# SIEMENS



Powermanager Migration Export Tool

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### Information Security

#### Notice!

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# 1 Online Support

Click the following link for technical support: http://www.siemens.com/lowvoltage/technical-support

Click the following link for the list of all FAQs, Hot fixes, and Service Packs: <u>www.siemens.com/Powermanager/support</u>

For additional information to work with Powermanager, refer to the Powermanager manual/Help.

# 1.1 Security Information

Siemens provides products and solutions with industrial security functions that support the secure operation of plants, systems, machines, and networks.

In order to protect plants, systems, machines, and networks against cyber threats, it is necessary to implement – and continuously maintain – a holistic, state-of-the-art industrial security concept. Siemens' products and solutions constitute one element of such a concept.

Customers are responsible for preventing unauthorized access to their plants, systems, machines, and networks. Such systems, machines and components should only be connected to an enterprise network or the internet if and to the extent such a connection is necessary and only when appropriate security measures (e.g., firewalls and/or network segmentation) are in place.

For additional information on industrial security measures that may be implemented, please visit <u>https://www.siemens.com/industrialsecurity</u>.

Siemens' products and solutions undergo continuous development to make them more secure. Siemens strongly recommends that product updates are applied as soon as they are available and that the latest product versions are used. Use of product versions that are no longer supported, and failure to apply the latest updates may increase customer's exposure to cyber threats.

To stay informed about product updates, subscribe to the Siemens Industrial Security RSS Feed under <u>https://www.siemens.com/cert</u>.

# 2 Overview

Powermanager allows you to migrate projects of powermanager V3.6 HF1 to powermanager V5.1 or higher.

This process includes migration of configurations and data of the projects. Configurations of the project including all device, report, and system settings and system trends are part of the migration operation. Archived data over required period for selected devices is also a part of this operation.

**NOTE**: For the ease of reference, all powermanager versions above V5.1 will be referred as *new powermanager*.

You can perform this operation by using the migration tool. The migration operation consists of two key workflows:

- Export from powermanager V3.6 HF1: Allows you to select the configurations and the data to be migrated from powermanager V3.6 HF1 to new powermanager.
   <u>NOTE</u>: You should have powermanager V3.6 HF1 to perform the export. Upgrade to powermanager V3.6 HF1, if you are using an older version of powermanager.
- Import to new powermanager: Allows you to import the exported files from powermanager V3.6 HF1 to new powermanager.
   <u>NOTE</u>: You should have new powermanager to perform the import. Upgrade to new powermanager if you are using an older version of powermanager.

### Migration Rundown:

To save time, we recommend you perform the procedures involved in migration workflow in the following sequence:

- 1. Configuration Export
- 2. Configuration Import
- 3. Data Export
- 4. Data Import

new powermanager and powermanager V3.6 HF1 must be available in two different machines to perform the procedures in the recommended sequence. Refer section **Hardware Category Definitions in System\_Description\_pm\_7.0** document for hardware requirements. Ensure that the machines involved in the migration process are in the same time zone.

**<u>NOTE</u>**: To transfer the exported folders from one machine to another, you are recommended to have USB stick or USB Hard disk.

Below are few important details to be noted before continuing with the migration operation:

• Only server projects can be migrated. If you have an existing client setup, you must setup the client afresh in new powermanager.

- Custom panels are not included in this migration operation. Refer new powermanager Help for more information on working with Graphics Editor to create similar templates.
- The device types that are not supported in new powermanager but supported in powermanager V3.6 HF1 must be imported as Third-party device types in new powermanager. Refer **Prerequisites for Import** section below for more information.
- Device and Area/System level device type configuration are not migrated for Third-party device types, Classic device types (PAC1500, 3VL COM21, GMD), SEM3 and PAC1200. However, Archival configuration for the devices will be migrated in case the measurement point is selected for data migration and data is available.
- The migration of the distributed system must be done for each project separately.
   If the distributed project has source elements from another distributed project, then those source elements will not be migrated and has to be re-configured in new powermanager system after migration.

Device	Migration Supported	Comments
PAC Devices	<ul> <li>✓</li> </ul>	PAC1500 is migrated as a third-party device type. Refer <b>Prerequisites for Import</b> section for more information.
SEM3	✓ ✓	-
SICAM Devices	×	P850 and P855 will be migrated as PAC5100 and PAC5200 respectively.
Breakers	×	3VLCOM21 is migrated as a third-party device type. Refer <b>Prerequisites for Import</b> section for more information.
Generic Modbus Device	✓	This device type is migrated as a third-party device type. Refer <b>Prerequisites for Import</b> section for more information.
Manual Measuring Device	×	-
Virtual Devices (Logical Devices)	×	<ul> <li>Virtual devices include:         <ul> <li>Average Value</li> <li>Calculation Value</li> <li>Virtual Counter</li> <li>Converter</li> </ul> </li> <li>KPI is migrated as a virtual device type.</li> <li>Virtual devices are not listed for data export. All the result values are selected for export.</li> </ul>

Migration of devices is handled as below:

Monitoring Functions	×	Monitoring functions include Limit Control and Load Monitoring.
Third-party Devices (XML imported Third-party Device types)	✓	-

- The descriptions of Areas and Sectors are not migrated from powermanager V3.6 HF1 to new powermanager.
- System and Area level configurations of PAC5100 and PAC5200 device types are considered for P850 and P855 device type respectively in new powermanager.
- OPC UA/DA and MindSphere configurations are not migrated to new powermanager.
- Manually corrected values are migrated.
- Alarm configuration of 3VLCOM21, PAC1500, GMD and third-party device types (xml imported device types) will not be migrated. If necessary, reconfigure the alarms after migration.

# 3 Export from powermanager V3.6 HF1

This section provides information on the export operation required for migration.

Pre-export Checklist:

- Ensure you have sufficient disk space available for the export operation.
- Archive backups of powermanager V3.6 HF1 should be re-mounted if needed for data export.
- Ensure you take project and data backup before migration.

### 3.1 Prerequisites for Export

Login to powermanager V3.6 HF1 and verify all the required configurations and data of the project to be migrated are available. Perform the following steps to run the Powermanager Migration Export Tool.

• Download and unzip the file containing the Migration Tool from the SIOS portal.

		Name 🔓 ^	Date modified	Туре	Size	
Quick access		dplist	3/30/2021 6:19 PM	File folder		
a Desktop	*	msg	3/30/2021 6:19 PM	File folder		
🐞 Downloads	1	panels	3/30/2021 6:19 PM	File folder		
Documents	*	scripts	3/30/2021 6:19 PM	File folder		
Se Pictures	*	pmMigration	3/25/2021 11:00 AM	Windows Batch File		2 KB
Archive						
dplist						
Local Disk (C:)						
Migration Con	figur					
ConeDrive	9892-0					
This PC						

• Run the *pmMigration* batch file as administrator.

- You will be prompted to enter the project path.



- Select the path of the project you want to migrate. The path can be like the below example: C:\SENTRON\ProjectName
- Enter the project path and press Enter.



• Stop the project and close all powermanager applications and consoles to proceed with migration.

C:\Windows\System32\cmd.exe	-		2
nter the path of the powermanager V3.6 HF1 project ->C:\SENTRON\DEMO_MIGRATION_PM3X			
:\Migration Tool\Project_Export_Tool\\dplist\pmMigration.dpl			
File(s) copied			
<pre>:\Migration Tool\Project_Export_Tool\\msg\de_AT.iso88591\pmMigration.cat</pre>			
\Migration Tool\Project_Export_Tool\\msg\en_US.iso88591\pmMigration.cat			
File(s) copied			
<pre>\Migration Tool\Project_Export_Tool\\scripts\libs\pm_Migration.ctl</pre>			
File(s) copied			
: Migration Tool Project Export_Tool \panels vision \pm\Migration \pm_Migration.pnl			
:\Migration Tool\Project_Export_Tool\panels\vision\pm\Migration\pm_Migration_Configuration.pnl			
:\Migration Tool\Project_Export_Tool\\panels\vision\pm\Migration\pm_Migration_Configuration_Device.pnl :\Migration Tool\Project_Export_Tool\\panels\vision\pm\Migration\pm_Migration_Configuration_Export.pnl			
<pre>tymigration rooiv=roject_export_rooivyaneisyvisionym=nigrationym=nigration_configuration_export.pni :Wigration rooiv=roject_export_rooivyaneisyvisionym=Wigration_momigration_configuration_export.pni :Wigration rooiv=roject_export_rooivyaneisyvisionym=Wigrationym=Migration_configuration_momigration_configuration</pre>			
·Μεμαιίοπ του νησιμεί εχροτισιού γραπείς γιείοπ γρηγημηταίες στοπγρηγημηταίοη configuration_niscerianeous : Μεματίοπ του νησιμείος εχροτισοί γραπείς γιείοπ γρηγημηταίος του βηματίος Configuration Report.pnl	-bur		
<pre>\mtgration foil/roject_cxport_foil/panets/vision/pm/mtgration/pm/mtgration_configuration_report.pni :Migration Tool/Project_Export_foil/vpanets/vision/pm/Migration/pm/mtgration_Data.pni</pre>			
Wigration Tool/Project_Export_Tool/varies/vision/pm/Migration/pm_migration_Data_Duration.pnl			
Migration Tool \Project_Export Tool \panels \vision \pm Migration \pm Migration Late Export.pnl			
Migration Tool\Project Export Tool\Panels\vision\pm\Migration\pm Migration Data MeasurementPoint.pnl			
Migration Tool/Project Export Tool/panels/vision/pm/Migration/pm Migration Login.pnl			
Migration Tool/Project Export Tool/panels/vision/pm/Migration/pm Migration MessageWarning Expanded.pnl			
2 File(s) copied			
ne language for Migration interface is configured as English, based on the operating system.			
new user interface for migration - User Interface No 10 is added in the project.			
efore using the Migration interface, please stop the powermanager project and close the powermanager cons	-1-	Then	
the project again.	ore.	men	24
the project again.			
ress any key to continue			

**NOTE**: The Powermanager Migration Export tool is available in English and German languages. The language will be selected by the tool depending on the available operating system. The language is set to English for all operating systems other than German. • Restart the project to be migrated.

- The Powermanager Migration Export tool login screen appears. The Powermanager Migration Export tool is added as a new User Interface (number 10) in the powermanager Console.

] 🔍 🗶 🛛 🕅 📠	🚽 🚽 🔍	2 9
Project		
DEMO_MIGRATION_PM3	x 🔹 🖪 🛢	pm
Manager - (Process Mon	itor: Starting project)	
St Description	No Options	0
Archive Manager	3 -num 3	100
B Archive Manager	4 -num 4	0
0 Archive Manager	5 -num 5	ALC: NO
8 Archive Manager	6 -num 6	0
0 Archive Manager	7 -num 7	-
Archive Manager	8 -num 8	3
B Archive Manager	9 -num 9	1.00
0 Event Manager	1 -dbg 18	19
0 Control Manager	1 -f pvss_scripts.	1.1.1.1
B Modbus Driver	1 -num 1	24
6 Modbus Driver	2 -num 2	1000
Control Manager	2 -num 2 -f pm_s	10
0 User Interface	1 -num 1 -p visioi	
0 User Interface	2 -num 2 -p vision	14
0 Control Manager	3 -num 3 EC_En	1000
Control Manager	4 -num 4 -f pm_a	4
0 Control Manager	1 -extend -LoadA	100
0 OPC DA Server	2 -num 2	12
0 OPC UA Server	1 -num 1	10.40
Distribution Manager	1	V
0 User Interface	3 -m gedi -user ri	~
User Interface	10 -num 10 -p visi 🌱	
<	>	

• Enter the **Username** and **Password** used to login to powermanager V3.6 HF1 project to login to the migration tool.

Power	nanager Migr	ation
Domain name: User name: Password:	DESKTOP-09	HIBNL
	Confirm	Cancel

**NOTE**: You must be a powermanager V3.6 HF1 Admin user to login to the Powermanager Migration Export tool.

### The Powermanager Migration Export tool is now available.

on Export	Data Export					
			Devices Report Templates	Miscellaneous Exp	) port	
es Report	Templates Miscella	ineous Export				
Languages						
Language 1	English	Language 2 * G	erman 🗸			
Devices						
Select	Device name	Device type	Device Group	Area	Sector	^
	GMD	MB	Standard Devices	DefaultArea		
	p850_P2	P850	Standard Devices	DefaultArea		
	PAC1200_project		Standard Devices	PACdevices		
	PAC1500_P2	PAC1500	Standard Devices	PACdevices		
	PAC1661_P2	PAC1651	Standard Devices	PACdevices		
	pac1651_p2	PAC1651	Standard Devices	DefaultArea		
	PAC1661_P2_1	PAC1661	Standard Devices	DefaultArea		
	PAC1662_P2	PAC1661	Standard Devices	PACdevices		
	PAC1665_P2_1	PAC1665	Standard Devices	DefaultArea		-
	PAC1682_P2_1	PAC1682	Standard Devices	DefaultArea		-
Ø	PAC2200_P2 PAC3200_P2	PAC2200 PAC3200	Standard Devices Standard Devices	PACdevices		-
	PAC3200_P2 PAC4200 P2	PAC3200 PAC4200	Standard Devices	Area_Level_PAC System Level		-
	SEM3 P2	SEM3 SEM3	Standard Devices	PACdevices		- 1
	Manual measure		ingDevice Standard Devices	DefaultArea		_
Notes:	2. Generic Moo	suring Device, Load Monitoring, and L Ibus Device, 3VLCOM21, and PAC150			v powermanager after migration.	
Third Party	y Device XMLs					
	Device Type	Number of Devices for the device				
	er_EMMOD_201	0		Browse	C:/TPD/CamilleBauer_EMMOD_201_v1.0.1/CamilleBauer_EMMOD_2	01
PAC3200TF		1	,	Browse	C:/TPD/PAC3200TPD/PAC3200TPD.xml	
SICAM_Q1	00	1	1E	Browse	C:/TPD/SICAM_Q100_v1.0.0/SICAM_Q100.xml	

### 3.2 Configuration Export

Ensure that all the prerequisites mentioned in the **Prerequisites for Export** section are met. Perform the following steps for Configuration Export.

**NOTE**: We recommend you stop all device communication before proceeding with the export operation.

Devices Tab

• Select the required description language from the Languages section.



Languages: Allows you to select the description language. This section has the following options:Language 1: Displays the default language assigned for all descriptions. This field cannot be changed.

Language 2\*: Allows you to select the description languages from the available list of supported languages. This is a mandatory field.

• By default, all supported devices from the **Devices** section will be selected.

elect	Device name	Device type	Device Group	Area	Sector	
	GMD	MB	Standard Devices	DefaultArea		
	p850_P2	P850	Standard Devices	DefaultArea		
	PAC1200_project2	PAC1200	Standard Devices	PACdevices		
	PAC1500_P2	PAC1500	Standard Devices	PACdevices		
	PAC1661_P2	PAC1651	Standard Devices	PACdevices		
	pac1651_p2	PAC1651	Standard Devices	DefaultArea		
	PAC1661_P2_1	PAC1661	Standard Devices	DefaultArea		
	PAC1662_P2	PAC1661	Standard Devices	PACdevices		
	PAC1665_P2_1	PAC1665	Standard Devices	DefaultArea		
	PAC1682_P2_1	PAC1682	Standard Devices	DefaultArea		
	PAC2200_P2	PAC2200	Standard Devices	PACdevices		
	PAC3200_P2	PAC3200	Standard Devices	Area_Level_PAC		
	PAC4200_P2	PAC4200	Standard Devices	System_Level		
	SEM3_P2	SEM3_SEM3	Standard Devices	PACdevices		
	Manual measure P2	ManualMeasuringDevice	Standard Devices	DefaultArea		

**Devices**: Allows you to select the device configurations to be migrated. This section has the following columns:

**Select**: Select the checkbox under this section to select the device. All the devices supported for migration is selected by default. Migration non-supported devices are highlighted in grey and cannot be selected for migration. Such devices are not migrated even as Third-party devices. **Device Name**: Displays the name of the selected device.

**Device Type**: Displays the device type.

**Device Group**: Displays the device group.

Area: Displays the area under which the device is available.

Sector: Displays the sector hierarchy under which the device is available.

**NOTE**: Device passwords are not included in the migration operation. Update the device passwords in new powermanager after the completion of migration.

• Select the required third-party device type XMLs under the **Select Third Party Device XMLs** section.

Third Party Device Type	Number of Devices for the device type	Select XML file used for creating the third-party device type	Path of XML
CamilleBauer_EMMOD_201	0	Browse	C:/TPD/CamilleBauer_EMMOD_201_v1.0.1/CamilleBauer_EMMOD_201
PAC3200TPD	1	Browse	C:/TPD/PAC3200TPD/PAC3200TPD.xml
SICAM Q100	1	Browse	C:/TPD/SICAM Q100 v1.0.0/SICAM Q100.xml

• Select Third Party Device XMLs: Allows you to select the required third-party device type XML to be migrated. This section has the following columns:

Third-Party Device Type: Displays the third-party device type

Number of Devices for the device type: Displays the number of devices of the device type. Select XML file used for creating the third-party device type: Allows you select the third-party device type XML files.

Path of XML: Displays the location of the third-party device type XML files.

• Click Save.

**NOTE**: You must select the XML files for all the third-party devices selected in the Devices section.

#### Report Templates Tab

By default, all the **Report Templates** will be selected. De-select any report templates if required.

Select	Report Template	Report Type	
	AbsoluteEnergyTemplt	Absolute Energy	
	abs_logical	Absolute Energy	
	CostCenterTemplt	Cost Center	
	EnergyAnalysisTemplt	Energy Analysis	
~	EnergyExportTemplt	Energy Export	
	KPITemplt	KPI	
	kpitemp2	KPI	
	LoadDurationTempIt	Load Duration	
	LoadVarianceTemplt	Load Variance	
	StandardTempIt	Standard	
	StandardThirdParty	Standard	
	Standard_sensor	Standard	
	standardtemp2	Standard	
	std_blank	Standard	
	TotalEnergyTempIt	Total Energy	
	Top_10_Active_Energy	Top 10 Energy	
	Top_10_Reactive_Energy	Top 10 Energy	
	PowerPeak_Template	Power Peak	
lotes: 1. The	tool doop not create one back up of the conors	ed reports. Create a back up of all generated reports manually, if required.	
	key report templates will not be migrated.	ed reports, create a back up or all generated reports manually, in required.	

**Report Templates**: Allows you to select the report templates. This section has the following columns.

**Select**: Select the checkbox under this section to select the required report template. All the report templates are selected by default.

**Report Template**: Displays the report template name.

**Report Type**: Displays the report type.

**NOTE**: 1) Only report templates are migrated and not the generated reports.

- 2) Migration is not supported for Sankey Report.
- 3) Only scheduling configuration of the Top 10 report templates is migrated.
- 4) The Power peak analysis is migrated as a report template.

- 5) KPI and Energy Export report templates are migrated as Standard report templates in new powermanager.
- Click Save.

#### Miscellaneous Tab

• Create email configurations backup under the E-mail Configurations section.

E-mail Configurations

The e-mail configurations will not be migrated. Do you want to generate a backup file with email configurations?

• Yes
• No

**E-mail Configurations**: Allows you to create a backup of the email configurations. Select **Yes** to create a backup of all email configurations.

**<u>NOTE</u>**: We recommend you create a backup of the email configurations. The backup file is not imported as a part of the migration import operation. Refer the backup file to configure the E-mail in new powermanager.

• Create reactions backup under the **Reaction Plans** section.



Reaction Plans: Allows you to create a backup of the reactions.

Select  $\ensuremath{\text{Yes}}$  to create the backup of all reactions.

**NOTE**: We recommend you create a backup of the reactions. The backup file is not imported as a part of the migration import operation. Refer the backup file to configure the reactions in new powermanager.

• Create system alarms backup under the System Alarms section.



System Alarms: Allows you to create a backup of the system alarms.

Select Yes to create backup of all system alarms.

**NOTE**: We recommend you create a backup of the system alarms. The backup file is not imported as a part of the migration import operation.

• Migrate system settings under the System Settings section.



**System Settings**: Allows you to migrate all system settings. Select **Yes** to migrate all system settings and configurations. All archive smoothing, driver smoothing, system dashboard, and synchronization configurations are included.

• Migrate system trends under the System Trends section.

System Tre	nds
Do you want t	o migrate system trends?
• Yes	○ No

**System Trends**: Allows you to migrate all system trends. Select **Yes** to migrate all system trends.

• Click Save.

#### Export Tab

• Select the path for the export and complete the configurations export under the **Export Configuration** section.

Select a	a path to export the configuration	
Path	D:/SENTRON/PowermanagerProject/data/Migration_Export	D

Path: Allows you to select the path to where the files need to be exported to. Export Configuration: Allows you to complete the complete configurations export.

The file containing the configurations export is available in the above specified folder.

### 3.3 Data Export

Archived data over required period for selected devices is also a part of this operation. To perform data export, ensure that the configuration export is complete, and all the prerequisites mentioned the **Prerequisites for Export** section are met. Perform the following steps for data export.

Measurement Points Tab

• Select Archive Configuration for the measurement points to be migrated.



**Devices**: Allows you to select the devices for which the data must be exported. All the devices selected in the configuration export are listed here.

**Default**: Select to export the measurement points that are archived by default when a device is created in new powermanager.

Example: The measurement points archived by default for a PAC3200 device are active energy import tariff 1 and cumulated active power import.

ailable Measurement Groups		Selected Measurement Points	
oltage	~	active energy import tariff 1	
urrent		(EM) cumulated active power import	
ower			
ower interval			
ower factor			
equency	×		
vailable Measurement Points			
			1
			×
			10.0
			*
	1811		
	D		
ote: The above tables only show the archived			

**Current**: Select to export all the archived measurement points configured in powermanager V3.6 HF1.

wailable Measurement Groups		Selected Measurement Points	
/oltage	~	voltage L1-N	
Current		voltage L2-N	
Power	P	voltage L3-N	
Power interval	V	current L1	
Power factor		current L2	
Frequency	~	current L3	
		collective apparent power	
Available Measurement Points		collective active power	
	_	collective reactive power (VARn)	
		work hour counter	19.00
		active energy import tariff 1	×
		active energy export tariff 1	-
		reactive energy import tariff 1	*
		reactive energy export tariff 1	
		apparent energy tariff 1	
		load profile synchronisation	
	P	acknowledge diagnostics	
	~	device reset (no change of IP Address)	
		reset maxima	
		reset minima	
		reset energy counters	
		relevant param. changes	
		counter reset	
		(EM) cumulated active power import	
		(EM) cumulated active power export	
		digital output 0	
		switch output group	

**Custom**: Select to choose measurement points from all the archived measurement points for the selected device in powermanager V3.6 HF1.

vailable Measurement Groups	Selected Measurement Points	
/oltage	voltage L1-N	
Current		
Power		
Power interval		
Power factor		
requency v		
wailable Measurement Points		
oltage L2-N		
oltage L3-N		>
		>

**NOTE**: Logical devices are not listed for data migration. All the result values are selected for export.

• Select the devices for which the measurement points need to be exported under the **Third Party Devices** section.



**Devices**: Allows you to select the devices for which the data must be exported. All the third-party devices selected in the configuration export are listed here.

**Current**: Select to export all the archived measurement points configured in powermanager V3.6 HF1.

**Custom**: Select to choose measurement points from all the archived measurement points for the selected device in powermanager V3.6 HF1.

• Click Save.

#### Duration Tab

• Select the duration for which the data must be exported.

Duration for Energy Co	nsumption & Power I	iterval Values		
Select * 3 Months	▪ Start tim e	2021.04.28 14:08	Endtime	2021.07.28 14:08
Duration for All Other \	/alues			
Select 3 Months	<ul> <li>Start tim e</li> </ul>	2021.03.07 16:33	End time	2021.07.28 14:08
☑ Time Based Smoothin	g Smoothing	Interval 1 hour -		
	d time format is YYYY.MM alue of the End time is the o	DD HH:MM ompletion time of the configuration export.		

**NOTE:** The default time duration for the data export is from the selected start time to the time configuration export is completed.

**Duration for Energy Consumption & Power Interval Values**: Allows you select the duration for which the data must be exported for energy consumption and power interval values. This section has the following options.

Select\*: Select the duration for which the data must be exported from this dropdown. Start time: Displays the start date and time for the selected duration, if the default duration is selected in the Select\* dropdown.

Allows you to select the start time and date, if the custom option is selected in the **Select\*** dropdown.

**End Time**: Displays the end date and time for the selected duration, if the default duration are selected in the **Select\*** dropdown.

Allows you to select the end time and date, if the custom option is selected in the **Select\*** dropdown.

**Duration for all Other Values:** Allows you to select the duration for which the data must be exported for all other values except energy consumption and power interval values. Default duration is set to 3 months.

**<u>NOTE</u>**: Other values data (excluding energy consumption and power interval) can be exported only for last three months.

Time Based Smoothing: It allows you to reduce the volume of data to be exported. Smoothing Interval: Select the smoothing interval for time based smoothing. This helps to reduce the amount of data considered for migration and to reduce the SQL size needed. After the smoothing interval time has elapsed, the next value will be considered for migration. Any values during the smoothing interval are discarded.

• Click Save.

Export Tab

• Click **Calculate Quick Forecast** or **Calculate Detailed Forecast** to view the SQL storage analysis needed for new powermanager database.

Forecast					
SQL Storage Forecast Qui	ck Analysis		SQL Storage Forecast De	tailed Analysis	
Short Term Storage	Long Term Storage	Total SQL Storage	Short Term Storage	Long Term Storage	Total SQL Storage
+		-		+	-
Calculate Quick Forec	cast		Calculate Detailed For	ecast	

**SQL Storage Forecast Quick Analysis**: Provides you a detailed estimate of the required SQL storage space.

**SQL Storge Forecast Detailed Analysis**: Provides you a detailed estimate of the required SQL storage space. This process can take a few minutes to an hour depending on your data.

• Click **Data Export** in the **Data Export** section to proceed with the export operation.

Export Data	
Data superiord will be present in the l	halau asta
Data exported will be present in the	Jelow pain
C:/SENTRON/DEMO_MIGRATION	PM3X/data/Migration/DEMO_MIGRATION_PM3X_Backup_For_Migration(2021-03-31-14.50)
Data Export	

Export Data: Displays the path where the data export files are made available.

The file containing the data export is available in the above specified folder.

### 3.4 Post Export Operations

Perform the following steps to proceed with migration.

• Copy the files containing the configuration and data export to the machine with new powermanager.

## 4 Import to new powermanager

This section provides information on the import operation required for migration.

Pre-import Checklist:

During installation of new powermanager, select checkbox Migration (select if you are migrating from powermanager V3.6 HF1) and click Next.
 <u>NOTE</u>: If the checkbox is not selected, Powermanager Migration feature will not be available after installation.

To add Powermanager Migration feature post installation follow the below steps:

- Launch **Powermanager SMC** and Navigate to **Projects** node.
- Click Stop.

System Management Console									8 _ 0
SIEMENS			project : Powermanager	/ stopped					Menu
System Projects	Project Settings	Web Services Settings	Notification		_	_	_	_	_
Powermanager Websites	Powermanager								
<ul> <li>PowermanagerWebsite</li> <li>PMDashboard</li> </ul>	<ul> <li>Server Project</li> </ul>	Information							
PIMReports PIMWebClient PIMWSI	Project status: Project name:	<ul> <li>stopped</li> <li>Powermanager</li> </ul>				Data versio	n: 6.0.38.0	Port Information Pmon port:	4999
Database Infrastructure     (iocal)(GMS_HDB_EXPRESS HDB (HDB) NDB [Notification] Certificate	Languages:	C:\Siemens\SENTRON\p	owermanager\Powerman	ager				Data port: Event port:	4897
	<b>⊑</b> 2	en-US					Default	HDB Reader port:	7774
	- <u>-</u>	en-GB de-DE						Dist port: Query Cache port:	4777 A
	8	it-IT						CCom port:	8000
	Einked HDB:	(local)\GMS_HDB_EXPR	ESS\HDB			V	Encrypted:		
	Linked HDB stat	s Connected - secured System1				System ID:	1		
	Distribution part					Dist port:	4777		
	Query Cache:					Query Cache port:	4779		
	Extension Infe	rmation			1				
	C Name		Data Version 6.0.0007.0		Status				
	Advanced Repo	-	6.0.001.0		Updated				1
		er Management Common	6.0.010.0		Updated				
	Modbus TCP	,,,,,	6.0.004.0		Updated				
la la	Modbus TCP Pi	wer Devices	6.0.027.0		Updated				
L3 <sup>4</sup>	NodeMap		6.0.0002.0		Updated				
	► Communicat	on Security							
	<ul> <li>Profiles</li> <li>Manager Det</li> </ul>	-91-							
	Manager	Name		Mode	Status	Options			
	Process Monito		pmon	manual	Stopped	opuons			
ady									

- Close all the applications related to powermanager.
- Launch Update powermanager V7.0 from desktop.
   <u>NOTE</u>: If Update Powermanager V7.0 is not available on desktop, refer to path
   "C:\Siemens\SENTRON\powermanager\GMSMainProject\Bin\Gms.InstallerSetup.exe"

Administrative rights are required to launch Update Powermanager V7.0.

- Click **Yes** on User Account Control window.



- Click Next.

ENTRON powermanager V6.0 Setup - Server		-
ome to the SENTRON powermanager Install Wizard. is wizard will install the management station and its prerequisites on your computer. To continue, click Next.		
Select a Language for the Installation Wizard from the choices belo	w.	
• en-US		
A Warning: This program is protected by copyright law and	international treaties.	
	Add Additional Language Nex	xt Cancel

- Select Server and click Modify for Feature Selection.

pm SENTRON powermanager V6.0 Setup - Server		- 🗆 X
Setup Type Selection Choose a setup type for installation.		pm
Server	Feature Selection	Modify
Client	Language Packs	Modify
● FEP		
L		
	Back Next	Cancel

#### - Click Add Em.

ENTRON powermanager V6.0 Setup - Server	- 🗆 X
Feature Selection Select feature(s) to install.	pm
Select All Deselect All	Add Em OK

- Browse for powermanager setup folder.
- Navigate to **powermanager setup folder\DCC\EM\Powermanager\_migration** and click **OK**.

EM     Advanced_Reporting     Application_Host_Base     DVisualization     DVisualization     Installer     MNS     Modbus     NodeMap     PowerManagement_Modbus_     Powermanager      P     Powermanager
Scripting     Scripting
V SR

- Click OK.

m SENTRON powermanager V6.0 Setup - Server	-	
Feature Selection		nm
Select feature(s) to install.		pm
<ul> <li>Energy and Power</li> <li>Powermanager Migration</li> </ul>		
Select All Deselect All	Add Em	ОК
Select All Deselect All	Add Em	UK

#### - Click Next.

SENTRON powermanager V6.0 Setup - Server		- 🗆 X
Setup Type Selection Choose a setup type for installation.		pm
<ul> <li>Server</li> <li>Client</li> <li>FEP</li> </ul>	Feature Selection Language Packs	Modify Modify
	Back Next	Cancel

#### - Click Next.

	Installation folder:				
	C:\Siemens\SENTRON\pov	vermanager\			Change
			Required (GB)	Temp (GB)	Remaining (GB)
Name	Total size (GB)	Free space (GB)			
Name C:\	<b>Total size (GB)</b> 200.000	Free space (GB) 5.176	0.029	0.029	5.117
				0.029 0.000	5.117 257.117

#### - Click Install.

Pm SENTRON powermanager V6.0 Setup - Server		- 🗆 X
Ready to Install the Program		pm
Following components are ready for installation		
Name	Status	
Powermanager Migration	Pending	
	Back	Install Cancel

- Click Close.

ENTRON powermanager V6.0 Setup - Server		-	
Installation Complete			pm
Installation successful.			
Click Close to exit.			
	Peels	Neut	Class
	Back	Next	Close

- Add Powermanager Migration feature in the project using the below steps:
  - Launch **Powermanager SMC** and navigate to **Projects** node.
  - Select project name and click Add to project.

System Management Console										A _ 🗆 :
SIEMENS				oject : Powermanager	stopped					Menu 🔻
System Projects	Project	ettings Web	Services Settings   No	otification					_	
Powermanager Websites	Powerma	inager								
PowermanagerWebsite PMDashboard	•	<ul> <li>Server Project Inform</li> </ul>	mation							î <b>de se se</b>
PMReports PMreports PMreport Particle Photos PMD Photos PMD Photos		Project status: Project name: Project path: Languages: Linked HDB: Linked HDB:	topped Povermanager Cr,Siemenn/SENTRON/pov en-GB en-GB de-DE in-IT [Decalf)GM5_HOB_DKPRES Connected - secured	-	ager		Data version	Default	Port Information Pmon port: Data port: Event port: HDB Reader port: Dist port: Query Cache port: CCom port:	4599
	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	System name: Distribution participant Query Cache:					System ID: Dist port: Query Cache port:	1 ↓ 4777 ↓ 4779 ↓		
	0	Name		Data Version		Status				
	Advanced keporting Application Host Ba Energy and Power M Modbus TCP	Modbus TCP Power D	inagement Common	6.0.0007.0 6.0.001.0 6.0.010.0 6.0.004.0 6.0.027.0 6.0.0027.0		Updated Updated Updated Updated Updated				Î
		Communication Sec     Profiles     Manager Details     Manager	urity Name		Mode	Status	Options			
		Process Monitor	WCCILpn	ion	manual	<ul> <li>Stopped</li> </ul>				<u>^</u> v

- Select **Powermanager Migration** and click **OK**.



- Click Save.
- Start the project.
- Ensure that you have the required new powermanager license available and activated. Licensing for powermanager is controlled through a tool called, License Management Utility (LMU). Once powermanager is installed, the License Management Utility (LMU) is installed on every system.

Before launching the powermanager client application, you must first enable and manage licenses for powermanager. Otherwise, only the demo licenses are configured, and you will need to close the powermanager client application in very short time.

To protect powermanager against piracy, a special activation is required. You can activate the license for powermanager from LMU using the below steps:

- Launch SMC either by double-clicking the **SMC** icon on the desktop or from Windows **Start** menu.
- Refer to Help > Engineering Step-by-Step > Installing the Software > Additional Installer
   Procedures > Activating a Customer License.
- Ensure that new powermanager supported version of SQL is available.
- Ensure that database size and storage size are sufficient corresponding to the SQL forecast of the SQL operation.
- Ensure that a historical database (HDB) is connected and accessible to the project, the long term storages created and switched to **ON** state.

You can create long term storages using the below steps:

- Launch **Powermanager SMC** either by double-clicking the **SMC** icon on the desktop or from Windows **Start** menu and click **Yes**.
- In the SMC System tree, select History Infrastructure.
- Click Scan Local.
- When the scan is completed, select GMS\_HDB\_EXPRESS SQL.
- Click Link.
- Click **Add** to create the HDB.
- In the Long Term storage section, click Add Storage to create long term storage.
- Select the **Start** check box for the storage.
- Click Save.

The History Database is created and displays in the SMC tree. This may take a few minutes depending on the selected database size. When you create a new HDB it gets automatically linked to the SQL Server. The long term storage is created when the state in the **State** column in the **Storage** table changes to **ON**.

For additional information, refer to Powermanager Help >Engineering Step-by-Step > Setting Up the Project > Creating History Infrastructure > Create a New HDB with Long Term Storage.

### 4.1 Prerequisites for Import

Ensure that new powermanager Server is installed, refer to **Readme.pdf** (section 4.1 Installation Prerequisites). You have the privileges of a **DefaultAdmins** user or a **PowerManagerAdmins** user. If user had reports scheduled in powermanager V3.6 HF1, ensure that Software user account is created in new powermanager, and group membership is assigned to PowermanagerAdmins. Enter created Software account username during configuration import. To create new user, navigate to **Management view > Users**.

Refer new powermanager help section for more details: Engineering Step-by-Step > User and User Group Administration > User Administration.

**NOTE**: Migration is not supported for new powermanager Client setup.

Perform the following steps to proceed with migration:

- Copy the files containing the configuration and data export to the machine with new powermanager.
- Create the third-party device types, if any.

You must create the third-party device type to be migrated in new powermanager. JSON files for corresponding third-party device types are created by the migration tool during the configuration export. These JSON files are available in configuration export folder. You can create third-party device types using the below steps:

- Select **Applications** > **Powermanager.** The **System** tab displays.
- Select Third Party Device Type expander and proceed as follows:
  - Drag and drop the library to the Library Name field.
  - Click **Browse** to select the JSON file.
  - In the **Open** dialog box, select the required JSON file from the location and click **Open**.

#### - Click Create Device Type.

**<u>NOTE</u>**: Device types like 3VLCOM21 and PAC1500 are supported in powermanager V3.6 HF1 but not supported in new powermanager. JSON files for these device types are created as a part of the export operation.

These files are available in path: [Projectname]\_Backup\_For\_Migration(yyyy-mm-ddhh.mm)\Configuration\Device\Classic\_DeviceType\_Jsons.

• Edit the JSON files for the Generic Modbus Device (GMD) types, if any. A JSON file is created for GMD type by the migration tool during the configuration export. This JSON file is available in configuration export folder.

Open the JSON file of the GMD type using the powermanager device engineer tool. Perform the required property configurations and create the new JSON files for corresponding GMD groups. Consider the below example to create GMD device type JSON files in powermanager device engineer tool:

- Open JSON file **GenericModbusDevice\_Classic** from configuration export folder in third-party tool **PowermanagerDeviceEngineer**.

- Review and configure **Device Features** page properties as per powermanager V3.6 HF1 and click **Next**.
- Review and configure **Device properties** page properties and click **Next.** Make sure the property configurations are correct and configured as per powermanager V3.6 HF1 GMD device type.
- Review and configure **Device Configuration** and save the JSON file.
- If necessary, rename the device type using Edit option from Device Type Name.
   <u>NOTE:</u> Do not rename the datapoint properties. If you rename, configuration and data import failure will occur.
- Logical grouping of GMDs:
  - If multiple GMDs are created with same configuration in powermanager V3.6 HF1, then during bulk device creation in new powermanager, you must select the same device type.
  - For different GMD configurations of powermanager V3.6 HF1, individual JSON files should be configured in powermanager device engineer tool.
  - One JSON file should be created for one type of configuration and that type should be selected during bulk device creation.
  - Consider the below example to understand logical grouping of GMD and create corresponding JSON files in powermanager device engineer tool:

Consider three devices GMD1, GMD2 and GMD3 in powermanager V3.6 HF1.

GMD 1 has configuration 1 and GMD2 has configuration 2 and GMD3 has similar configuration as GMD1. In this case user must create two separate GMD device types:

- One device type JSON for GMD1 and GMD3 as they have same configuration
- One device type JSON for GMD2

ject Config					
vermanager	r				
Import					
elect file to	create devices				
:\3x_projec	tfiles\Migration_B	ulkDeviceCreation_doc.csv	Browse		
Select 🗌	Device Name	Device Description - Default Language (English)	Device Description - Additional Language	Device Type	Area
$\checkmark$	etu_8	etu_8R	etu_8	3VAETU8	Area_level_Inheritance
$\checkmark$	COM_21	COM_21	COM_21	3VLCOM21_Classic	NotSupported_Devices
$\checkmark$	3WL-sim	3WL-sim	3WL-sim	3WL	Breakers
$\checkmark$	3WL_1	3WL_1R	3WL_1	3WL	System_level_Inheritenc
$\checkmark$	3WL_10	3WL_10R	3WL_10	3WL10	Area_level_Inheritance
$\checkmark$	GMD1	GMD1	GMD1	GenericModbusDevice_Classic_1and3 🔍	Area1
$\checkmark$	GMD2	GMD2	GMD2	GenericModbusDevice_Classic_2	Area2
$\checkmark$	GMD3	GMD3	GMD3	GenericModbusDevice_Classic_1and3 V	Area1
$\checkmark$	P850-1	P850-1	P850-1	PAC5100	NotSupported_Devices
$\checkmark$	PACP850_1	PACP850_1	PACP850_1	PAC5100	Dummysector2
$\checkmark$	P855-1	P855-1R	P855-1	PAC5200	System_level_Inheritenc
$\checkmark$	1200-1	1200-1R	1200-1	PAC1200	System_level_Inheritenc
$\checkmark$	1200_2	1200_2	1200_2	PAC1200	Area_PAC
Create De	vices Overv				Error in device specificat

- Create the devices in new powermanager under **Bulk Devices Creation** tab:
  - In **Engineering** mode, click **Bulk Device Creation**.
  - Browse .*csv* file to create devices.

**NOTE**: A .*csv* file with the device configurations is created during the export operation. Use this .csv to create the devices.

These files are available in path: [Projectname]\_Backup\_For\_Migration(yyyy-mm-ddhh.mm)\Configuration\Device\BulkDeviceCreation.

- Select the required **Device Type** from the available dropdown for GMDs.
- Provide the **Username** and **Password** for all SEM3 devices.
- Import the JSON files to new powermanager to work with these devices. Refer steps from section **4.1 Prerequisites for Import > Create the third-party device types** to import JSON files to new powermanager.
- Click Create Devices.
- Switch to operating mode and start all device communication.
- Ensure only files and folders shown in below screenshot are present in migration file path.



• Switch to **Engineering** mode and navigate to **Migration** tab to proceed with the import operation.

System	MODBUS Configuration	Summary	Device Type Configuration   Bulk Device Creation	Migration	Engineering
Object Configurator					-
Powermanager					-0
▼ Import					
Select the folder with the m	nigrated files.				
1			Browse		
Step 1 - Configuration Impo	ort				
Enter Schedule Report deta	ils.				
Username	Select path				
			Browse		
Import					
Step 2 - Data Import					
Complete configuration imp	port to proceed with data impo	ort.			

### 4.2 Configuration and Data import

Perform the following steps to proceed with configuration import.

• Select the folder with the migrated files under the Import expander.

System	MODBUS Configuration   Summ	ary De	evice Type Configuration	Bulk Device Creation	Migration	Engineering
Object Configurator						
Powermanager						-•
▼ Import						
Select the folder with the r	nigrated files.					
C:\3x_projectfiles\Mlgratio	on_test\NEw_tool\Test_1_Backup_For_Mig	ration(2022-01-25-19.12)	Browse			

Select the folder exported from powermanager V3.6 HF1: Allows you to select the folder with the configuration or the data export.

Step 1 – Configuration Import: Allows you to import the file containing the configurations.

Username: Enter software account username for new powermanager.

Select path: Select the folder to export the schedule reports.

System	MODBUS Configuration	Summary	Device Type Configuration	Bulk Device Creation	Migration	Engineering
Object Configurator						
Powermanager						-0
▼ Import						
Select the folder with the n	igrated files.					
C:\3x_projectfiles\MIgratic	n_test\NEw_tool\Test_1_Backup	_For_Migration(2022-01-25-19	9.12) Browse			
Step 1 - Configuration Impo	rt					
Enter Schedule Report deta	ils.					
Username	Select path					
			Brov	vse		
Import						
Step 2 - Data Import						
Complete configuration im	port to proceed with data impo	rt.				

#### Step 2 – Data Import: Allows you to import the file containing the data.

System	MODBUS Configuration	Summary	Device Type Configuration Bulk	k Device Creation Migration	Engineering			
Object Configurator	1							
Powermanager					-•			
▼ Import								
Select the folder with the	migrated files.							
C:\3x_projectfiles\MIgrati	on_test\NEw_tool\Test_1_Backup	p_For_Migration(2022-0	01-25-19.12) Browse					
Step 1 - Configuration Imp	ort							
<ul> <li>Configuration import</li> </ul>	Configuration import successful. A migration import summary is created with configuration import details in < Project Path>/Data/Migration.							
Step 2 - Data Import								
Import								

#### The configuration and the data import are successful.

System	MODBUS Configuration	Summary	Device Type Configuration   Bulk Device Creation	Migration	Engineering			
Object Configurator								
Powermanager					-0			
▼ Import								
Select the folder with the	migrated files.							
C:\3x_projectfiles\MIgrat	on_test\NEw_tool\Test_1_Backu	p_For_Migration(2022-	-01-25-19.12) Browse					
Step 1 - Configuration Imp	ort							
Configuration import successful. A migration import summary is created with configuration import details in <project path="">/Data/Migration.</project>								
Step 2 - Data Import								
Oata import success	Data import successful. The migration import summary is updated with data import details in <project path="">/Data/Migration.</project>							

**NOTE**: You are recommended to verify all the configurations in new powermanager system after migration.

# 5 Migration Summary

Configuration Export, Data Export, Configuration Import and Data Import are the activities performed during migration. After every export and import activity, migration summary report will be created for each activity.

Export summary will be available as <Exported Folder>/Migration\_Export\_Summary.txt Import summary will be available as

<Project Path>/Data/Migration/Migration\_Import\_Summary.txt

**NOTE**: You can compare between export and import summary reports to get the migration status.

# 6 Troubleshooting

### Troubleshooting

Error	Situation	What to do
Data import could not start	User clicks on data import with incorrect HDB configuration	1.Verify if HDB is linked to the project.
		2.Verify if Siemens GMS HDB service is running in SMC (system node >management tab >services section).
		3.Verify if short term and long term archives/storages are created in HDB and in ON state.
		After performing above troubleshooting, proceed with data import.
Migration tab is not available after login to new powermanager	Migration EM is not installed or not added in the project	If Migration EM is not installed, refer section <b>Import to new</b> <b>powermanager</b> . If migration EM is not added in the project, click <b>Add to project</b> and add powermanager migration EM.
Server is not properly running during import in new powermanager	Migration(import) running on HDB writer manager goes to blocked state in SMC	User should wait till completion of complete migration activity.
The scheduled report file is corrupted	User trying to open the generated scheduled report file	In powermanager application re- save the report definition.

- 1. Read the notes in the **Readme.pdf** file carefully.
- 2. For up-to-date hot fixes / service packs for powermanager see:

www.siemens.com/Powermanager/support

For further support, see the Technical Support information below.

Technical Support:	Internet: <a href="http://www.siemens.com/lowvoltage/technical-support">http://www.siemens.com/lowvoltage/technical-support</a>