

Agenda





- Introduction Detlef Aden
- Why should maintenance processes be integrated into business processes - Detlef Aden
- The future begins today. The requirements and possibilities (condition-oriented maintenance, what about predictive maintenance? What is there what's coming? -Detlef Aden
- Features of the eam4cloud "What?s new?"
 Stefan Lehmann
- Questions & Answers



all4cloud - the 100% cloud company







2015 founded

>190 happy companies

60+ customer projects

30+ employees are there for you

8 years experience w/ SAP Cloud

8 renowned awards



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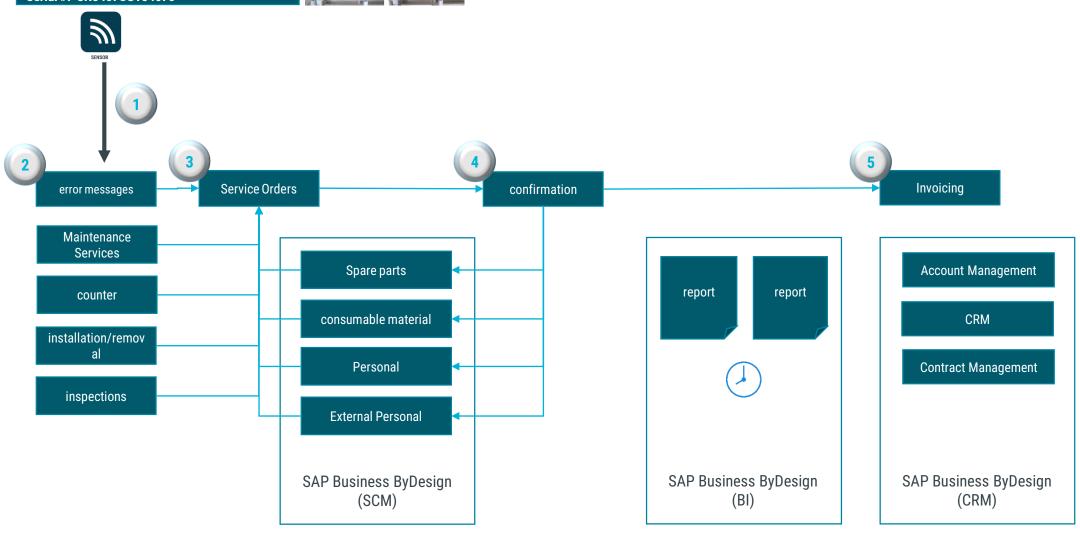


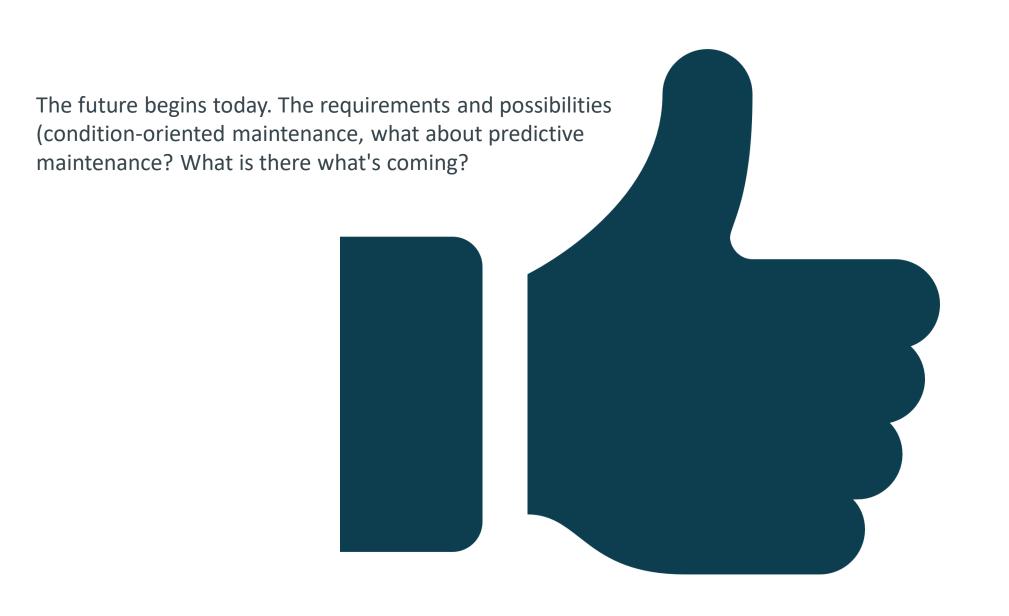


Why should maintenance processes be integrated into business processes?

Art: facade element
manufactur: priedschüfeld
modell: SGT-200
installation date: 10.11.2016
Warranty: 09.11.2019
operating hours:
Serial #: SN3457SGT34578







DEVELOPMENT PHASES FROM INDUSTRY 1.0 TO INDUSTRY 4.0



Reactive Maintenance

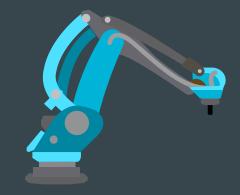


Preventive Maintenance

Condition based Maintenance

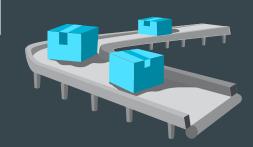
Predictive Maintenance

Second Industrial Revolution: electric energy makes mass production possible (Beginning of the 20th century)



Fourth Industrial Revolution: Internet of Things makes networked manufacturing possible (Since the 21st century)

First Industrial Revolution: steam power makes mechanical production possible (Late 18th century)



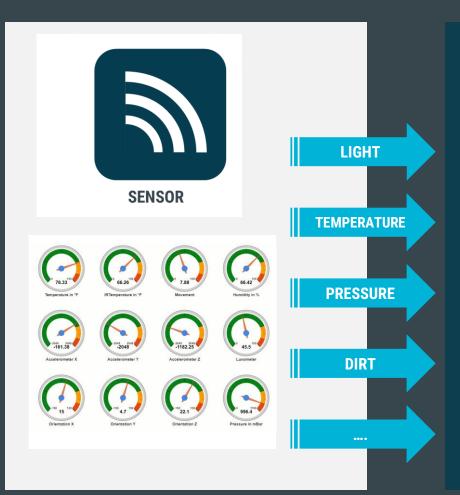
Third Industrial Revolution: IT and computer technology allow for more manufacturing automation (Beginning of the 1970s)

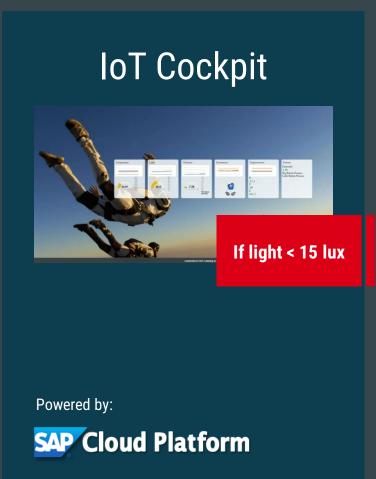




AUTOMATED MAINTENANCE & SERVICE PROCESSES









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Features and functions of Release 1709

Modern Enterprise Asset Management from the Cloud











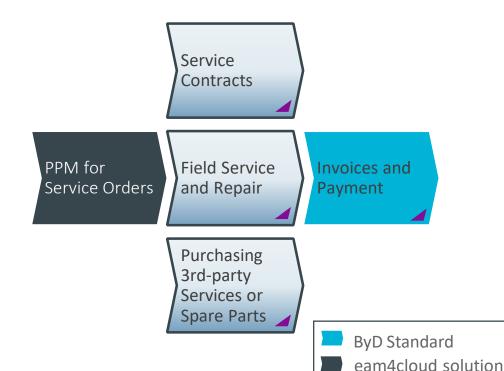


Maintenance Object

Equipment

Manufacturer Type

Service Provider Scenario



eam4cloud Extension of ByD STD

Relevant to financials

Modern Enterprise Asset Management from the Cloud













Maintenance Object

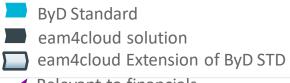
Equipment

Manufacturer Type

Inhouse Maintenance Scenario



Purchasing 3rd-party Services or Spare Parts



Relevant to financials

Modern Enterprise Asset Management from the Cloud



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Release 1709 – enhancements

- HTML 5 Readiness
- Preventive Measures
- Service Task Planning
- Service Order Automization by Runs
- New technical attributes

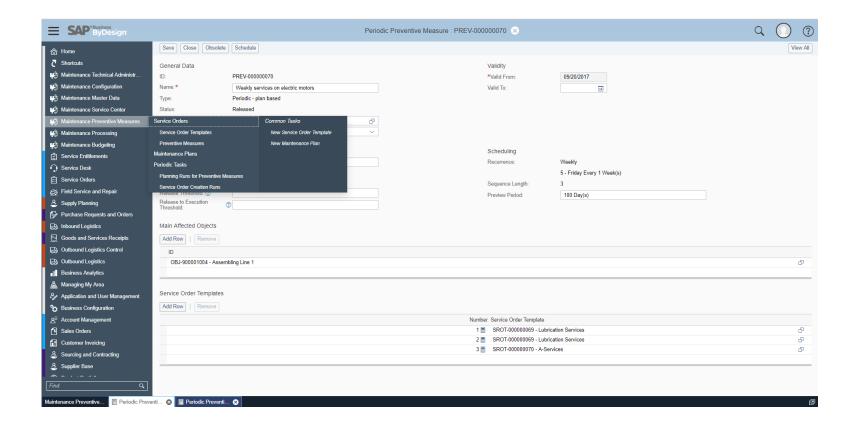




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HTML 5 Readiness

 All WoC views of the eam4cloud are usable under HTML5

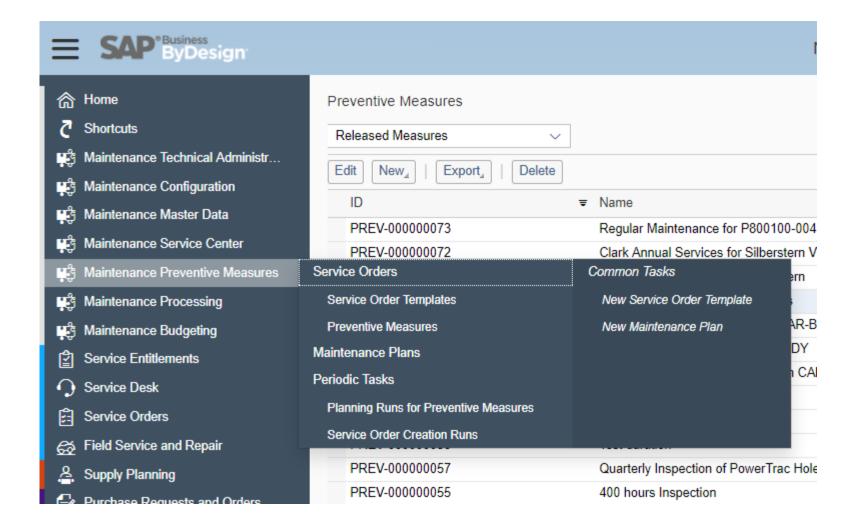




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Preventive Measures

Relevant WoC and View's

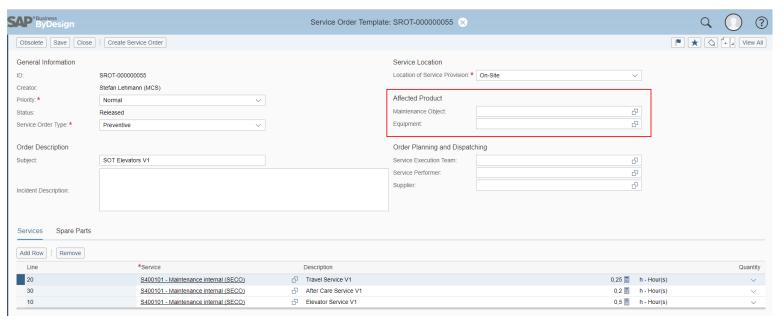


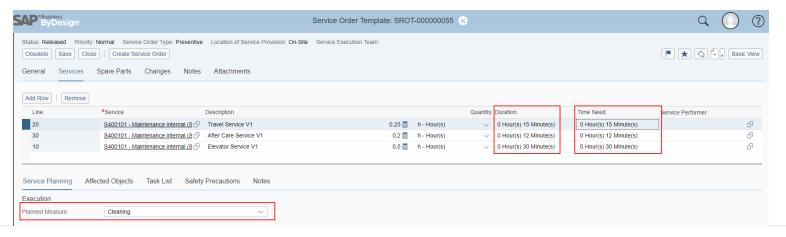


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Service Order Template

- If Maintenance Object is assignment is mandatory is controlled by scoping question
- More Planning fields
 - Duration
 - Time Need
 - Planned Measure

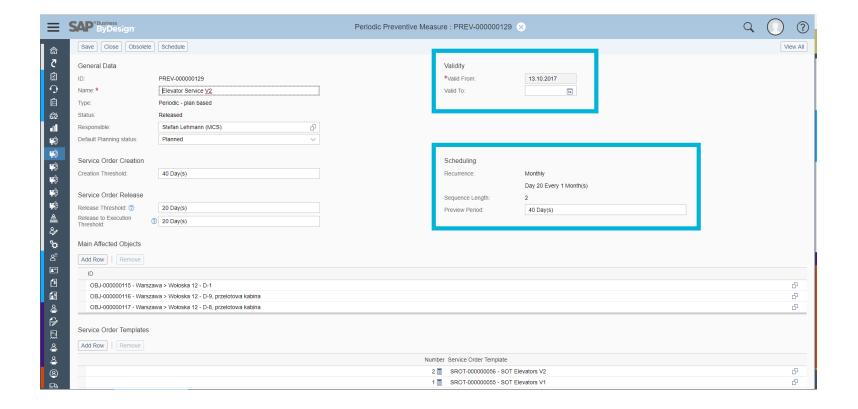


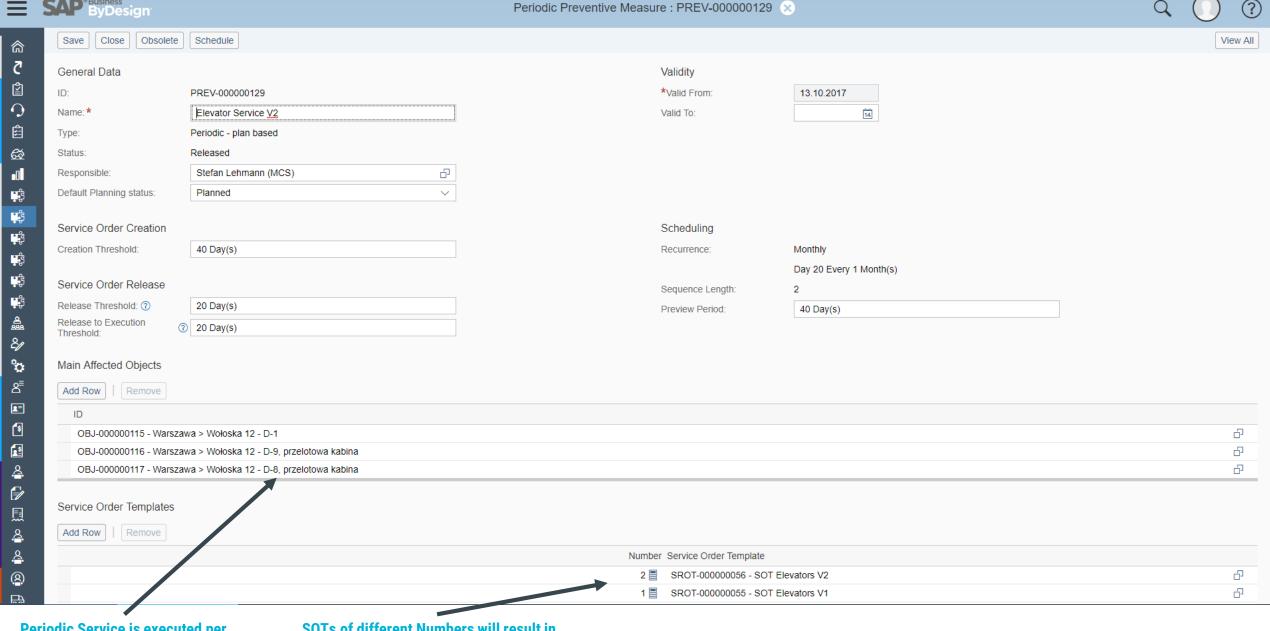




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- Validity Period controls when the PPM is going to be picked-up by "Planning Runs for Preventive Measures"
- Periodic Scheduling (daily, weekly, monthly, yearly)
- Generates "Service Tasks" representing the dates for a specific service





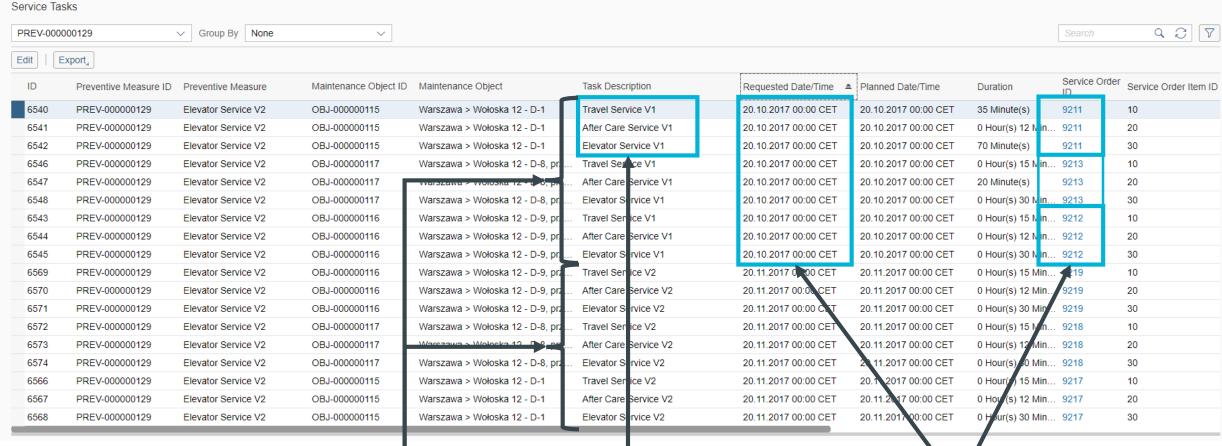
Periodic Service is executed per each Maintenance Object

SOTs of different Numbers will result in individual service orders. Same number will combine SOT-items in one common service Order

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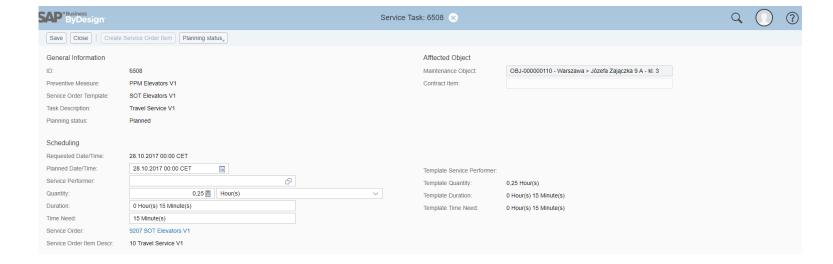
In October V1 services are executable (template sequence number "1") an in November V2 service are executable Three services according to the three items within the service order template

Three service orders in October according to the three main Maintenance Objects



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- Service Tasks are made for planning purposes
- Generate Service Tasks for the far future
- Generate service orders out of service tasks only for the near future

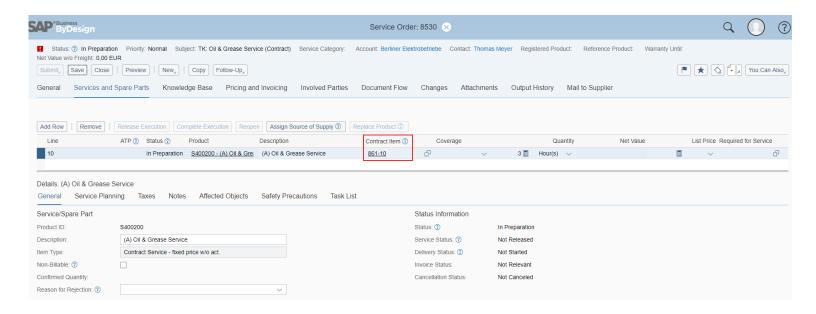




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- The Maintenance Object assignment controls how many service orders are generated in the end
- For each Maintenance Object of the PPM it is possible to **assign a contract position**
- When the system generates a service order it tries to set this contract position to each service order item
 - Will work if contract item is valid for the planned date of the service position and if service is covered by contract item
 - If not applicable the contract item is not set

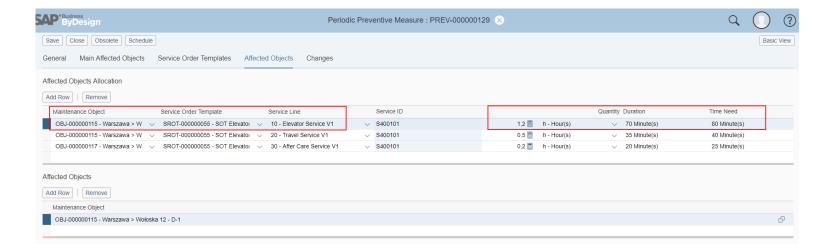






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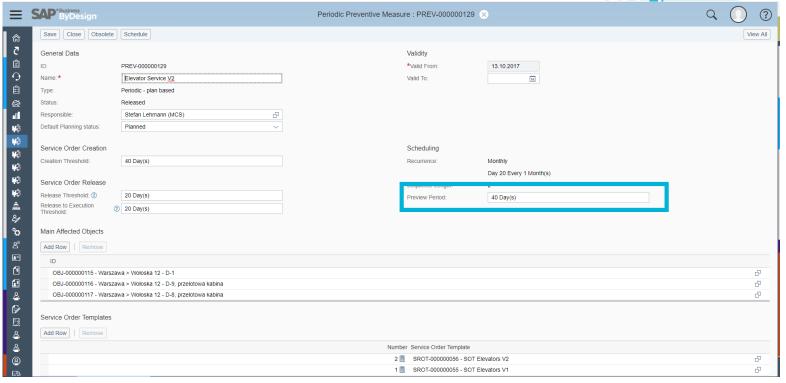
- It is possible to overrule planned service durations by the PPM
- Combination of template service and Maintenance Object could determine other work durations

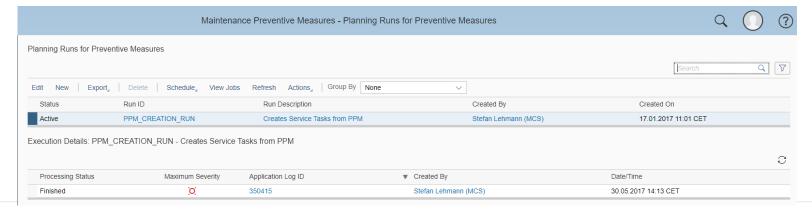




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- "Preview Period" controls how long the Planning Runs for Preventive Measures looks in the future for generating Service Tasks
- Planning Runs for Preventive
 Measures is not configurable. It
 always picks-up ALL released
 Preventive Measures, checks the
 preview period and the amount of
 existing tasks. If necessary the run
 creates or deletes tasks.
- By shrinking the preview period and schedule it is possible to delete Service Tasks (but not if there are released Service Orders assigned to the task)

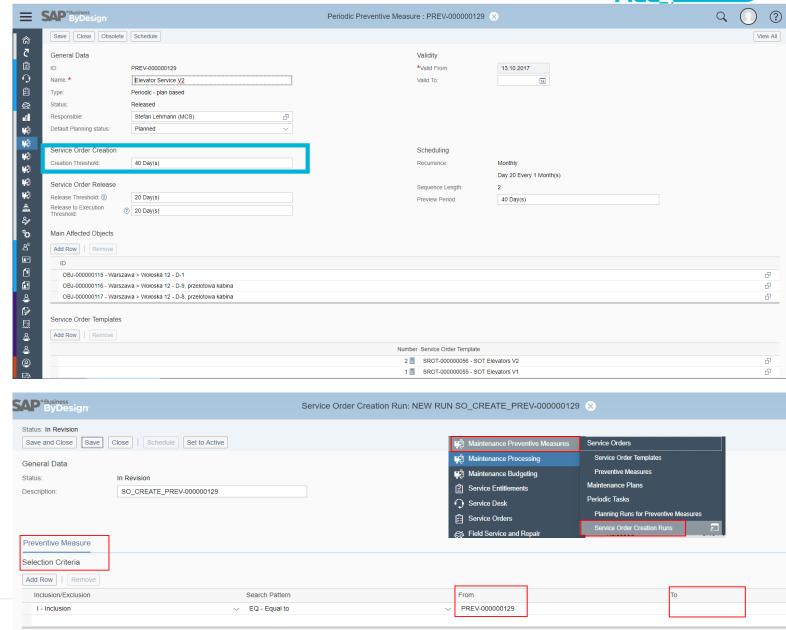






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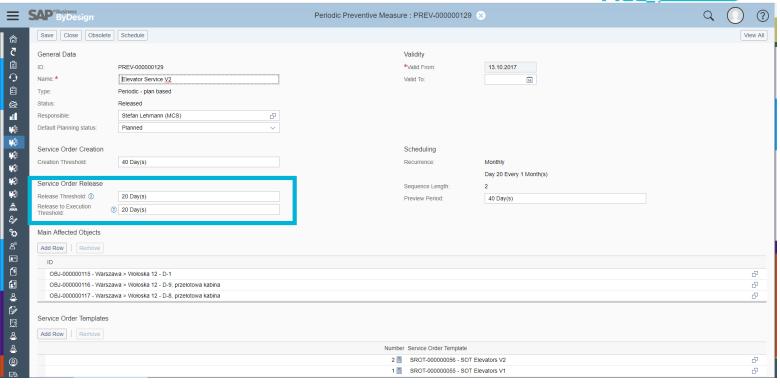
- "Creation Threshold " controls how long the Service Order Creation Run looks in the future for generating Service Orders out of Service Tasks
- Service Order Creation Run for Preventive Measures is configurable. It is possible to have multiple runs for dedicated ranges of PPM-IDs
- Provides better control over specific PPMs, e.g. temporarily switch-off one PPM run
- Parallel Jobs possible => Better performance

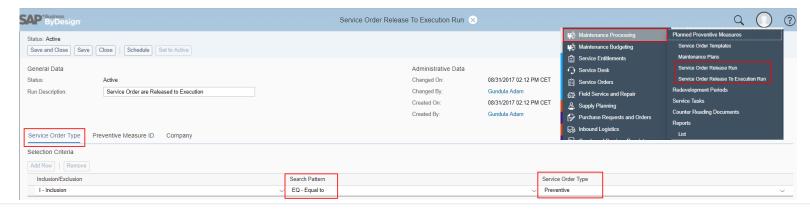




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- "Release Threshold " controls how long the Service Order Release Run or the Service Order Release to Execution Run look in the future for releasing Service Orders
- Service Order Release (for Execution)
 Runs are configurable. It is possible to have multiple runs for dedicated ranges of Types, PPM-IDs or companies
- Provides better control over specific PPMs, e.g. temporarily switch-off one PPM run
- Parallel Jobs possible => Better performance



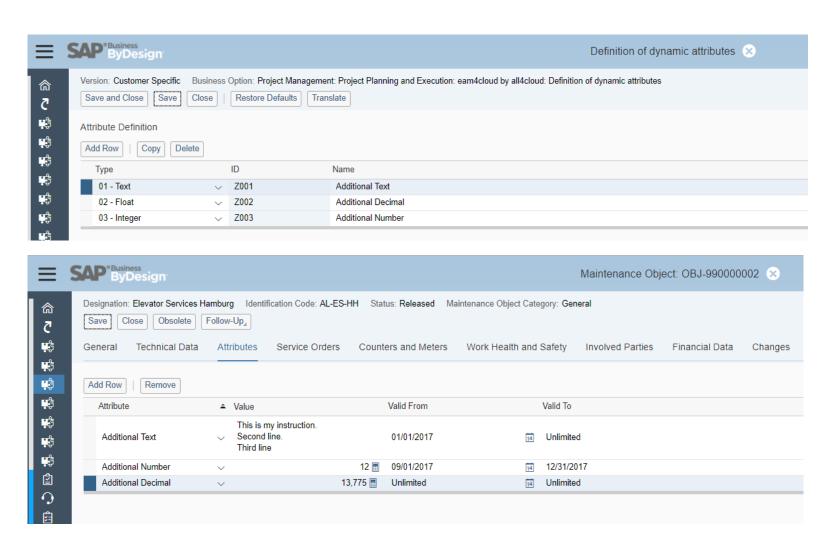




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Configurable Attributes

- Additional functionality to add technical attribute to Maintenance Objects
- FT task "Definition of dynamic attributes"
- Attribute value has optional time dependence
- File Upload possible
- Not usable in OWL query

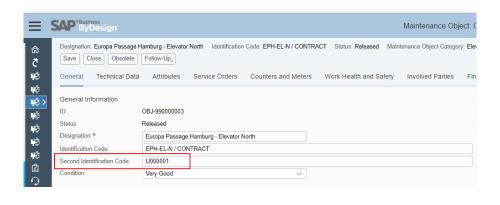


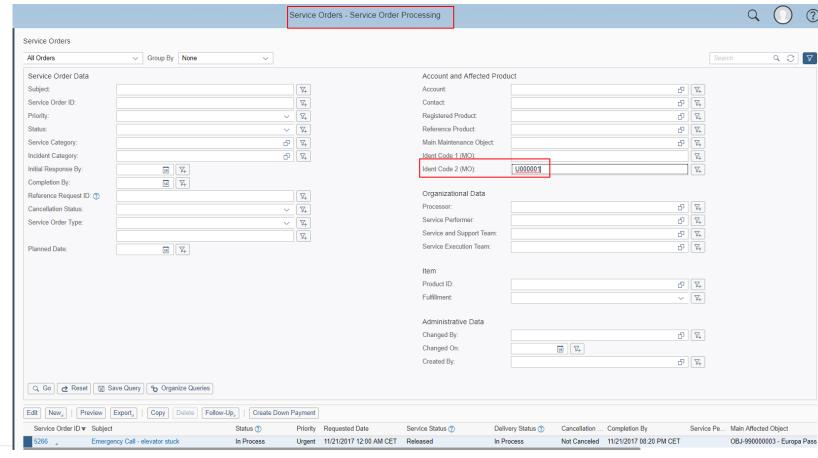


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Second identification Code

- Identifies Maintenance Objects
- Usable for autocompletion
- Search criterion in service order OWL



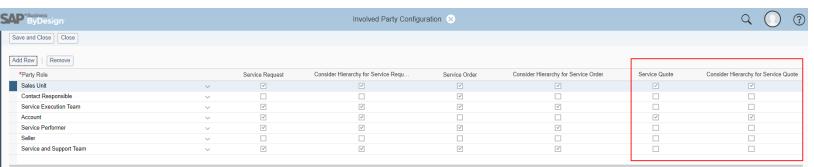


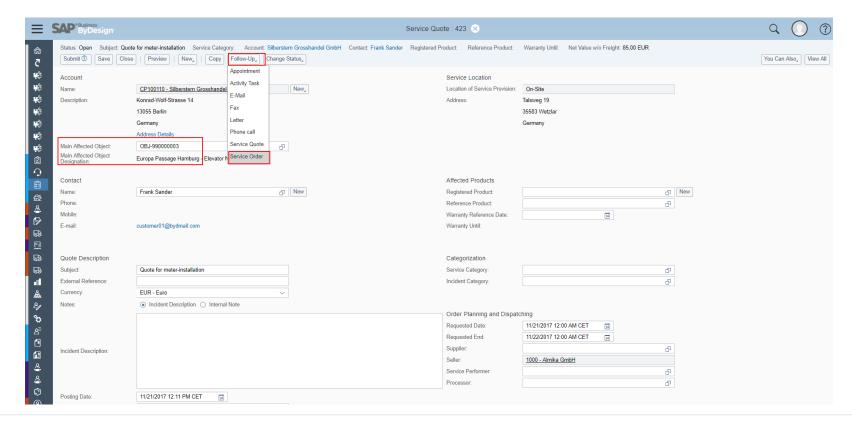


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Service Quote -> Service Order

- If a Follow-up Service Order is created from the Service Quote the relevant data are copied over, esp the Maintenance Object.
- In case that the Maintenance Object is covered by a contract but the customer of this contract is different from the customer of the Quote, than the customer of the Quote is used for the Service Order.
- Involved party flow applies as well. Configuration possible by "Maintenance Configuration / Involved Party Configuration"



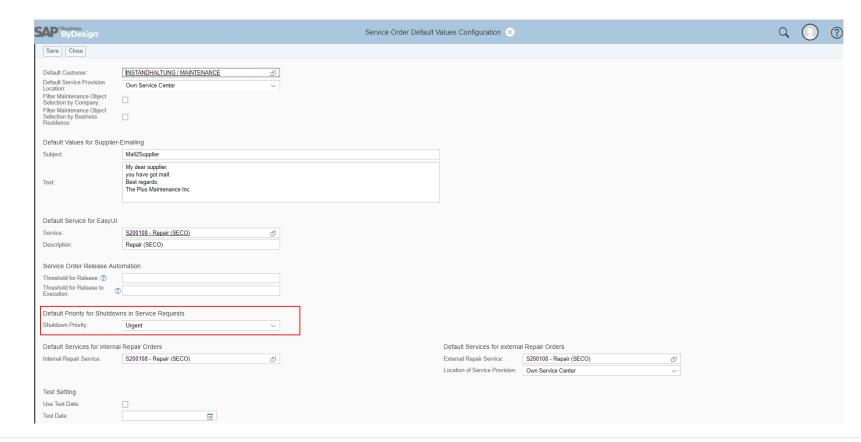




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Shutdowns

- Default Priority Configuration
- Service Request shutdown indicator and date
- Service Confirmation shutdown duration

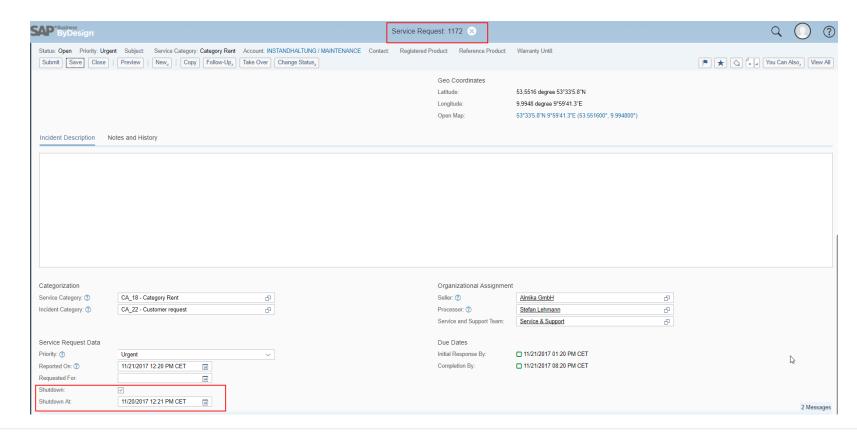




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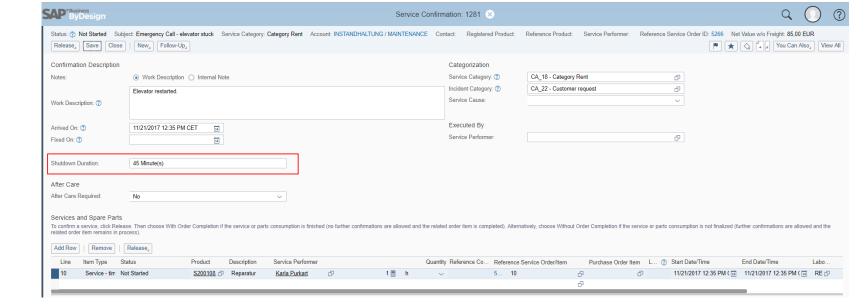




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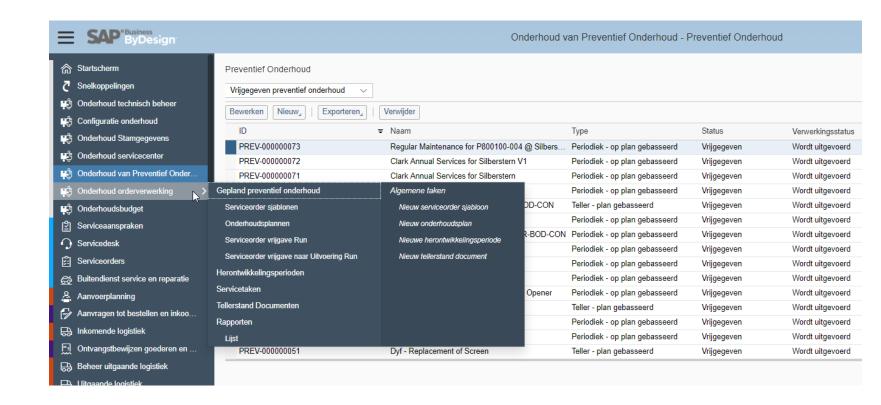




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Languages

- German
- English
- Dutch
- Polish
- <French> under discussion
- <Chinese> under discussion



How to configure Runs in ByDesign



Important note (ByDesign standard, not eam4cloud specific)

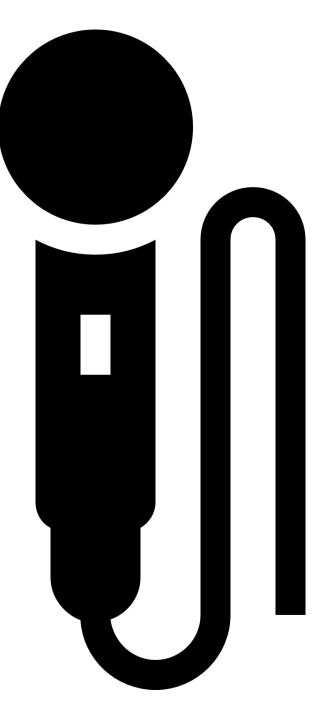
If a user "U1" configures a run that creates business objects the following facts have to be considered

- U1 is stored as the creator of the business objects
- If U1 is blocked or terminated the run will no longer work! I.e. the run is coupled with the validity of the user.

Consequences:

- Runs have to be configured by the customer's key users and not by implementation partner's users.
- Be careful when blocking or terminating a user that is used in runs

Can you **answer** me



Ask us your questions!!

