




SAP Plant Connectivity 2.2




PCo Functions / Destinations

Release 2.2

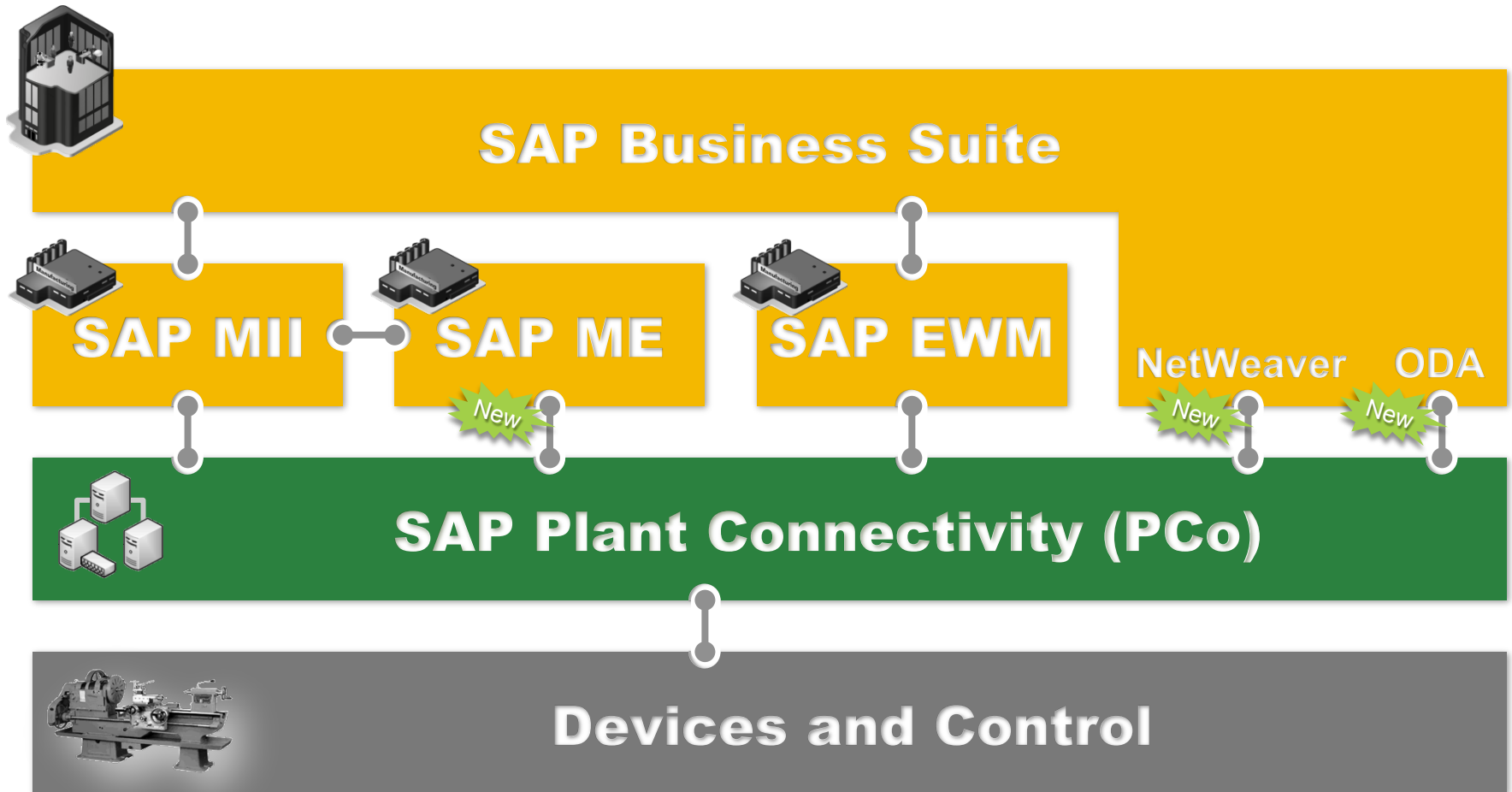
Function / Destination
Bidirectional Queries
Software Development Kit (SDK) for custom agents
RFC Destination to EWM
RFC Destination to Business Suite 
RFC Destination to SAP ODA 
Web Service Destination (SAP ME) 

PCo Agents

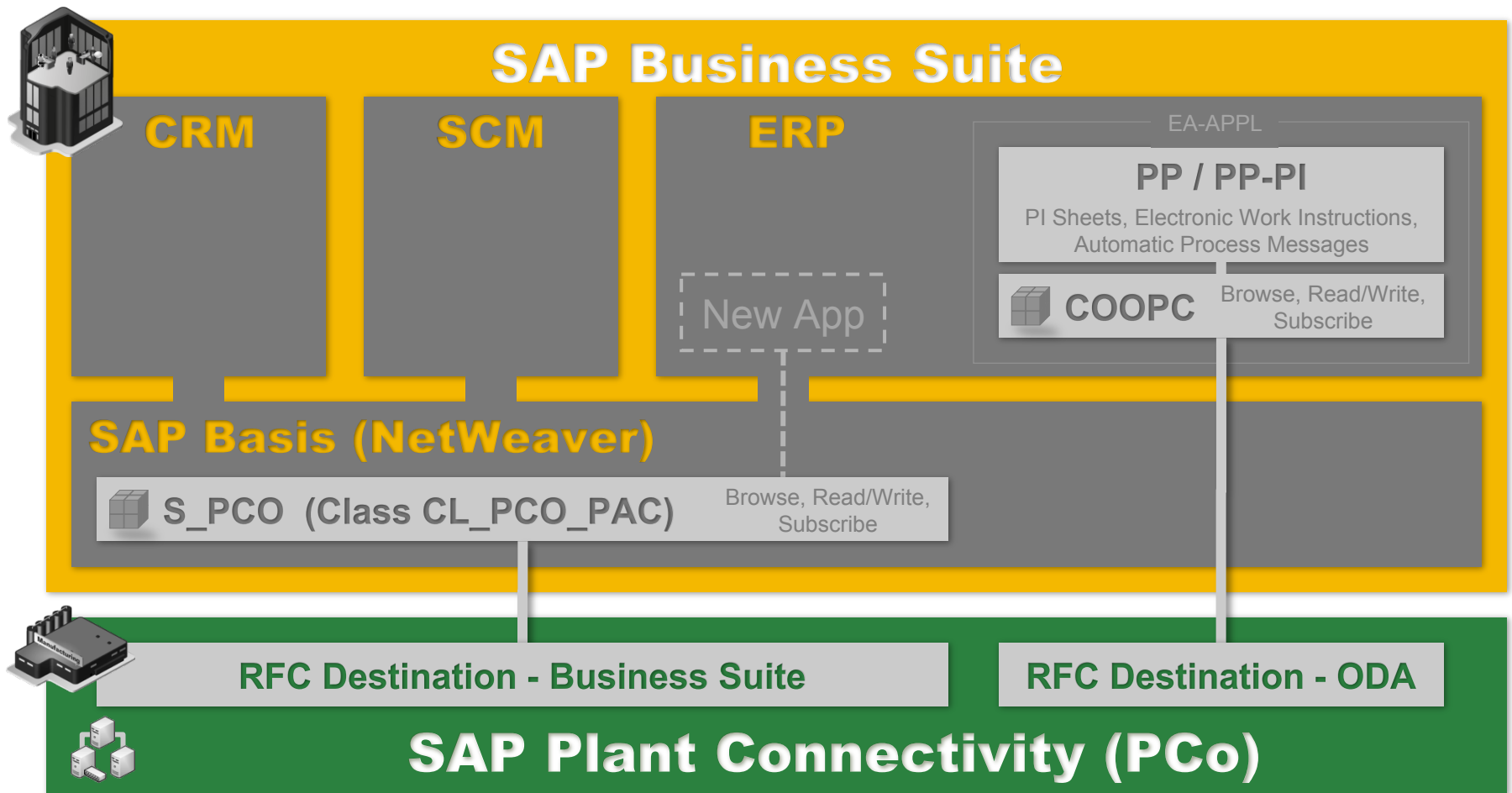
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Agent	Query	Notification
OPC DA	X	X
OPC UA	X	X
OPC A&E		X
OPC-HDA	X	
OLEDB	X	
OSISoft PI	X	X
GE Fanuc Proficy Historian	X	X
AspenTech IP 21 	X	
Citect SCADA 	X	
File Monitor 	X	X
Socket	X	X

Support of Device Connectivity by SAP



Direct Connectivity to the Business Suite / SAP ODA



Integration with SAP ME

Old Solution

- Not part of PCo standard
- Scripting Engine (C#)
- Advantage: Flexible
- Disadvantages:
 - ▶ Consulting intensive
 - ▶ Difficult to support

New Solution

- Consumption of ME web services
- Easy to set up
 - ▶ Browsing of offered services and operations
 - ▶ Browsing of parameters

PCo Integration with SAP ME: Web Service Destination - General Settings

Settings | Operation Mapping

Server Settings

Host / IP : <Server> Port : 50000

Timeout (in ms.) : 15000 Detailed Logging : Always

Authentication : Basic Http Binding

User Name : MESYS

Password : *****

Service Settings

WSDL Path : /manufacturing-services/ProductionServiceService?wsdl

Services : ProductionProcessingInClient

Refresh

PCo Integration with SAP ME: Web Service Destination - Operation Mapping

Settings | Operation Mapping

Operation Mapping

Operations

Start(StartRequestMessage_sync StartRequest_syn)
 Split(SplitRequestMessage_sync SplitRequest_syn)
 Complete(CompleteRequestMessage_sync CompleteRequest_syn)
 Serialize(SerializeRequestMessage_sync SerializeRequest_syn)

Create Request Message | Delete Request Message

Operation Request Message Mapper

Variable Name	Variable Type	Value	Variable
StartRequest_sync	StartRequestMessage_sync		<input type="checkbox"/>
MessageHeader	BasicBusinessDocumentMessageHeader	Create Object	<input type="checkbox"/>
StartRequest	StartRequest	Delete Object	<input type="checkbox"/>
SiteRef	SiteRef	Delete Object	<input type="checkbox"/>
Site	String	SITE	<input checked="" type="checkbox"/>
SfcRequest	StartRequestSFC[1]	Delete Array	<input type="checkbox"/>
0	StartRequestSFC	Delete Object	<input type="checkbox"/>
SiteRef	SiteRef	Create Object	<input type="checkbox"/>
ActivityRef	ActivityRef	Create Object	<input type="checkbox"/>
SfcRef	SFCRef	Delete Object	<input type="checkbox"/>
Sfc	String	SFC	<input checked="" type="checkbox"/>
SiteRef	SiteRef	Create Object	<input type="checkbox"/>
ResourceRef	ResourceRef	Delete Object	<input type="checkbox"/>
SiteRef	SiteRef	Create Object	<input type="checkbox"/>

PCo Integration with SAP ME: Usage in PCo Notification

The image displays three overlapping screenshots of the SAP Plant Connectivity Management Console, illustrating the configuration of a notification for the SFC destination.

Top Screenshot: Shows the 'Host' tab. The 'Name' is 'SFC' and the 'Source' is 'Channell_BS_Test.String'. The 'Deadband' is set to 0.

Name	Source	Deadband	Delete
SFC	Channell_BS_Test.String	0	Delete

Middle Screenshot: Shows the 'Reliable Connection' tab. It lists the following expressions:

Name	Expression	Edit	Delete
SFC	"SFC"	Edit	Delete
SITE	"QATEST"	Edit	Delete
OPERATION	"OP1"	Edit	Delete
RESOURCE	"RES1"	Edit	Delete
USER	"SITE_ADMIN"	Edit	Delete

Bottom Screenshot: Shows the 'Destinations' tab. It displays the 'Output-Destination Mapping' for the ME [AM_ME] destination:

Destination Variables	Notification Outputs
SITE	SITE
SFC	SFC
RESOURCE	RESOURCE
OPERATION	OPERATION
USER	USER



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