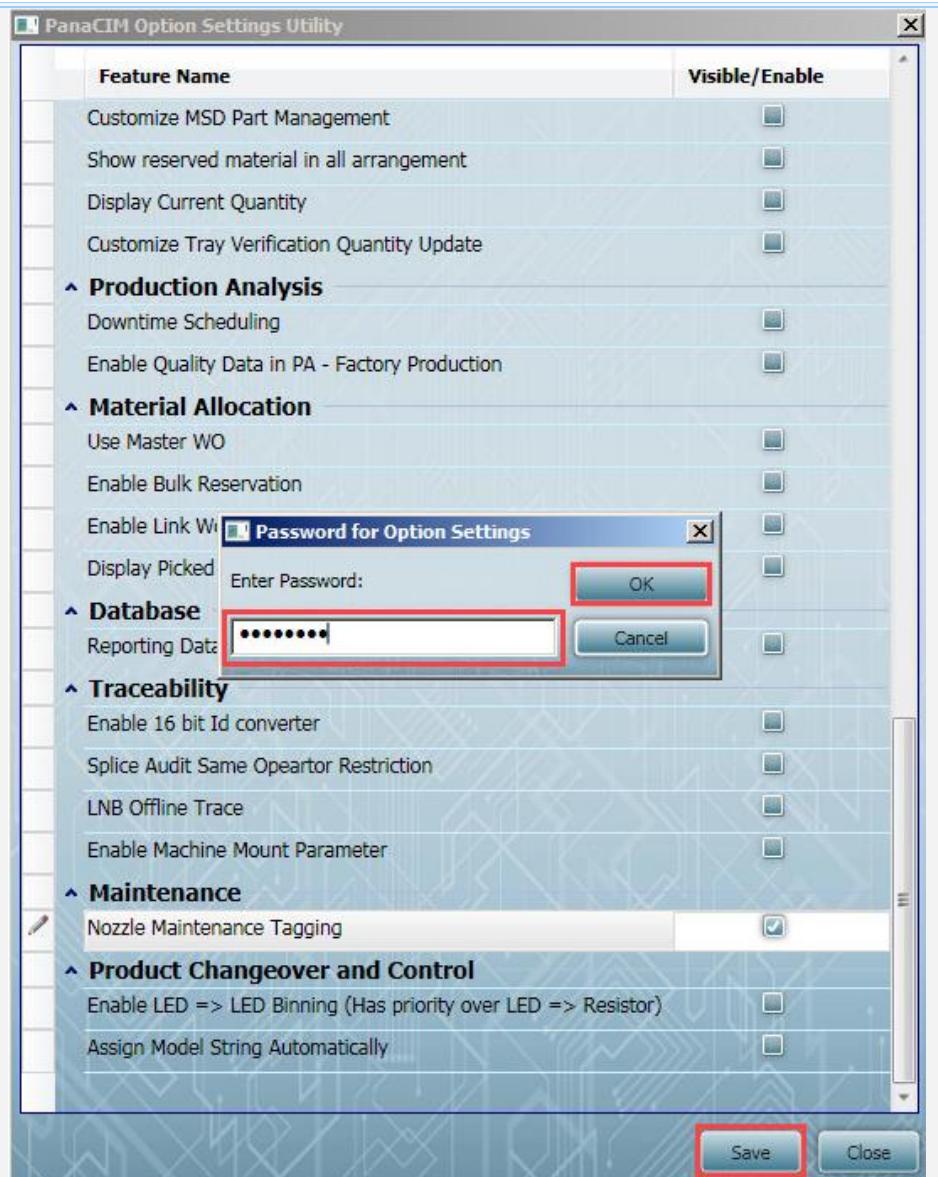
4

Check the Nozzle Maintenance Tagging in the Maintenance section.



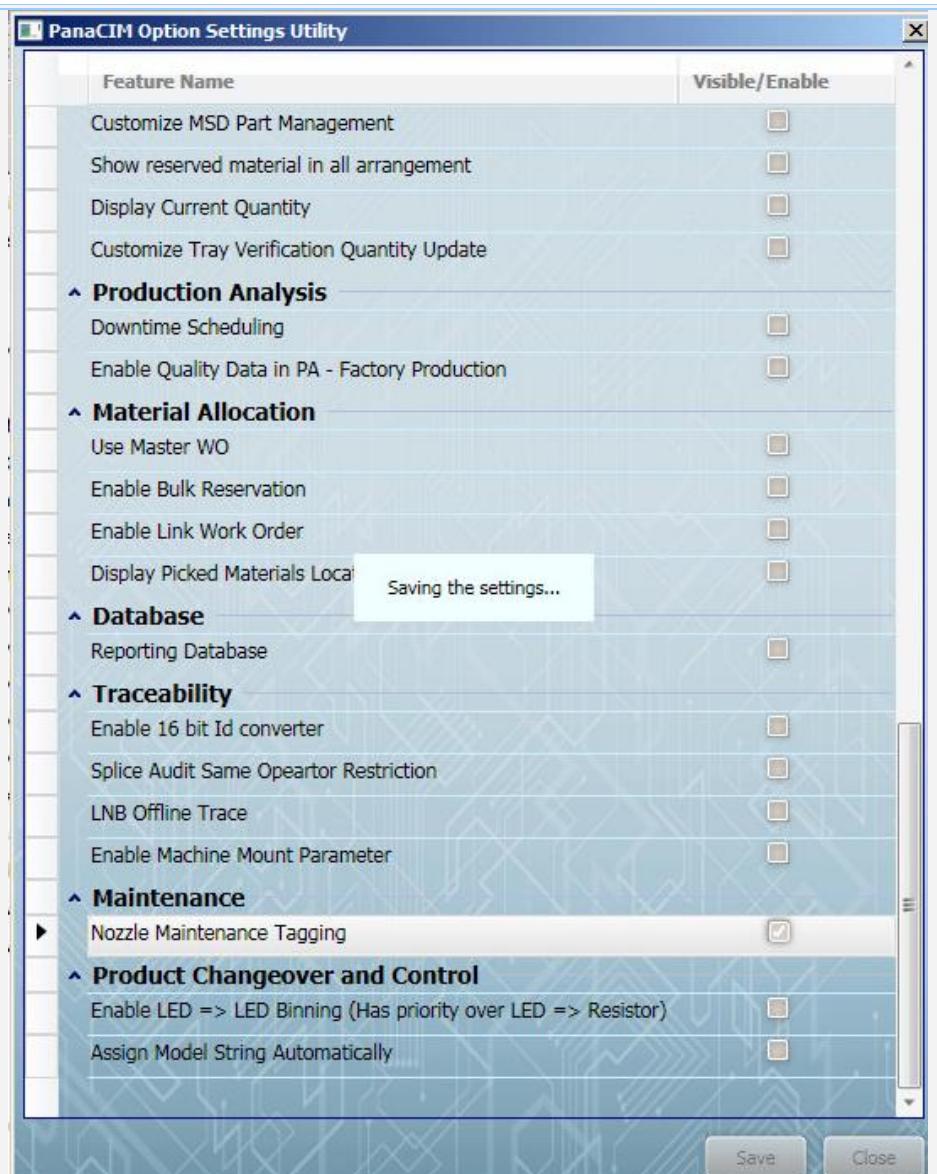
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Click the **Save** button. The **Password for Option Settings** dialog box appears. Enter password and click **OK**.



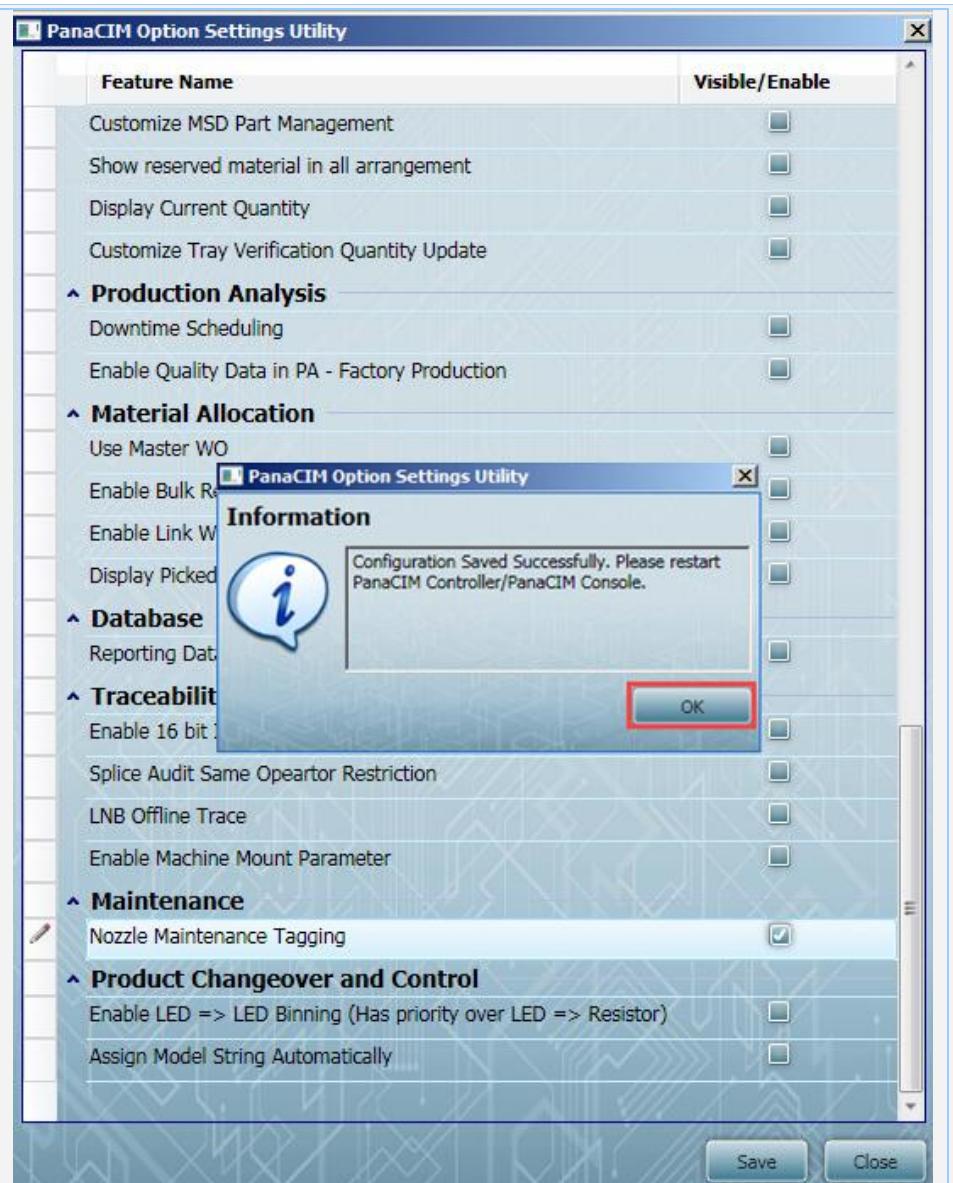
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The settings are being saved. Please wait.

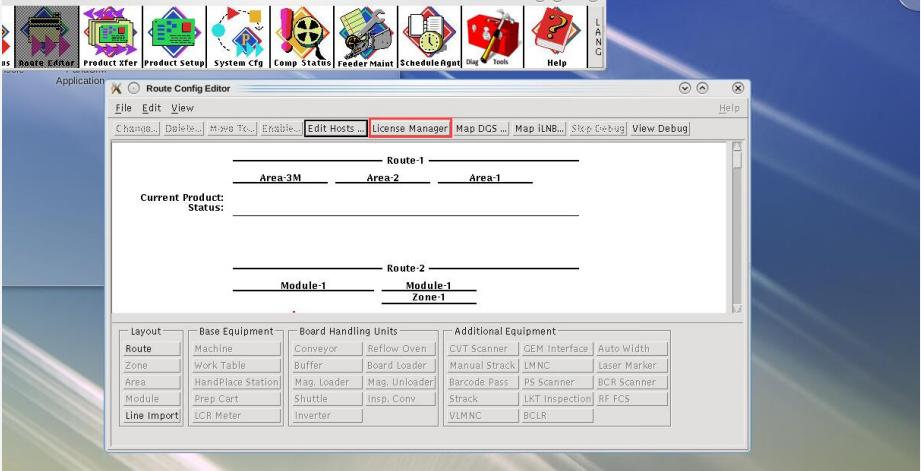
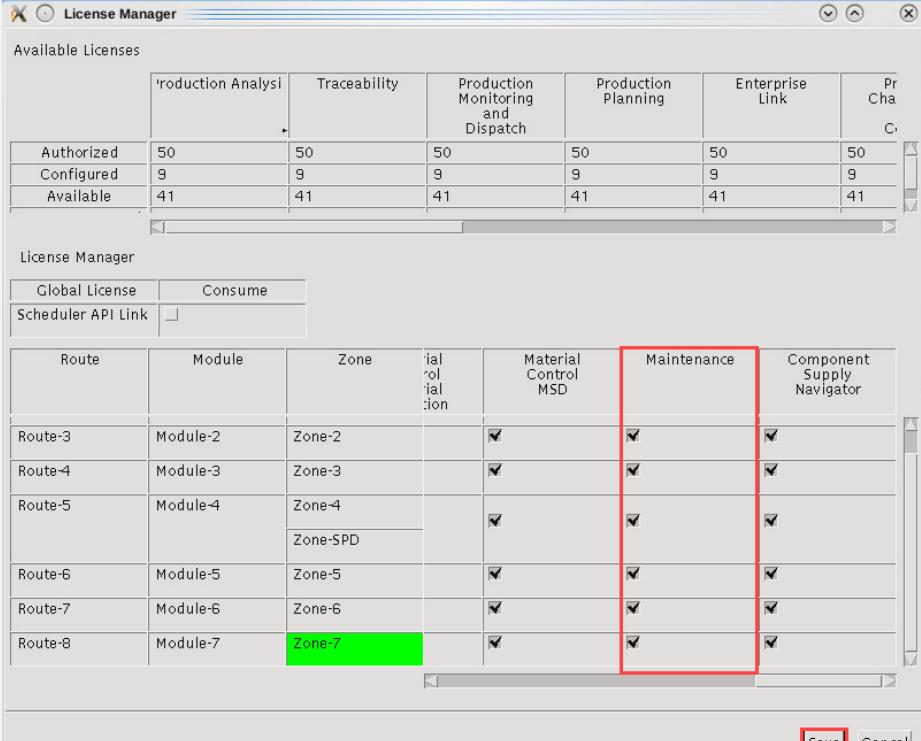


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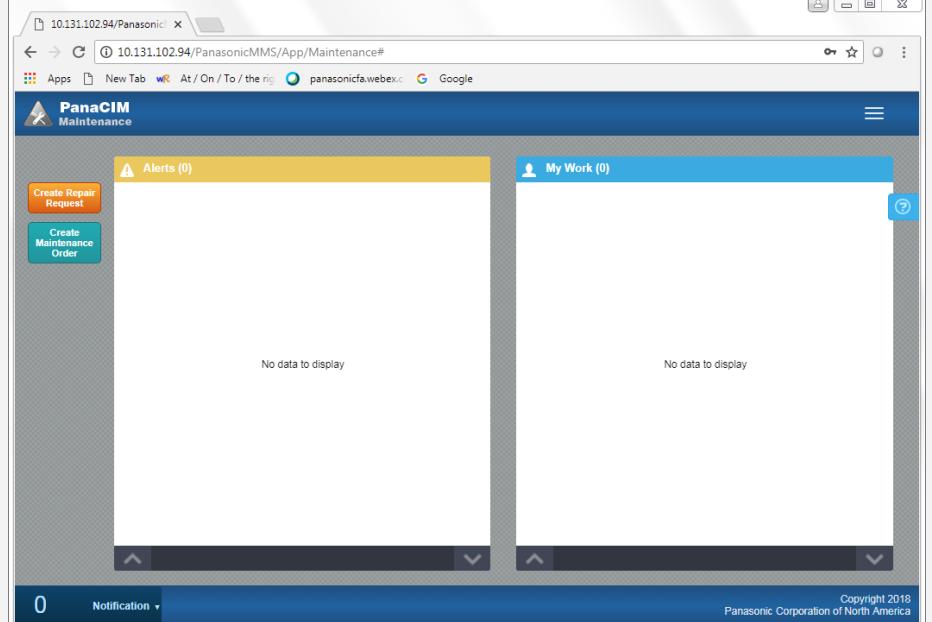
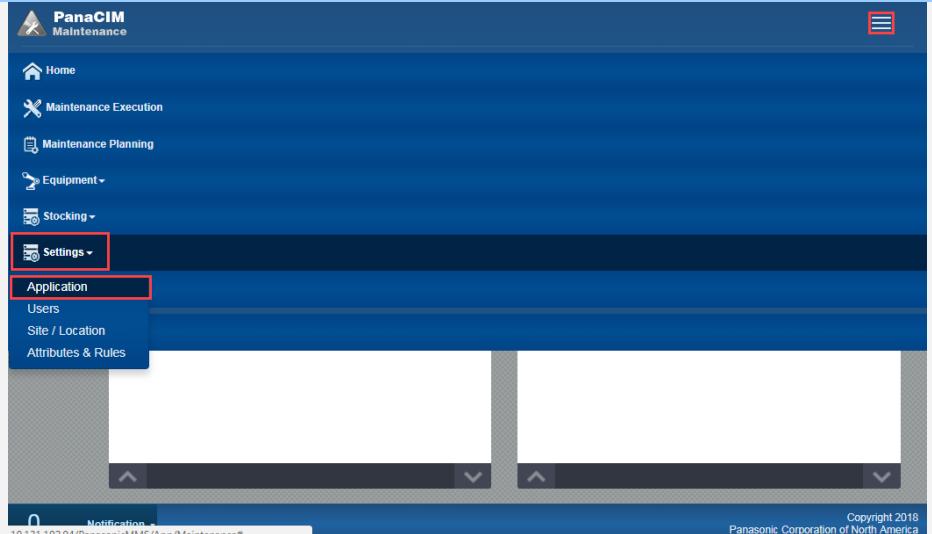
- A confirmation message box appears. Click **OK** and restart PanaCIM Controller/PanaCIM Console.

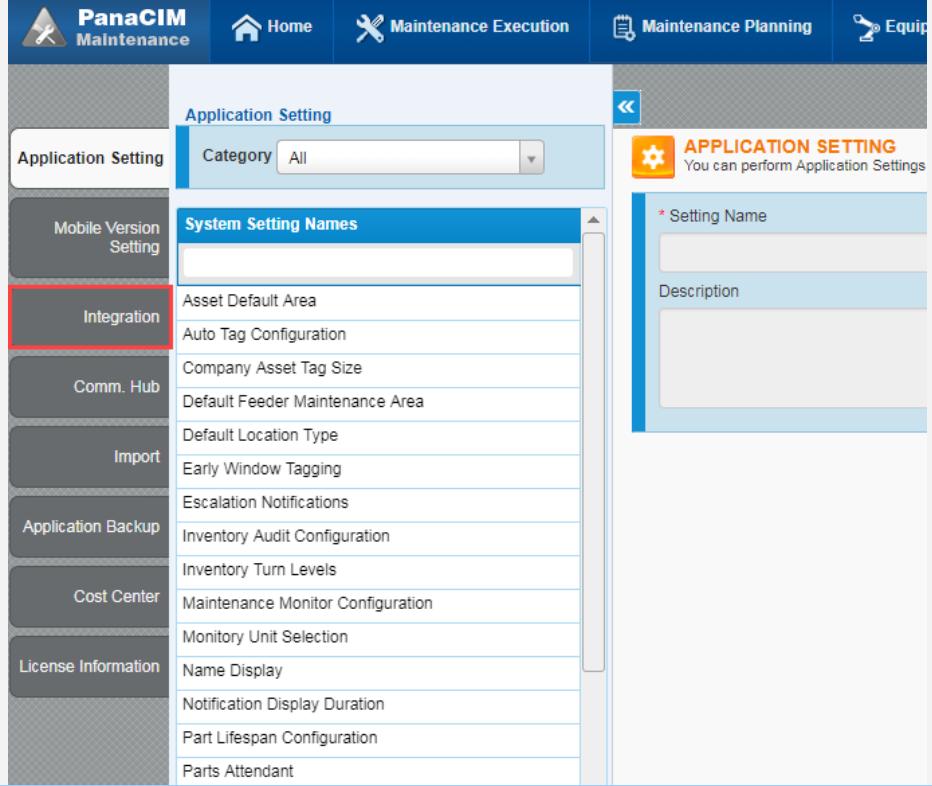
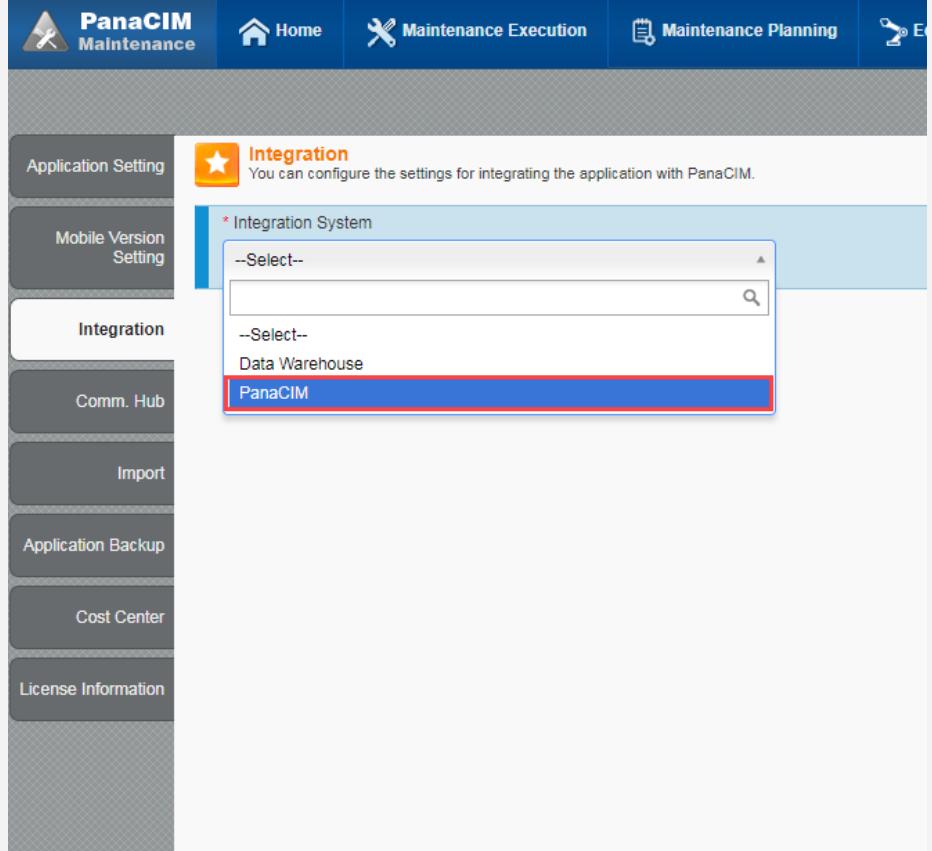


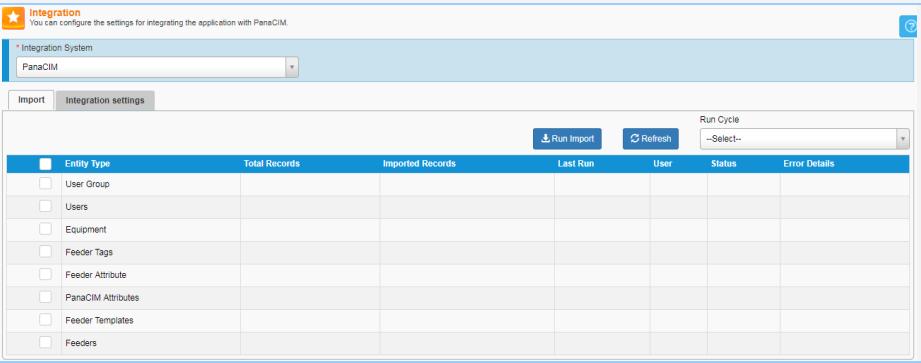
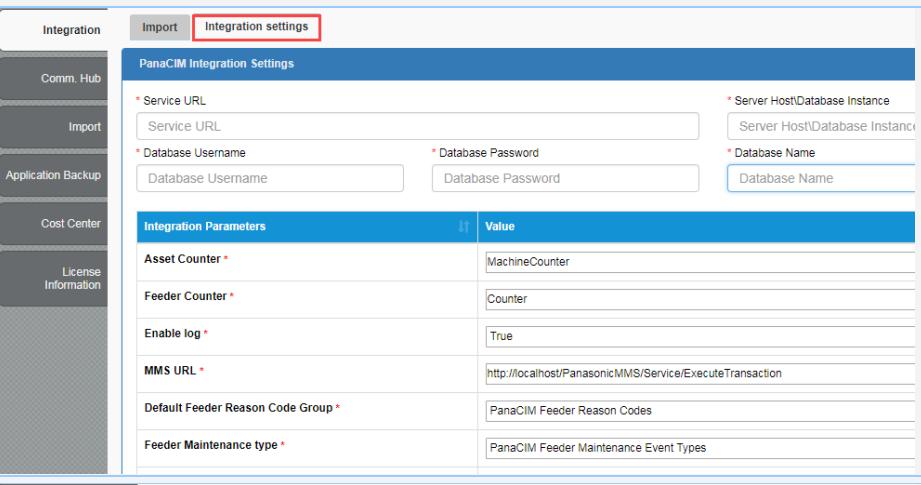
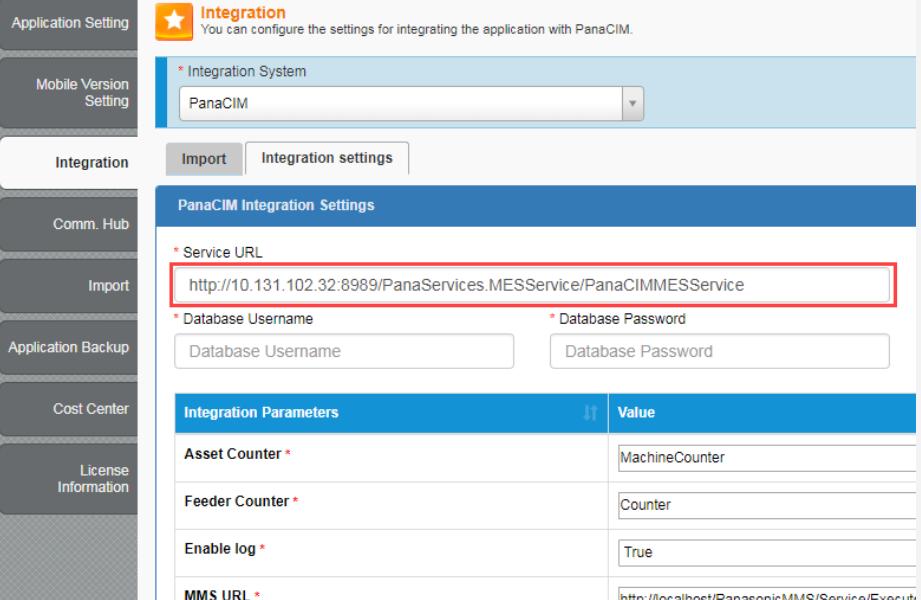
Step 7: Enable the License for Maintenance Module

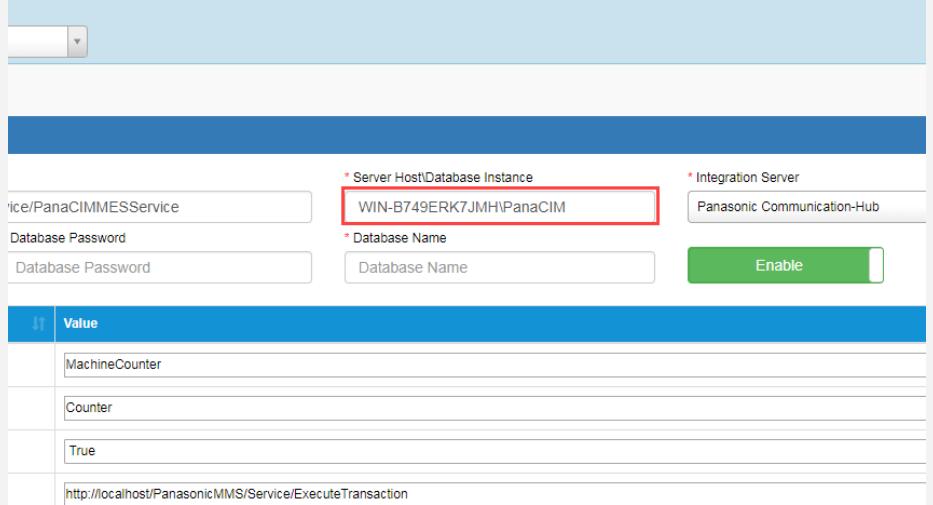
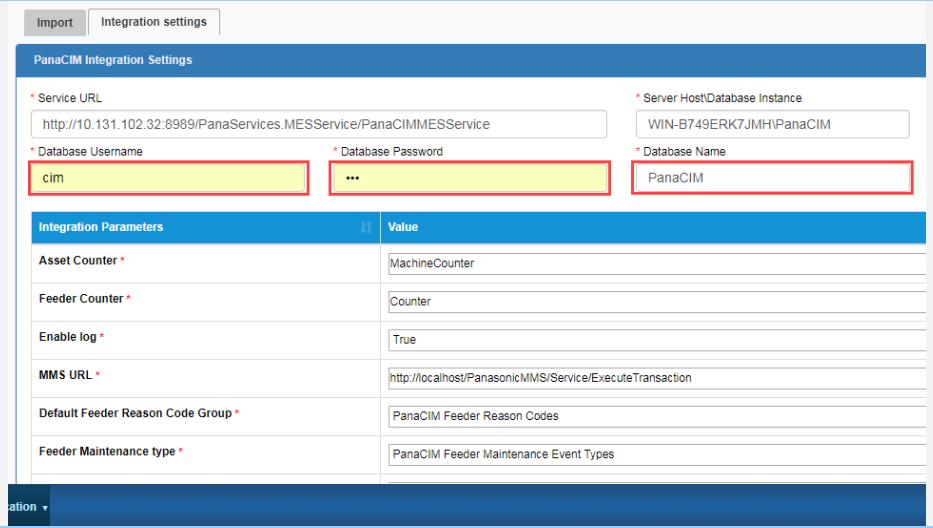
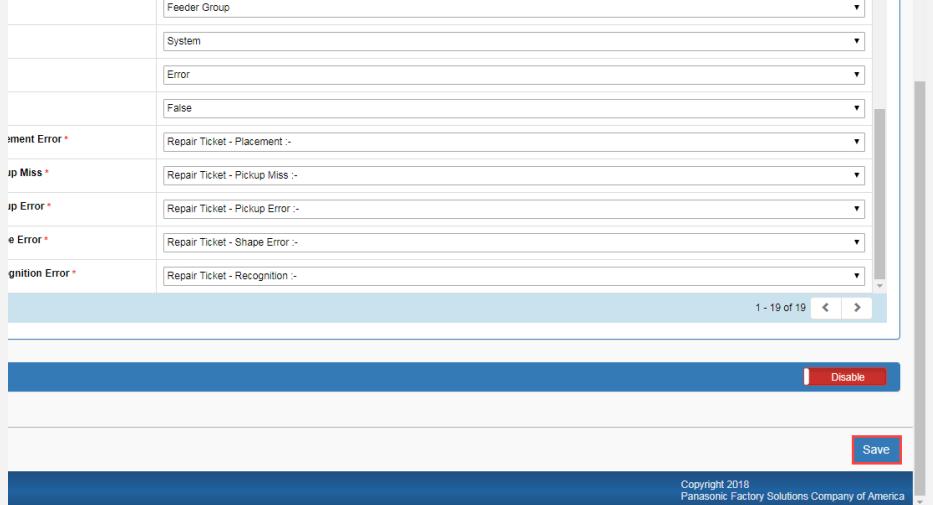
Step	Description	Screenshot																																																																																
1	In CIMC, open Route Config Editor and click the License Manager tab.																																																																																	
2	The License Manager tab appears. Provide licenses for Maintenance module. Click the Save button.	 <p>Available Licenses</p> <table border="1"> <thead> <tr> <th></th> <th>Production Analysis</th> <th>Traceability</th> <th>Production Monitoring and Dispatch</th> <th>Production Planning</th> <th>Enterprise Link</th> <th>Pr Ch C</th> </tr> </thead> <tbody> <tr> <td>Authorized</td> <td>50</td> <td>50</td> <td>50</td> <td>50</td> <td>50</td> <td>50</td> </tr> <tr> <td>Configured</td> <td>9</td> <td>9</td> <td>9</td> <td>9</td> <td>9</td> <td>9</td> </tr> <tr> <td>Available</td> <td>41</td> <td>41</td> <td>41</td> <td>41</td> <td>41</td> <td>41</td> </tr> </tbody> </table> <p>License Manager</p> <table border="1"> <thead> <tr> <th>Global License</th> <th>Consume</th> </tr> </thead> <tbody> <tr> <td>Scheduler API Link</td> <td> </td> </tr> </tbody> </table> <table border="1"> <thead> <tr> <th>Route</th> <th>Module</th> <th>Zone</th> <th>Material Control MSD</th> <th>Maintenance</th> <th>Component Supply Navigator</th> </tr> </thead> <tbody> <tr> <td>Route-3</td> <td>Module-2</td> <td>Zone-2</td> <td><input checked="" type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> </tr> <tr> <td>Route-4</td> <td>Module-3</td> <td>Zone-3</td> <td><input checked="" type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> </tr> <tr> <td>Route-5</td> <td>Module-4</td> <td>Zone-4</td> <td><input checked="" type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> </tr> <tr> <td></td> <td></td> <td>Zone-SPD</td> <td></td> <td></td> <td></td> </tr> <tr> <td>Route-6</td> <td>Module-5</td> <td>Zone-5</td> <td><input checked="" type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> </tr> <tr> <td>Route-7</td> <td>Module-6</td> <td>Zone-6</td> <td><input checked="" type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> </tr> <tr> <td>Route-8</td> <td>Module-7</td> <td>Zone-7</td> <td><input checked="" type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> </tr> </tbody> </table> <p>Save Cancel</p>		Production Analysis	Traceability	Production Monitoring and Dispatch	Production Planning	Enterprise Link	Pr Ch C	Authorized	50	50	50	50	50	50	Configured	9	9	9	9	9	9	Available	41	41	41	41	41	41	Global License	Consume	Scheduler API Link		Route	Module	Zone	Material Control MSD	Maintenance	Component Supply Navigator	Route-3	Module-2	Zone-2	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Route-4	Module-3	Zone-3	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Route-5	Module-4	Zone-4	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			Zone-SPD				Route-6	Module-5	Zone-5	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Route-7	Module-6	Zone-6	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Route-8	Module-7	Zone-7	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
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Step 8: Configure PanaCIM Service URL and Database Details in MMS

Step	Description	Screenshot
1	<p>Login to the MMS Web application using the below URL:</p> <p><a href="http://<ip_address_of_MMS_machine>/PanasonicMMS">http://<ip_address_of_MMS_machine>/PanasonicMMS</p>	
2	<p>Click the menu (≡) icon, then Settings → Application.</p>	

3	Click the Integration tab.	 <p>The screenshot shows the PanaCIM Maintenance application interface. The top navigation bar includes tabs for Home, Maintenance Execution, Maintenance Planning, and Equipment. On the left, a vertical sidebar lists several options: Application Setting, Mobile Version Setting, Integration (which is highlighted with a red box), Comm. Hub, Import, Application Backup, Cost Center, and License Information. The main content area is titled "Application Setting" with a dropdown menu set to "All". A list of "System Setting Names" is displayed, including Asset Default Area, Auto Tag Configuration, Company Asset Tag Size, Default Feeder Maintenance Area, Default Location Type, Early Window Tagging, Escalation Notifications, Inventory Audit Configuration, Inventory Turn Levels, Maintenance Monitor Configuration, Monitory Unit Selection, Name Display, Notification Display Duration, Part Lifespan Configuration, and Parts Attendant.</p>
4	Select the PanaCIM in the Integration System dropdown.	 <p>The screenshot shows the PanaCIM Maintenance application interface. The top navigation bar includes tabs for Home, Maintenance Execution, Maintenance Planning, and Equipment. On the left, a vertical sidebar lists several options: Application Setting, Mobile Version Setting, Integration (which is highlighted with a red box), Comm. Hub, Import, Application Backup, Cost Center, and License Information. The main content area is titled "Integration" with a sub-section "Integration System". A dropdown menu titled "Integration System" is open, showing options: "--Select--", "Data Warehouse", and "PanaCIM" (which is highlighted with a red box).</p>

5	The integration screen appears.	 <p>The screenshot shows the 'Integration' screen with the 'Import' tab selected. At the top, there's a message: 'You can configure the settings for integrating the application with PanaCIM.' Below it, a dropdown menu shows 'PanaCIM' as the integration system. A table lists various entity types: User Group, Users, Equipment, Feeder Tags, Feeder Attribute, PanaCIM Attributes, Feeder Templates, and Feeders. Columns include Entity Type, Total Records, Imported Records, Last Run, User, Status, and Error Details. Buttons at the bottom include 'Run Import', 'Refresh', and a dropdown for 'Run Cycle'.</p>
6	Click the Integration tab.	 <p>The screenshot shows the 'Integration' screen with the 'Integration' tab selected. On the left, a sidebar has tabs for 'Comm. Hub', 'Import', 'Application Backup', 'Cost Center', and 'License Information'. The main area is titled 'PanaCIM Integration Settings' and contains fields for Service URL, Database Username, Database Password, and several integration parameters like Asset Counter, Feeder Counter, and Enable log.</p>
7	Provide service URL of PanaCIM.	 <p>The screenshot shows the 'Integration' screen with the 'Integration' tab selected. On the left, a sidebar has tabs for 'Application Setting', 'Mobile Version Setting', 'Integration', 'Comm. Hub', 'Import', 'Application Backup', 'Cost Center', and 'License Information'. The main area is titled 'PanaCIM Integration Settings' and contains fields for Service URL, Database Username, Database Password, and several integration parameters like Asset Counter, Feeder Counter, and Enable log. The 'Service URL' field is highlighted with a red box.</p>

8	Provide database instance detail.	
9	Provide database user name, database password, and database name.	
10	Click the Save button.	

11

A message box appears indicating that PanaCIM settings have been saved successfully. Click **OK**.

Note: The PanaCIM service URL is validated for successful connectivity. If MMS is not able to connect to the configured URL with provided credentials, then an error message pops-up.

The screenshot shows the 'Integration Parameters' configuration page. It includes fields for Asset Counter, Feeder Counter, Enable log, MMS URL, Default Feeder Reason Code Group, Feeder Maintenance type, Default Equipment Reason Code Group, Default Equipment Maintenance Event Type, Default User for Auto tag, and Feeder count based Maintenance Order Template. A green message box in the bottom right corner says 'PanaCIM Settings saved successfully.' with an 'OK' button.

Step 9: Import Data in MMS from PanaCIM

Step	Description	Screenshot
1	Click the Import tab.	<p>The screenshot shows the 'Import' tab of the PanaCIM Maintenance interface. It has sections for 'Integration System' (set to 'PanaCIM'), 'Run Cycle' (button), and a table for selecting entity types. The 'Entity Type' checkbox is checked, and other options like 'User Group', 'Users', etc., are listed below it.</p>
2	Select the required entity check boxes for import.	<p>The screenshot shows the 'Import' tab with multiple entity types selected in the 'Entity Type' checkbox group. The selected items include 'User Group', 'Users', 'Equipment', 'Feeder Tags', 'Feeder Attribute', 'PanaCIM Attributes', 'Feeder Templates', and 'Feeders'.</p>

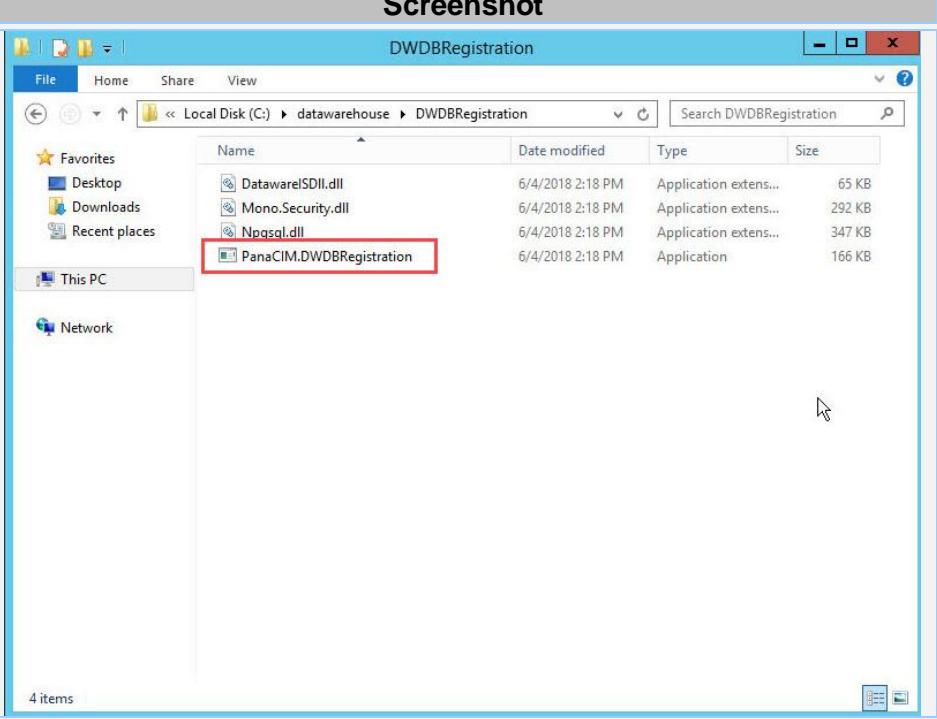
3	Click the Run Import button.	<p>The screenshot shows the 'Integration' section of the PanaCIM interface. On the left is a sidebar with buttons for Mobile Version Setting, Integration, Comm. Hub, Import, Application Backup, Cost Center, and License Information. The 'Import' button is highlighted. The main area has tabs for 'Import' and 'Integration settings'. Under 'Import', there's a 'Run Cycle' dropdown set to 'Select-' and a red box highlights the 'Run Import' button. Below it is a table with columns: Entity Type, Total Records, Imported Records, Last Run, User, Status, and Error Details. All entity types listed (User Group, Users, Equipment, Feeder Tags, Feeder Attribute, PanaCIM Attributes, Feeder Templates, Feeders) have their checkboxes checked.</p>
4	A message box appears indicating that import is triggered. Click OK .	<p>The screenshot shows the 'Integration' section of the PanaCIM interface. On the left is a sidebar with buttons for Mobile Version Setting, Integration, Comm. Hub, Import, Application Backup, Cost Center, and License Information. The 'Import' button is highlighted. The main area has tabs for 'Import' and 'Integration settings'. Under 'Import', there's a 'Run Cycle' dropdown set to '1'. A green message box says 'Import has been triggered. Please visit this page after sometime for further update.' with a red box around the 'OK' button. Below it is a table with columns: Entity Type, Total Records, Imported Records, Last Run, User, and Status. The table shows the results of the import: 12 User Groups imported, 2 Users imported, 8 Equipment imported, 8 Feeder Tags imported, 8 Feeder Attribute imported, 39 PanaCIM Attributes imported, 0 Feeder Templates imported, and 14 Feeders imported. All rows show a status of 'Success'.</p>
5	The data is imported from PanaCIM to MMS as shown to the right.	<p>The screenshot shows the 'Integration' section of the PanaCIM interface. On the left is a sidebar with buttons for Mobile Version Setting, Integration, Comm. Hub, Import, Application Backup, Cost Center, and License Information. The 'Import' button is highlighted. The main area has tabs for 'Import' and 'Integration settings'. Under 'Import', there's a 'Run Cycle' dropdown set to '1'. A red box highlights the entire table area. Below it is a table with columns: Entity Type, Total Records, Imported Records, Last Run, User, and Status. The table shows the results of the import: 12 User Groups imported, 2 Users imported, 8 Equipment imported, 8 Feeder Tags imported, 8 Feeder Attribute imported, 39 PanaCIM Attributes imported, 0 Feeder Templates imported, and 14 Feeders imported. All rows show a status of 'Success'.</p>

2.2 Multiple PanaCIM with MMS (Using Data Warehouse)

The integration of multiple PanaCIM EE servers with MMS can be categorized into following broad level steps.

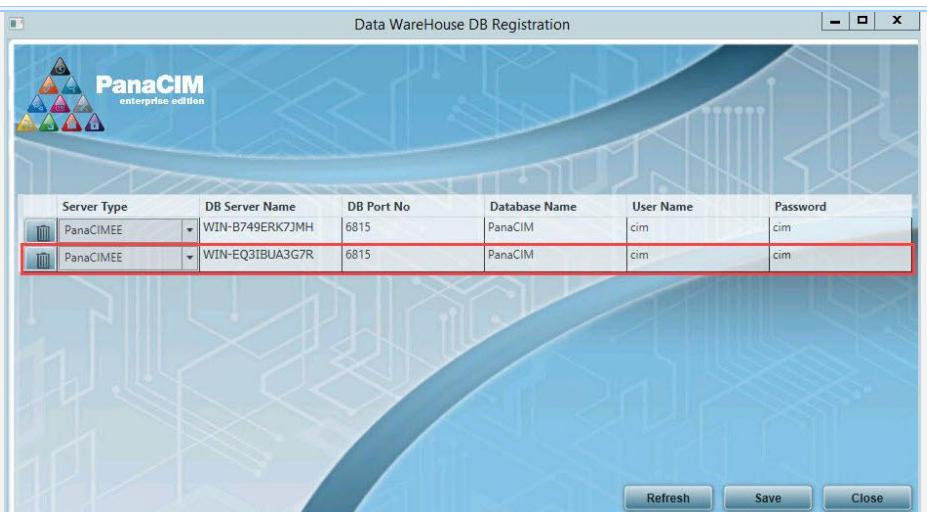
1. Integrating Multiple PanaCIM EE Servers with Data Warehouse
2. Communication Hub Configuration
3. Configure Data Warehouse Service URL in MMS
4. Import Data from Data Warehouse to MMS

Step 1: Integrating Multiple PanaCIM EE Servers with Data Warehouse

Step	Description	Screenshot
1	Run the PanaCIMDWDBRegistration service available in the C:\datawarehouse\DWDBRegistration directory.	
2	The Data Warehouse DB Registration screen appears. The application server details provided at the time of installation is already registered.	
3	On this screen multiple PanaCIM EE and P10 servers can be added.	

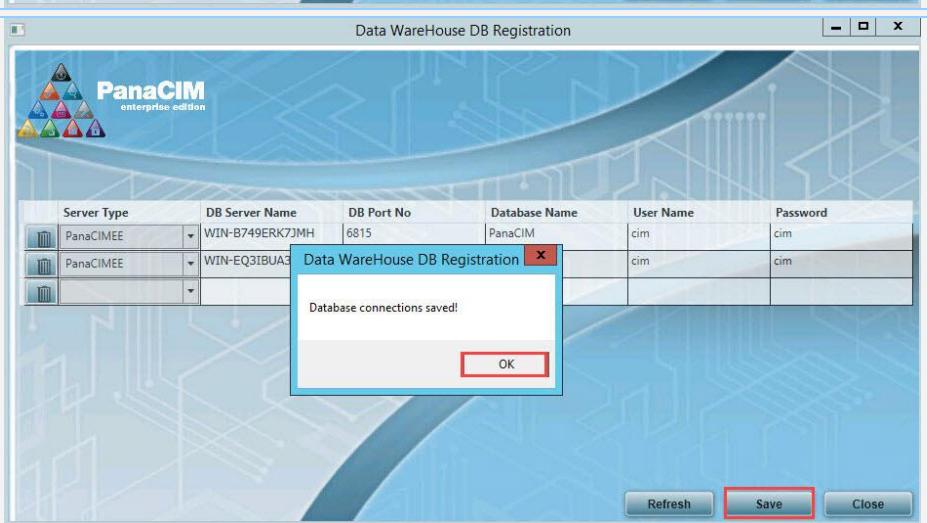
4

Add PanaCIM EE application server details.



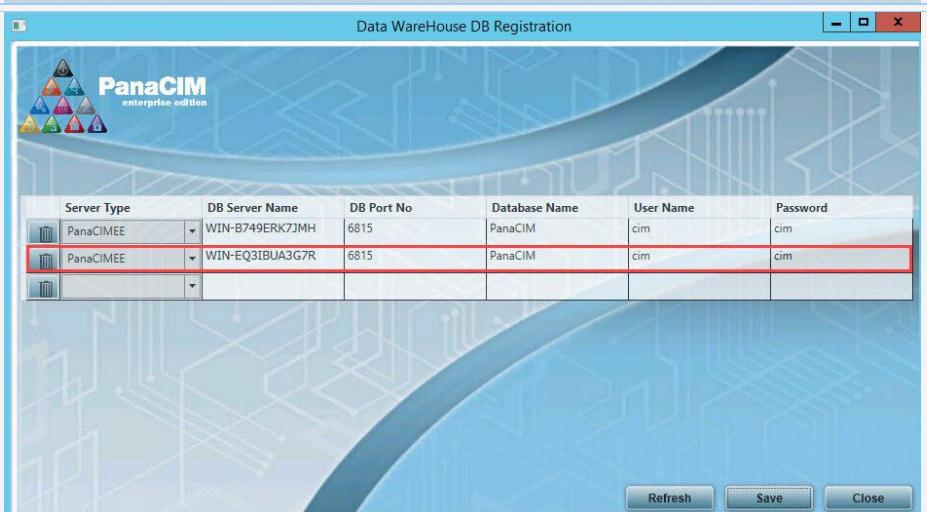
5

Click the **Save** button. A message box appears indicating that database connection saved. Click **OK**.



6

The new PanaCIM application server is added as shown to the right.



7

Click **Close** button to close the application. A confirmation message box appears. Click **Yes**.

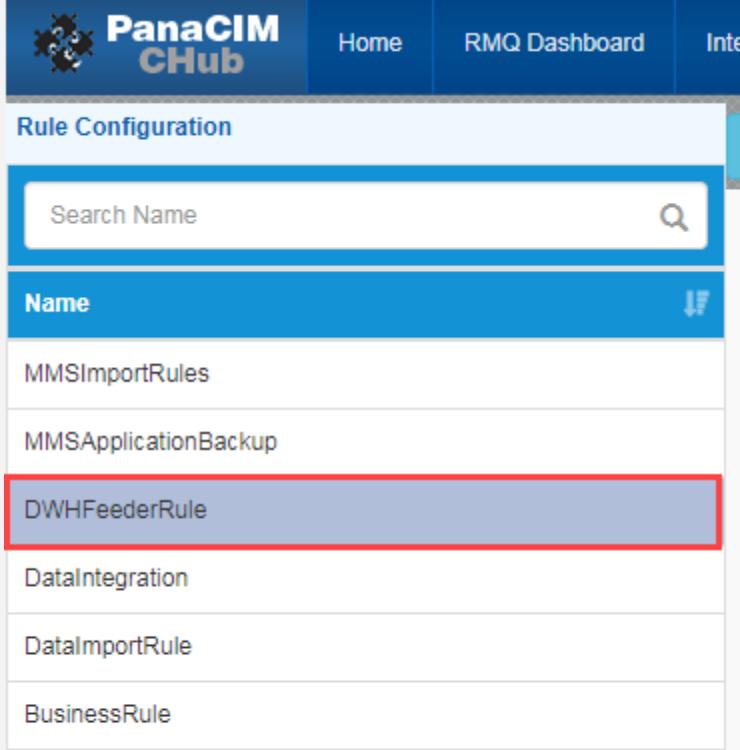
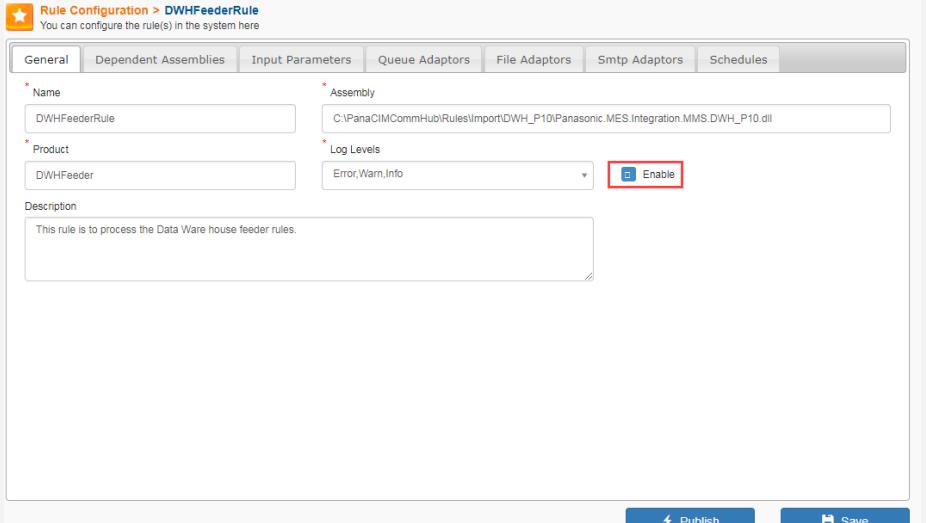
Similarly more PanaCIM EE servers can be integrated with Data Warehouse.

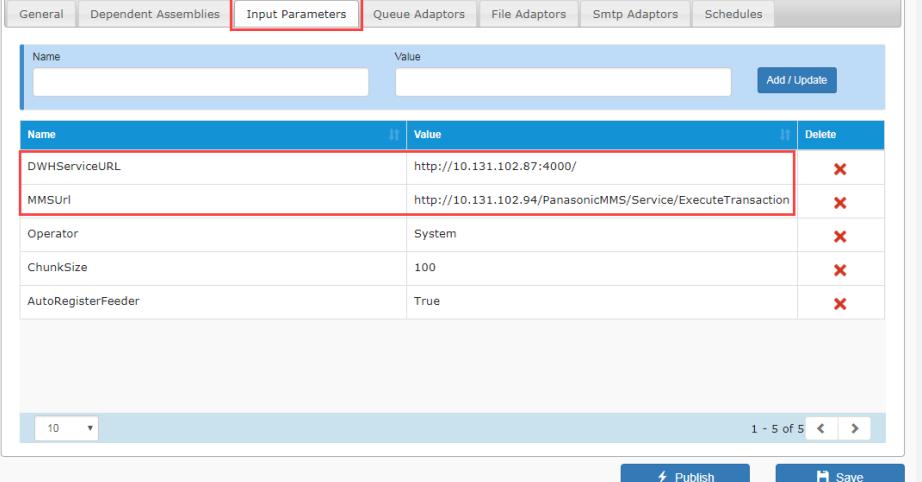
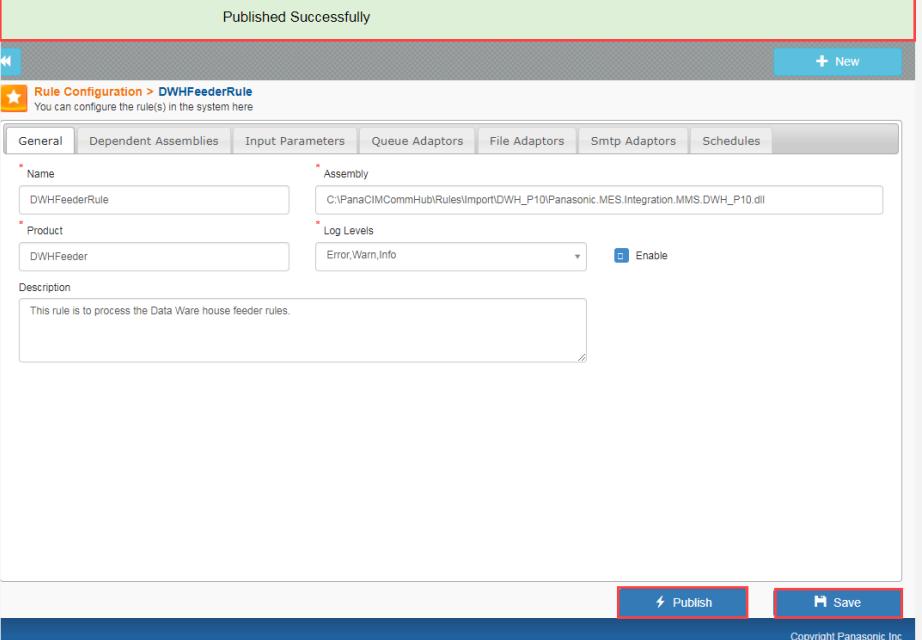


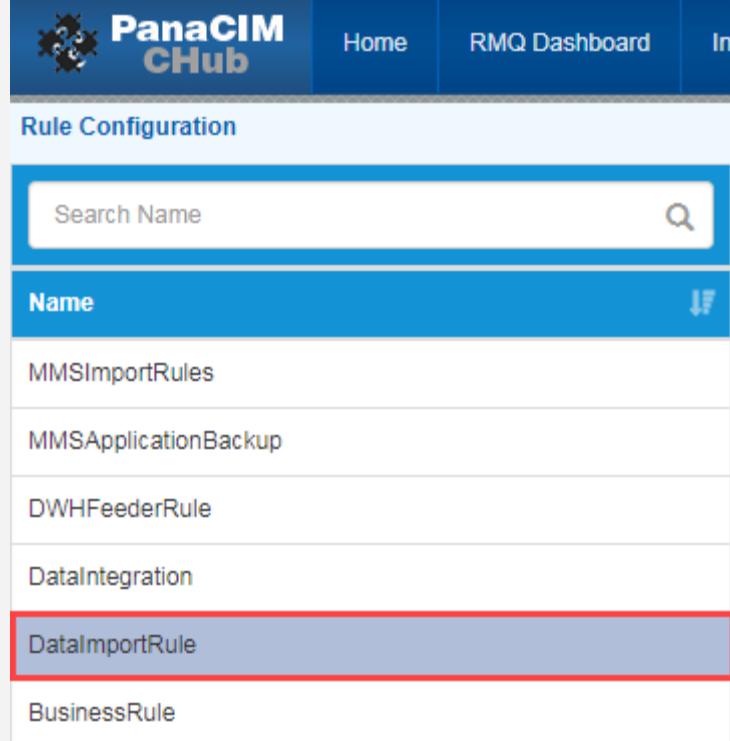
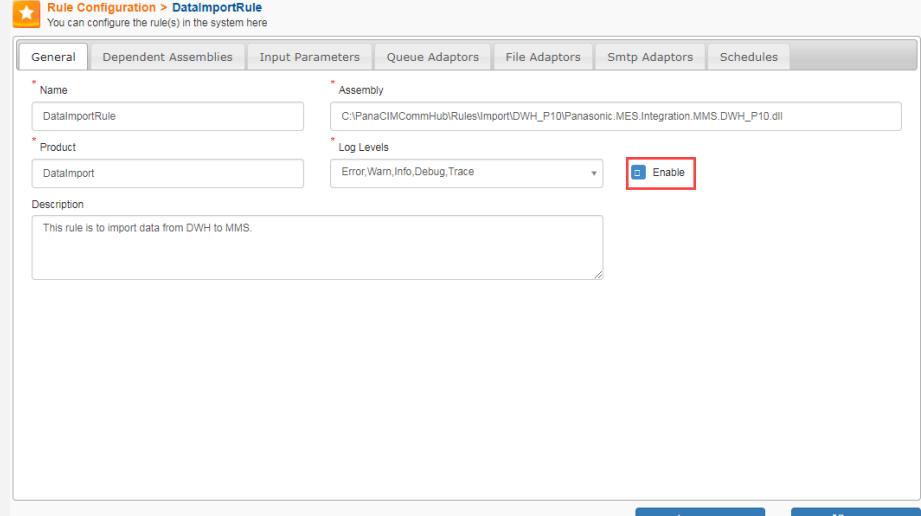
Step 2: Communication Hub Configuration

Step	Description	Screenshot
1	<p>Open the Communication Hub application in browser using the below URL: <u><a href="http://<IP Address of Comm hub Machine>/PanaCIMCommHub">http://<IP Address of Comm hub Machine>/PanaCIMCommHub</u></p>	A screenshot of a web browser window titled "Communication Hub". The address bar shows "Not secure 10.131.102.94/PanacimCommhub". The main content area is a "Login" form with fields for "Login Id" and "Password", and a "Login" button. Below the form is a language selection dropdown set to "English (United States)".

2	<p>Provide login Id and password and click the Login button.</p>	
3	<p>The home page of the application appears. Click the Rule Configuration tab.</p>	
4	<p>The Rule Configuration screen appears click the navigate icon.</p> <p>Note: To integrate Data Warehouse with MMS, it is necessary to update the service ULRs of MMS and data warehouse applications for the following rules:</p> <ul style="list-style-type: none"> • DWHFeederRule • DataImportRule 	

5	<p>Click the DWHFeederRule tab in the Rule Configuration pane.</p>	
6	<p>The DWHFeederRule configuration screen appears. Ensure that the Enable check box is checked.</p>	

7	<p>Click the Input Parameters tab. Update the DWHServiceURL and MMSUrl parameters with the data warehouse service URL and MMS service URL respectively.</p>	 <p>The screenshot shows the 'Input Parameters' tab selected in a configuration interface. A red box highlights the 'Input Parameters' tab. Below it, a table lists parameters with their values. Two specific rows, 'DWHServiceURL' and 'MMSUrl', are also highlighted with red boxes. The 'DWHServiceURL' value is 'http://10.131.102.87:4000/' and the 'MMSUrl' value is 'http://10.131.102.94/PanasonicMMS/Service/ExecuteTransaction'. Other parameters listed include Operator (System), ChunkSize (100), and AutoRegisterFeeder (True).</p>
8	<p>Click the Save button, then click the Publish button. Pop-up messages appear at the top of the screen indicating that the rule saved and published successfully.</p>	 <p>The screenshot shows the 'Rule Configuration > DWHFeederRule' page. A green banner at the top says 'Published Successfully'. Below it, the 'DWHFeederRule' configuration details are shown, including Name (DWHFeederRule), Assembly (C:\PanaCIM\CommHub\Rules\Import\DWHP10\Panasonic.MES.Integration.MMS.DWH_P10.dll), Product (DWHFeeder), Log Levels (Error,Warn,Info), and Description (This rule is to process the Data Ware house feeder rules). At the bottom, there are 'Publish' and 'Save' buttons, both of which are highlighted with red boxes. The 'Save' button is located on a dark blue bar.</p>

9	<p>Click the DataImportRule tab in the Rule Configuration tab.</p>	
10	<p>The DataImportRule configuration screen appears. Ensure that the Enable check box is checked.</p>	

11

Click the **Input Parameters** tab. Update the **DWHServiceURL** and **MMSUrl** parameters with the data warehouse service URL and MMS service URL respectively.

Rule Configuration > DataImportRule
You can configure the rule(s) in the system here

Name	Value	Add / Update
DWHServiceURL	http://10.131.102.87:4000/	X
MMSUrl	http://10.131.102.94/PanasonicMMS/Service/ExecuteTransaction	X
Operator	System	X
ChunkSize	100	X
PanaCIMFeederMainType	PanaCIM Feeder Maintenance Event Types	X
PanaCIMFeederReasonCodes	PanaCIM Feeder Reason Codes	X

1 - 6 of 6 [<](#) [>](#)

[Publish](#) [Save](#)

12

Click the **Save** button, then click the **Publish** button. Pop-up messages appear at the top of the screen indicating that the rule saved and published successfully.

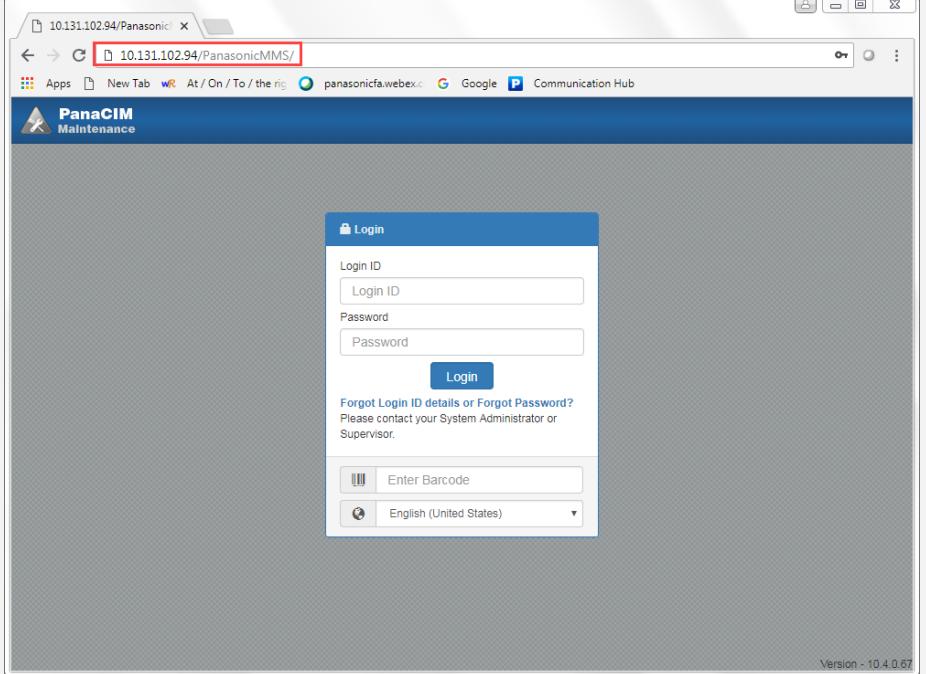
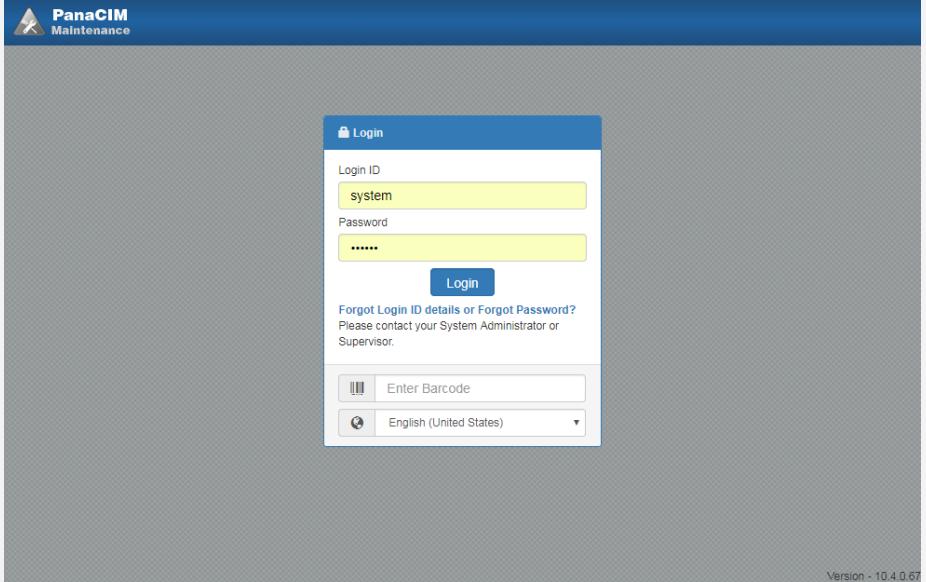
Published Successfully

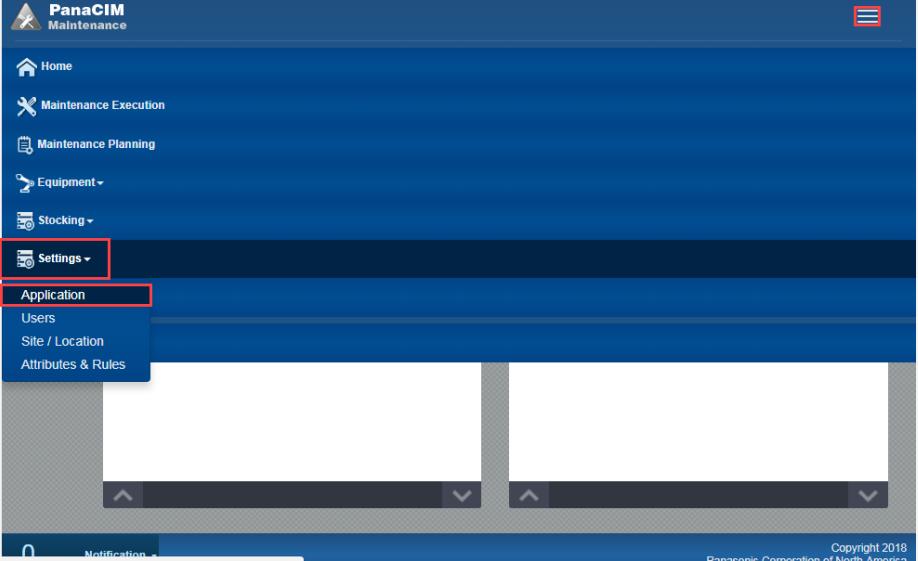
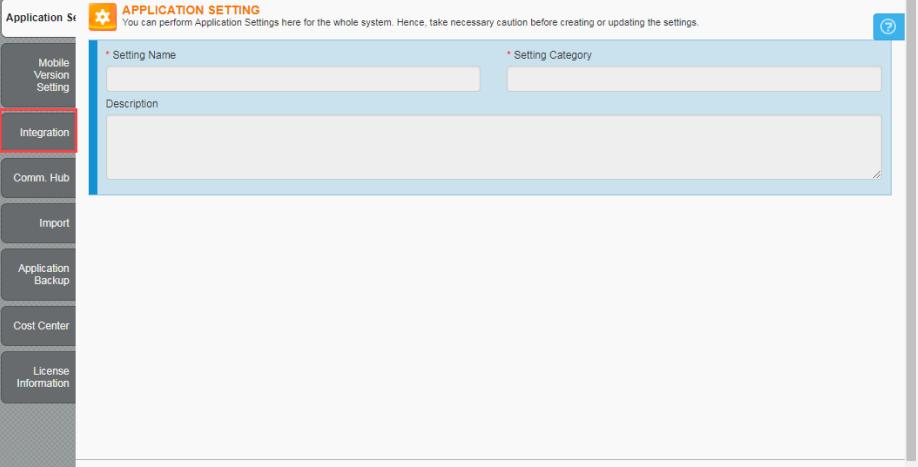
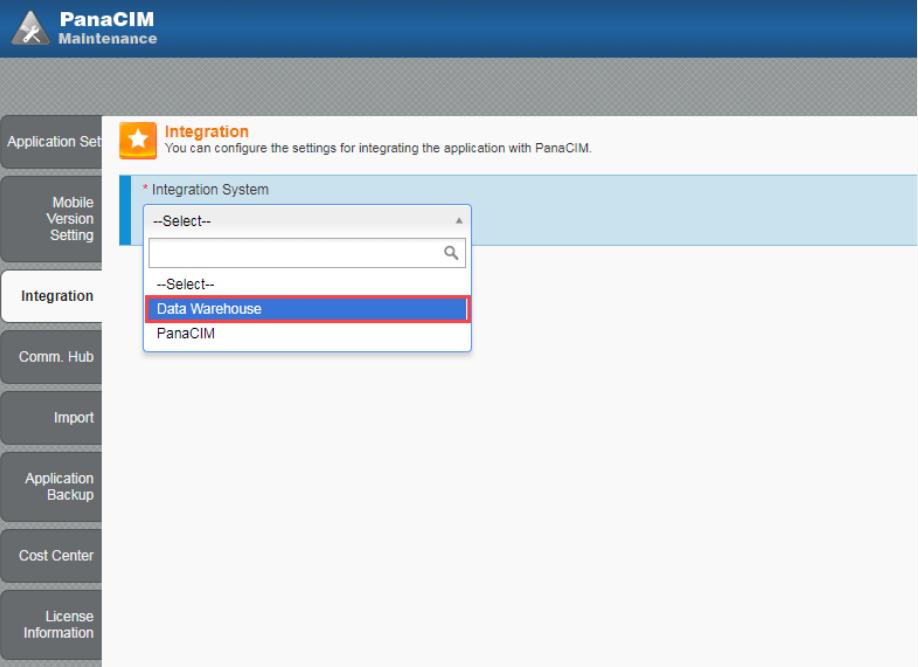
Rule Configuration > DataImportRule
You can configure the rule(s) in the system here

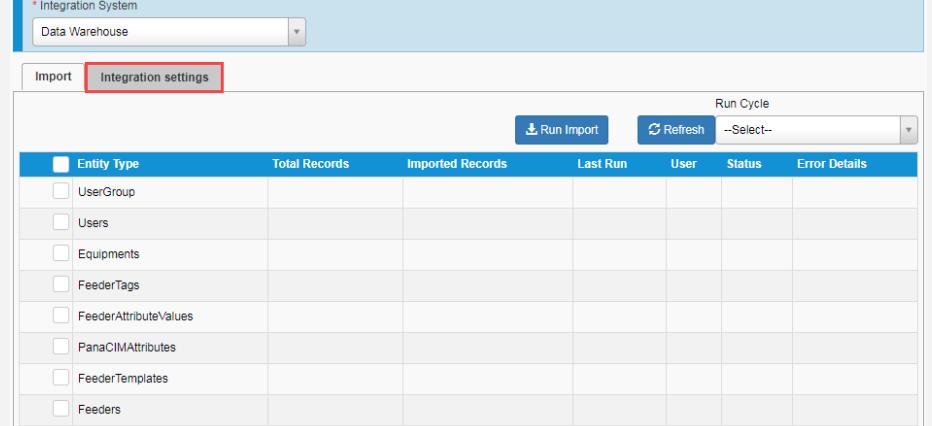
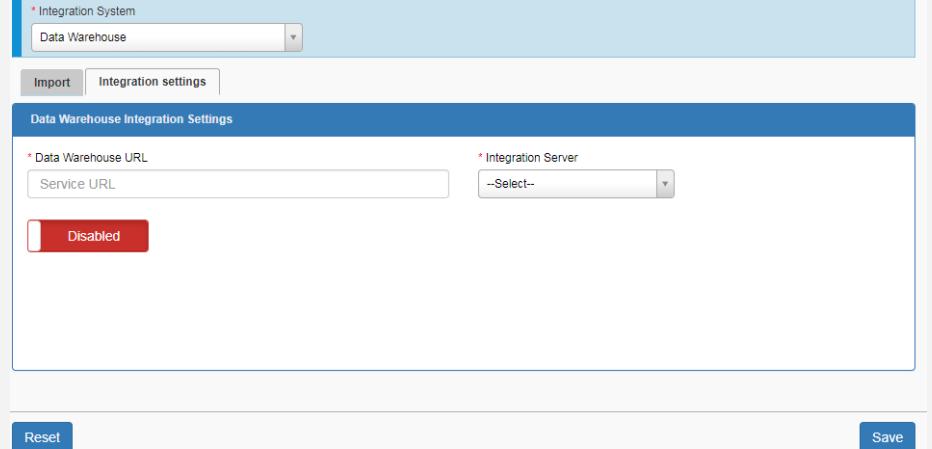
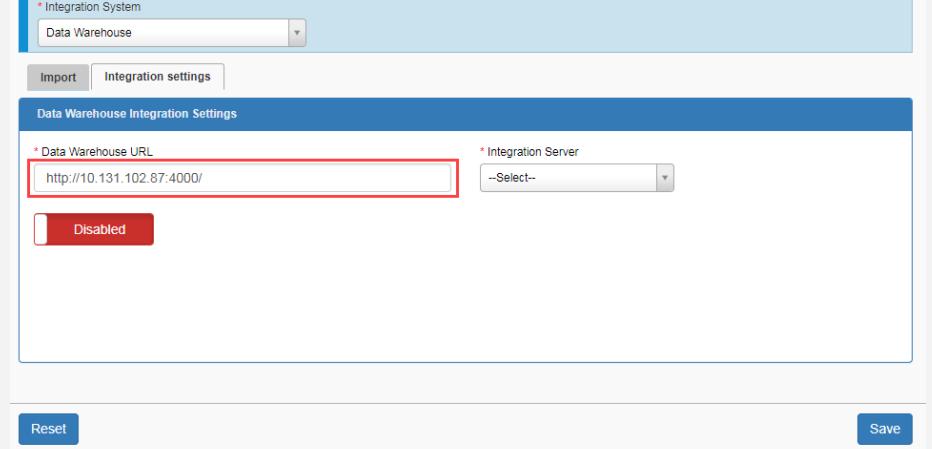
Name	Assembly
DataImportRule	C:\PanaCIMCommHub\Rules\ImportDWH_P10\Panasonic.MES.Integration.MMS.DWH_P10.dll
Product	Log Levels
DataImport	Error,Warn,Info,Debug,Trace
Description	
This rule is to import data from DWH to MMS.	

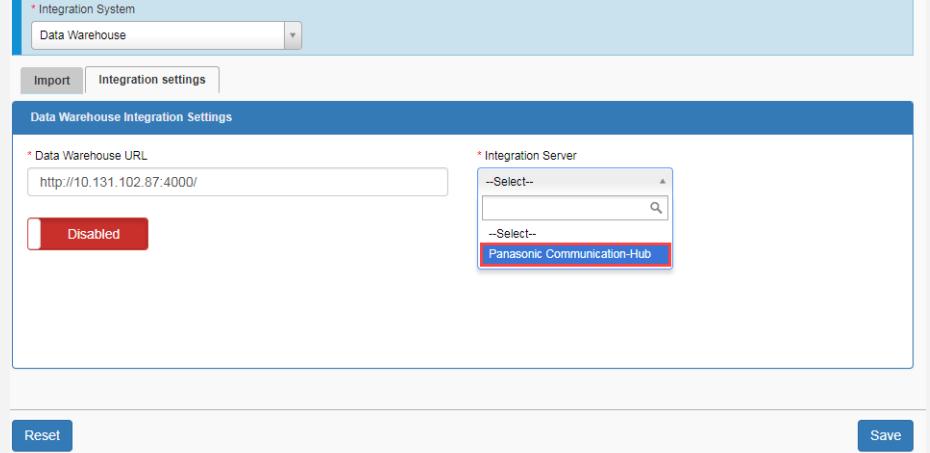
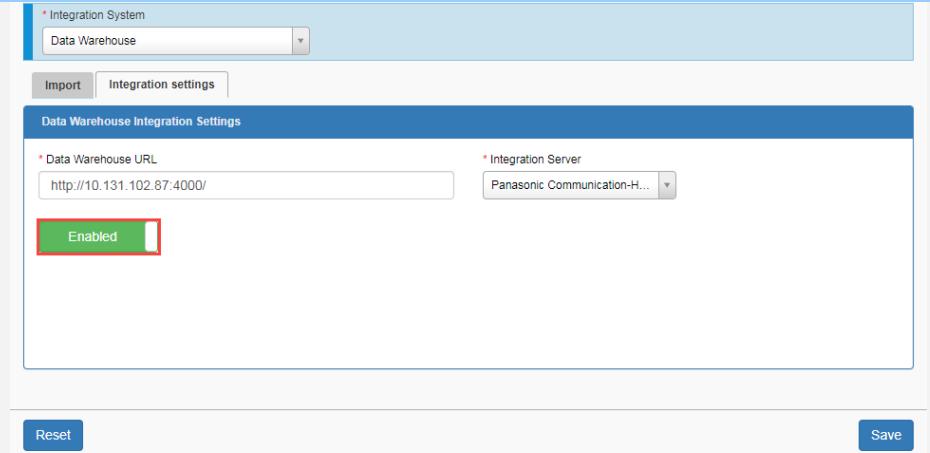
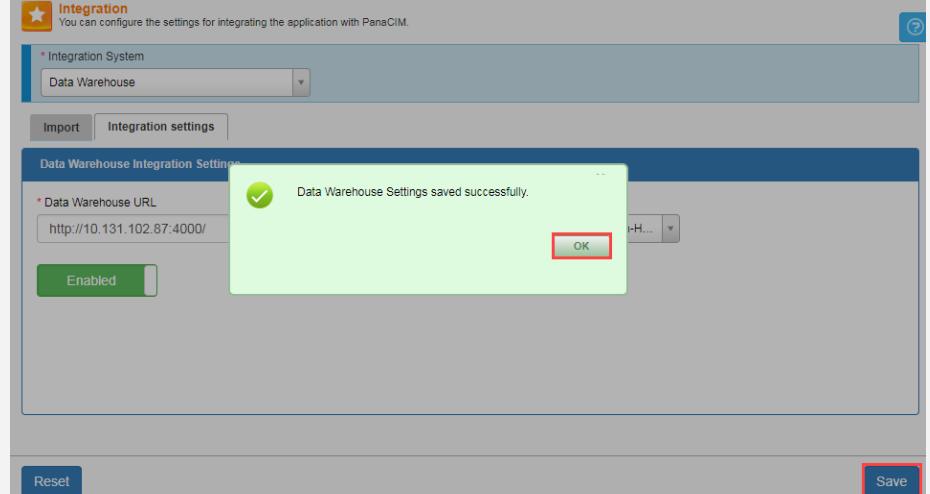
[New](#) [Save](#) [Publish](#)

Step 3: Configure Data Warehouse Service URL in MMS

Step	Description	Screenshot
1	<p>Open the MMS Web application using the below URL:</p> <p><a href="http://<ip_address_of_MMS_machine>/PanasonicMMS">http://<ip_address_of_MMS_machine>/PanasonicMMS</p>	
2	<p>Provide login ID and password and click the Login button.</p>	

3	<p>Click the menu (≡) icon then Settings → Applications.</p>	
4	<p>The Application Settings page appears. Click the Integration tab.</p>	
5	<p>The Integration page appears. Select Data Warehouse from the Integration System dropdown.</p>	

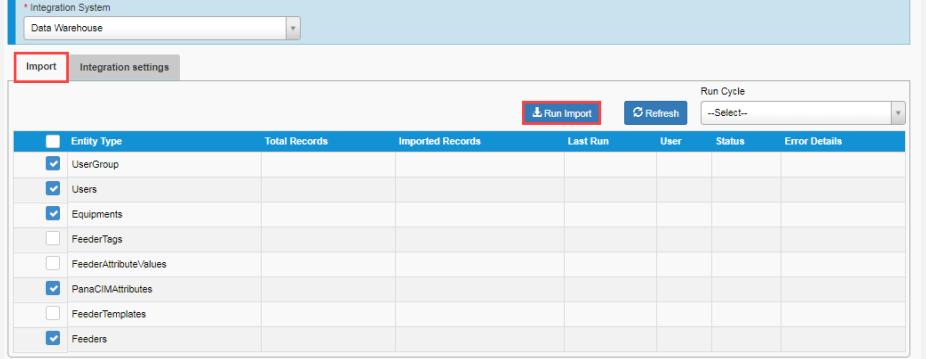
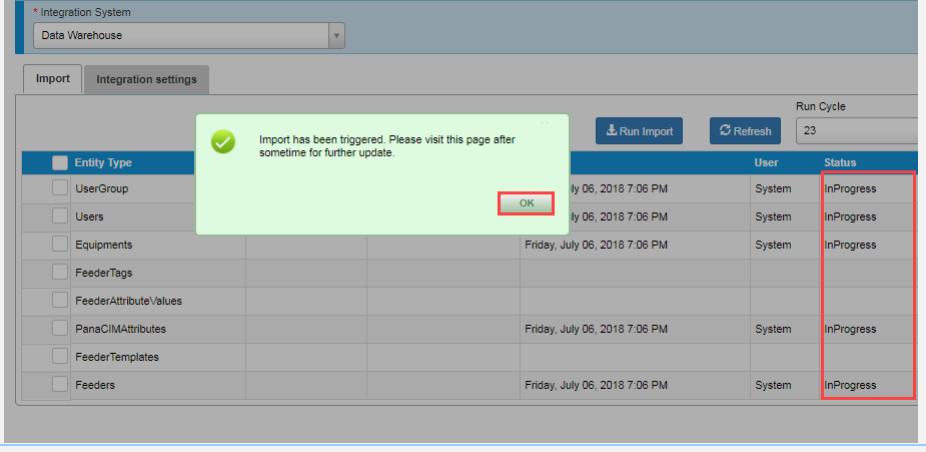
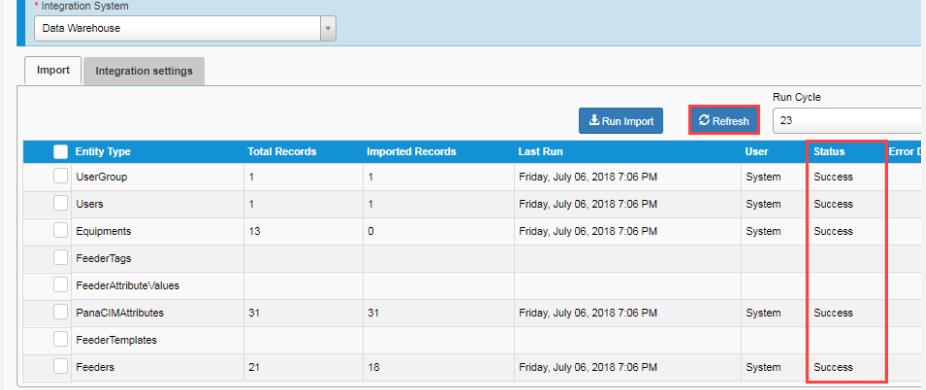
6	Click the Integration Settings tab.	 <p>The screenshot shows the 'Integration System' dropdown set to 'Data Warehouse'. Below it, the 'Integration settings' tab is selected. A table lists various entity types with checkboxes: UserGroup, Users, Equipments, FeederTags, FeederAttributeValues, PanaCIMAttributes, FeederTemplates, and Feeders. Buttons for 'Run Import', 'Refresh', and 'Select-' are at the top right, along with a 'Run Cycle' dropdown.</p>
7	The Integration Settings screen appears.	 <p>The screenshot shows the 'Data Warehouse Integration Settings' section. It includes fields for 'Data Warehouse URL' (Service URL) and 'Integration Server' (dropdown set to 'Select-'). A red button labeled 'Disabled' is present. At the bottom are 'Reset' and 'Save' buttons.</p>
8	Provide data warehouse service URL.	 <p>The screenshot shows the 'Data Warehouse Integration Settings' section. The 'Data Warehouse URL' field contains the value 'http://10.131.102.87:4000/' and is highlighted with a red box. The 'Integration Server' dropdown is still set to 'Select-'. A red button labeled 'Disabled' is present. At the bottom are 'Reset' and 'Save' buttons.</p>

9	<p>Select Panasonic Communication-Hub in the Integration Server dropdown.</p>	
10	<p>Click the Disabled toggle button to enable the integration server.</p>	
11	<p>Click the Save button to save configuration. A confirmation message box appears indicating that the data warehouse settings have been saved successfully. Click OK.</p> <p>Note: The Data Warehouse URL is validated for successful connectivity. If MMS is not able to connect to the configured URL, then an error message pops-up.</p>	

12	Click the Comm. Hub tab.	
13	<p>The Communication Hub settings page appears. Click the Save button. A confirmation message appears indicating that list of configuration rules published successfully. Click OK.</p>	

Step 4: Import Data from Data Warehouse to MMS

Step	Description	Screenshot
1	Click Import tab. The import screen appears.	

2	<p>Select the required entities and click the Run Import button.</p> <p>Note: The following entities are for future enhancement, do not have any impact on data import:</p> <ul style="list-style-type: none"> • Feeder Tags • Feeder Attribute • Values Feeder Templates 																																																							
3	<p>As soon as the Run Import button is clicked, a message box appears that import is triggered and visit the page after some time. Click OK.</p> <p>The status column shows the import status as InProgress.</p>	 <table border="1" data-bbox="595 785 1521 1066"> <thead> <tr> <th>Entity Type</th> <th>Total Records</th> <th>Imported Records</th> <th>Last Run</th> <th>User</th> <th>Status</th> </tr> </thead> <tbody> <tr> <td>UserGroup</td> <td></td> <td></td> <td>Friday, July 06, 2018 7:06 PM</td> <td>System</td> <td>InProgress</td> </tr> <tr> <td>Users</td> <td></td> <td></td> <td>Friday, July 06, 2018 7:06 PM</td> <td>System</td> <td>InProgress</td> </tr> <tr> <td>Equipments</td> <td></td> <td></td> <td>Friday, July 06, 2018 7:06 PM</td> <td>System</td> <td>InProgress</td> </tr> <tr> <td>FeederTags</td> <td></td> <td></td> <td>Friday, July 06, 2018 7:06 PM</td> <td>System</td> <td>InProgress</td> </tr> <tr> <td>FeederAttributeValues</td> <td></td> <td></td> <td>Friday, July 06, 2018 7:06 PM</td> <td>System</td> <td>InProgress</td> </tr> <tr> <td>PanaCIMAAttributes</td> <td></td> <td></td> <td>Friday, July 06, 2018 7:06 PM</td> <td>System</td> <td>InProgress</td> </tr> <tr> <td>FeederTemplates</td> <td></td> <td></td> <td>Friday, July 06, 2018 7:06 PM</td> <td>System</td> <td>InProgress</td> </tr> <tr> <td>Feeders</td> <td></td> <td></td> <td>Friday, July 06, 2018 7:06 PM</td> <td>System</td> <td>InProgress</td> </tr> </tbody> </table>	Entity Type	Total Records	Imported Records	Last Run	User	Status	UserGroup			Friday, July 06, 2018 7:06 PM	System	InProgress	Users			Friday, July 06, 2018 7:06 PM	System	InProgress	Equipments			Friday, July 06, 2018 7:06 PM	System	InProgress	FeederTags			Friday, July 06, 2018 7:06 PM	System	InProgress	FeederAttributeValues			Friday, July 06, 2018 7:06 PM	System	InProgress	PanaCIMAAttributes			Friday, July 06, 2018 7:06 PM	System	InProgress	FeederTemplates			Friday, July 06, 2018 7:06 PM	System	InProgress	Feeders			Friday, July 06, 2018 7:06 PM	System	InProgress
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4	<p>Click the Refresh button after few seconds, once the import is complete, the status column changes to Success.</p>	 <table border="1" data-bbox="595 1156 1521 1508"> <thead> <tr> <th>Entity Type</th> <th>Total Records</th> <th>Imported Records</th> <th>Last Run</th> <th>User</th> <th>Status</th> </tr> </thead> <tbody> <tr> <td>UserGroup</td> <td>1</td> <td>1</td> <td>Friday, July 06, 2018 7:06 PM</td> <td>System</td> <td>Success</td> </tr> <tr> <td>Users</td> <td>1</td> <td>1</td> <td>Friday, July 06, 2018 7:06 PM</td> <td>System</td> <td>Success</td> </tr> <tr> <td>Equipments</td> <td>13</td> <td>0</td> <td>Friday, July 06, 2018 7:06 PM</td> <td>System</td> <td>Success</td> </tr> <tr> <td>FeederTags</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>FeederAttributeValues</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>PanaCIMAAttributes</td> <td>31</td> <td>31</td> <td>Friday, July 06, 2018 7:06 PM</td> <td>System</td> <td>Success</td> </tr> <tr> <td>FeederTemplates</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Feeders</td> <td>21</td> <td>18</td> <td>Friday, July 06, 2018 7:06 PM</td> <td>System</td> <td>Success</td> </tr> </tbody> </table>	Entity Type	Total Records	Imported Records	Last Run	User	Status	UserGroup	1	1	Friday, July 06, 2018 7:06 PM	System	Success	Users	1	1	Friday, July 06, 2018 7:06 PM	System	Success	Equipments	13	0	Friday, July 06, 2018 7:06 PM	System	Success	FeederTags						FeederAttributeValues						PanaCIMAAttributes	31	31	Friday, July 06, 2018 7:06 PM	System	Success	FeederTemplates						Feeders	21	18	Friday, July 06, 2018 7:06 PM	System	Success
Entity Type	Total Records	Imported Records	Last Run	User	Status																																																			
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3 Setting UP Rabbit MQ Cluster

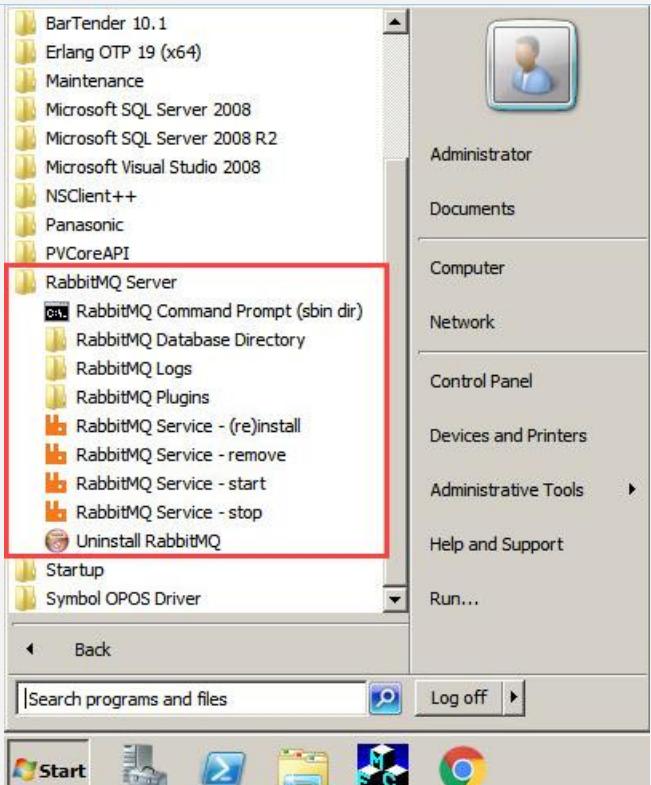
The Rabbit MQ Cluster needs to be setup for real time integration of multiple PanaCIM EE servers with MMS. The Communication Hub application along with RabbitMQ server must be installed on PanaCIM app servers and MMS. In such case, RabbitMQ instances running on PanaCIM app servers and MMS need to be clustered for integration.

Consider that there are two PanaCIM EE servers and one MMS server where Communication Hub/RabbitMQ have been installed. The PanaCIM EE and MMS servers are need to be clustered for real time data integration. These servers are referred as nodes in a RabbitMQ cluster.

To cluster these three nodes, first the RabbitMQ service must be stopped for all three nodes, then the same cookie file must be copied in the **%WinDir%** and **%UserProfile%** directories across all nodes. After copying the cookie file, the RabbitMQ config file must be modified for all nodes. After modifying the config file, start the RabbitMQ service. Now cluster can be formed by joining nodes using the below commands in the RabbitMQ command prompt.

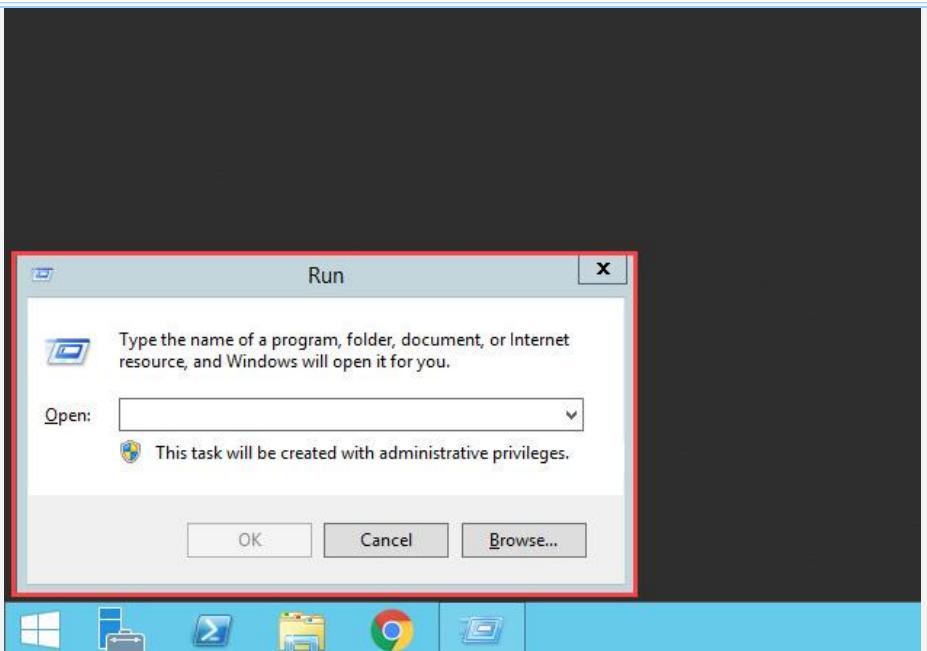
S.No.	Command	Description
1	<code>rabbitmqctl stop_app</code>	Stops the cluster node.
2	<code>rabbitmqctl start_app</code>	Starts the cluster node.
3	<code>rabbitmqctl join_cluster rabbit@<hostname></code>	Join the cluster node to the node where the command is being executed.
4	<code>rabbitmqctl cluster_status</code>	Displays the status of cluster.

The following action table describes the step-by-step process of setting up rabbit MQ cluster.

Step	Description	Screenshot
1	<p>Install Communication Hub/RabbitMQ on PanaCIM EE servers and MMS server.</p> <p>If RabbitMQ installed properly, the Start menu displays the RabbitMQ Server folder as shown to the right.</p>	 <p>The screenshot shows the Windows Start menu interface. On the left is a list of pinned programs: BarTender 10.1, Erlang OTP 19 (x64), Maintenance, Microsoft SQL Server 2008, Microsoft SQL Server 2008 R2, Microsoft Visual Studio 2008, NSClient++, Panasonic, PVCeAPI, and RabbitMQ Server. The RabbitMQ Server folder is highlighted with a red box. To its right is a list of sub-items: RabbitMQ Command Prompt (sbin dir), RabbitMQ Database Directory, RabbitMQ Logs, RabbitMQ Plugins, RabbitMQ Service - (re)install, RabbitMQ Service - remove, RabbitMQ Service - start, RabbitMQ Service - stop, and Uninstall RabbitMQ. Below this is a list of other pinned programs: Startup, Symbol OPOS Driver, and a separator line. At the bottom of the Start menu are the Back button, a search bar containing 'Search programs and files', a Log off button, and a Run... button. The taskbar at the bottom shows icons for Start, File Explorer, Task View, File History, and Google Chrome.</p>

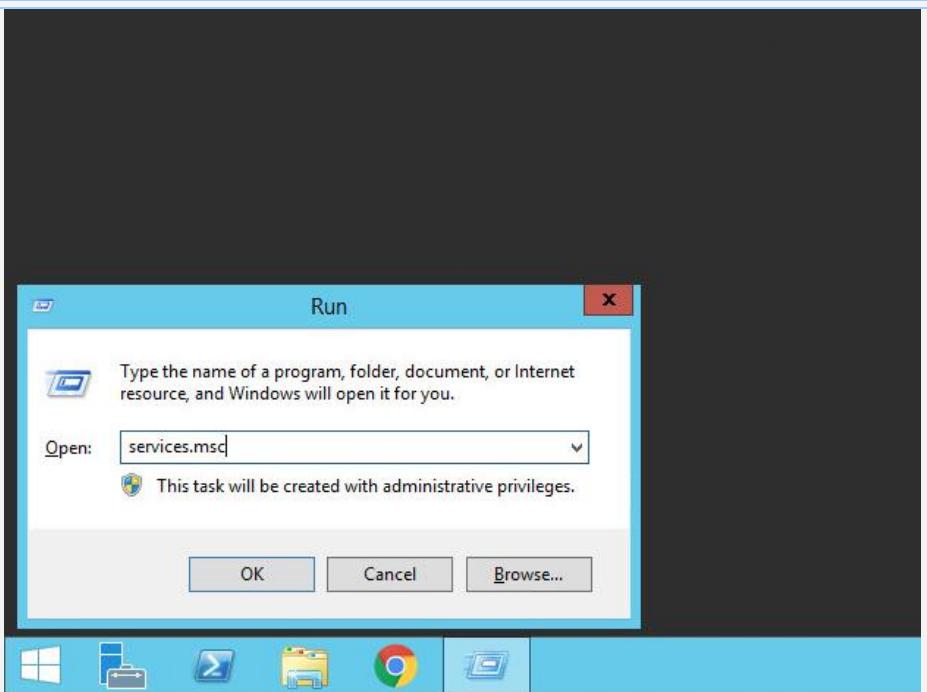
2

Press **Window + R** button to open **Run** dialog box.



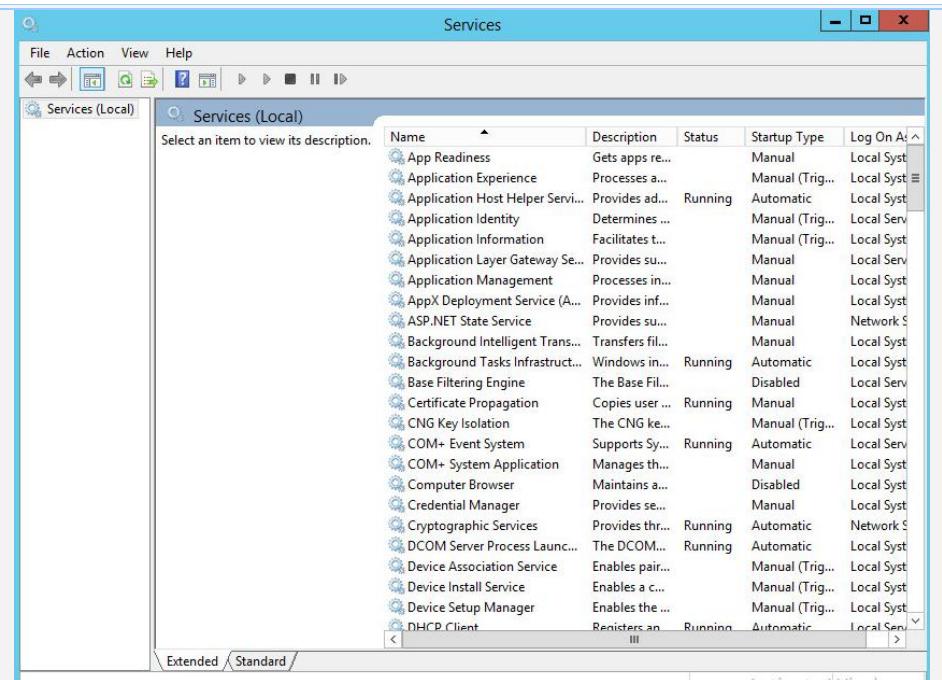
3

Type **services.msc** in the text area and press the **Enter** button.



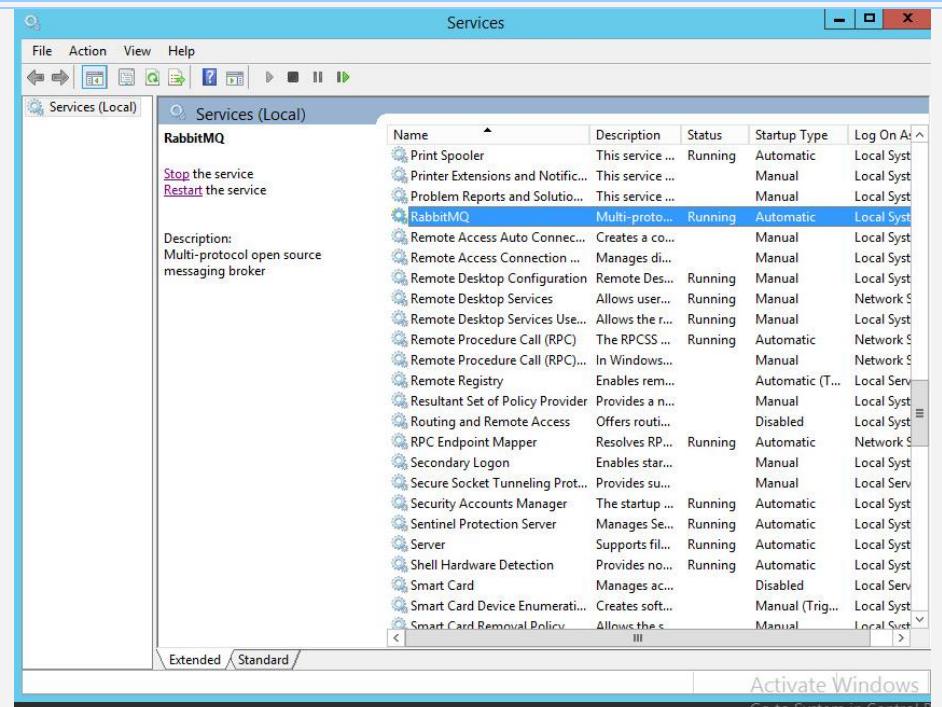
4

The Windows Service Manager (Services) appears as shown to right.



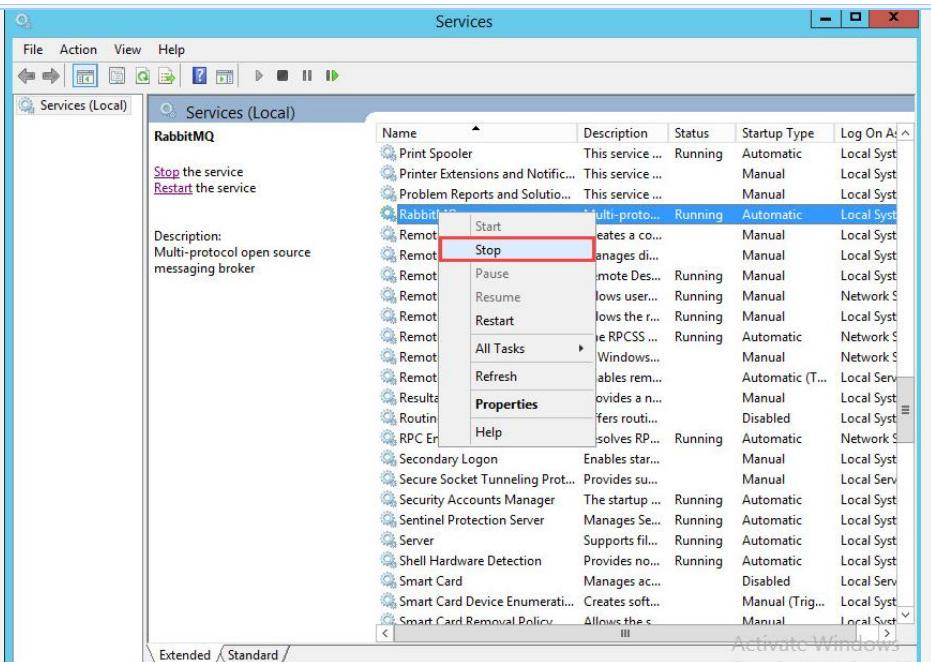
5

Navigate the RabbitMQ service.



6

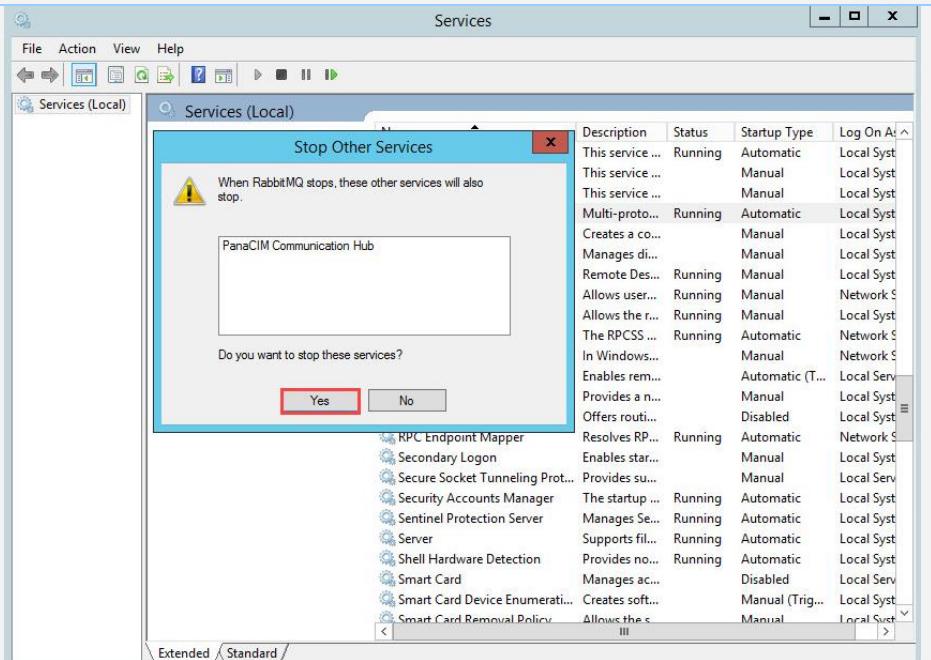
Right click the **RabbitMQ** service and select **Stop** option from context menu.



7

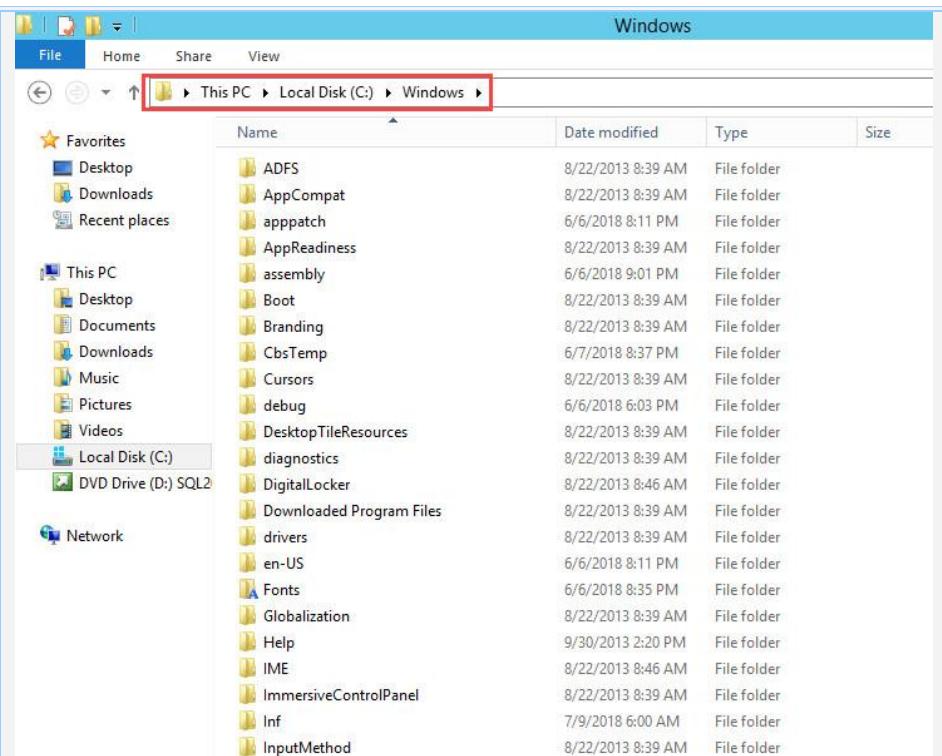
A confirmation message box appears indicating that the Communication Hub service hub will be also stopped. Click the **Yes** button to stop the service.

Similarly stop the RabbitMQ service for all the nodes that need to be clustered. (PanaCIM and MMS servers)



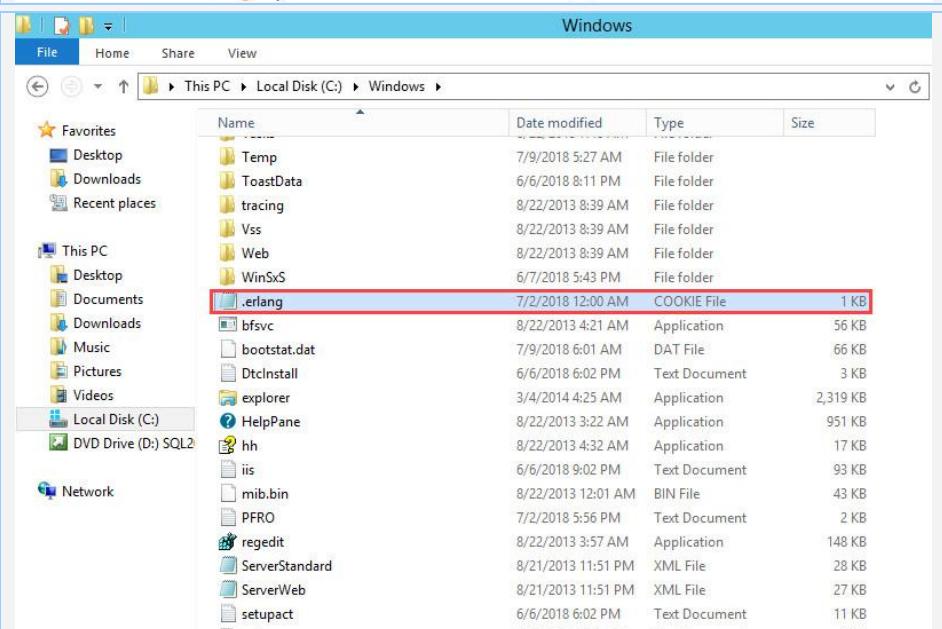
8

Open the C:\Windows directory on a node.



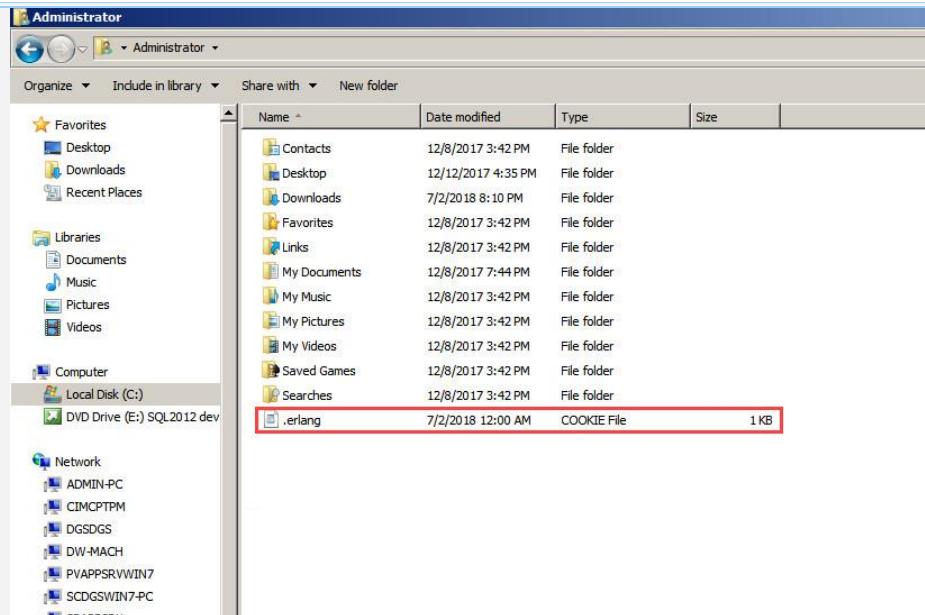
9

Copy the .erlang cookie file from the %windir% (C:\Windows) directory.



10

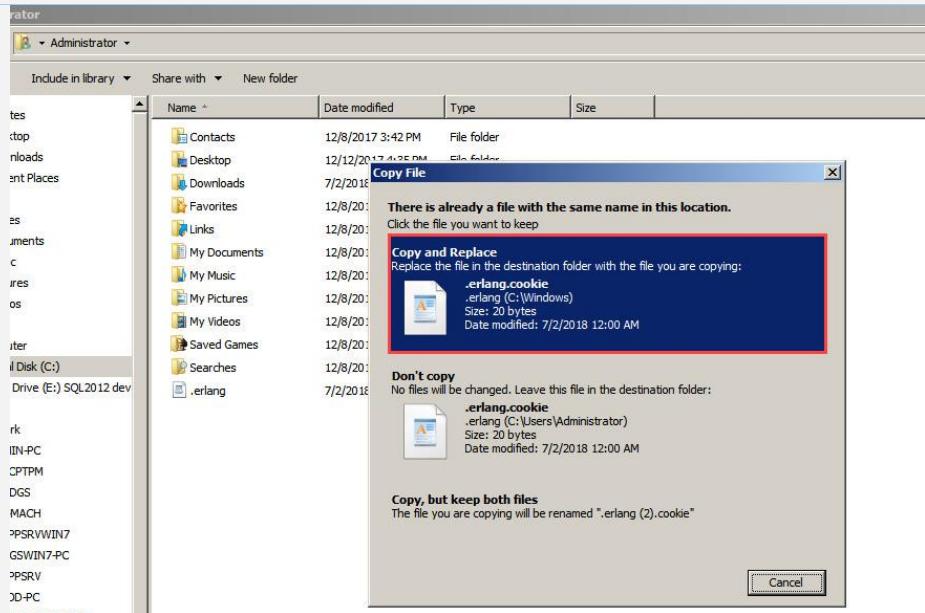
Open the %**userprofile%** (**C:\Users\<username>**) directory. The **.erlang** cookie file is available in this directory. Paste the file copied in the last step in this directory to replace the existing **.erlang** cookie file.



11

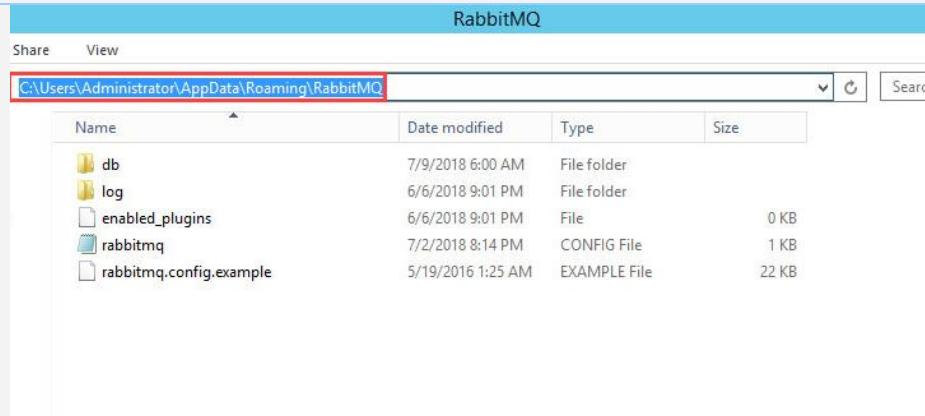
Select the **Copy and Replace** option to replace the existing **.erlang** cookie file. Now the **%windir%** and **%userprofile%** both have the same cookie file.

Copy the same cookie file in the **%windir%** and **%userprofile%** directories across all the nodes.



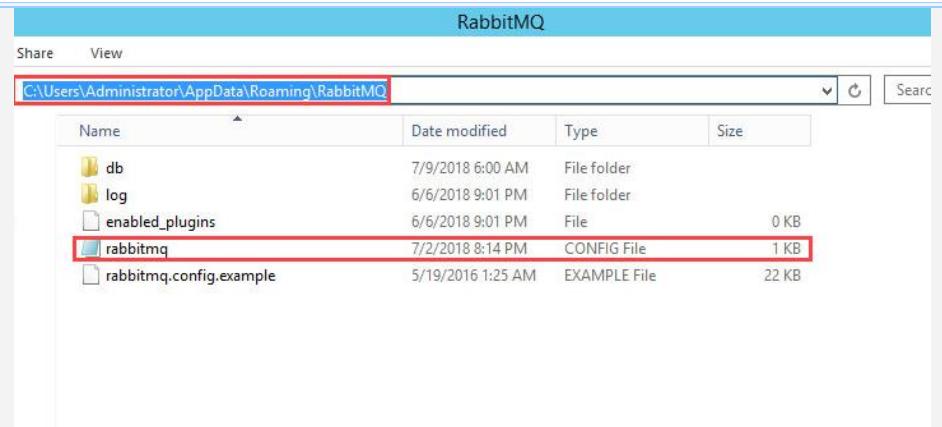
12

Go to the **%UserProfile%\AppData\Roaming\RabbitMQ** directory on a node.



13

Open the **rabbitmq** configuration file.

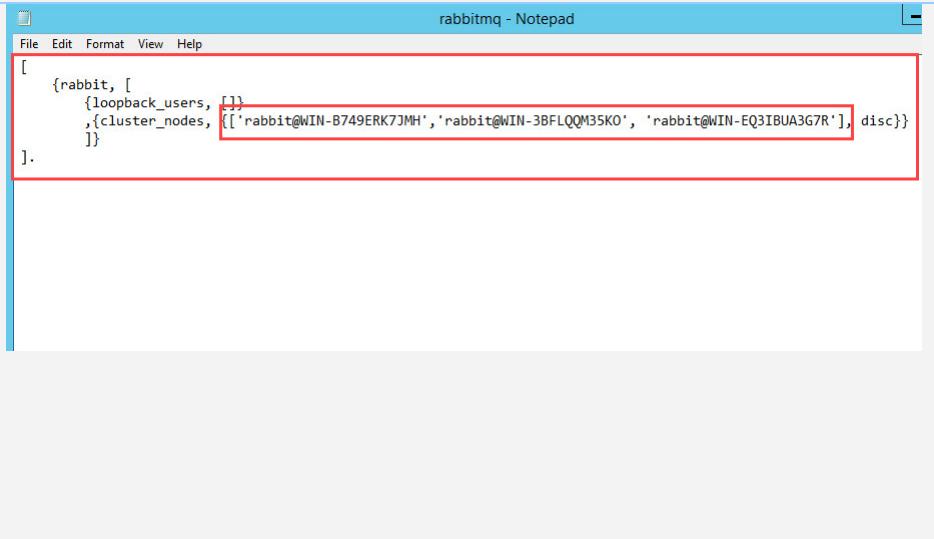


14

Modify the file as shown to the right.

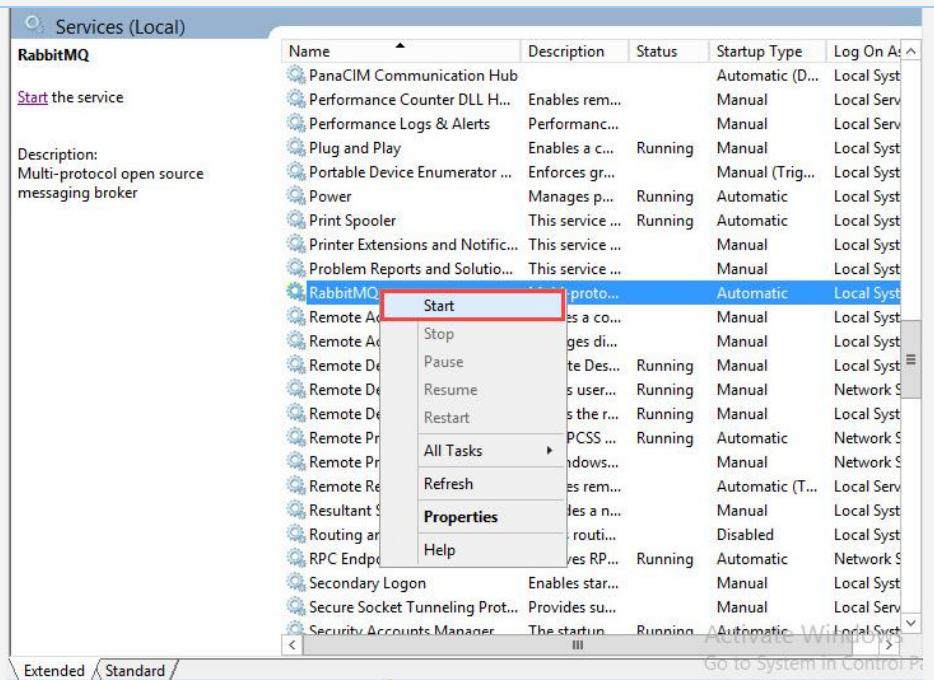
In the modified configuration file shown here, three cluster nodes are added. These nodes are separated by commas. Similarly more nodes can be added by adding **rabbit@<hostname>** in the list separated by commas.

Copy the same configuration file across the all the nodes at the same location.



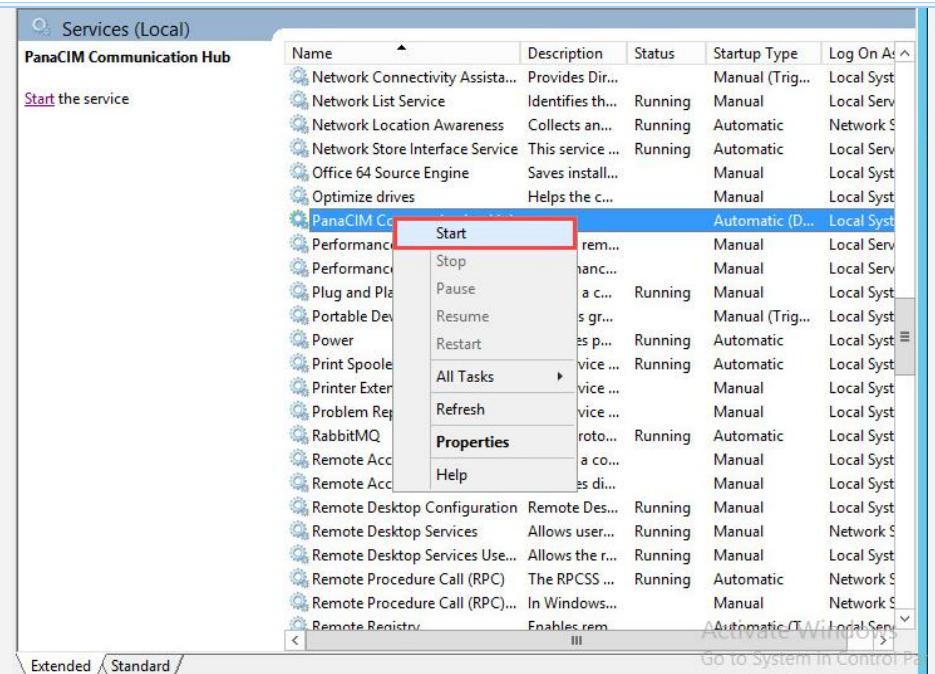
15

Start the **RabbitMQ** service one by one across all the nodes.



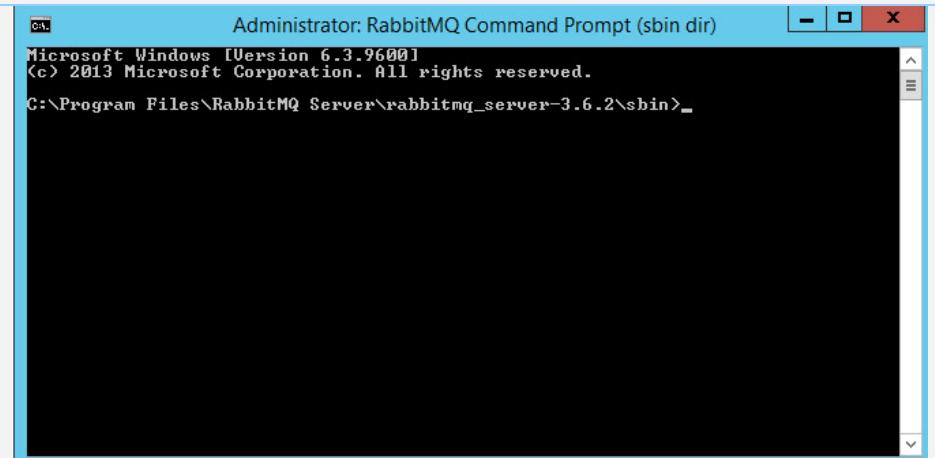
16

Start the **Communication Hub** service one by one across all the nodes.



17

Open RabbitMQ command prompt as administrator on a node.

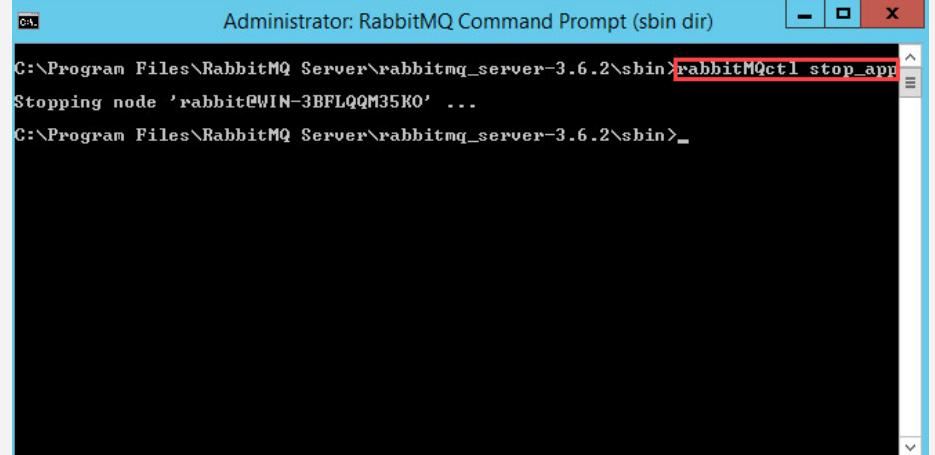


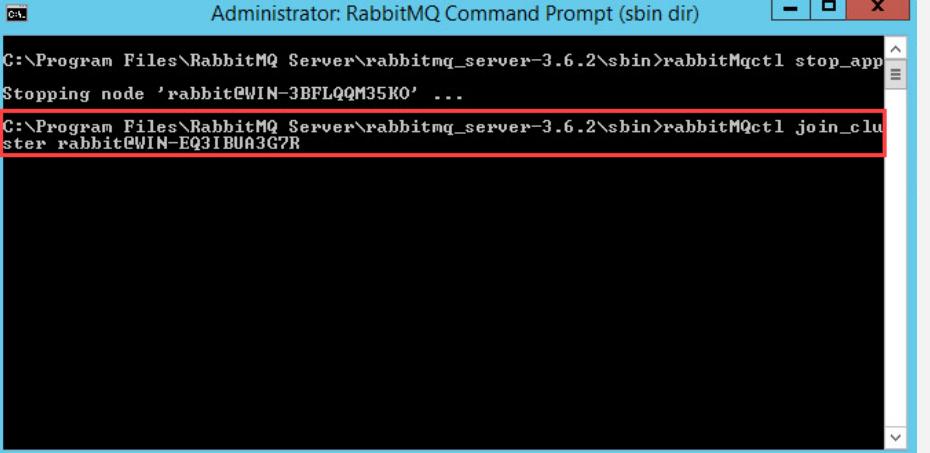
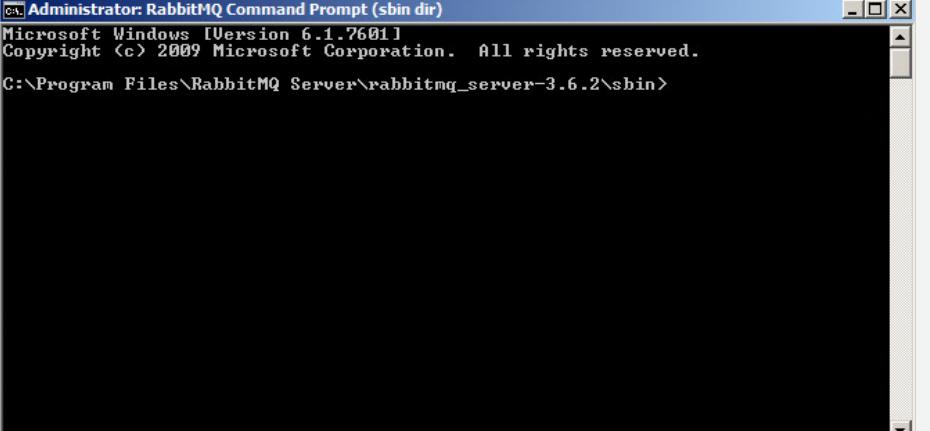
18

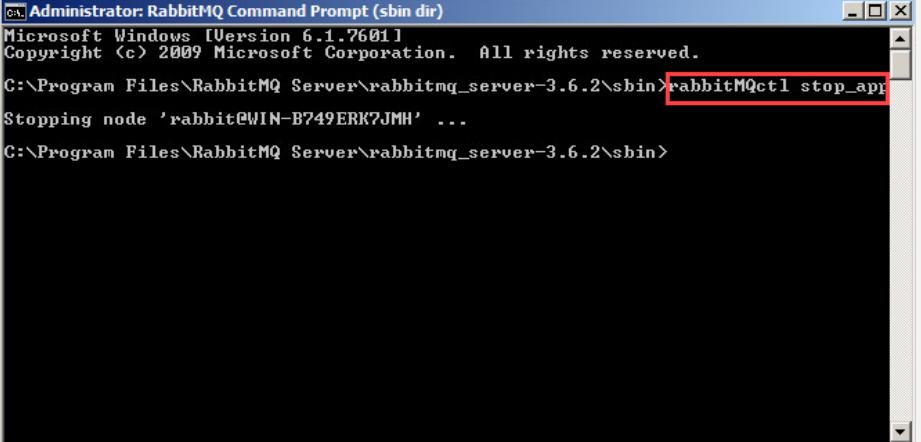
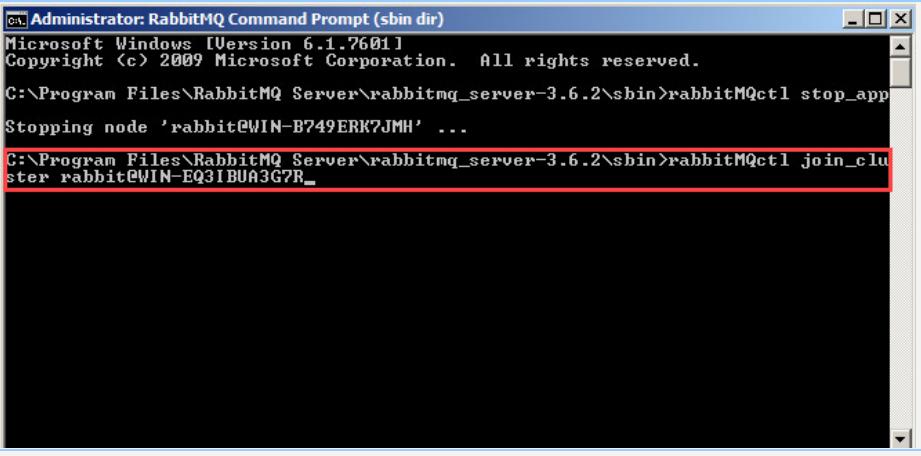
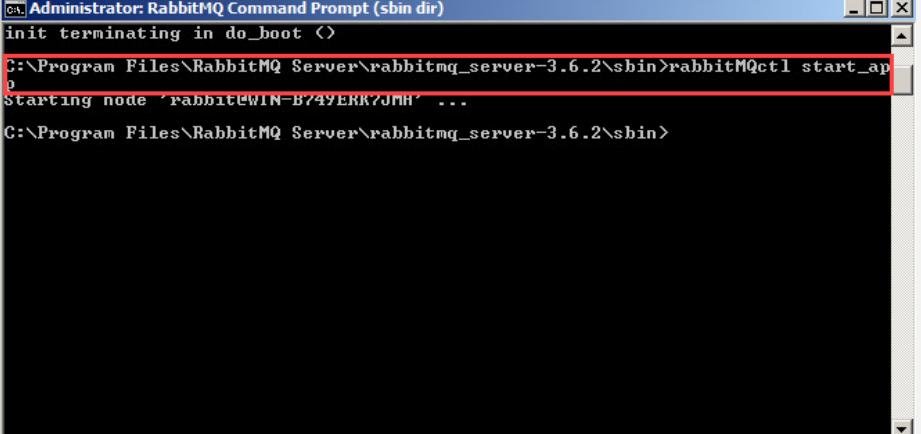
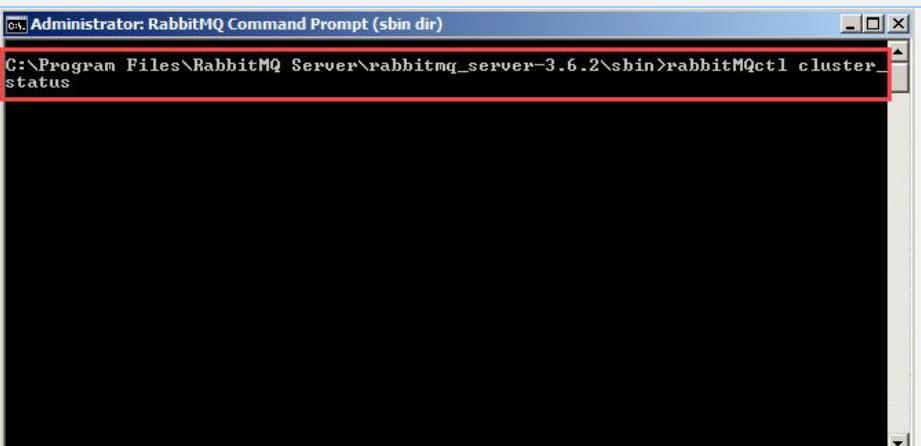
Type the following command and press the **Enter** key to stop the node.

rabbitMQctl stop_app

To cluster a node with another, the node must be stopped using above command.



19	<p>Type the following command and press the Enter key.</p> <p><i>rabbitmqctl join_cluster rabbit@<hostname of node></i></p> <p>Note: The above command will cluster two nodes. The third node can be joined with any of these two nodes.</p>	 <pre>C:\Program Files\RabbitMQ Server\rabbitmq_server-3.6.2\sbin>rabbitmqctl stop_app Stopping node 'rabbit@WIN-3BFLQQM35KO' ... C:\Program Files\RabbitMQ Server\rabbitmq_server-3.6.2\sbin>rabbitmqctl join_cluster rabbit@WIN-EQ3IBUA3G7R</pre>
20	<p>Type the following command and press the Enter key to start the node.</p> <p><i>rabbitmqctl start_app</i></p>	 <pre>C:\Program Files\RabbitMQ Server\rabbitmq_server-3.6.2\sbin>rabbitmqctl start_app Starting node 'rabbit@WIN-3BFLQQM35KO' ... C:\Program Files\RabbitMQ Server\rabbitmq_server-3.6.2\sbin></pre>
21	<p>Go to third machine and open the RabbitMQ command prompt as administrator.</p>	 <pre>C:\Administrator: RabbitMQ Command Prompt (sbin dir) Microsoft Windows [Version 6.1.7601] Copyright <c> 2009 Microsoft Corporation. All rights reserved. C:\Program Files\RabbitMQ Server\rabbitmq_server-3.6.2\sbin></pre>

22	<p>Type the following command and press the Enter key to stop the node.</p> <p><i>rabbitMQctl stop_app</i></p>	 <pre>Administrator: RabbitMQ Command Prompt (sbin dir) Microsoft Windows [Version 6.1.7601] Copyright <c> 2009 Microsoft Corporation. All rights reserved. C:\Program Files\RabbitMQ Server\rabbitmq_server-3.6.2\sbin>rabbitMQctl stop_app</pre>
23	<p>Type the following command and press the Enter key.</p> <p><i>rabbitmqctl join_cluster rabbit@<hostname of node></i></p> <p>Note: The above command will join the third node to the cluster of two nodes.</p>	 <pre>Administrator: RabbitMQ Command Prompt (sbin dir) Microsoft Windows [Version 6.1.7601] Copyright <c> 2009 Microsoft Corporation. All rights reserved. C:\Program Files\RabbitMQ Server\rabbitmq_server-3.6.2\sbin>rabbitMQctl stop_app Stopping node 'rabbit@WIN-B749ERK7JMH' ... C:\Program Files\RabbitMQ Server\rabbitmq_server-3.6.2\sbin>rabbitMQctl join_cluster rabbit@WIN-EQ3IBUA3G7R_</pre>
24	<p>Type the following command and press the Enter key to start the node.</p> <p><i>rabbitMQctl start_app</i></p>	 <pre>Administrator: RabbitMQ Command Prompt (sbin dir) init terminating in do_boot <> C:\Program Files\RabbitMQ Server\rabbitmq_server-3.6.2\sbin>rabbitMQctl start_app Starting node 'rabbit@WIN-B749ERK7JMH' ... C:\Program Files\RabbitMQ Server\rabbitmq_server-3.6.2\sbin></pre>
25	<p>To see the status of cluster, run the following command on any of the clustered nodes.</p> <p><i>rabbitMQctl cluster_status</i></p>	 <pre>Administrator: RabbitMQ Command Prompt (sbin dir) C:\Program Files\RabbitMQ Server\rabbitmq_server-3.6.2\sbin>rabbitMQctl cluster_status</pre>

26

The status of the clustered nodes appear same on any of the clustered node as shown to the right.

```
C:\>Administrator: RabbitMQ Command Prompt (sbin dir)
C:\>Program Files\RabbitMQ Server\rabbitmq_server-3.6.2\sbin>rabbitmqctl cluster_status
Cluster status of node 'rabbit@WIN-B749ERK7JMH'
[{"nodes": [{"disc": "rabbit@WIN-EQ3IBUA3G7R", "name": "WIN-B749ERK7JMH"}, {"disc": "rabbit@WIN-EQ3IBUA3G7R", "name": "WIN-EQ3IBUA3G7R"}], "running_nodes": [{"name": "WIN-B749ERK7JMH"}, {"name": "WIN-EQ3IBUA3G7R"}], "cluster_name": "<'rabbit@WIN-B749ERK7JMH'>", "partitions": [{"name": "WIN-B749ERK7JMH"}, {"name": "WIN-EQ3IBUA3G7R"}], "alarms": [{"node": "WIN-B749ERK7JMH", "alarms": [{"name": "WIN-B749ERK7JMH"}]}, {"node": "WIN-EQ3IBUA3G7R", "alarms": [{"name": "WIN-EQ3IBUA3G7R"}]}]}

C:\>Program Files\RabbitMQ Server\rabbitmq_server-3.6.2\sbin>
```

4 Troubleshooting Tips

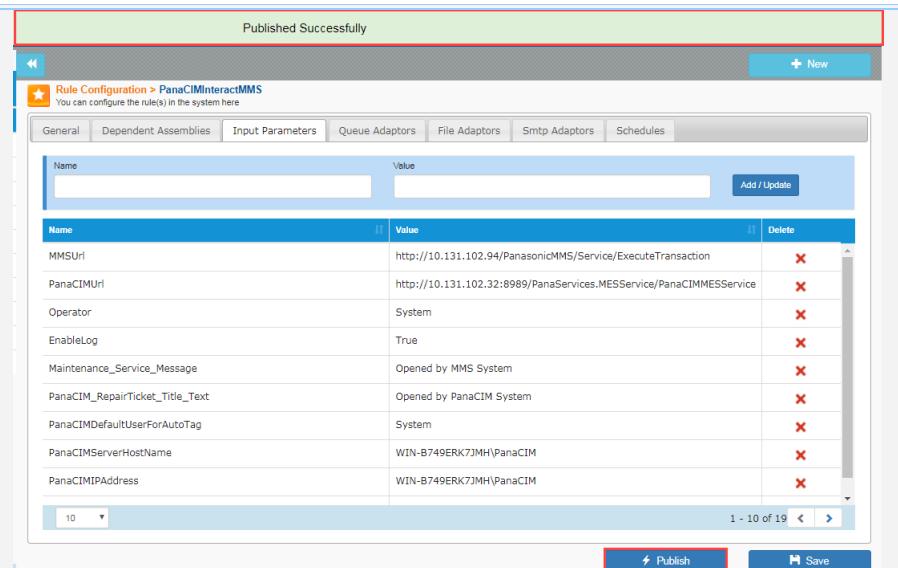
The following table lists some useful troubleshooting tips for PanaCIM EE – MMS integration.

S.No.	Description	Screenshot
1	Ensure that the host file on all the machines have hostname and IP address entries for PanaCIM EE servers / Data Warehouse / MMS.	<pre>hosts - Notepad File Edit Format View Help # be placed in the first column followed by the corresponding host name. # The IP address and the host name should be separated by at least one # space. # # Additionally, comments (such as these) may be inserted on individual # lines or following the machine name denoted by a '#' symbol. # # For example: # # 102.54.94.97 rhino.acme.com # source server # 38.25.63.10 x.acme.com # x client host # localhost name resolution is handled within DNS itself. # 127.0.0.1 localhost # ::1 localhost 10.131.102.87 DW-Mach 10.131.102.82 WIN-EQ3IBUA3G7R 10.131.102.32 WIN-B749ERK7JMH 10.131.102.94 WIN-3BFLQQM35KO</pre>

2	<p>Ensure that the EDP service option must be selected while installing the Communication Hub application.</p>	
3	<p>Ensure that the Communication Hub application has PanaCIM EE, Data Warehouse, and MMS service URLs updated for all rules that need to be configured.</p>	

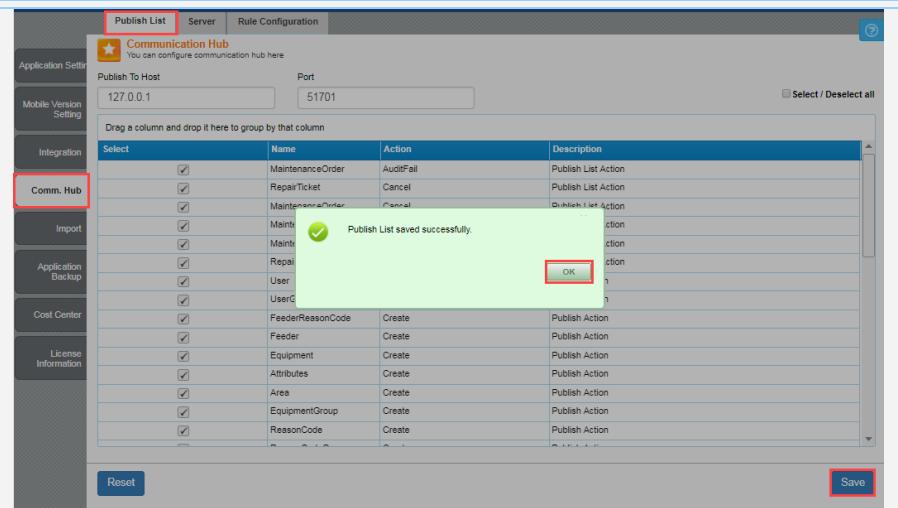
4

A rule must be published after modification in Communication Hub.



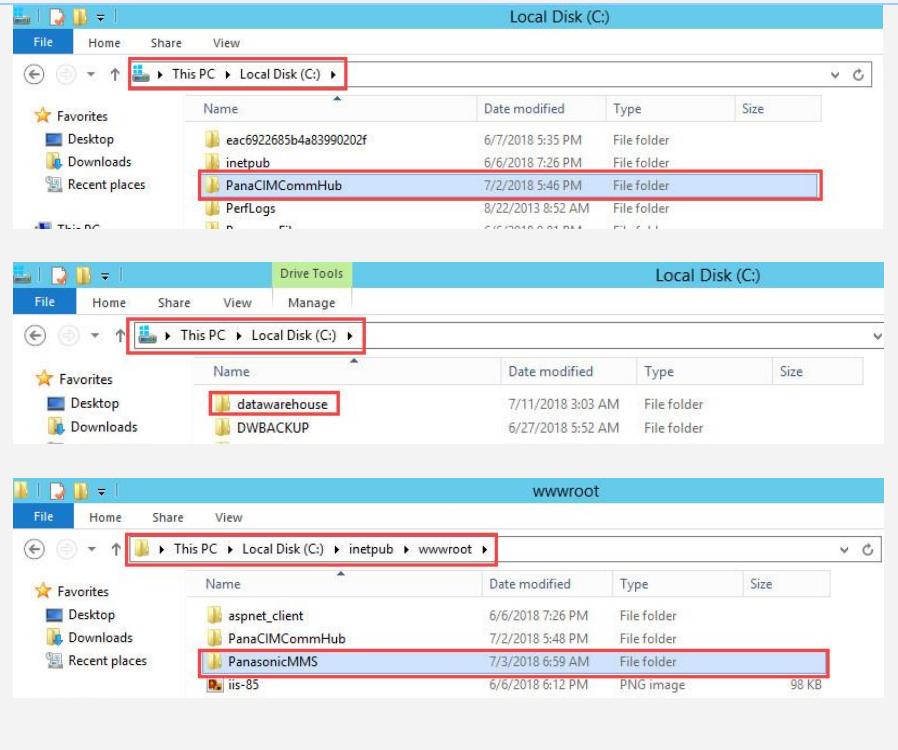
5

After modifying and publishing a rule in Communication Hub or integrating Data Warehouse/PanaCIM EE, save the rules' **Publish List** in MMS.



6

Ensure that Communication Hub / Data Warehouse / MMS application folders accessible by each other host machines.



7

Ensure that the Base Filtering and Windows Firewall services are stopped/disabled for PanaCIM EE / Data Warehouse / MMS.

Name	Description	Status	Startup Type	Log On As
Background Tasks Infrastructure Service	Windows in...	Running	Automatic	Local Syste...
Base Filtering Engine	The Base Fil...	Disabled	Local Service	
Certificate Propagation	Copies user ...	Running	Manual	Local Syste...
CNG Key Isolation	The CNG ke...	Manual (Trig...	Local Syste...	
COM+ Event System	Supports Sy...	Running	Automatic	Local Service
COM+ System Application	Manages th...	Manual	Local Syste...	
Computer Browser	Maintains a...	Disabled	Local Syste...	
Credential Manager	Provides se...	Manual	Local Syste...	
Cryptographic Services	Provides thr...	Running	Automatic	Network S...
Windows Error Reporting Service	Allows error...	Manual (Trig...	Local Syste...	
Windows Event Collector	This service ...	Manual	Network S...	
Windows Event Log	This service ...	Running	Automatic	Local Service
Windows Firewall	Windows Fi...	Disabled	Local Service	
Windows Font Cache Service	Optimizes p...	Running	Automatic	Local Service
Windows Installer	Adds, modi...	Manual	Local Syste...	
Windows Management Instrumentation	Provides a c...	Running	Automatic	Local Syste...
Windows Modules Installer	Enables inst...	Manual	Local Syste...	
Windows Presentation Foundation Font Cache 3.0.0.0	Optimizes p...	Manual	Local Service	
Windows Process Activation Service	The Windo...	Running	Manual	Local Syste...
Windows Remote Management (WS-Management)	Windows R...	Running	Automatic	Network S...
Windows Store Service (WSService)	Provides inf...	Manual (Trig...	Local Syste...	

8

Ensure that the Factory_OLTP_SYSTEM file has the valid entries for the integrated PanaCIM EE servers. The file is available in the C:\datawarehouse\SourceFile folder.

Share View			
This PC > Local Disk (C:) > datawarehouse > SourceFile			
Name	Date modified	Type	Size
Factory_OLTP_SYSTEM	7/9/2018 3:14 AM	CSV File	1 KB
FactoryDbConnFile	12/6/2017 8:01 AM	Text Document	1 KB
Schema	6/27/2018 6:25 AM	Configuration sett...	1 KB
SendMail	6/27/2018 6:06 AM	CSV File	1 KB
Factory_OLTP_SYSTEM - Notepad			
File Edit Format View Help			
DBCONNECTION_OLTP_LOGIN;DBCONNECTION_OLTP_PASSWORD;DBCONNECTION_OLTP_SERVER;DBCONNECTION_OLTP_P postgres;panasonic;localhost;5432;datawarehouse;public;7;1000;c:/datawarehouse/csv;c:/dataware cim;cim;WIN-B749ERK7JMH;6815;PanaCIM;50;3000;c:/datawarehouse/csv;c:/datawarehouse/bin;c:/data cim;cim;WIN-EQ3IBUA367R;6815;PanaCIM;51;3000;c:/datawarehouse/csv;c:/datawarehouse/bin;c:/data			

9

Ensure that the integrate_mms is set to 'T' and mms_base_address is updated in the System_Config table of the PanaCIM Database.

	ATTRIBUTE_NAME	ATTRIBUTE_VALUE
205	use_material_mark...	F
206	Inb_scanner_parts...	F
207	integrate_mms	T
208	mms_base_address	http://10.131.102.94/PanasonicMMS
209	mr_validate_part_no	F
210	psne_optimization_...	300
211	psne_optimization_j...	10800
212	psne_travel_order_...	10
213	psne_pe_work_pri...	600
214	psne_tray_travel_o...	F
215	inline_shelf_manag...	F