



# Upgrade ET 200M to ET 200SP HA

Standardized service to adjust SIMATIC PCS 7 project engineering from ET 200M to ET 200SP HA

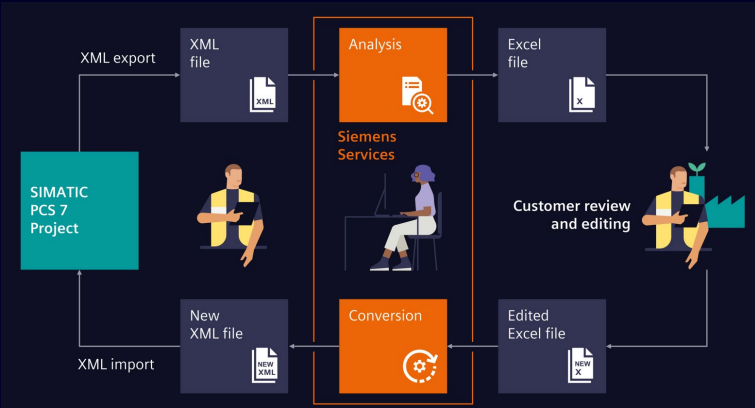
# Ensuring lifecycle through ET 200M to ET 200SP HA hardware modernization as part of DCS Application Services



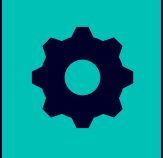
- DCS Application Services provide tailored support for modernizing and optimizing existing SIMATIC PCS 7 systems, ensuring seamless integration and future readiness for PCS neo.
- The Upgrade ET 200M Service enables the modernization of existing I/O systems, replacing outdated hardware with new, standardized components for long-term system reliability.

## Solution and Service

- DCS Upgrade Services offer a structured migration path for existing ET 200M installations to ET 200SP HA-compatible I/O systems.
- Existing configurations and hardware are analyzed, and replacement concepts are designed with minimal process interruptions.
- Ensures full data consistency and hardware compatibility throughout the migration and includes on-site execution, testing, and validation of the new system environment



## Your value



Modern I/O systems minimize downtime and enhance plant reliability



Future-proof hardware and seamless integration into existing DCS architectures



The upgrade concept ensures a smooth, low-risk migration and reducing potential disruptions.

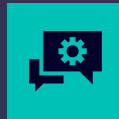
# Challenge

How do I keep my system innovative throughout the lifecycle of the asset?

How can **older ET 200M modules be integrated** or migrated to modern I/O platforms such as ET 200SP HA?



How can existing hardware configurations and signal assignments **be transferred reliably during the upgrade process**?



Which modernization strategy **ensures long-term** availability and readiness for PCS neo and future system expansions?



# DCS Application Services

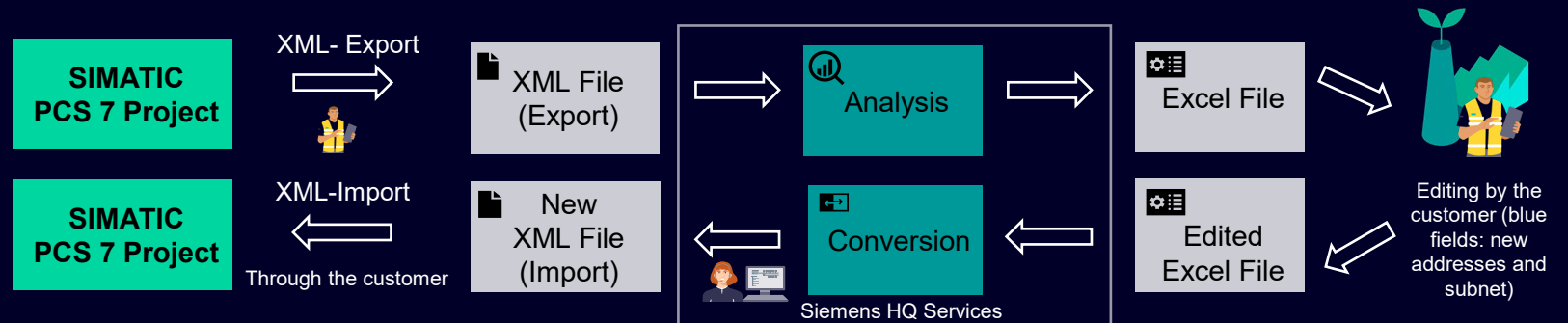
## Upgrade SIMATIC ET 200M to ET 200SP HA



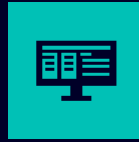
### Solution and Service

When upgrading from ET 200M to ET 200SP HA, adjustments are required in the hardware configuration of SIMATIC PCS 7 as well as in the symbol table. The modules in the ET 200SP HA occupy a different address range.

- A prerequisite is an ET 200M **analysis**. This can be carried out via my SIMATIC PCS neo (<https://evolution.myneo.siemens.com/>) or as part of the ET 200M upgrade. It provides valuable information for migrating the ET 200M peripherals to the ET 200SP HA peripherals.
- The **conversion** uses the analysis data, edited by the customer and creates an XML file with updated hardware settings, symbol table, and addresses.



# Description of Excel-File from Analysis



## Overview

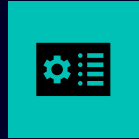
Provides an overview of the assemblies found (ET 200M) in the EXCEL file.



## Devices

Lists all information about the head assemblies.

The blue fields can be edited by the customer within the input.



## Device Items

Lists all information about the sub-assemblies.

The blue fields can be edited by the customer during input



## GlobalSubnet

Lists the PROFINET available in the project.

Information is mainly required for the exchange.



## Orderlist

List of MLFBs (ET 200SP HA) and the corresponding quantities.



## Deviation und AttributeList

Deviation lists all deviations that occur during the assignment.

All attributes of all ET 200M modules are listed in the AttributeList

Redundant	Station	Exchange OrderNumber	New Name	Start Adress	End Adress	SubnetName1	SubnetName2	Disabled(Y/N)
30	SIMATIC 400(1)	S2.6DL1 155-6AU00-0PMD			23			N
30	SIMATIC 400(1)	S2.6DL1 155-6AU00-0PMD			1			N
30	SIMATIC 400(1)	S2.6DL1 155-6AU00-0PMD			51			N
30	SIMATIC 400(1)	S2.6DL1 155-6AU00-0PMD			47			N
30	SIMATIC 400(1)	S2.6DL1 155-6AU00-0PMD			186			N

<b>ProjectName:</b>	Sys_HW_Prj
<b>XML Name:</b>	Sys_20240913.XML
<b>XML Created:</b>	13.09.2024 10:56
<b>XML Changed:</b>	13.09.2024 12:56

Number of Stations: 1  
 Number of Devices: 5  
 Number of Devicetems: 40

**Ordernumber Devices:**  
 6ES7 153-2BA02-0XB0 4 SIMATIC DP, Connection ET 200M I  
 6ES7 153-1AA00-0XB0 1

**Ordernumber Devicetem:**  
 6ES7 322-8BH01-0AB0 1 SIMATIC S7/PCS7, Digital output S

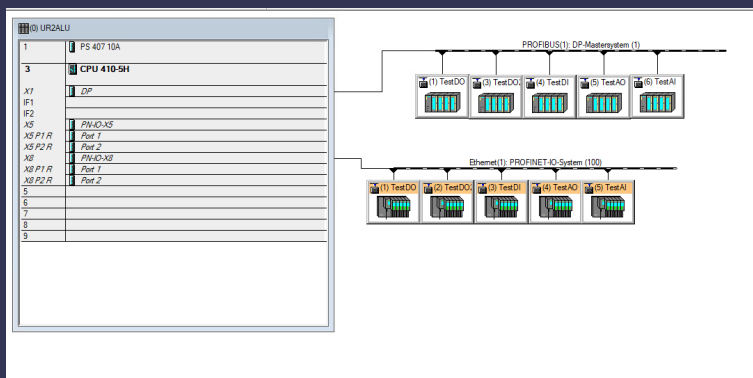
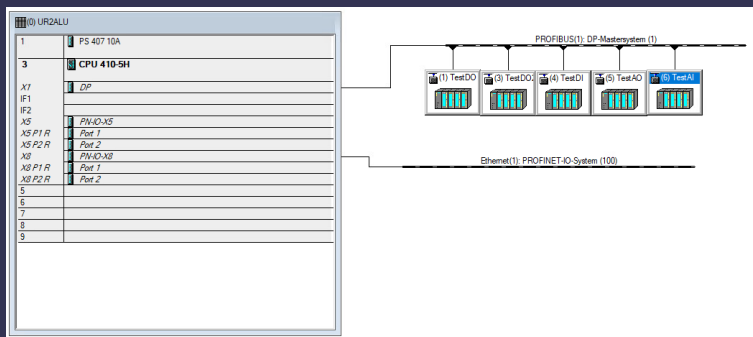
**Ordernumber Devices:**  
 6ES7 322-8BH10-0 6DL1 155-6AU00-0PMD 5 SIMATIC ET 200SP HA, PROFINET interface module IM  
 6ES7 322-1BH10-0  
 6ES7 322-8BF00-0  
 6ES7 322-1BH10-0  
 6ES7 322-1BH10-0  
 6ES7 322-1BH10-0

**Unknown Device Ordernumber:** 0

**Ordernumber Devicetem:**  
 6DL1 132-6BH00-0PH1 6 ET 200SP HA, DQ 16x24VDC/0,5ASIMATIC ET 200SP  
 6DL1 132-6BL00-0PH1 1 DQ 32x24VDC/0.5A HA  
 6DL1 132-6HD50-0PK0 10 ET 200SP HA, RQ 4x120VDC-230VAC/5A COSIMATIC  
 6DL1 131-6BH00-0PH1 3 ET 200SP HA, DI 16x24VDC HASIMATIC ET 200SP HA  
 6DL1 131-6BL00-0PH1 1 DI 32x24VDC HA  
 6DL1 131-6TH00-0PH1 1 DI 16xNAMUR HA  
 6DL1 131-6DF00-0PK0 6 DI 8x24 ... 125VDC HA  
 6DL1 131-6GF00-0PK0 8 DI 8x230VAC HA  
 6DL1 135-6TF00-0PH1 3 ET 200SP HA, AQ 8XI HARTSIMATIC ET 200SP HA, an  
 6DL1 134-6TH00-0PH1 2 AI 16xI 2-WIRE HART HA  
 6DL1 134-6AF00-0PH1 7 ET 200SP HA, AI 8xU/I/TC/ 4xRTD HASIMATIC ET 200SP

# Service Description

## Upgrade ET 200M to ET 200SP HA (SW Part)



### Checking the analysis table

Plausibility check of the data entered by the customer.



### Module replacement based on the data assignment

In the XML file, the module is replaced, and the attributes are transferred. The hardware configuration is automatically adapted during the later import.



### New assignment to PROFINET

A new assignment is made to the new PROFINET connections entered by the customer.



### Adaptation of addresses (assemblies)

The new module addresses are prepared in XML for the hardware configuration.



### Adaptation of addresses (symbol tables)

The new matching ET200SP HA module addresses are entered in the symbol table.

# Why should you choose ET 200M upgrade service?



## Higher reliability

Modern I/O systems minimize unplanned downtime, boosting your plant's reliability and operational efficiency.



## Seamless migration

A proven migration approach, leveraging pre-tested replacement strategies and on-site execution by Siemens experts, ensures minimal operational disruption and a smooth, reliable system transition.



## Future-proof integration

Seamlessly integrate future-ready hardware into your digitalized DCS environment, ensuring compatibility, reliability, and long-term scalability.



# You want to find out more?

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[Webpage DE](#)

[Siemens Contact  
Database](#)

[Manual EN](#)

[DCS Library Services  
Channel Block Exchange  
Offering EN](#)

[Quick Analysis of a  
SIMATIC PCS 7 AS Project  
– Which services are  
available? EN](#)

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