

Dynamic Assignment of Signature Strategies

XStep Café
April 13, 2016

The screenshot displays the 'Choice of Weighing System' dialog box in the SAP XStep Café application. It features a 'Selected Signature Strategy' section with a dropdown menu set to 'Sicrba (Medium)' and a 'Select Signature Strategy' button. Below this, a 'Digital Signature: System Signature with Authorization by SAP User ID/Password' window is open, showing fields for 'AGrp Dig.Sig.' (set to 'AG_WORK'), 'Signatory' (set to 'DITTES'), and 'Password' (masked with asterisks). The background of the slide shows a large, flowering cherry tree in a garden.

Public

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Dynamic Assignment of Signature Strategies

Motivation

Assignment of Signature Strategy during XStep Maintenance

- Chosen signature strategy must be defined and gets fixed
 - No exchange in PI Sheets/Electronic Work Instructions (EWI)

Consequences

- Duplicate process instruction content
 - If business process requires usage of different signature strategies
 - Usage of weighing system A: Cross-check (Worker, Shift Lead)
 - Usage of weighing system B: Cross-check (Worker, QM specialist)
 - Usage of weighing system C: Cross-check (Worker, QM specialist, Shift Lead)
- Obsolete content in PI Sheets/EWI
 - Impact on performance (loading/processing)
 - Decrease in maintainability

The screenshot shows the SAP Signature Maintenance dialog box with the title "<Signature>". It has four tabs: "Value Input", "Default Value", "Input Validation", and "Error Handling". The "Value Input" tab is active. Under the "Properties" section, the "Description" field contains "Cross-Check" and the "Characteristic" field contains "PPPI_SIGNATURE". Under the "Additional Data" section, there are three fields: "Signature Strategy", "Signature Mode", and "Authorization". The "Signature Strategy" field is highlighted with a red rectangle and shows a dropdown menu with three options: "Only one signature", "Signature strategy 2", and "R/3 user/password check for PI sheet".

Dynamic Assignment of Signature Strategies

Concept – XStep Maintenance

Concept (BAdI):

- **XStep maintenance**

- Assign a placeholder signature strategy
- Define XStep parameter
 - Gets valuated with selected signature strategy
 - Uses dedicated characteristic
(custom characteristic/PPPI_SELECTED_SIGN_STRAT [new])
- Define dynamic function call that sets selected signature strategy
 - Based on business process conditions

Important:

Signature & dynamic function call belong to same process instruction
XStep parameter belongs to parent XStep of process instruction

Additional Data	
Signature Strategy	Dynamic Signature Strategy (SAP)
Signature Mode	Only one signature
Authorization	R/3 user/password check for PI sheet UD_2_EYE UD_4_EYE UD_6_EYE

Name	Description	Category	Characteristic	Tabular
LV_SEL...	Selected Signature Strategy	Local	PPPI_SELECTED_SIGN_STRAT	<input type="checkbox"/>
LV_WS...	Chosen weighing system	Local	ZUD_WEIGHING_SYSTEM_OPTION	<input type="checkbox"/>

Function ZUD_GET_SIG_STRAT_FROM_WS					
Function Module: ZUD_GET_SIG_STRAT_FROM_WS					
Short text:					
Function Module Parameters					
Short text	Type	Val. Mode	Ma...	Ta...	Value
LV_WS_OPTION	Export	Parameter	<input checked="" type="checkbox"/>	<input type="checkbox"/>	LV_WS_CHO
LV_WS_CHO	Import	Parameter	<input checked="" type="checkbox"/>	<input type="checkbox"/>	LV_WS_CHO

Dynamic Assignment of Signature Strategies

Concept – Processing of PI Sheets/EWI

Concept (BAdI):

- **Processing of PI Sheets/EWI**
 - Choose option
 - Determines signature strategy based on selected option
 - Values parameter (selected signature strategy)
 - Start signature process
 - Selected signature strategy is chosen

DEMO

The screenshots illustrate the process of dynamically assigning a signature strategy based on the chosen weighing system. The first screenshot shows the initial selection of a weighing system from a dropdown menu. The second screenshot shows the selection of 'Bizerba (Medium)'. The third screenshot shows the 'Select Signature Strategy' button being clicked. The fourth screenshot shows the 'Selected Signature Strategy' field populated with 'DITTES' and a 'PI Sheet: Work Step' dialog box open for digital signature.

Choice of Weighing System*
Mettler-Toledo (Small)
Bizerba (Medium)
Manual choice

Choice of Weighing System*
Bizerba (Medium)

Selected Signature Strategy

Choice of Weighing System*
Bizerba (Medium)

Selected Signature Strategy

Choice of Weighing System*
Bizerba (Medium)

Selected Signature Strategy
DITTES

PI Sheet: Work Step

Digital Signature: System Signature with Authorization by SAP User ID/Password

AGrp Dig.Sign. AG_WORK

Signatory DITTES Uwe Dittes

Password *****

Miscellaneous

Wrong SXS Version Assigned during Manufacturing Order Creation

During order creation **always** the proper SXS versions of SXS reference nodes are exploded

Strange phenomenon:

- Wrong SXS Version Assigned during Manufacturing Order Creation
 - Appeared very, very rarely, hardly to reproduce
- Prerequisite for phenomenon:
 - Manual reset and re-explosion of SXS references in temporary order (order number: %000..01)
 - Not released SXS version exists that overlaps with current released SXS version
 - System **guarantees** that at a given key date only one SXS version exists that is released and approved
- Solution:
 - Remove SXS versions that are not needed anymore
 - Apply SAP note [2296659 - Wrong SXS Version Assigned during Manufacturing Order Creation](#)



Thank you