



DCS Library Services

Sales Slides



Advanced Process Library as a key for a future-proofed control system with DCS Library Services



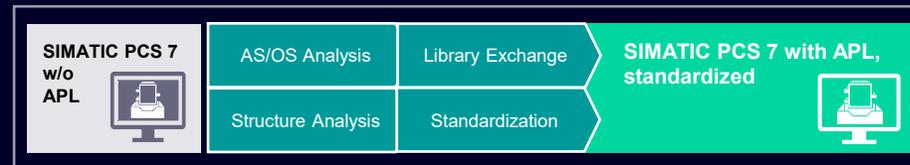
- DCS Application Services provide tailored support for modernizing and optimizing existing SIMATIC PCS 7 systems, ensuring seamless integration and future readiness for PCS neo
- The DCS Library Service enables standardized and automated migration of SIMATIC PCS 7 libraries to the Advanced Process Library (APL) for consistent quality and long-term maintainability.

Solution and Service

- Standardized library exchange at a fixed price
- Low-risk library exchange of the obsolete library to the current Advanced Process Library (APL)
- Use of APL functions and future extensions
- Fast and secure implementation with short test phase

How does it work?

- With the AS/OS analysis an overview of all used blocks and symbols is achieved
- Automated implementation with system-tested rules
- The structure analysis enables the standardization of existing structures during the conversion process



Your value



Modular services for modernizing and standardizing applications by experts



Increase service capability by current and future DCS innovations (SIMATIC PCS neo)



Reduction of time and costs for future upgrades

Challenge

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

How can the plant **remain productive and economical** throughout its life cycle?



How can the plant be **safely prepared for future and cost-effective upgrades?**



How to use additional current/new functionalities in the DCS system?



How do I achieve a low-risk library exchange of the outdated library to the current Advanced Process Library (APL)?



Modernize your DCS Library with the Advanced Process Library – Future-Proof your Control System



DCS Library Services

DCS Library Services provide the perfect solution for streamlined and standardized library exchange with the Advanced Process Library (APL):

- **Standardized Library Exchange** ensures consistency and efficiency at a fixed price.
- **Project-Specific Implementation** through tailored integration of AS (Automation System) and OS (Operator System) components.
- **Comprehensive AS/OS Analysis** delivers full transparency, helping to identify optimization potential.
- **Optimized Cost- and Maintenance Efficiency** through improved component functionalities.
- **Fast and Secure Implementation** ensures minimal downtime.
- **Customer-Specific Additional Services** for further libraries and project-standardization.



DCS system modernization requires not only upgrading the system software but also modernizing and standardizing the individual applications.

Modernize your DCS Library with the Advanced Process Library – Future-Proof your Control System



DCS Library Services

Standard packages (MLFB based)

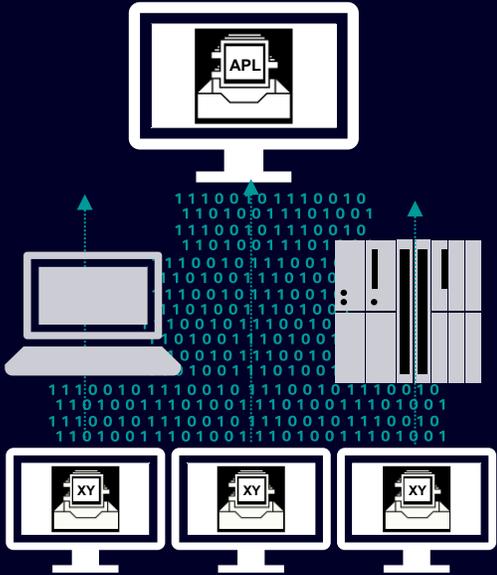
- AS/OS Analysis
- Structure Analysis
- AS Standard Package
- OS Standard Package

Customized additional services

- Additional libraries (SC, PTE400, MFL)
- Standardization

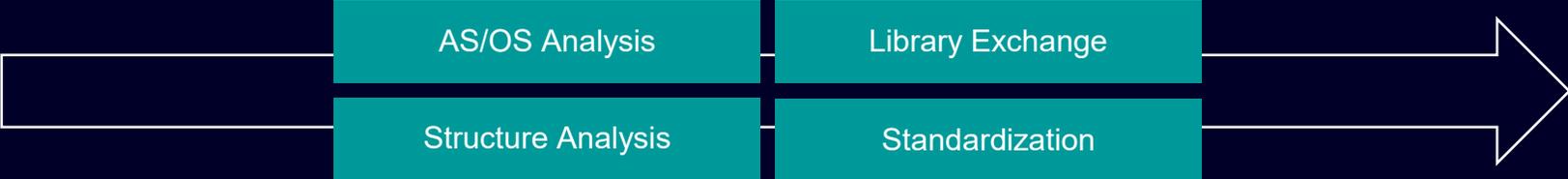
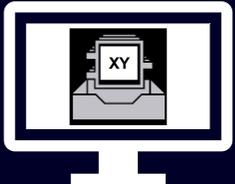
SIMATIC PCS 7 project-specific options

- SIMATIC PCS 7 Updates/Upgrades
- HQ-FAT, SAT
- Commissioning



DCS Library Services

SIMATIC PCS 7
w/o APL



SIMATIC PCS 7
with APL, standardized



This transparency creates a basis for further technical clarification and project management



What work is necessary to complete a successful library exchange?

- Which libraries are included and which blocks can/should be implemented according to APL/IL*?
- Which preparations are necessary?
- Which special features are included in the project?
- Are problematic scripts included (optional)?
- Is the adaptation/development of additional exchange rules incl. test implementation necessary?

Detailed information (Excel)

X OS	OS_A_Summary	OS_A_Picture_Overview	OS_A_Full_Size	PDL_24_Check_PictureTree	Definition_Full_Size	
	OS_A_Type_Assignment	OS_A_Prop_DynamicDialog	OS_A_Prop_DynamicDialog_Paramet	OS_A_Prop_TagConnection		
	OS_A_Prop_TagConnection_Paramet	OS_A_XREF_CustObj_Type_X	OS_A_XREF_CustObj_NoType	OS_A_XREF_CustObj_MultiTagNames		
	OS_A_ClassicTrendControl	OS_A_TrendControl	OS_A_DeadDynamics	OS_A_PictureJumps_DirectCon		
X AS	Summary	Controller	Blocktype_Matrix	BT-WithConversionRules	BT-WithRulesToBeAdapted	BT-NoConversion
	BT-WithOutConversionRules	BT-APL	ChartInChart	SFC-Chart	SFC-Chart-StepAktions	SFC-Chart-Transitions
	OperandWithoutDriver	NotAllowedSymbols	IdenticalBlockNames	ToBeDeleted	STD_Deviation	
	STD_Deviation_Summary					

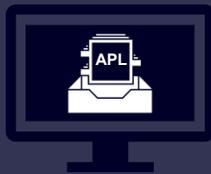
Discussion of the results

*Industry Library

DCS Library Services

AS Standard Packages

Library exchange SIMATIC PCS 7 Library to Advanced Process Library

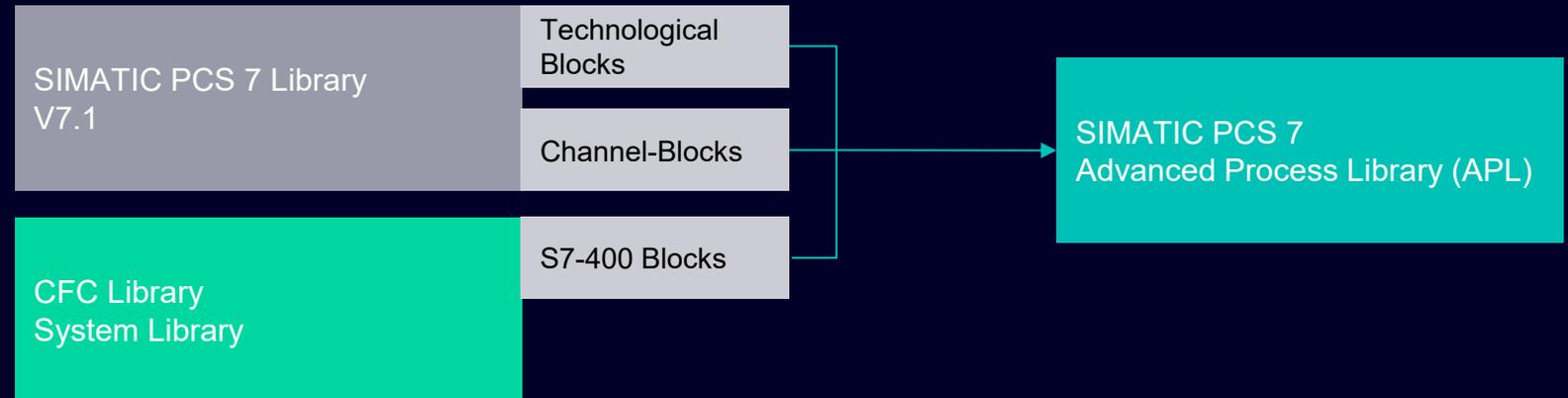


Automatic conversion of the blocks according to predefined conversion rules per AS/ multi-project:

- SIMATIC PCS 7 Library
- Driver Blocks
- Logic Blocks (BOP, ...)

Options

- SFC chart
- Dissolve chart-in-chart

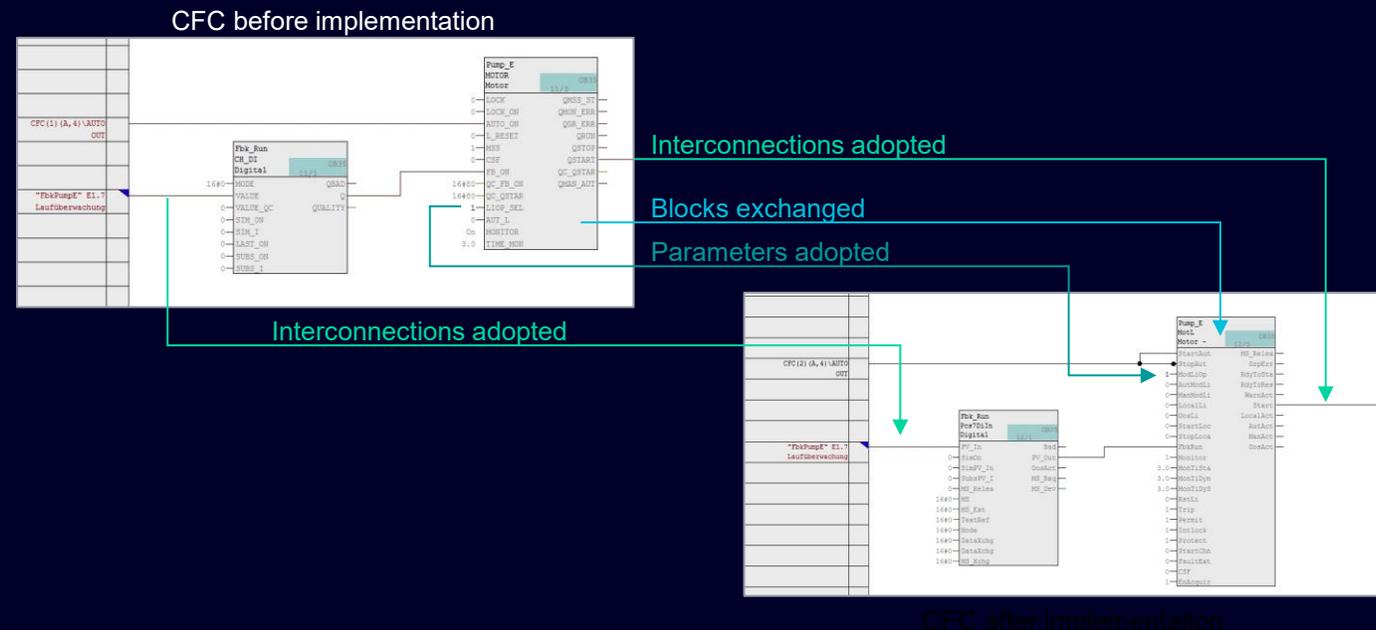


AS Standard Packages



AS Standard Package and the library exchange

- In general, all libraries can be exchanged for which it is possible to create conversion rules for a functionally identical mapping.
- For the exchange of blocks of two different libraries, conversion rules are required in which the assignment of the source and target block is defined.
- They contain information, conditions and calculations that are important for the transfer of the connections, parameter values, block comment, block position, etc.



DCS Library Services

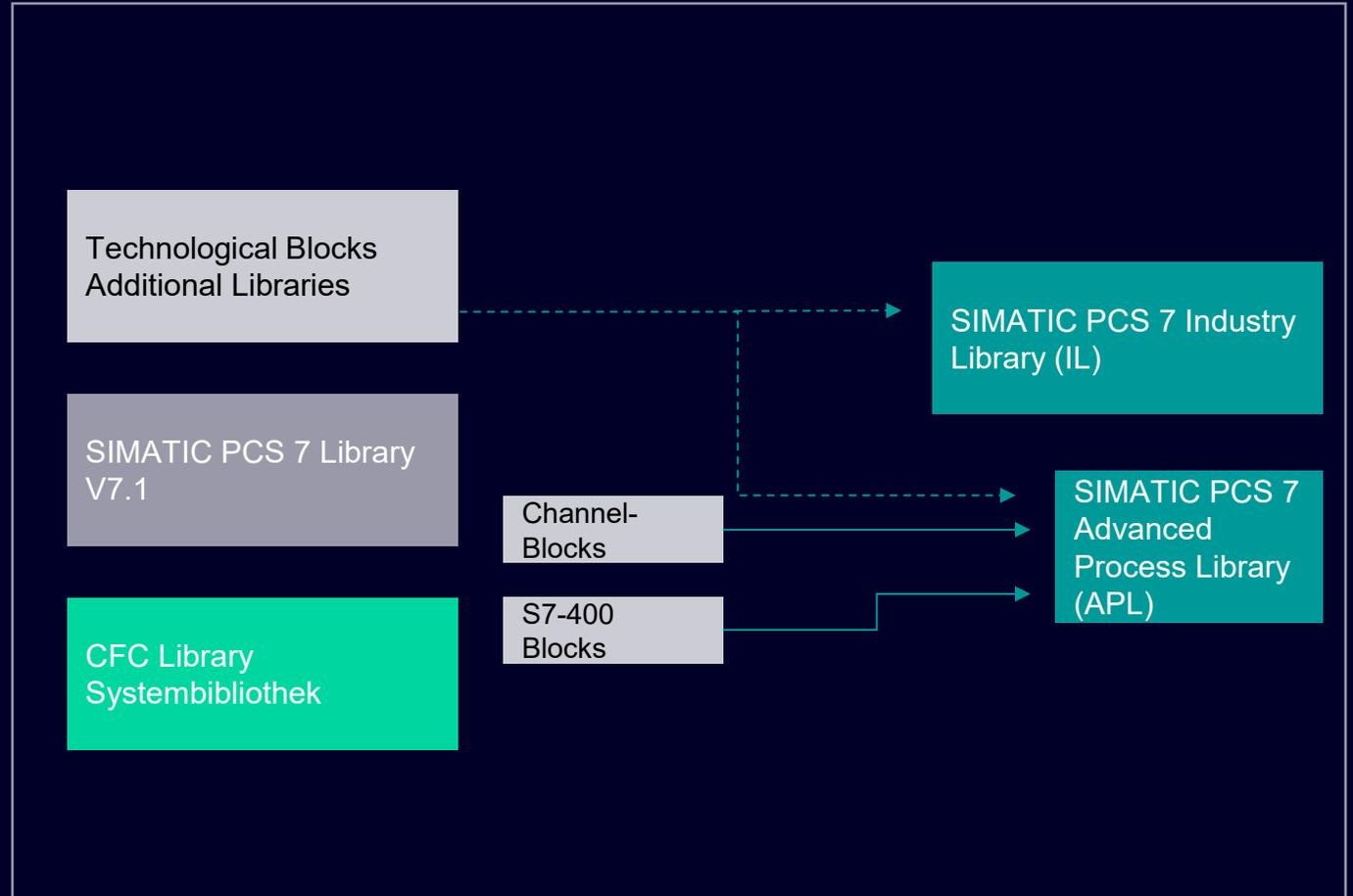
OS Standard Packages

SC, PTE400, MFL,
CEMAT,
Simocode Pro, ...

- Libraries with existing implementation rules
- Adaptations or new rules necessary
- Much experience available
- Implementation possible

PS, CIS-CK,...

- Libraries without implementation rules
- New rules required
- Analysis possible
- Offer possible

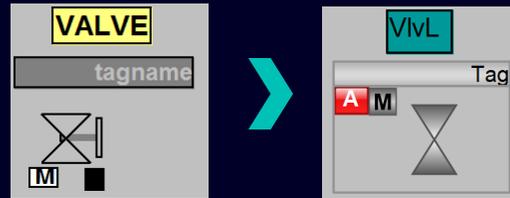


OS Standard Packages



Library exchange: SIMATIC PCS 7 Library to Advanced Process Library in projects with SIMATIC PCS 7-compliant engineering

Replacement of the block icons



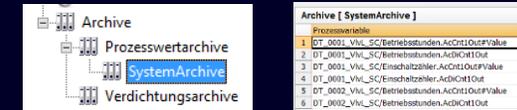
Adjustment of tag connections



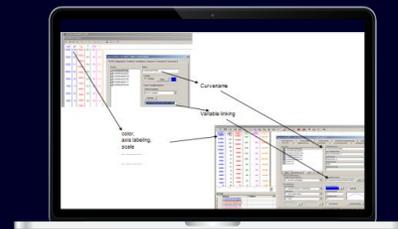
Adjustment of dynamic dialogs



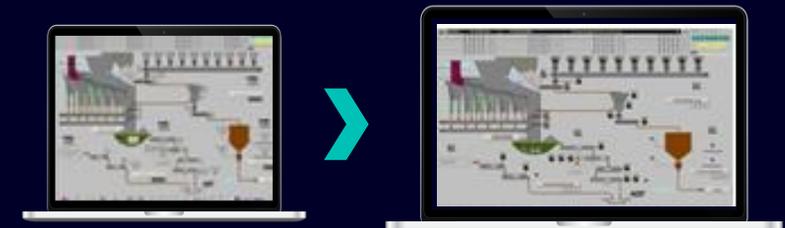
Conversion to system archives (optional)



OnlineTrendControl exchange (optional)



Picture resolution and object size adjustment (optional)



DCS Library Services

Specific work packages

Additional, specific work packages are offered depending on the requirements.

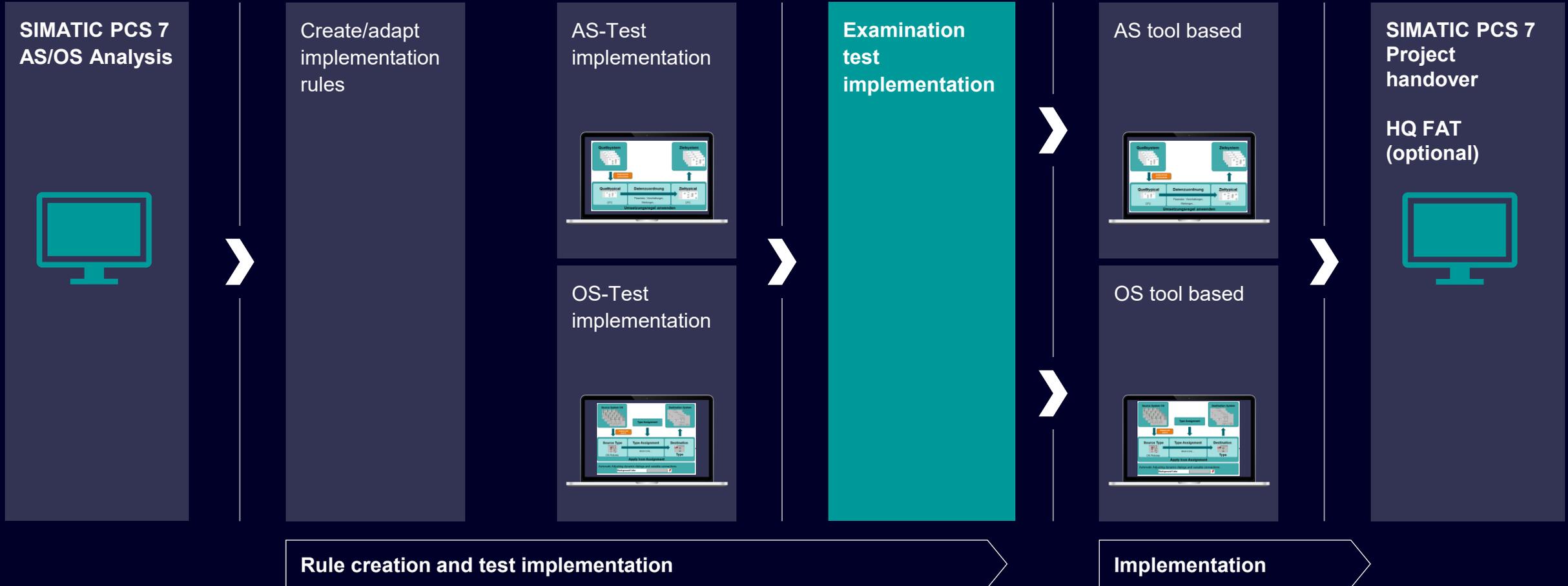


Working packages:

- Detailed clarification
- Creation or adaptation of exchange rules
- AS and OS test implementation
- Project cleanup & standardization
- Project processing (detailed clarification, project management, acceptance)
- Options (SIMATIC PCS 7 upgrade ...)

DCS Library Services

Workflow for adaptation or creation of new exchange rules with test implementation



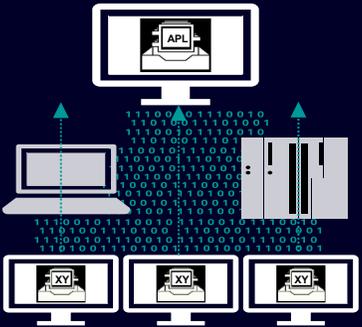
Modernize your DCS Library with the Advanced Process Library – Future-Proof your Control System



Solution and Service

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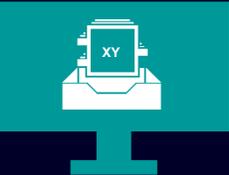
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DCS Library Services

Positioning within the modernization portfolio

Legacy System

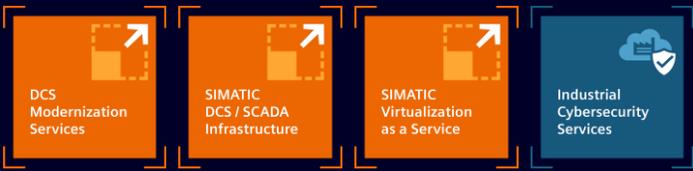


Standardized Modernization Portfolio Elements

Application Upgrade



System Upgrade (z.B. SIMATIC PCS 7 Version X → SIMATIC PCS 7 Version Y)



Additional Packages



State-of-the-Art System

Service Contracts



DCS Library Services

Overview Portfolio element



The maintenance, support and modernization ...

- ... of existing DCS systems can be very time-consuming and complex. Especially if, in addition to the SIMATIC PCS 7 Library, various function block libraries are also in use for the realization of the individual control level.
- The service module "**DCS Library Services**" offers both analysis and exchange (AS/OS) of existing DCS libraries on Advanced Process Library (APL). With the APL-based control module you create your basis for DCS innovations (SIMATIC PCS neo).
- The module „**DCS Standardization Services**“ includes the conversion of project engineering to CM/CMT and further project cleanups. The structure analysis forms the basis for the implementation and shows further standardization potential.

The Standardized service to adjust SIMATIC PCS 7 project engineering from ET 200M to ET 200SP HA is part of this module.

- The module „**SIMATIC PCS neo Readiness Services**“ is the preparation of the installed SIMATIC PCS 7 base for the SIMATIC PCS neo Evolution.

Why should you choose DCS Library Services?



Modularity

Siemens experts offer tried-and-tested modular services for library exchange within DCS project engineering.



Transparency

Use of AS/OS analysis and structure analysis create transparency.



High quality

Use of automated workflows ensures high quality.



Serviceability

Increased serviceability through use of current SIMATIC PCS 7 features and future DCS innovations.



Efficiency

Reduction of maintenance and repair costs.

Münchener Stadtentwässerung, Germany

Ensuring service upgradeability and optimize system availability

Münchener Stadtentwässerung

Public wastewater management company of the City of Munich, Germany, operating in the Water & Wastewater industry with focus on sewer network management and wastewater treatment. [Link](#)

Customer objectives

- The customer has been expanded by various service providers. This differs in the structure of the software in the service providers
- Difficult maintainability of the software
- Replacement of the outdated, non-future-proof PTE400 library and various customer-specific blocks in a SIMATIC PCS 7 V6 version that is no longer supported.
- Creation of current security standards for critical infrastructure

Solution and Service

DCS Library Services

- DCS Library Services as an important part of the plant modernization of the central control system
- Standardized library exchange of the PTE400 library and various customer-specific blocks according to APL in 54 automation systems
- Automated revision of the user interface according to customer specifications for 6 pairs of SIMATIC PCS 7 OS servers
- Standardization of the plant parts by creating and using typical Library exchange on APL using MLFB based standard packages

Customer benefits

- Optimization of plant availability / ensuring service and upgradeability
- The use of standard libraries, the implemented standardization, reduces maintenance costs, increases serviceability and enables the use of current SIMATIC PCS 7 features and future DCS innovations.
- Use of the APL functionalities and future extensions



54 automation systems

were successfully upgraded through a standardized library exchange.

“Quotation”

Name, profession, company



You want to find out more?

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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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