# DeceSoft

Software Add-on Solutions for SAP Application Lifecycle Management

### Introducing DeceSoft

#### Who we are

Decesoft is an innovative and customer-centric software development company based in Germany with development centers in Europe.

We build add-on products in the SAP environment that extends SAP solutions and do not compete with SAP.

#### What is special about us

- DeceSoft's add-on products extend SAP Application Lifecycle Management
- 2. All products are built via co-innovation mode with pilot customers
- 3. We develop software for our customers with an agile approach focussing on fast and high-quality deliveries



### SAP Solution Manager and DeceSoft are a winning team!







#### **SAP Solution Manager**

SAP Solution Manager is the well-established ALM platform of SAP. It is an on-premise solution to support on-premise applications as well as hybrid landscapes. The rich functional portfolio supports all aspects of ALM. Customers can select those functions they require and they can configure them individually to their individual needs.

#### DeceSoft

DeceSoft provides add-on solutions for SAP Solution Manager 7.2 and Focused Build. DeceSoft software products complement and extend functionality provided by SAP Solutions to solve complex customer challenges.

### DeceSoft Partner









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### **DeceSoft Solutions**



Test Data Management

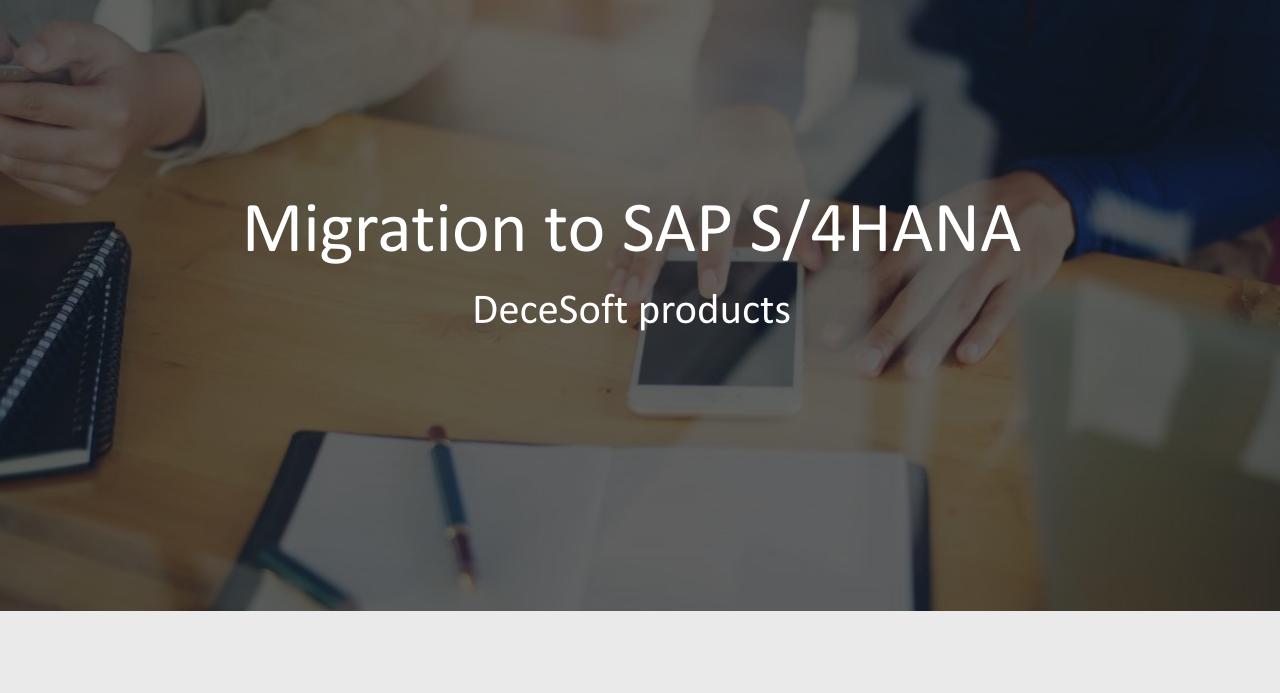
**Usage Analytics** 

Migration to SAP S/4 HANA

**Business Process Analysis** 

**Custom Code Management** 

**Project Monitoring** 



### SAP and DeceSoft applications to support Migration to S4H



#### SAP Tool examples

- SAP Readiness Check for SAP S/4HANA
- ABAP Test Cockpit
- Simplification Item Catalog
- SAP Fiori Apps Reference Library
- SAP Solution Manager Custom Code Lifecycle Management



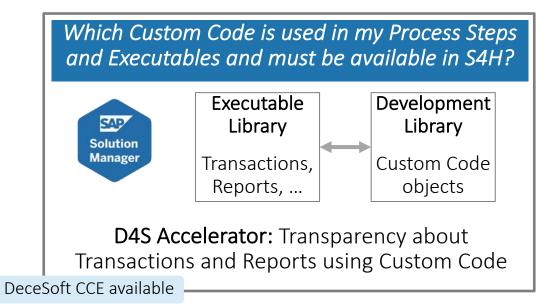


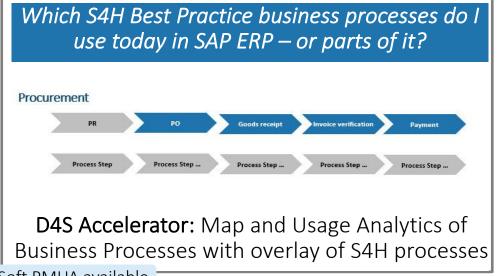
D4S Add-on products

- 1. DeceSoft D4S products **complement** SAP tools no competition!
- DeceSoft D4S Usage Analysis of transactions / reports executed by customer plus analysis of used technical objects ...
- 3. ... is leveraged by D4S to provide **important details** and **decision criteria** about Business Processes, Process Steps and Executables relevant for transition to SAP S/4HANA.

# DeceSoft add-on products for Migration to S4H







Which discontinued SAP functionality impacts my currently used transactions and reports?

Simplification Item→Transaction Transaction T-1, T-3, ...

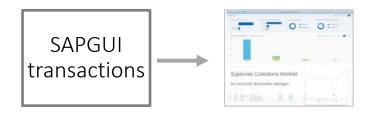
SAP Transactions/Reports T-5, T-9, T-20, ...

Custom Transaction / Report Z-20, Z-25, Z-Report-26,

**D4S Accelerator: Used** Executables / Function Modules impacted / discontinued in S4H

planned DeceSoft product

Which Fiori Apps can I use in S4H to replace my currently used SAPGUI transactions and reports?



**D4S Accelerator:** Fiori Apps successors for currently used transactions



# DeceSoft Custom Code used by Executables (CCE)



Motivation



1

Custom Code - where used?

2

**Decision making** 

3

**Usage Analytics** 

4

Many SAP customers have developed more than 10.000 Custom Code objects in their SAP ERP systems SAP Customers have no transparency which (important) Business Processes, Process Steps and Executables contain Custom Code

Which subset of Custom Code should be made available again in S/4HANA

How often was a Process Step used in the past that contains Custom Code?



### DeceSoft Custom Code used by Executables (CCE)

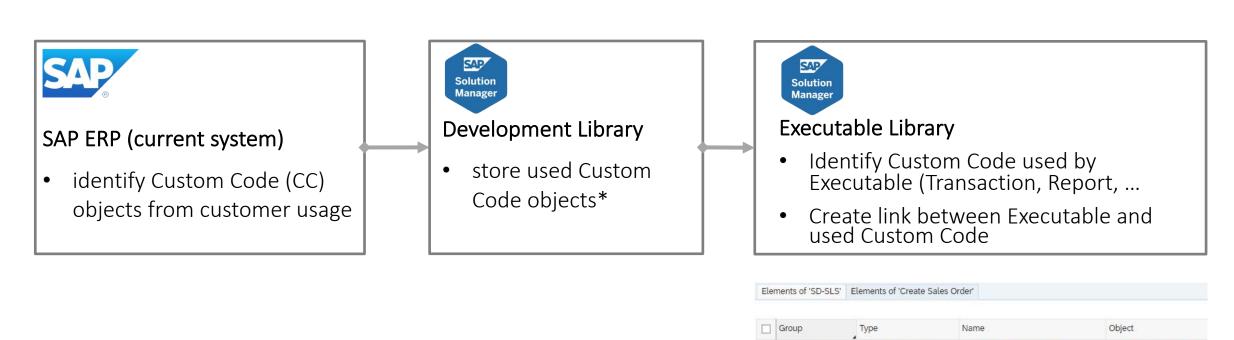
Functionality (1)



**Part 1:** Identify used Custom Code, setup Development Library in SAP Solution Manager 7.2 and create link between Executables of Exe-Lib with Custom Code objects of Dev-Lib

Test Document

Create Sales Order - VA01 Generic



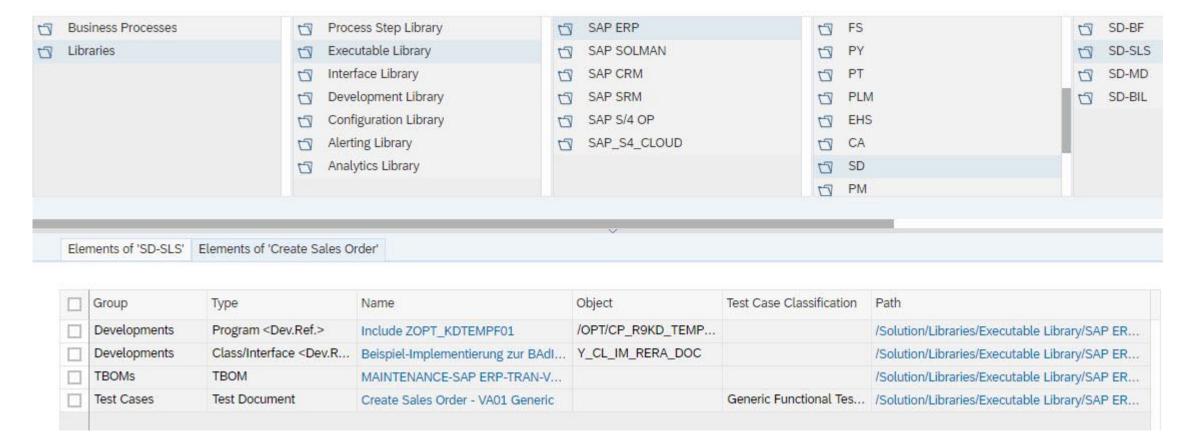
<sup>\*</sup> Standard functionality available in SAP Solman - tile Solution Administration – Library Generation Cockpit



### DeceSoft Custom Code used by Executables (CCE)

Functionality (2)

Result in SAP Solution Manager – Executable Library with linked custom code. Example: Create Sales Order (VA01).







Functionality (3)



**Part 2**: Usage Analytics of Transactions, Reports that contain Custom Code

Drilldown to Custom Code objects and download to MS Excel

Executable	SAP Application Component	Process Step	Usage last n months	No. of contained Modifications	Custo	contained m Code jects	No. of used user exists
Transaction T1	SD-SLS	Create SO*	1,5 Mio	0	1	.50	1
Transaction T2	Custom						
Report R1	Custom						
					Туре	<b>V</b> Object	
					Include	Z	
					Function	//F1	
					Class		

<sup>\* 1:</sup>n relationship Exe to PS is shown

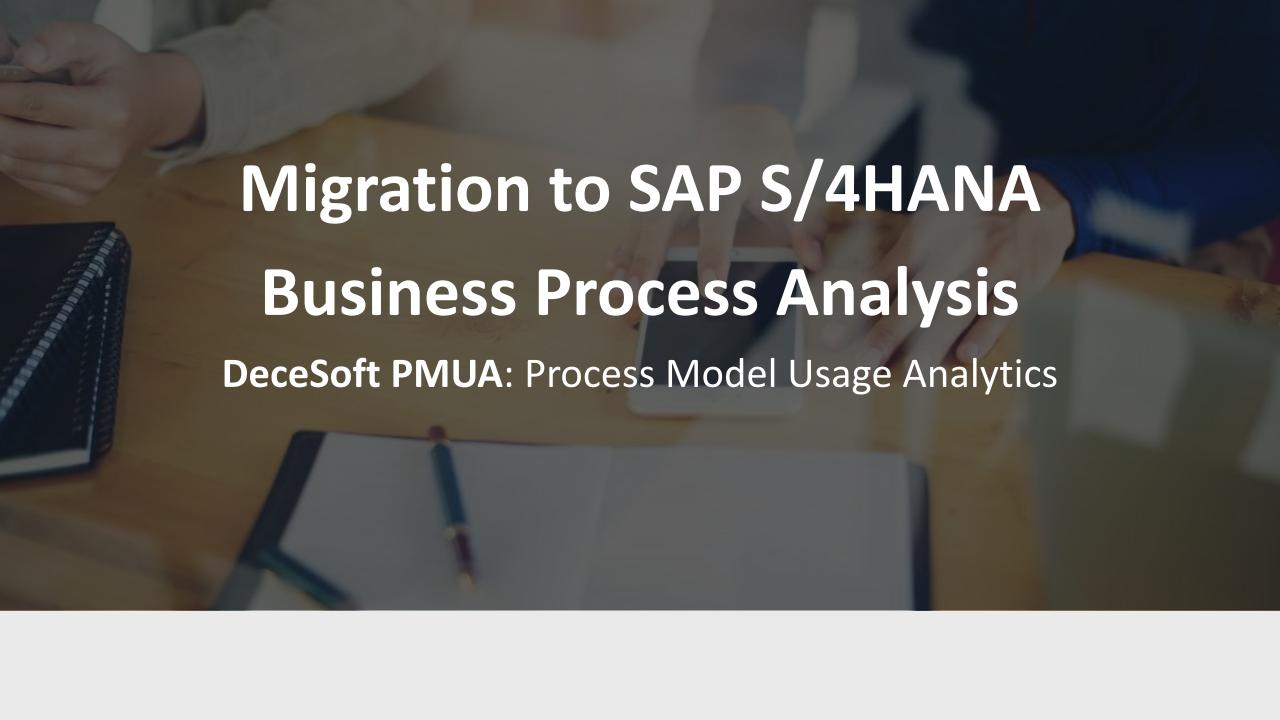
### DeceSoft Custom Code Management

#### Transparency about Custom Code used by Executables

#### Summary and Business Value

- 1. Identify and differentiate between important custom-code that your organisation wants to keep versus discontinue when migrating from SAP ERP to SAP S/4HANA.
- 2. Analysis of used custom code by transactions and apps when using SAP ERP or SAP S/4HANA.
- 3. DeceSoft CCE highlights transactions and apps using custom code not just the custom code objects without the context of the using transactions and apps.
- 4. Usage analysis provides insights into usage frequency of transactions and apps containing custom code







Motivation



1

What are the Best Practice business processes offered in SAP S/4HANA?

# Overlay existing with new Processes

2

- Which S4H business processes do we use (partially) today?
- We have defined our own Business Process
   Models – show me the overlap with S4H processes

#### **Usage Frequency**

3

How often are my Business Processes / Process Steps used today?

# S4H transition problems

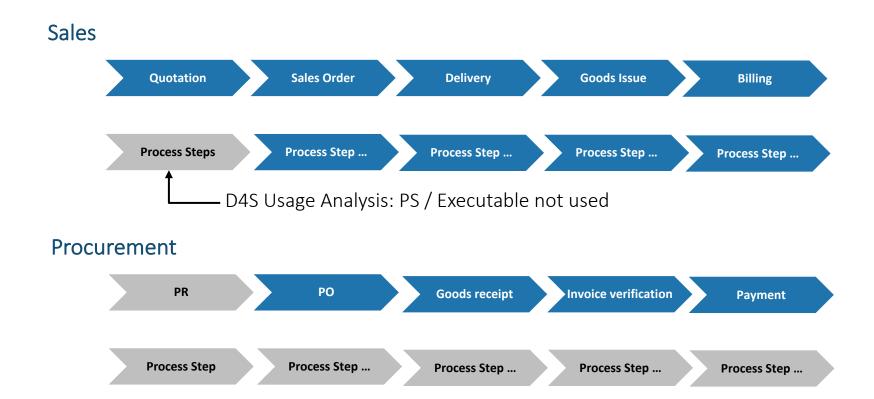
4

- Which of my currently used Business Processes contain Executables with S4H problems?
- Which Executables used in process steps have been discontinued?
- Which Executables used in process steps include discontinued SAP features and require adjustments or replacement?



Example

Usage Analytics: leverage process models and analyze which parts are used by customer today





Process Model sources

Starting point for Analysis: select Business Processes

#### **Alternative Sources of Business Processes**



Business Processes defined by customer in SAP SolMan 7.2 (BP, PS, Executables) for current SAP ERP



Business Processes defined by SAP Best Practices



Customer defined
Business Processes in
MS Excel format

SAP Model Company

Customer has purchased Business process models of SAP Model Company. BP Content upload possible



# DeceSoft Process Model Usage Analytics (PMUA)

Functionality (1)

Analysis Grid with multiple options for filtering, xlsx download, ...

Business Area	Business Process	Process Step	Executable	Executable occurances		
Sales						
	Order to Cash 1				Optional int with DeceSof	t DTD and
		Sales Quotation	VA21	900,000	DBP for Proc variation a	•
		Sales Order	VA01	2 Mio		1.
		Delivery		n times	Order Type	Usage
Procurement						frequency
					OR	1,8 Mio
	Procure to Pay 1				RO	100,000
		Purchase Requisition	T11	no		
		Purchase Oder	T12	m times		
Cus	stomer selected Busi	<b>γ</b> iness Process Model		custom-specific Analysis		



Integration with DeceSoft D4S



DeceSoft D4S offers integration with additional D4S Accelerators providing additional insights

Business Area	Business Process	Process Step	Executable	Executable used
Sales				
	Order to Cash 1			
		Sales Quotation	VA21	Х
		Sales Order	VA01	Х
		Delivery	VL01N	Х
Procurement				
	Procure to Pay 1			
		Purchase Requisition	T-Code	no
		Purchase Oder	T-Code	Х

Executable contains Custom Code	Exe with discontined SAP Function Modules in S4H	Executable discontinued in S4H
X	3	
		Х

### DeceSoft Process Model Usage Analysis

Helps you analyze to-be business processes and process models by overlaying the actual usage of the executables (transactions, reports, ...) in your current SAP ERP or SAP S/4HANA system

#### Summary and Business Value

- 1. SAP customer selects a set of Business Processes defined by his Process Owners in MS Excel or SAP Solution Manager DeceSoft PMUA analyses which parts of them are partially in use in the current ERP or S/4HANA system
- 2. SAP customer selects Business Processes provided via SAP S/4HANA Best Practice content – DeceSoft PMUA analyses which parts of them are partially in use in the current ERP or S/4HANA system
- 3. SAP customer selects a combination of custom defined target processes and SAP Best Practice content DeceSoft PMUA analyses which parts of them are partially in use in the current ERP or S/4HANA system
- 4. Overlay between currently used SAP Transactions with Business Process models to identify usage areas as well as gaps
- 5. Additional insights through integration with other Decesoft applications to display problematic process steps or executables







### **DeceSoft Progress Monitor**

Monitor status and progress of your SAP Solution Manager – Focused Build projects

#### **SAP Solution Manager**

- Solution Readiness Dashboard
- Report: Requirements Management
- Report: Mass Change Operations

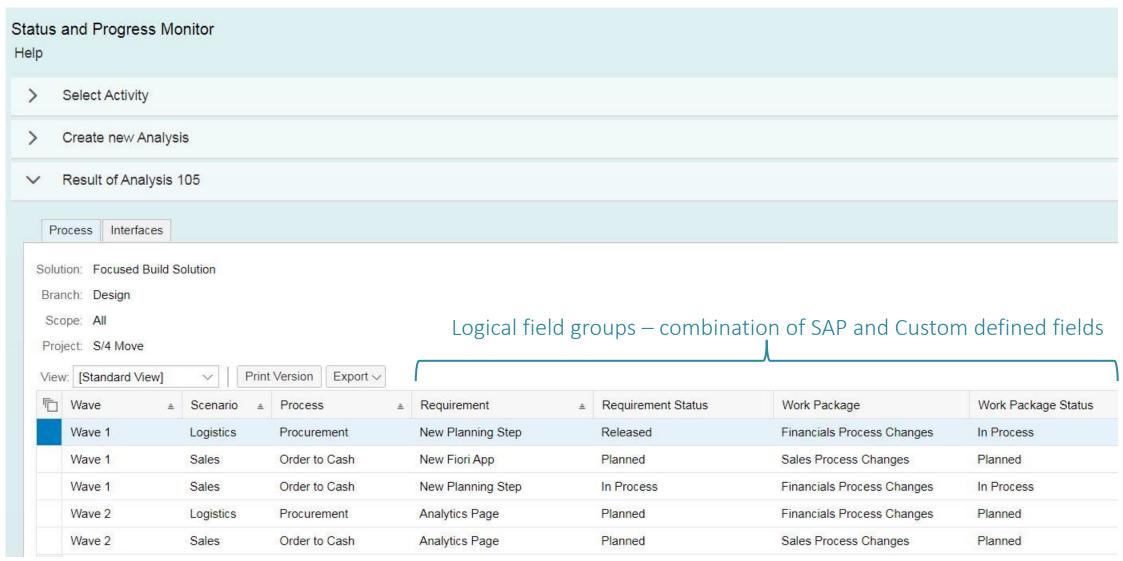
#### **DeceSoft Progress Monitor**

- Comprehensive status view for Focuses Build projects – combining SAP and Custom details
- Status and progress monitoring of Requirements and Work Packages by Business Processes
- Status and progress monitoring of Requirements and Work Packages for Interfaces used by Business Processes
- High flexibility through the ability to add SAP and custom fields by the customer into analysis views – extending SAP standard reporting capabilities
- Download of progress reports to MS Excel



### **DeceSoft Progress Monitor**

Monitor status and progress of your SAP Solution Manager – Focused Build projects



### **DeceSoft Progress Monitor**

The Progress Monitor helps you review the status and progress of your SAP Solution Manager – Focused Build projects and allows to include your individual set of SAP and custom fields in the analysis views

#### Summary and Business Value

- 1. Status and progress monitoring of Requirements and Work Packages by Business Processes
- 2. Status and progress monitoring of Requirements and Work Packages for Interfaces used by Business Processes
- 3. High flexibility through the ability to add SAP and custom fields by the customer into analysis views
- 4. Download of progress reports to MS Excel







#### DeceSoft Process Viewer

Complete view of your Business Processes in Solution Documentation

#### **SAP Solution Manager**

- Solution Documentation using column browser
- plus SolDoc reports

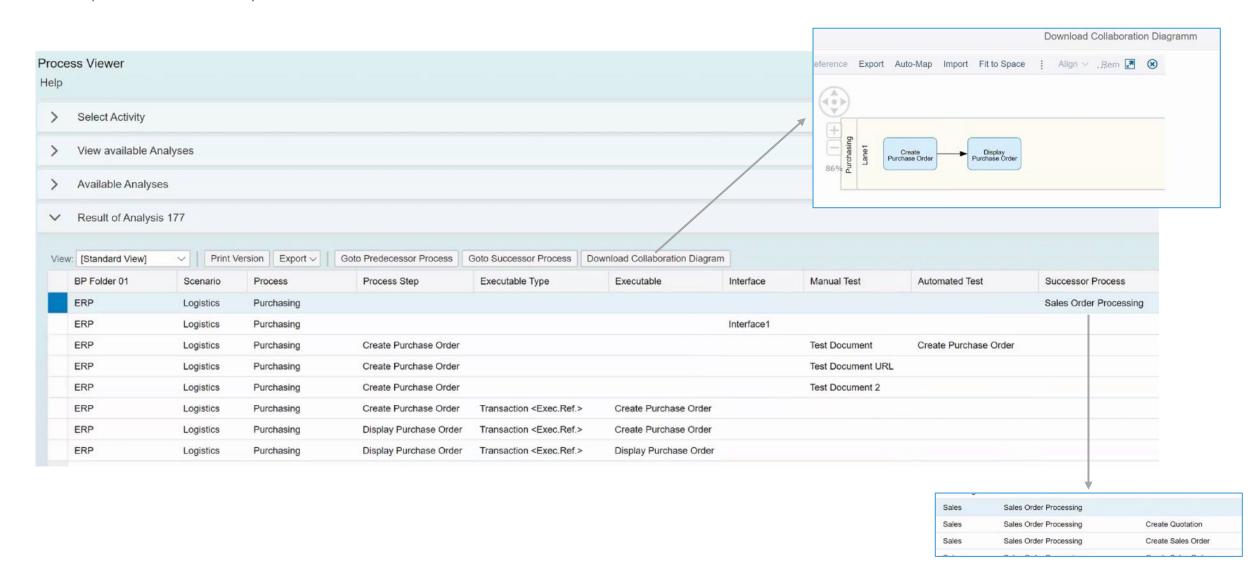
#### **DeceSoft Process Viewer**

- view all of your business in hierarchical layout
- shows predecessor / successor processes
- shows related process diagrams
- MS Excel download
- saved analysis for documentation of versions over time



### **DeceSoft Process Viewer**

Complete view of your Business Processes in Solution Documentation



#### DeceSoft Process Viewer

The Process Viewer helps you display hierarchical Business Processes defined in SAP Solution Manager plus related objects in a simple grid view including download capabilities

#### Summary and Business Value

- User wants to view the business process hierarchy containing multiple levels, folders, processes, process steps, test cases, interfaces, etc. in one grid view
- 2. User wants to see predecessor and successor processes
- 3. User wants to quickly view and print the associated collaboration diagrams
- 4. User wants to download the business processes, process steps, etc to MS Excel



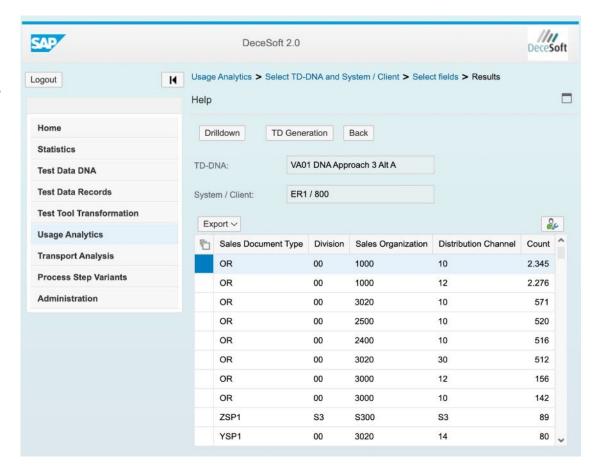






#### Functionality and customer benefits

- Analyse business document data in your quality assurance and production systems for usage patterns to derive suitable test data
- Review the occurence of posted business transactions by data field values (e.g. order type) to generate most-used process step variants in the Solution Documentation of SAP Solution Manager
- Extends the analysis of custom code by highlighting most frequently used executables



### DeceSoft UA - Usage Analytics



Analyze posting patterns of your Business Departments by any dimension

... and identify relevant test data for your regression tests





Example	Typical questions
Sales	Pricing Procedures used by Sales Document Types
	Top 10 Material Classes used in North America
	Top n Customers for Product P1
Procurement	Top Vendors of Material M1
	Number of POs posted using Incoterm 13 without PR

Select business transaction → read posted documents → Analyze → Drilldown → create Test Data

### DeceSoft UA – Usage Analytics





Thousands / millions of posted documents



//// Dece**Soft** 

Usage Analysis for selected business transaction

ABC	Order Type	Sales Org		Document Occurence	
А	OR	S-01		1.500.000	
		S-02		800.000	
В				75.000	
С				50.000	
	<b>↓</b>		<b>\</b>		
<b>Drilldown</b> comer, material group,			Test Data generation		

Generic

Flexible selection of important fields per business transaction – generic approach – no specific coding

Automatic

Automatic derivation of fields with dependencies – generic approach

Fast

Very fast retrieval of valid combinations from PRD, Pre-PRD or QAS systems

Drilldown

Drilldown by any dimension to analyze used fields

**Test Data** 

Automatic generation of test data for for manual or automated regression tests

### DeceSoft Usage Analyzer

Fast analysis of large amounts of posted documents to understand posting patterns of organization units, ABC ranking of used field combinations and for test data generation

#### Summary and Business Value

- Analyse business document data in your quality assurance and production systems for usage patterns to derive suitable test data
- Review the occurence of posted business transactions by data field values (e.g. order type) to generate most-used process step variants in the Solution Documentation of SAP Solution Manager
- Extends the analysis of custom code by highlighting most frequently used executables







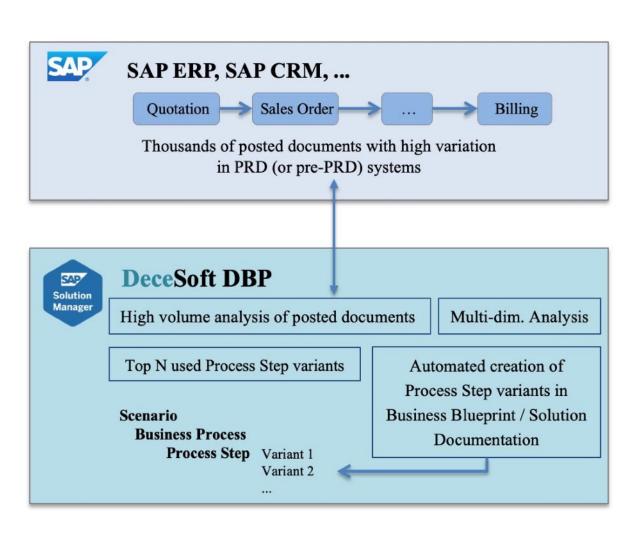
### DeceSoft DBP - Identification of Process Step Variants

#### **Functionality**

- DeceSoft high volume analysis of thousands of posted business transactions
- User driven usage analysis of posting patterns by any dimension to identify Top N Process Step variants
- Automatic extension of SAP Solution Manager
   Business Blueprint with Process Step variants

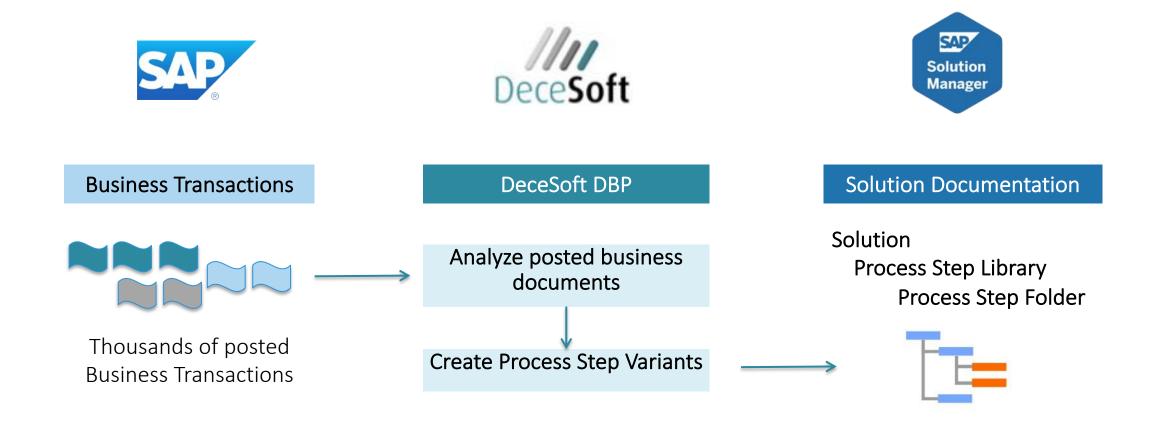
#### Benefits

- Fast and convinient analysis of posting patterns for any business unit, location, ...
- Generic approach SAP and custom transactions
- Fast documentation of most important Process Step variants in SAP Solution Manager



# DeceSoft DBP - Identification of Process Step Variants

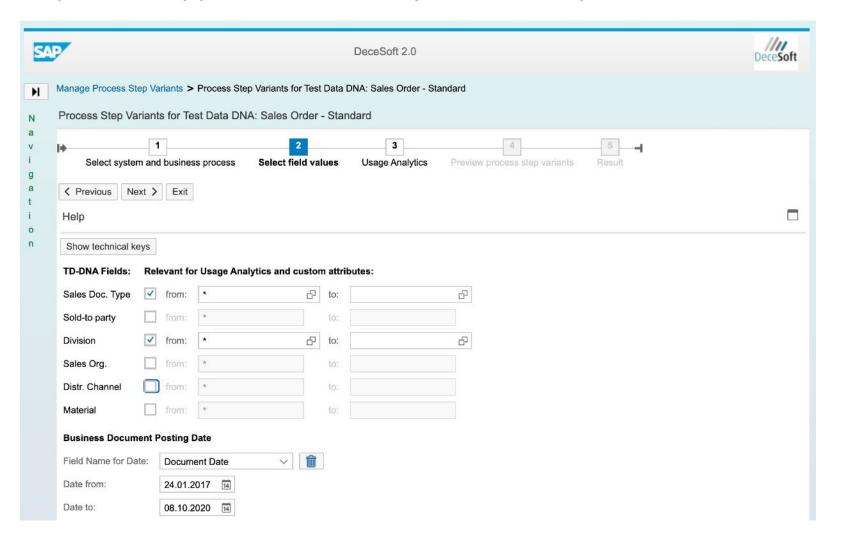






### DeceSoft DBP - Identification of Process Step Variants

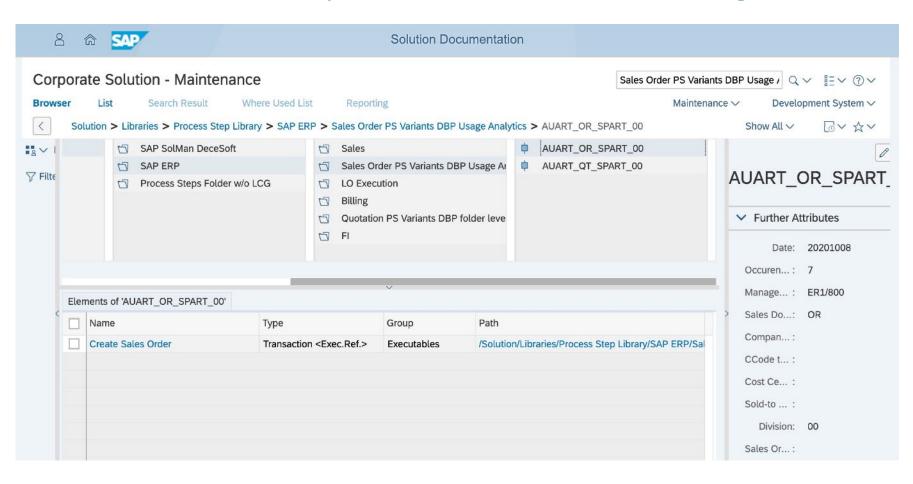
#### DBP step-based approach to identify Process Step Variants





# DeceSoft DBP - Identification of Process Step Variants

#### DBP created Process Step Variants in SAP Solution Manager – Solution Documentation



- Process Step Variant includes Executables
- DeceSoft generated custom-attributes, e.g. occurance, dimensions to define the PS variant, source system, date of analysis, ...

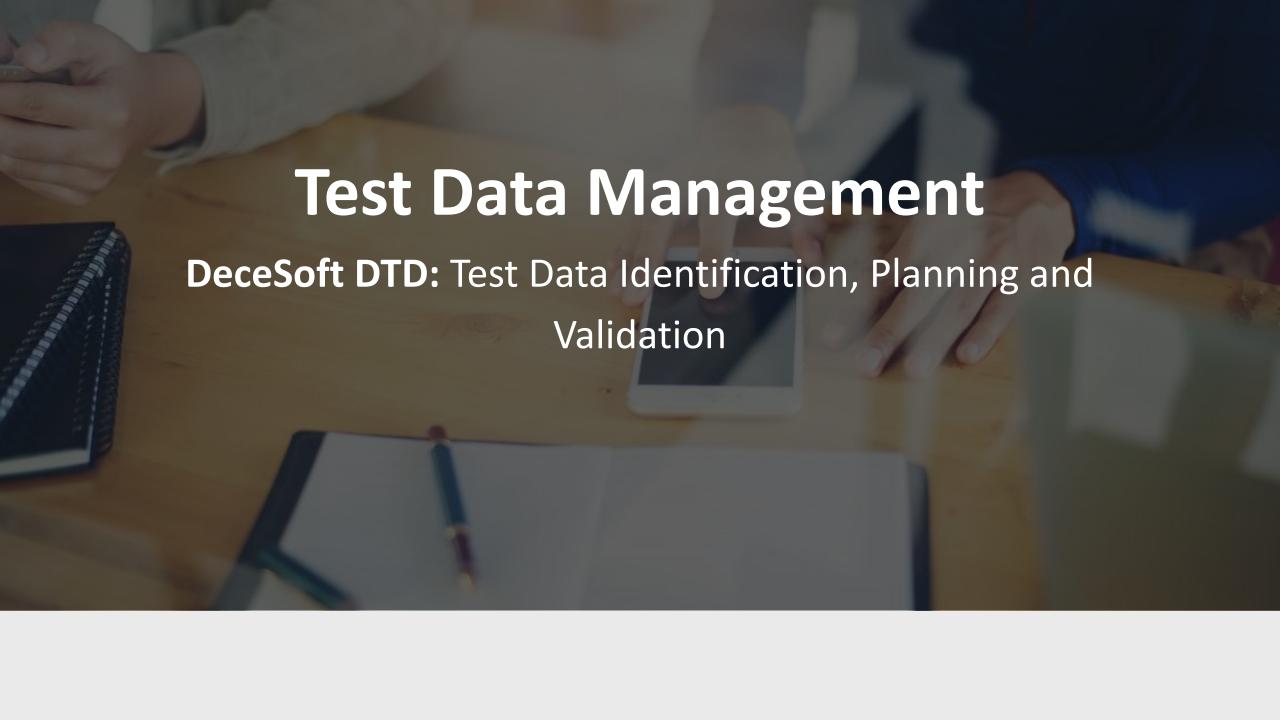
### DeceSoft Process Step Variants

Helps you discover important or often used process variants, when documenting your business processes using SAP Solution Manager

#### Summary and Business Value

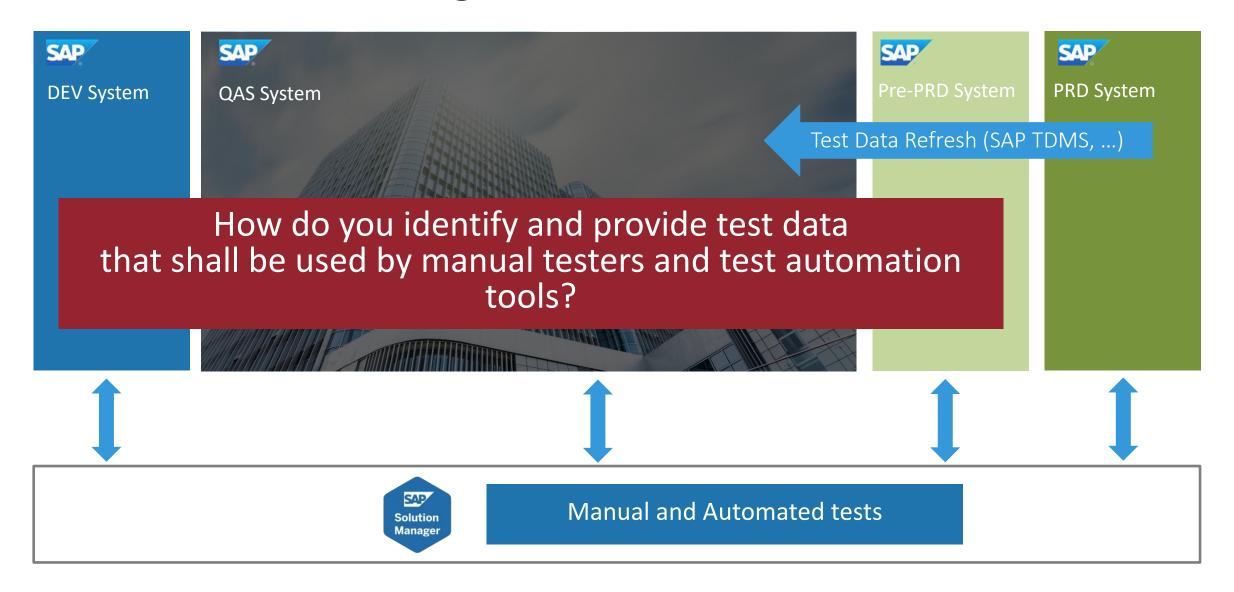
- 1. Run a fast and convenient analysis of key posting patterns across business units, locations, etc.
- 2. Benefit for the generic approach, working for all SAP and custom executables
- Generate the most important Process Step variants in your SAP Solution Manager Solution Documentation





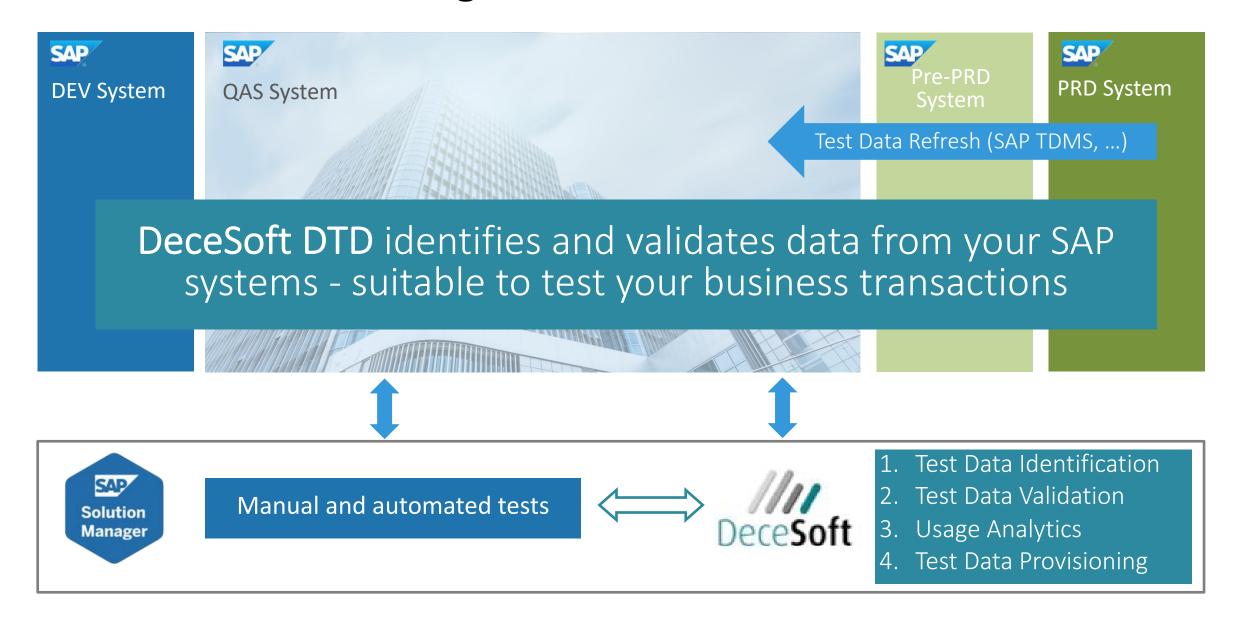
### The Test Data Challenge





## The Test Data Challenge solved





### Functionality

DeceSoft Test Data (DTD)

#### Test Data Identification

Generic approach to plan and derive test data for manual and automated tests

#### **Test Data Validation**

Validation of test data for any SAP system. Checks allowed field combinations and availability of important entities like material in stock

#### **Usage Analytics**

Fast analysis of large amounts of posted documents to understand posting patterns of org. units, ABC ranking of used field combinations and test data generation

#### **Test Data Provisioning**

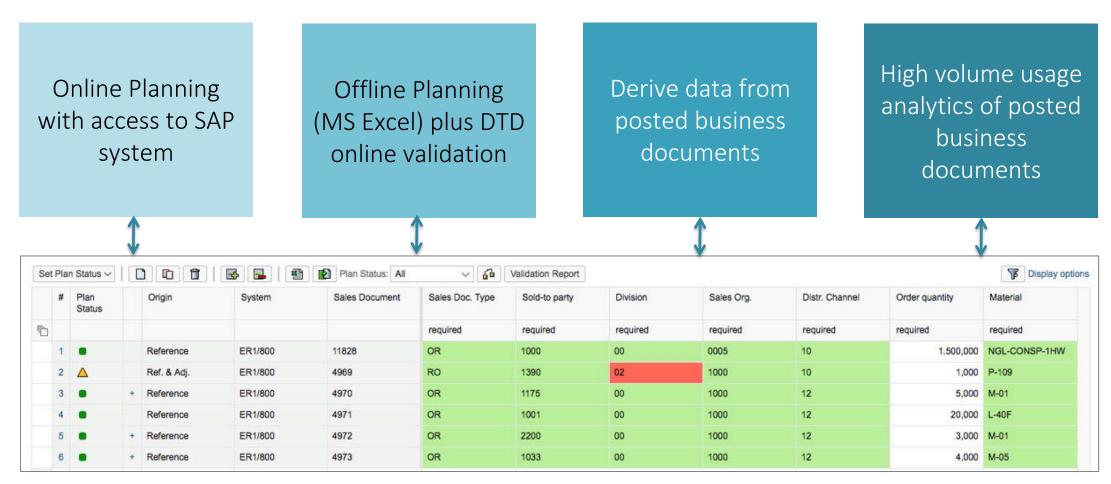
Make validated test data available to your testers and automated test tools through MS Excel files or push to SAP Solution Manager Test Data Container (TDC)



### Plan and Identify Test Data – 4 Approaches



DeceSoft Test Data (DTD)



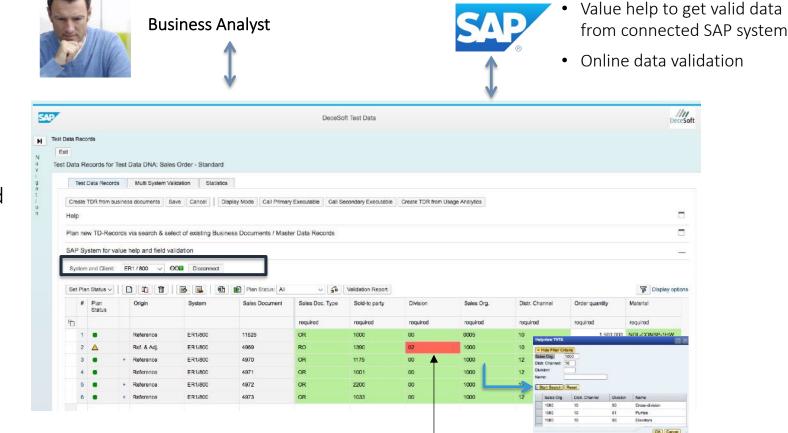
DTD planning grid to identify / plan Test Data Records

# Plan and Identify Test Data



#### Approach 1: Online planning

- User gets a table (like MS Excel)
   which allows data entry
- Value help from DTD integrated
   with managed system like SAP ERP
   test system allows seamless take
   over of valid data into planning grid
- DTD immediately shows whether field combinations are not valid
- Example VA01: Division, Sales Org,
   Distribution Channel
- Correct values via value help
- Online test data validation

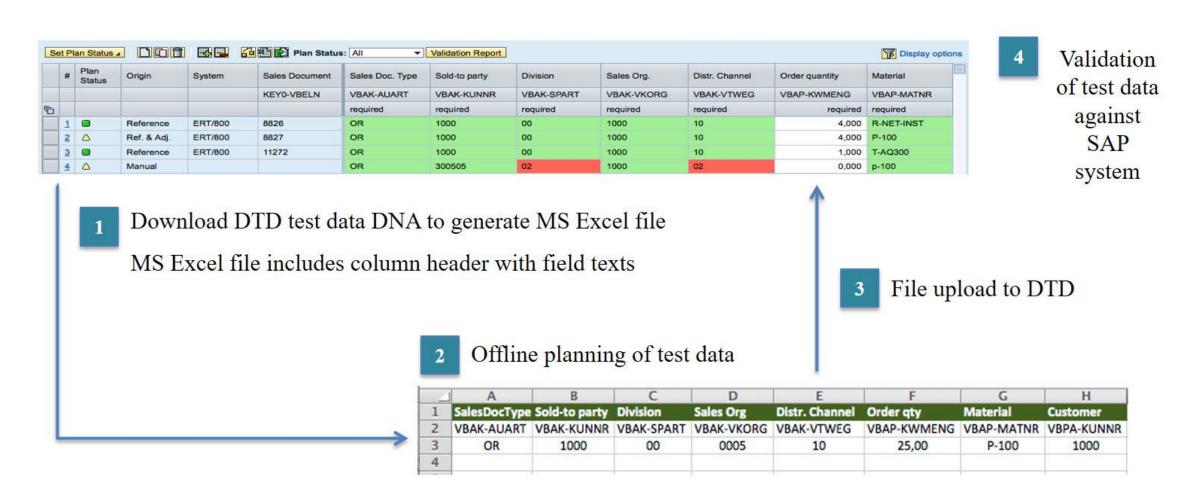


Get correct data via value help (F4) with access to connected SAP ERP test system





Approach 2: Offline planning with MS Excel and DTD online validation

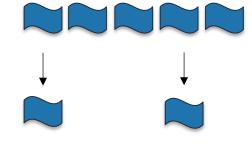


# Plan and Identify Test Data



Approach 3 derive data from available business documents of executed business transactions

- O SAP system contains many documents of posted business transactions
- DTD supports User to find posted documents with suitable data, e.g. launch of display transaction in SAP system
- 2 DTD fetches selected documents and extracts relevant data
- 3 DTD saves as new Test Data Records in DTD planning grid



Document 11828: Order Type OR, ...

Document 4969: Order Type RO, ...

Sys	tem a	and Client:	ER1/800 V 000	Disconnect								
Set	Plan	Status V		<b>3 3 6 6</b>	Plan Status: All	∨ 60 V	alidation Report					Display opt
	#	Plan Status	Origin	System	Sales Document	Sales Doc. Type	Sold-to party	Division	Sales Org.	Distr. Channel	Order quantity	Material
5						required	required	required	required	required	required	required
	1	•	Reference	ER1/800	11828	OR	1000	00	0005	10	1.500,000	NGL-CONSP-1HW
	2	Δ	Ref. & Adj.	ER1/800	4969	RO	1390	00	0005	10	1,000	P-109
	3		+ Reference	ER1/800	4970	OR	1175	00	1000	12	5,000	M-01

# Plan and Identify Test Data



Approach 4: Usage Analytics



Thousands / millions of posted documents



Usage Analysis for selected business transaction

ABC	Order Type	Sales Org		Document Occurence	
А	OR	S-01		1.500.000	
		S-02		800.000	
В				75.000	
С				50.000	
	<b>↓</b>		$\downarrow$		
	<b>lldown</b> naterial group,		Test Data generation		

Generic	Flexible selection of important fields per business transaction – generic approach – no specific coding
Automatic	Automatic derivation of fields with dependencies - generic approach
Fast	Very fast retrieval of valid combinations from PRD, Pre-PRD or QAS systems
Drilldown	Drilldown by any dimension to analyze used fields
Test Data	Automatic generation of test data for for manual o

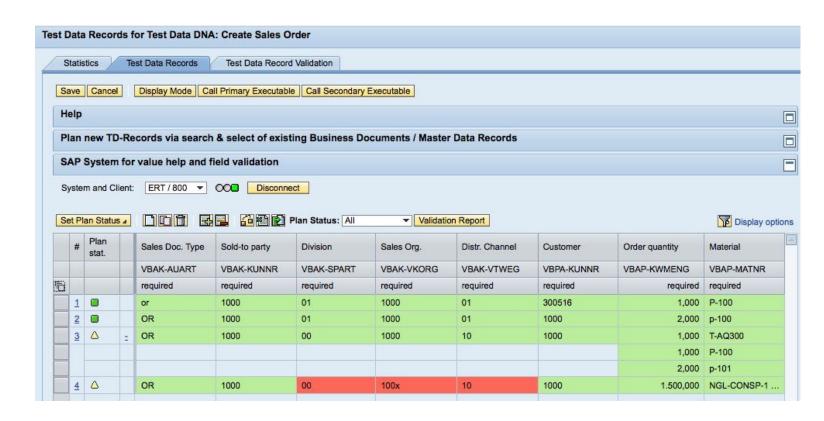
automated regression tests

#### **Test Data Validation**



Test Data Validation: check data validity against SAP systems such as DEV, QAS, Pre-PRD

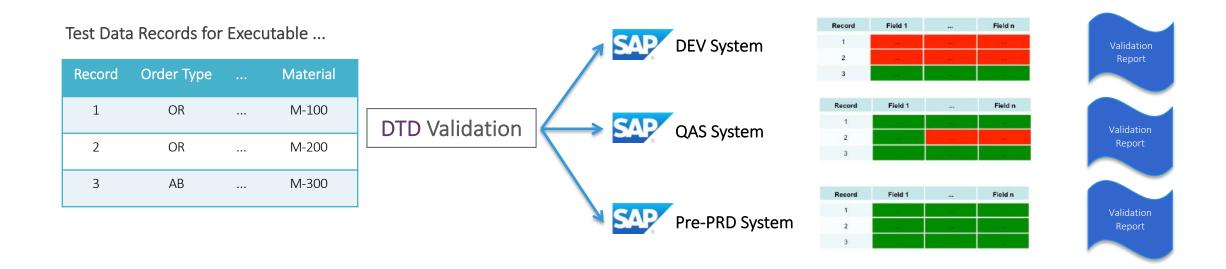
- Online validation of each Test Data Record against selected SAP system
- Check of each field as well as field combinations
- Error messages explain reasons for failed validation
- SAP table entries can be checked via drill-down
- Validation reports allow fast correction of incorrect test data
- Custom-specific validation checks available via BADI



#### **Test Data Validation**



Validation of test data against multiple SAP systems during test data planning



- Test Data validity can be checked against any selected SAP system
- DTD validation reports provide meaningful explanations and user guidance to correct the test data

#### Test Data Validation



Advanced Validations with custom specific check rules via DTD Enhancement Spot



QAS



#### DeceSoft plug-in

#### DTD enhancement spot (BADI)

Method: check data

- ...
- Call Function 'BAPI\_MATERIAL\_AVAILABILITY'
- ...
- <customer specific validation logic>

SAP standard BAPIs





Sales Doc. Type	Sold-to party	Division	Sales Org.	Distr. Channel	Order quantity	Material
required	required	required	required	required	required	required
OR	1172	00	1000	10	140,000	R-1001
OR	2007	00	1000	10	1,000	M-09
OR	1000	00	1000	10	2,000	P-200
OR	2301	01	1000	01	1,000	p-100

#### **DTD Validation**

- Mouse-over shows DTD standard and custom-defined validation errors
- Example: material in stock shortage
- DTD validation report lists all problems
- DTD test data generation via Usage Analytics with validations

#### DeceSoft DTD - Usage Analytics



Analyze posting patterns of your Business Departments by any dimension

... and identify relevant test data for your regression tests





Example	Typical questions			
Sales	Pricing Procedures used by Sales Document Types			
	Top 10 Material Classes used in North America			
	Top n Customers for Product P1			
Procurement	Top Vendors of Material M1			
	Number of POs posted using Incoterm 13 without PR			

Select business transaction → read posted documents → Analyze → Drilldown → create Test Data

# **Test Data Provisioning**

DeceSoft DTD makes it easy to use validated test data in manual and automated tests



Manual Tests

- MS Excel: DTD download of validated test data into MS Excel and assign to test case – for all manual testing tools from SAP and partners
- TDC: DTD push of validated test data into Test Data Container (TDC) of SAP Solution Manager

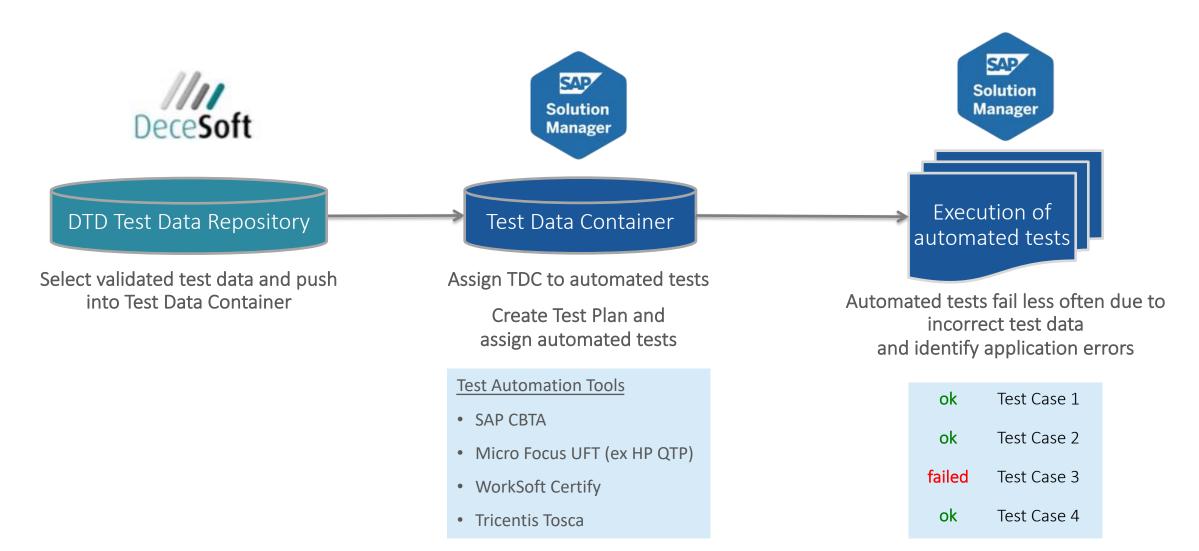
Automated Tests

- TDC: DTD push of validated test data into Test Data Container (TDC) of SAP Solution Manager
- MS Excel: DTD download of validated test data to MS Excel and subsequent upload for all test automation tools (CBTA, SAP TAO, HP ALM, Micro Focus ALM, Tricentis Tosca, ...)

# Test Data Provisioning for SAP Solution Manager



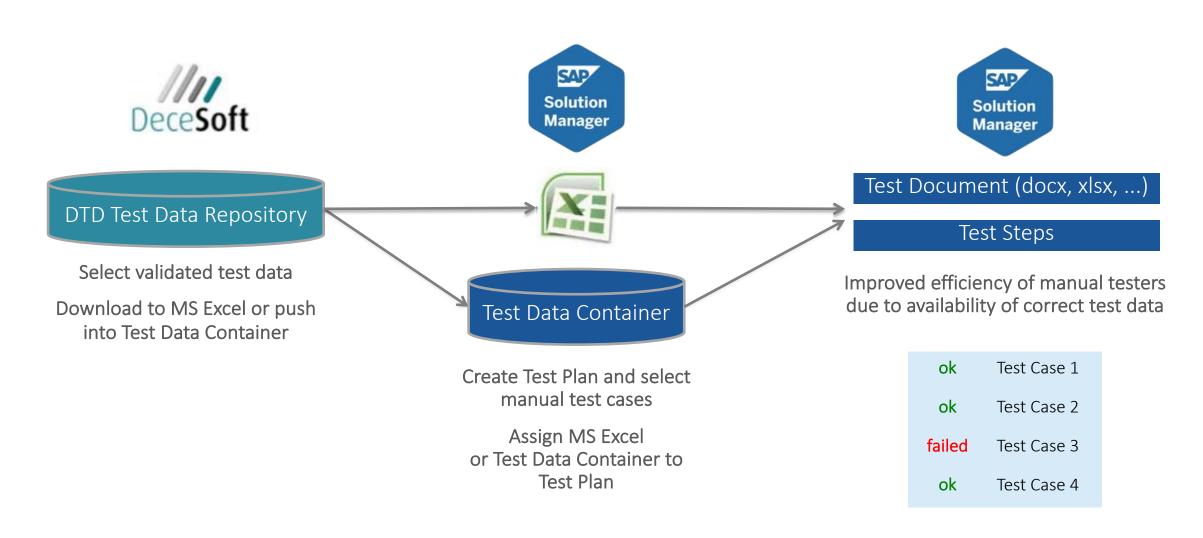
Use Case 1: Automated Tests - Test Suite - SAP Solution Manager





## Test Data Provisioning for SAP Solution Manager

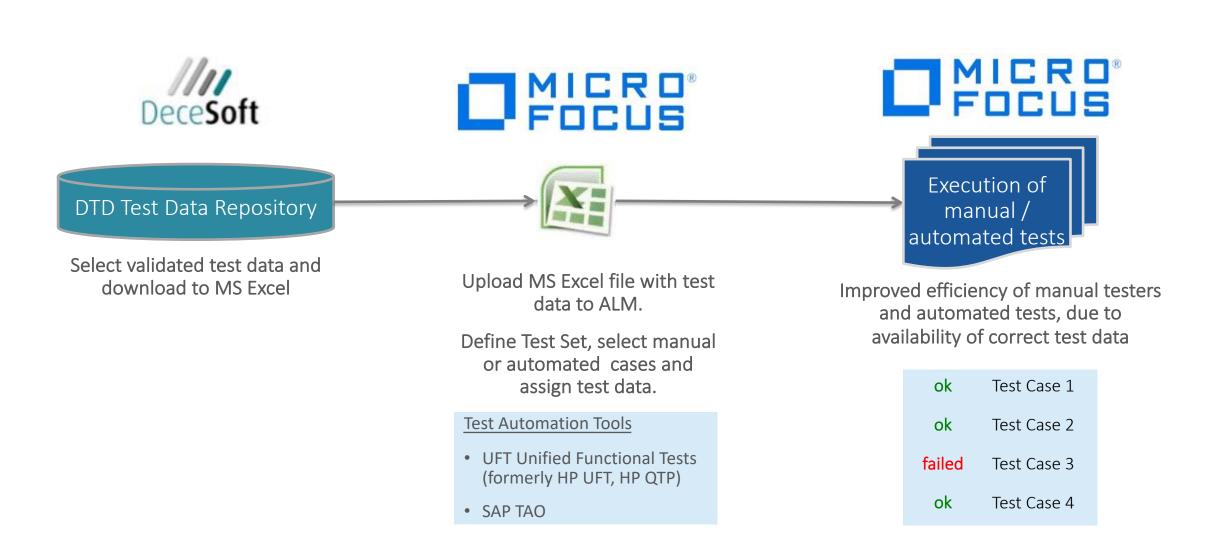
Use Case 2: Manual Tests - Test Suite - SAP Solution Manager



# Test Data Provisioning for Micro Focus ALM



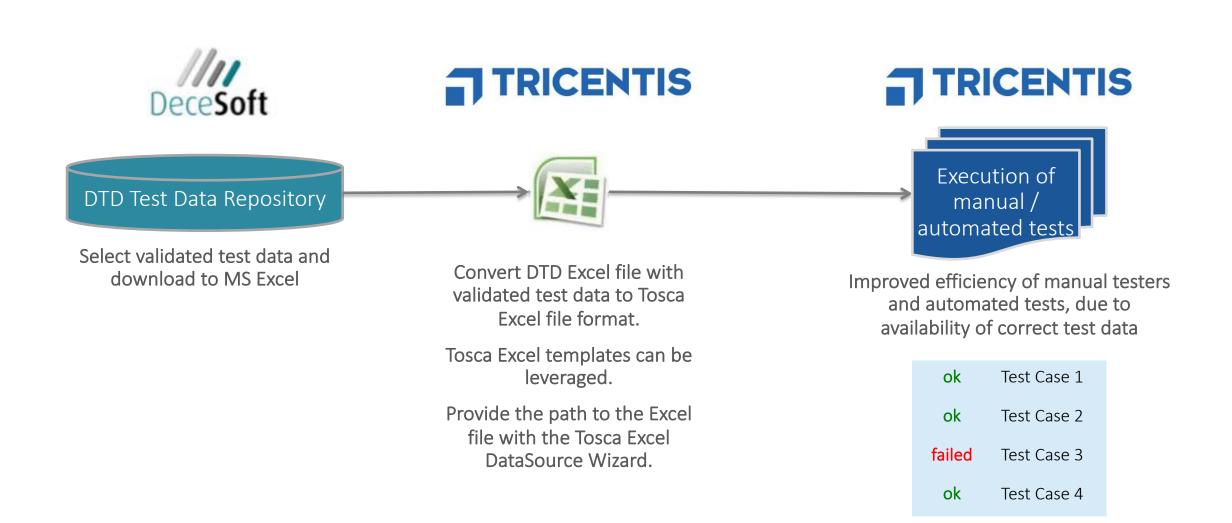
Use Case 3: Manual and Automated Tests – Micro Focus ALM (formerly HP ALM, HP QC)



## Test Data Provisioning for Tricentis Tosca

Dece**Soft** 

Use Case 4: Manual and Automated Tests – Tosca Test Suite – Tricentis



#### **Customer Benefits**

//// Dece**Soft** 

DeceSoft Test Data (DTD)

Fast and efficient way to identify test data for functional tests of SAP business transactions

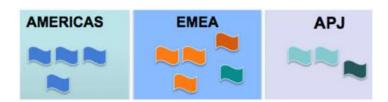
Sophisticated validation of test data to ensure correct test data before start of test cycles

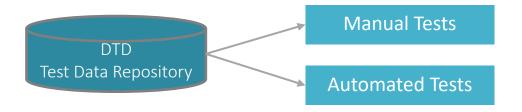
Efficient way to understand how org.units post business transactions plus test data generation

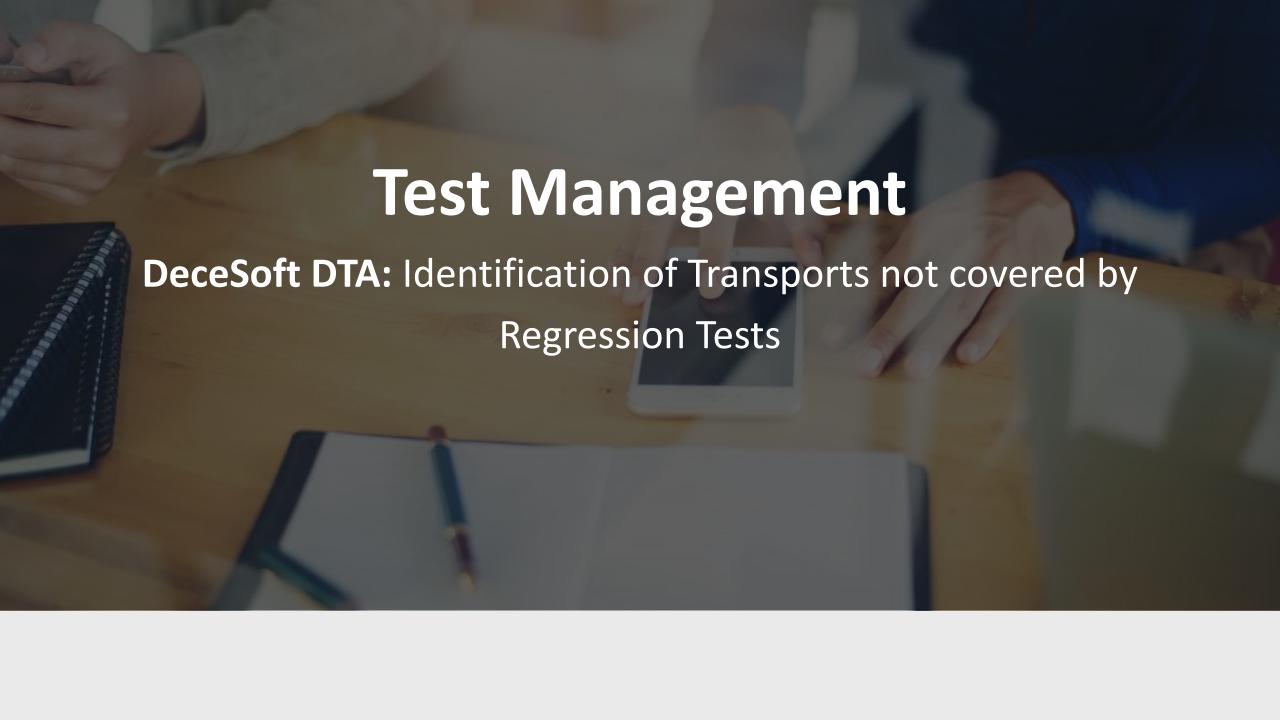
Convenient Test Data provisioning via MS Excel or SAP Solution Manager (TDC)

Sales Doc. Type	Sold-to party	Division	Sales Org.	Distr. Channel	Order quantity	Material
required	required	required	required	required	required	required
OR	1172	00	1000	10	140,000	R-1001
OR	2007	00	1000	10	1,000	M-09
OR	1000	00	1000	10	2,000	P-200
OR	2301	01	1000	01	1,000	p-100

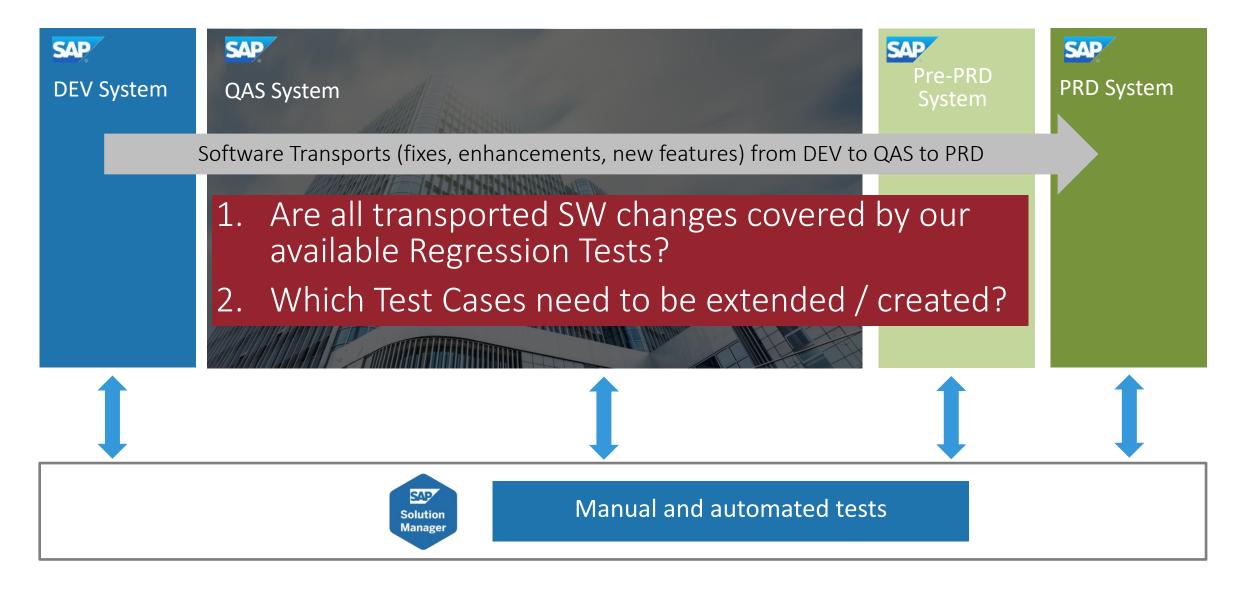








## The Sofware Change and Regression Test Challenge

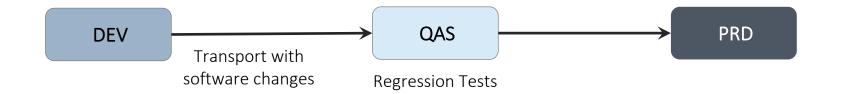


# The Sofware Change and Regression Test Challenge



#### **Software Transports**

Standard situation: regular software transports for fixes and enhancements, like monthly maintenance from DEV to PRD systems

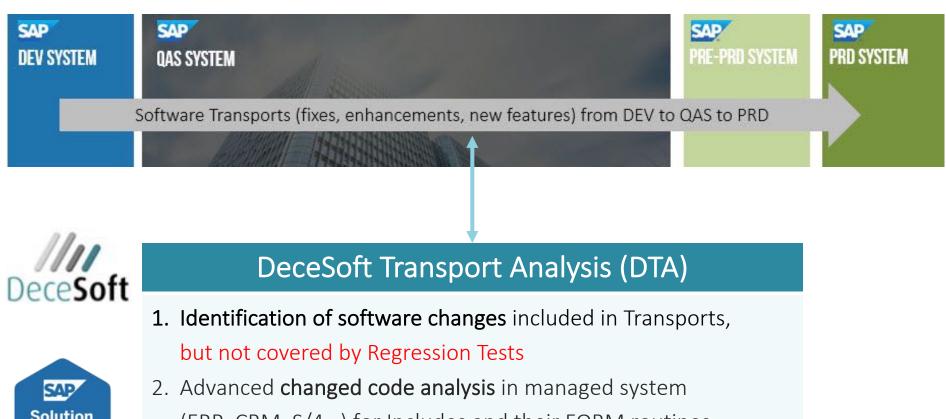


#### Challenges

- Do we have sufficient Regression Tests to cover software changes?
- How do we know that available regression tests cover changes included in transports?

## Identify software changes not covered by Regression Tests

DeceSoft Transport Analysis (DTA)



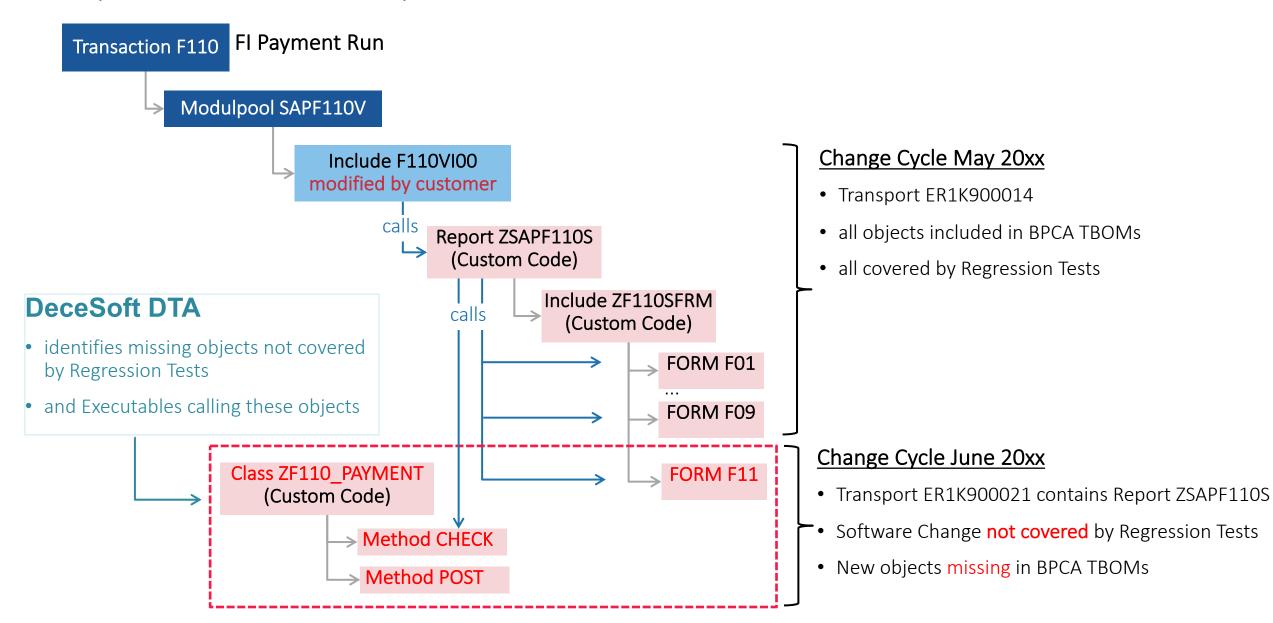


- (ERP, CRM, S/4...) for Includes and their FORM routines
- 3. Identification of Executables (SAP, custom code) impacted by changed SAP objects, but not covered by Regression Tests

# DeceSoft DTA Transport Analysis

Example: Modified SAP Financials Payment Run





### **DeceSoft DTA Transport Analysis**

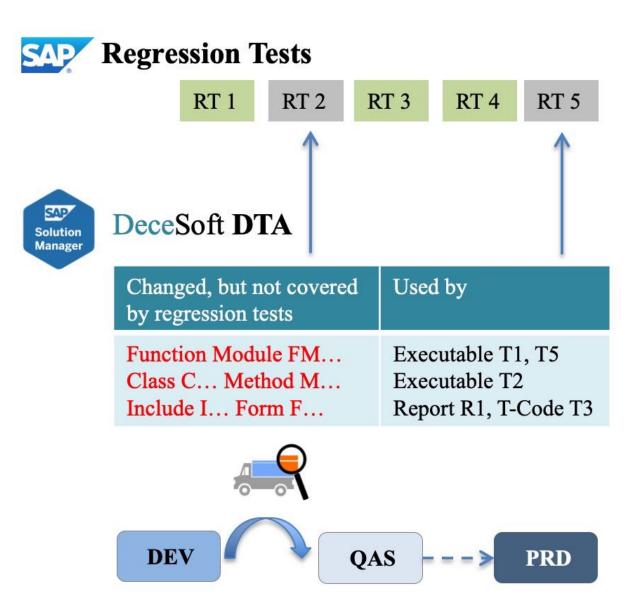


#### **Functionality**

- Identification of SAP objects included in transports, but not covered by regression tests
- Sophisticated code change analysis in managed system (ERP, CRM, ...) for Includes and their FORM Routines
- Identification of executables (SAP, custom code) using changed SAP objects not covered by RT

#### **Benefits**

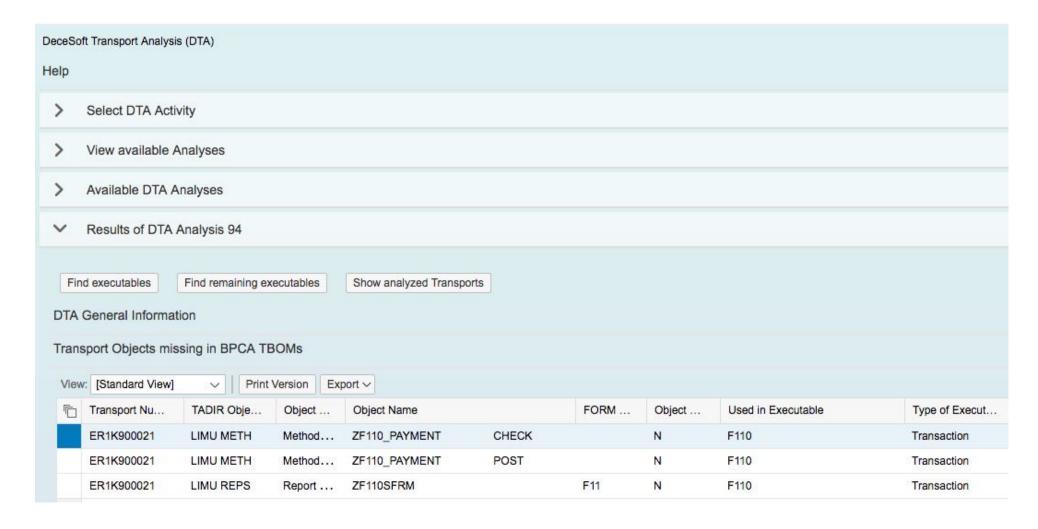
- Reduced risk of PRD issues due to incomplete RT
- Fast and efficient way to identify changed objects not included in available regression tests
- Automated identification of transactions, reports, ...
  using changed objects not covered by RT
- Supports SAP and custom executables







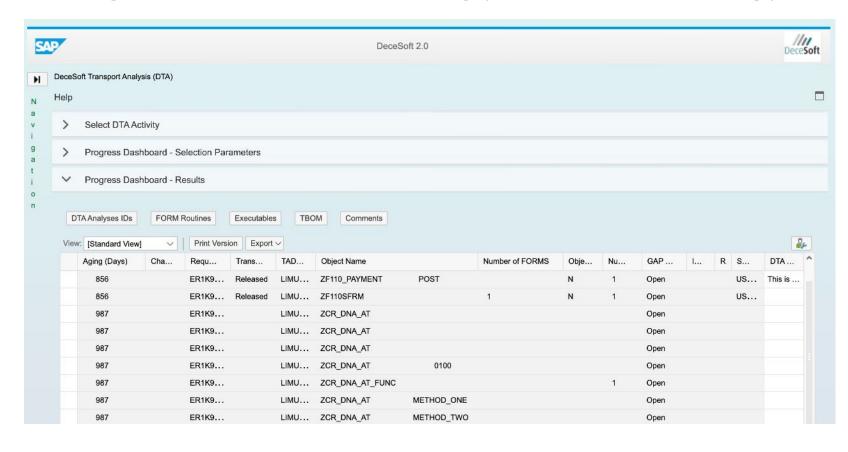
DTA Analysis with identified changed and missing objects and related Executables



## DeceSoft DTA Transport Analysis



DTA Progress Dashboard shows whether gaps still exists, for how long plus custom-specific information

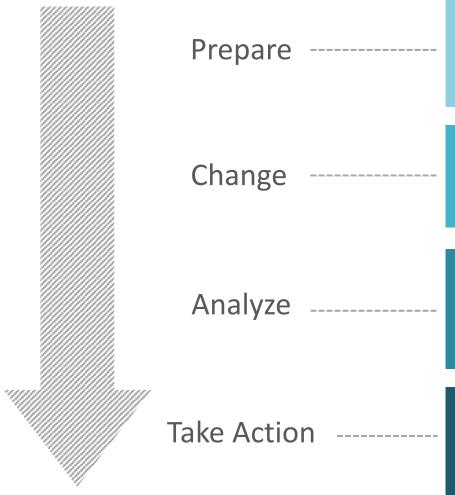


- Aging (days)
- Change Requests and Transports
- Type of change
- transported objects
- Change: new or changed
- User comments with history
- Custom fields (10) examples:
  - Gap status
  - ChaRM infos
  - Invasive change
  - Regression test required
  - Responsible user

# Typical flow of Activities



DeceSoft Transport Analysis (DTA)



#### **Prepare activities before Software Change**

Solution Documentation with Processes / Steps and Executables covered with BPCA TBOMs

Regression Tests (RT) up-to-date and available for all mission critical Processes

BPCA TBOMs generated via automated Regression Tests

#### **Software Change Event**

Software changes (fixes, enhancements, new features) implemented in DEV system

Transports (TR) or Transport of Copies (ToC) to Quality Assurance System (QAS)

#### **DTA Transport Analysis**

Gap identification of changed objects included in TR /ToC, but not BPCA TBOMs

Advanced gap identification in managed system for Includes and new/changed/deleted FORM Routines

Identification of Executables using of identified gap objects to provide guidance for Test Engineers

#### **Take Action and close Gaps**

Test Engineers close gaps by extending test cases.

Example: additional steps with navigation that use changed objects. Result: up-to-date Regression Tests

Execute Regression Test Case and re-generate TBOMs

# DeceSoft Transport Analysis

Summary and Business value

Reduced Risk



Reduced risk of PRD system issues due to incomplete Regression Tests

Efficient



Fast and efficient way to identify changed objects not included in available regression tests

Automated



Automated identification of transactions, reports, ... using changed objects not covered by RT

SAP and Custom



Supports SAP and custom executables

# Thank you!

#### More information about DeceSoft

Thank you for your interest in our DeceSoft products.

If you want to learn more about our products you can speak to one of our product experts or request a product demo.

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Website: www.decesoft.com



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