

April 19, 2021

Accurate SOD Reporting without

costly and constant maintenance?



Agenda

- Introduction
- Segregation of Duties Matrix
- What Makes it Hard to maintain?
- How can it be simplified?
- Q&A



Introduction

Name: Dries Horions

Role: Product Manager

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I began working with SAP in 2001 as an ABAP developer. I joined Security Weaver 14 years ago. I'm the Product Manager for Separations Enforcer and Automated Mitigations.



Security Weaver

GRC software since 2004

Fraud prevention, compliance, risk analyses, CCM

Cross platform Compliancy software on Access-,

Process and Contract Compliancy











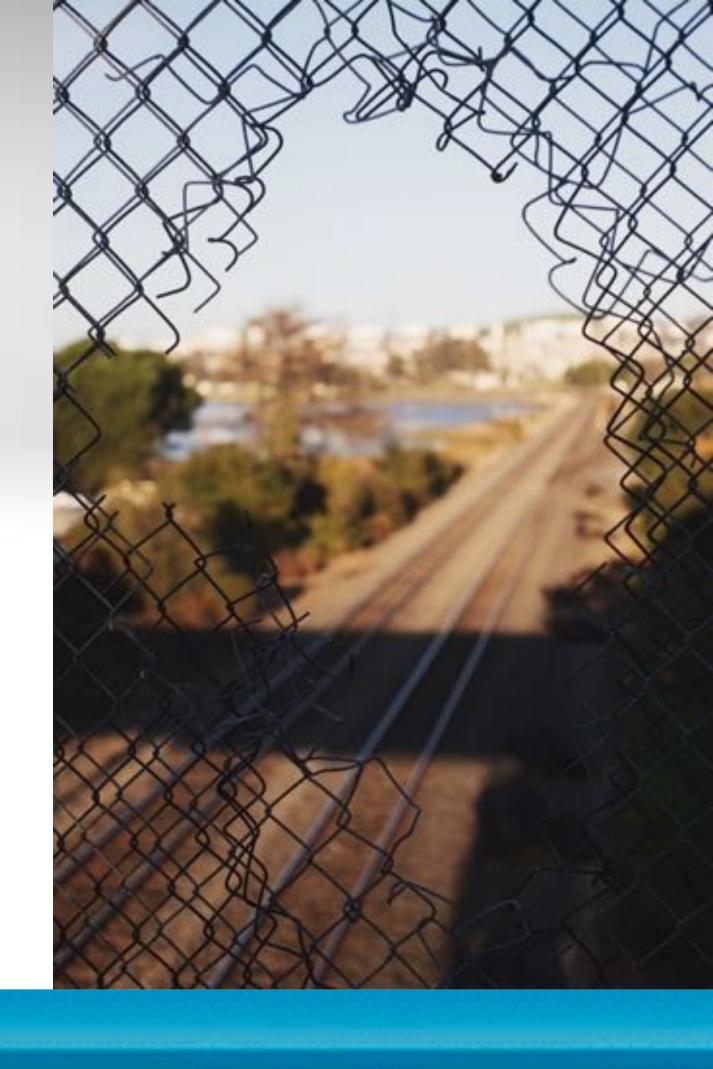




What is an SOD Conflict?

If a single person can perform a combination of critical activities within a process sequence, this is referred to as a **SOD Conflict**.

When that happens, there is a possibility a person did not act in the interests of the company.





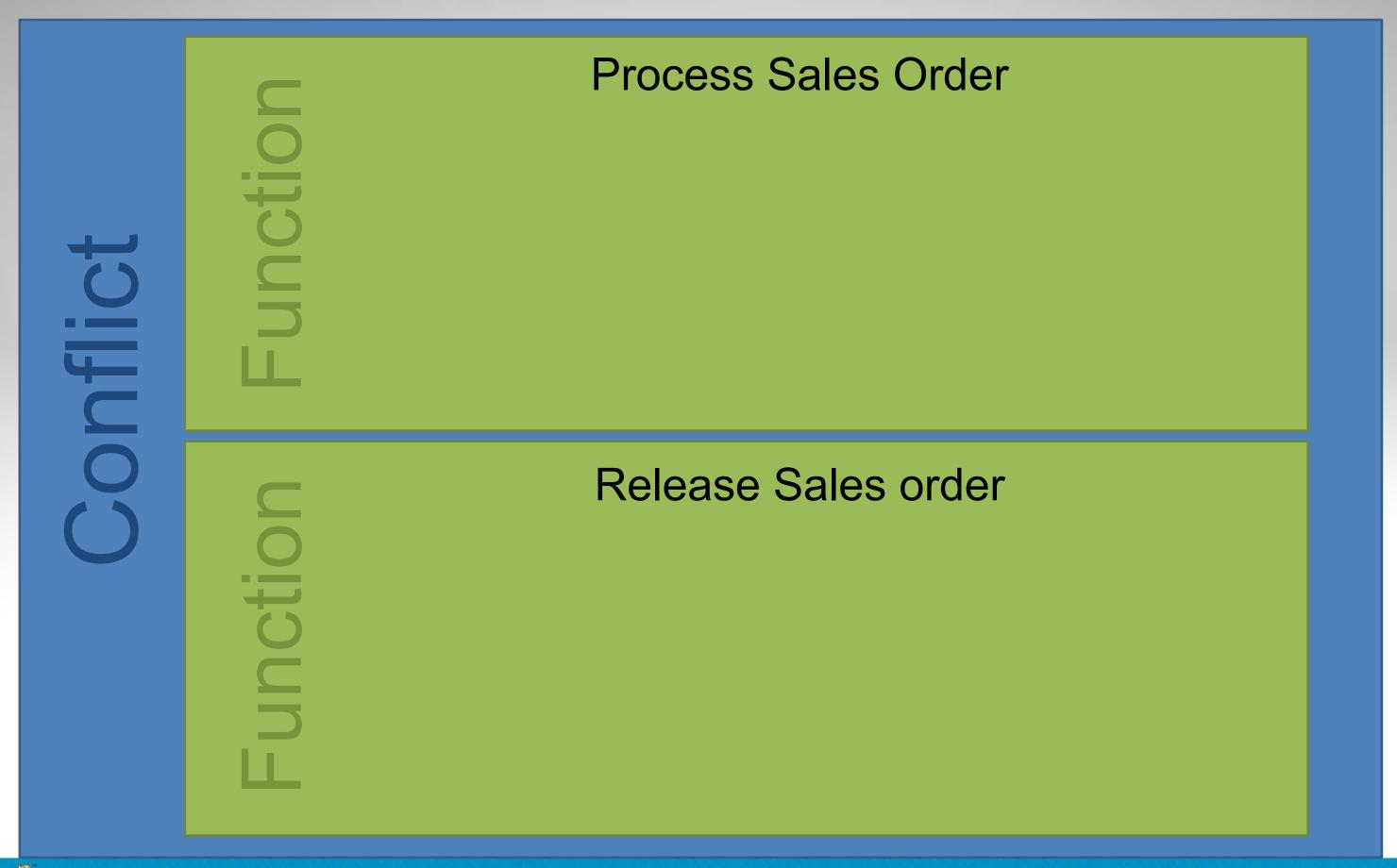
Conflict

Create Sales order Vs. Release Sales Order

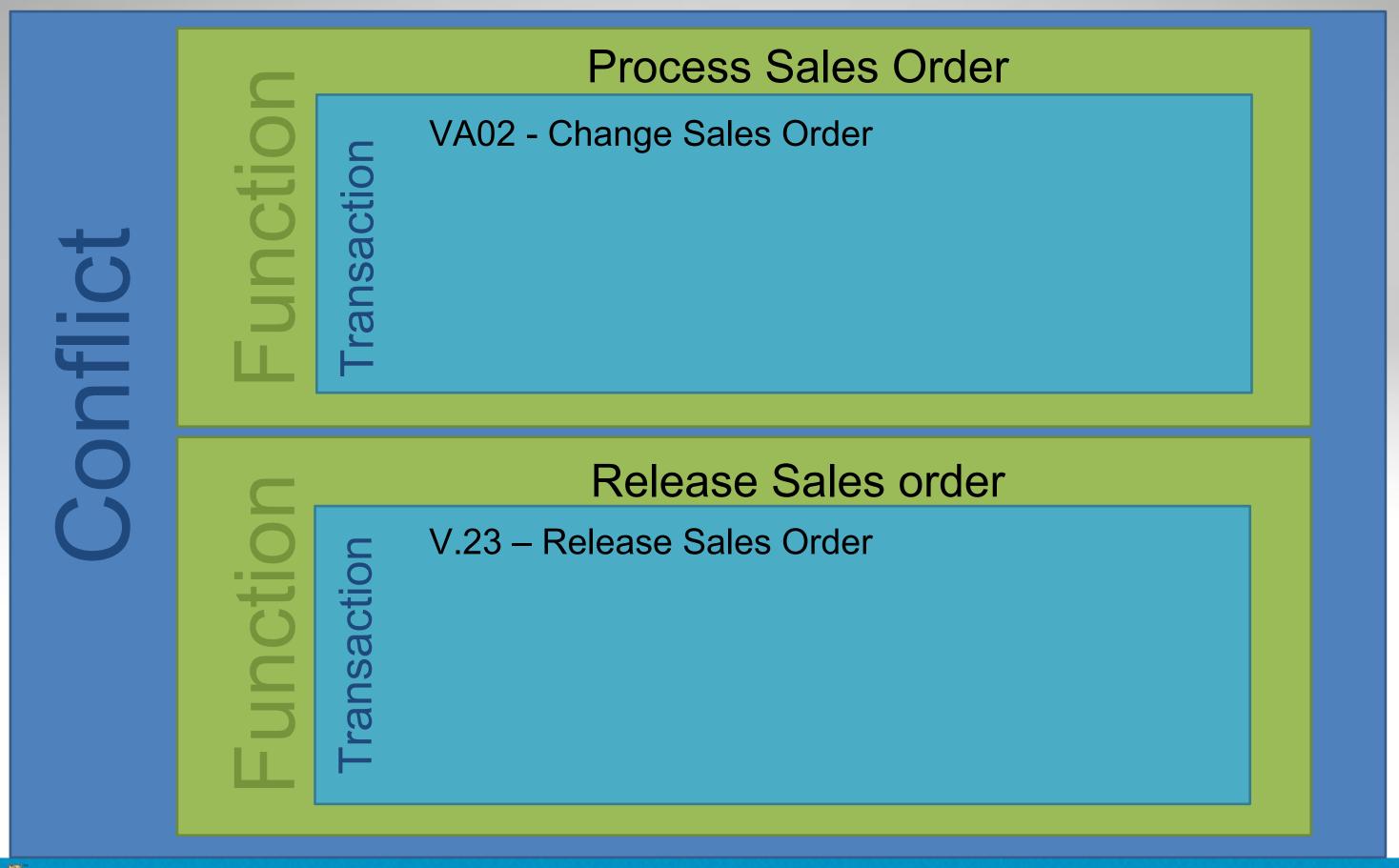
If the same individual can create sales orders AND release blocked sales orders within SAP, then they can compromise the system without being detected.

With this conflict a user may circumvent proper Order to Cash procedures and either accidently or maliciously do things like: Entering and releasing sales documents by the same person. As a result, a user can bypass controls to inappropriately manipulate the sales order process and release blocked sales order documents to bypass credit/delivery/billing controls.

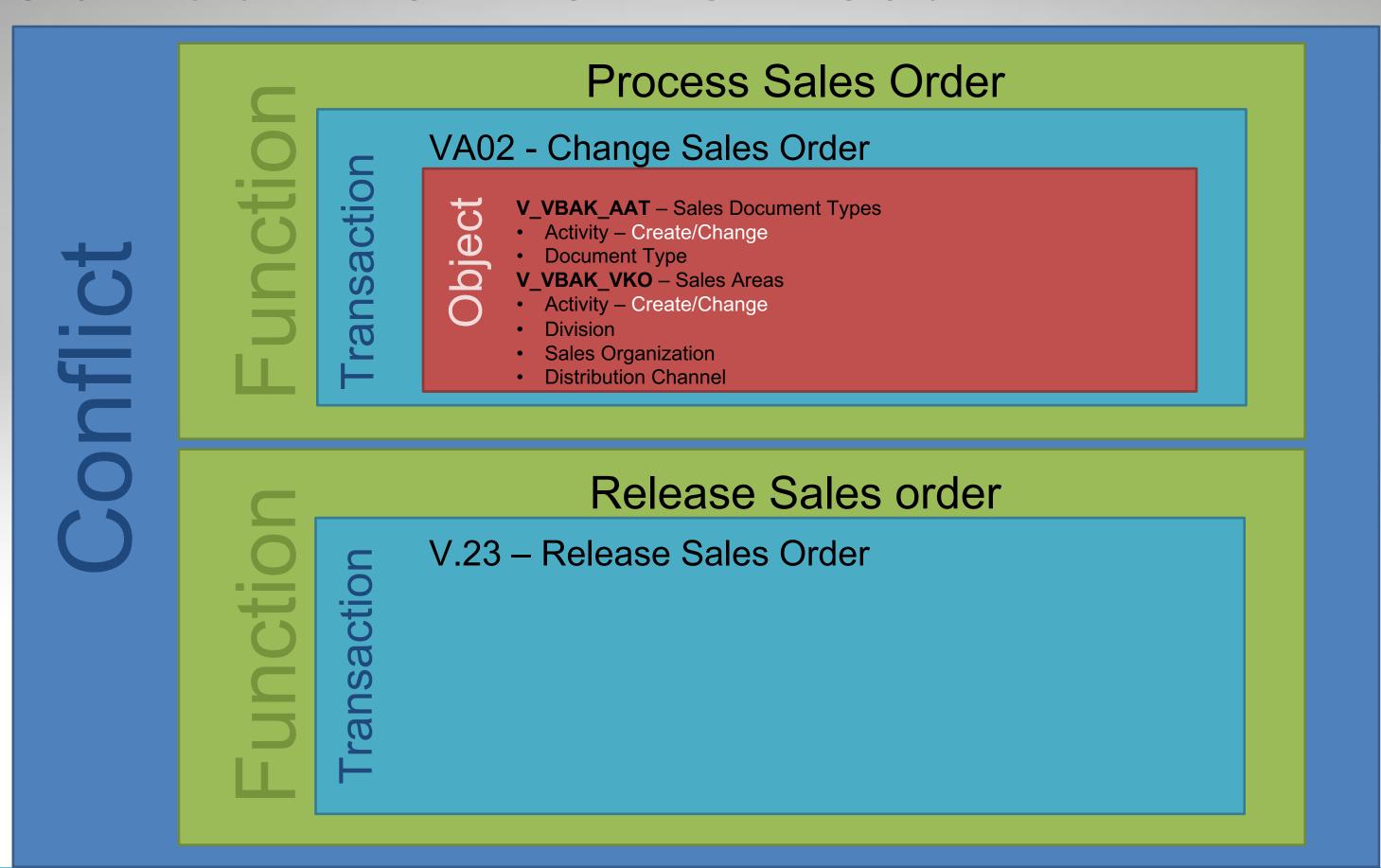




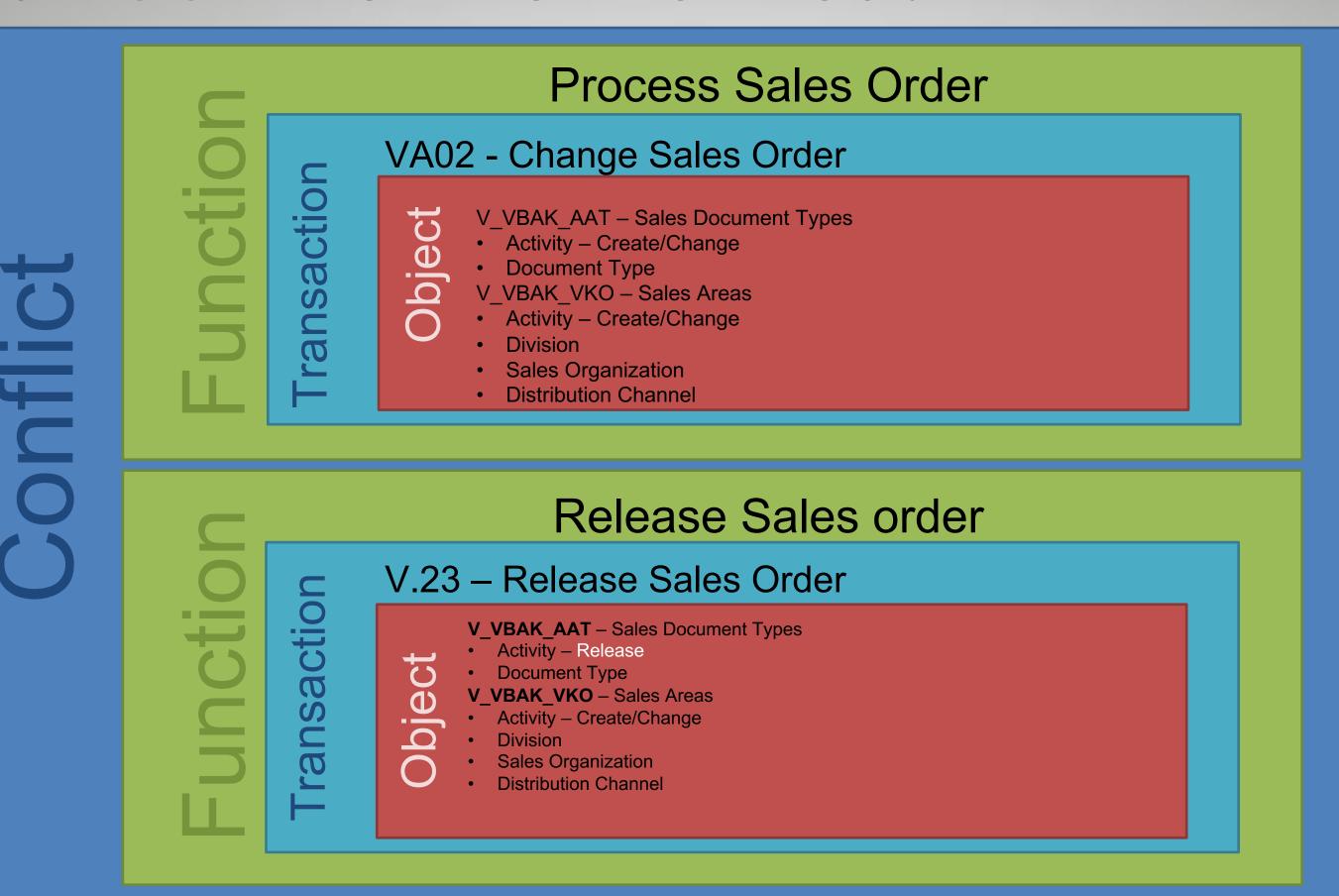




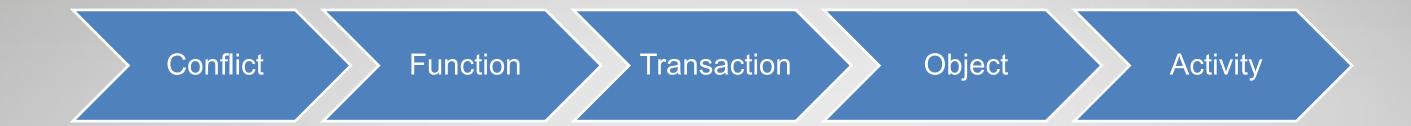












When all these aspects are so well known in the industry, what is it that makes an SOD Matrix so hard to maintain?



All SAP systems have different configuration, customizing and custom code, and that affects the SOD Matrix,



Production System 1

Go Live Date: 1996 LOB: All (CO only) GEO: WW

Production System 2

GEO: APJ

Go Live Date: 1999 (Acquired)

LOB: PL3 fully with (SCM support for PL1 and PL2)



Production System 3

Go Live Date: 2000 LOB: PL1 and PL2 GEO: Americas



Production System 4

Go Live Date: 2002 (Acquired) LOB: PL1 and PL2

GEO: UK



Production System 7

Go Live Date: 2013 (JV) LOB: Health machines

GEO: WW



Production System 6 Go Live Date: 2011

LOB: Locomotives GEO: WW (MSP hosted)



Elen.

Production System 5

Go Live Date: 2006 (acquired)

LOB: Home appliances

GEO: WW



Production System 8

Go Live Date: 2017 LOB: Automotive

GEO: APJ



V_VBAK_AAT – Sales Document Types

- Activity
- Document Type
- V_VBAK_VKO Sales Areas
- Activity
- Division
- Sales Organization
- Distribution Channel

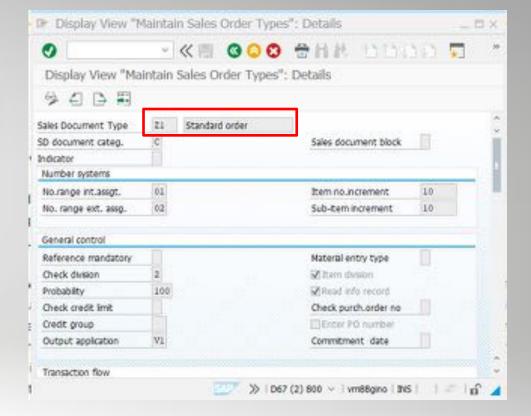


Differences in Configuration and Customizing

V_VBAK_AAT – Sales Document Types

- Activity
- Document Type
- V_VBAK_VKO Sales Areas
- Activity
- Division
- Sales Organization
- Distribution Channel

System	Sales Document Type	Company Code	Division	Sales Organization	Distribution Channel
Production 1	OR – Standard Order Z1 – Returns				
Production 2	Z1 – Standard Order RE – Returns				
Production 3	OR – Standard Order RE - Returns				



9 6 6 5	intain Sales Order Typ			
>000	B			
Sales Document Type	III Returns			
SD document categ. II		Sales document block		
Indicator	10			
Number systems			_	
No.range int.assgt.	13	Item no increment 10		
No. range ext. assg.	14	Sub-item increment 10		
General control	111			
Reference mandatory		Material entry type		
Check division		☐ Item direion		
Probability	100	Read info record		
Check credit limit		Check purch order no		
Credit group		Enter PD number		
Output application	V1	Commitment date		

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De D Jable View Edit Goto Selection Utilities System Help



Differences in Organizational Structure

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V_VBAK_VKO – Sales Areas

Division

Activity

- Sales Organization
- Distribution Channel

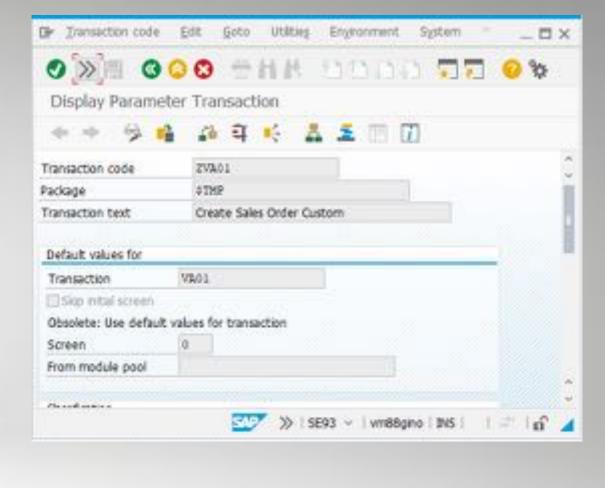
System	Sales Document Type	Company Code	Division	Sales Organization	Distribution Channel
Production 1	OR – Standard Order Z1 – Returns	1000	01	0001	01
		2000	02	0002, 0003, 0004	02 ,03,04
Production 2	Z1 – Standard Order RE – Returns	1000	01	0001	01, <mark>02</mark>
Production 3	OR – Standard Order RE - Returns	2000	01	0001	02

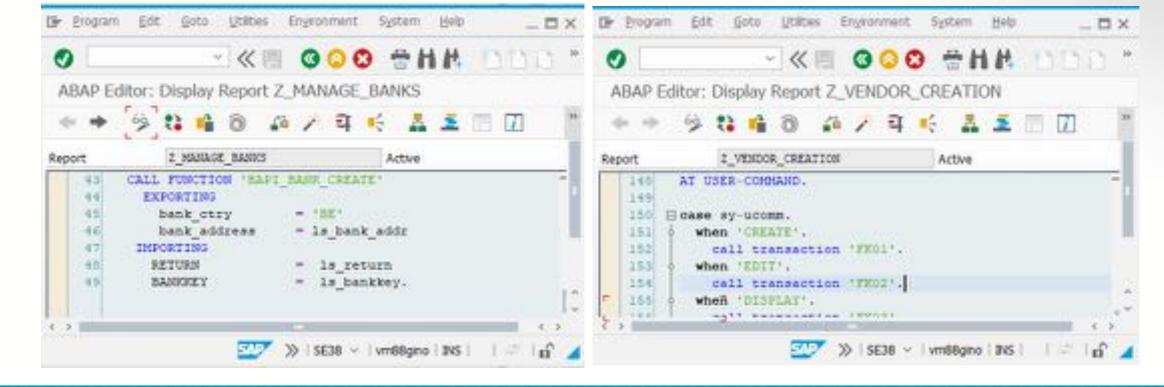


Custom Code

Parameter Transactions

ABAP Code
 Call Transaction
 Submit report
 Include ...
 BAPI-calls







Organizational Complexity

- Organizational values like Plants, Purchasing Organizations, Sales Organizations, Distribution Channels etc can have different meaning, or relationship on different systems.
- Changes in Organizational Structure aren't always known by Compliance Department
- Complexity due to Customizing
 - Customizing such as document types, movement types can be different across systems.
 - New customizing values that are introduced aren't always known by Compliance Department
- Complexity due to Custom Code
 - Custom transactions can be developed giving access to SOD Relevant functionality

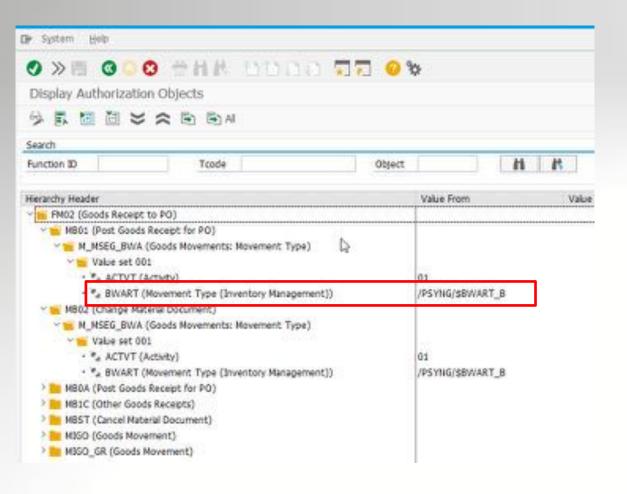


Complexity due to Customizing

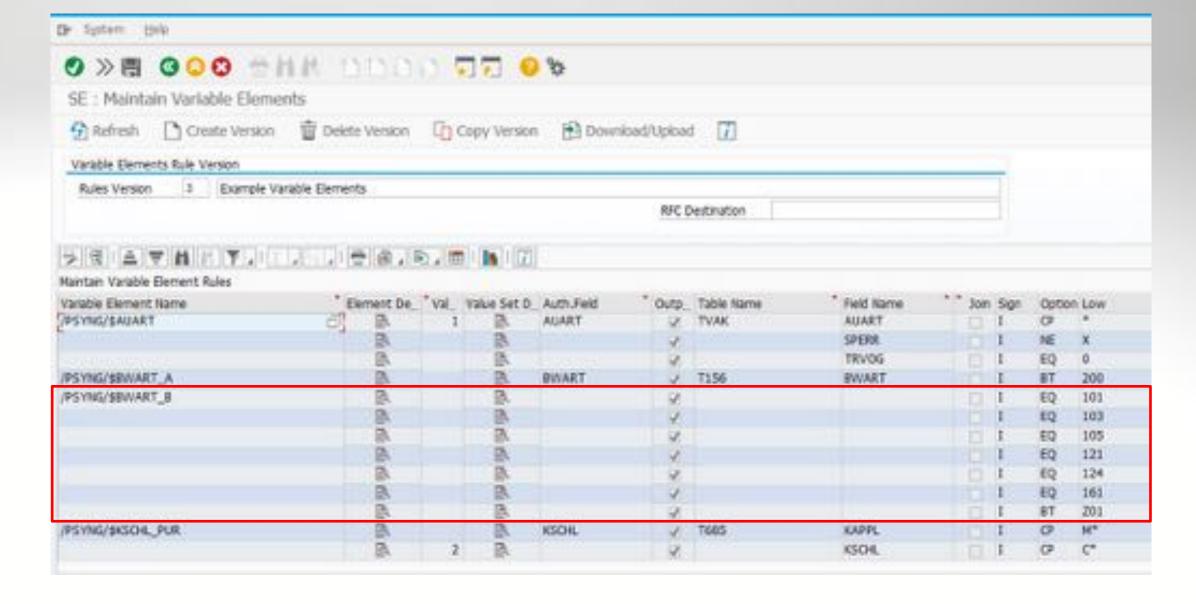
- Define rules that determine how values should be interpreted
- Reference these rules in the SOD Matrix
- Dynamically apply this configuration during the SOD analysis



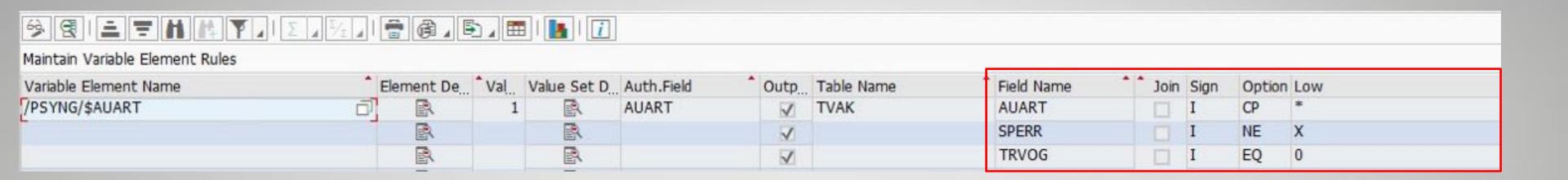
SOD Definition



Rule Definition





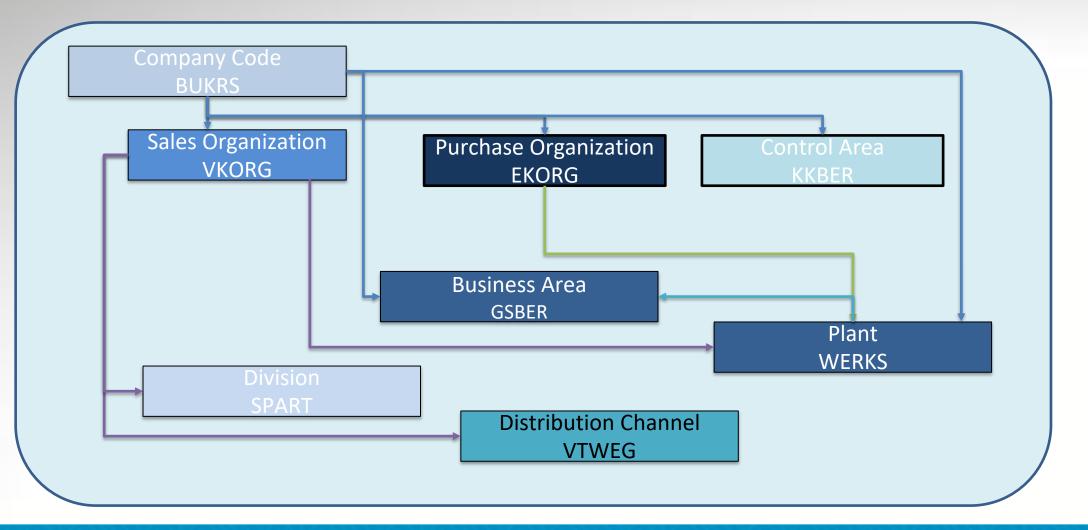


Include all the Sales Document Types (AUART)
That are not locked (SPERR <> X)
And have the Transaction Group: Sales Order (TRVOG = 0)



Organizational Complexity

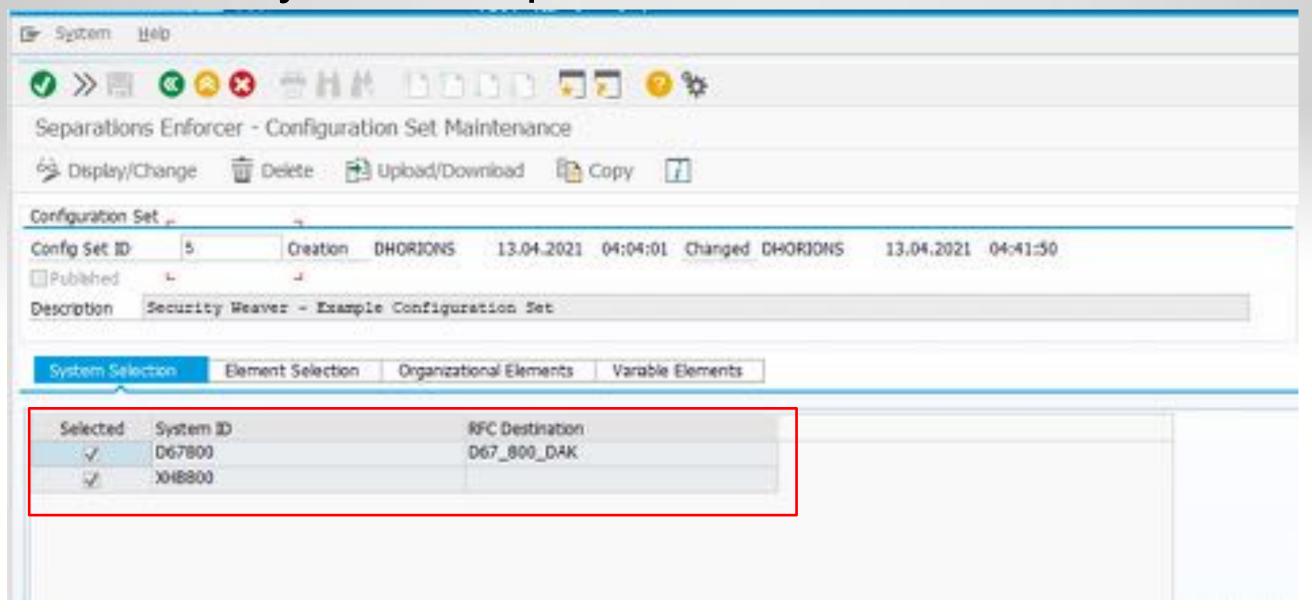
- Automate the discovery of the Organizational Setup across the entire landscape
- Dynamically apply this configuration during the SOD analysis





Organizational Complexity

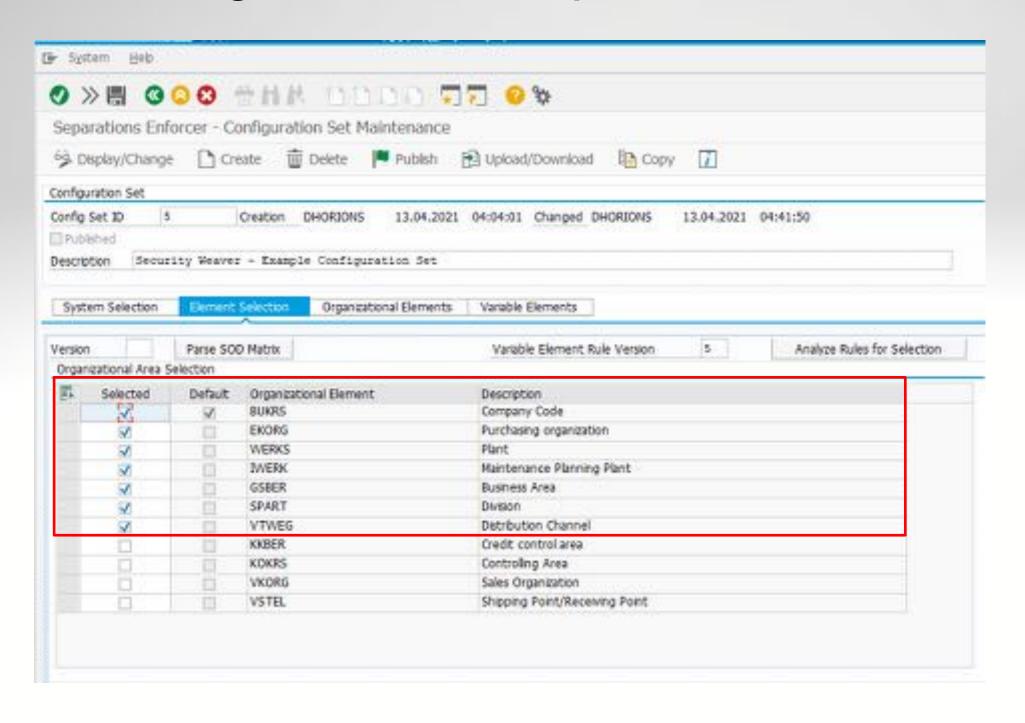
1. System Scope





Organizational Complexity

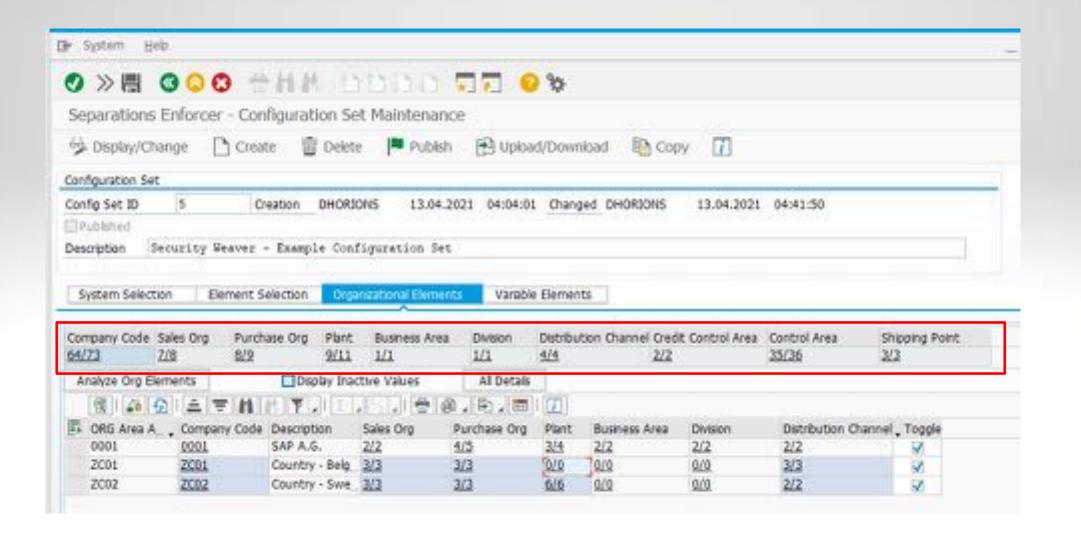
2. Org Element Scope





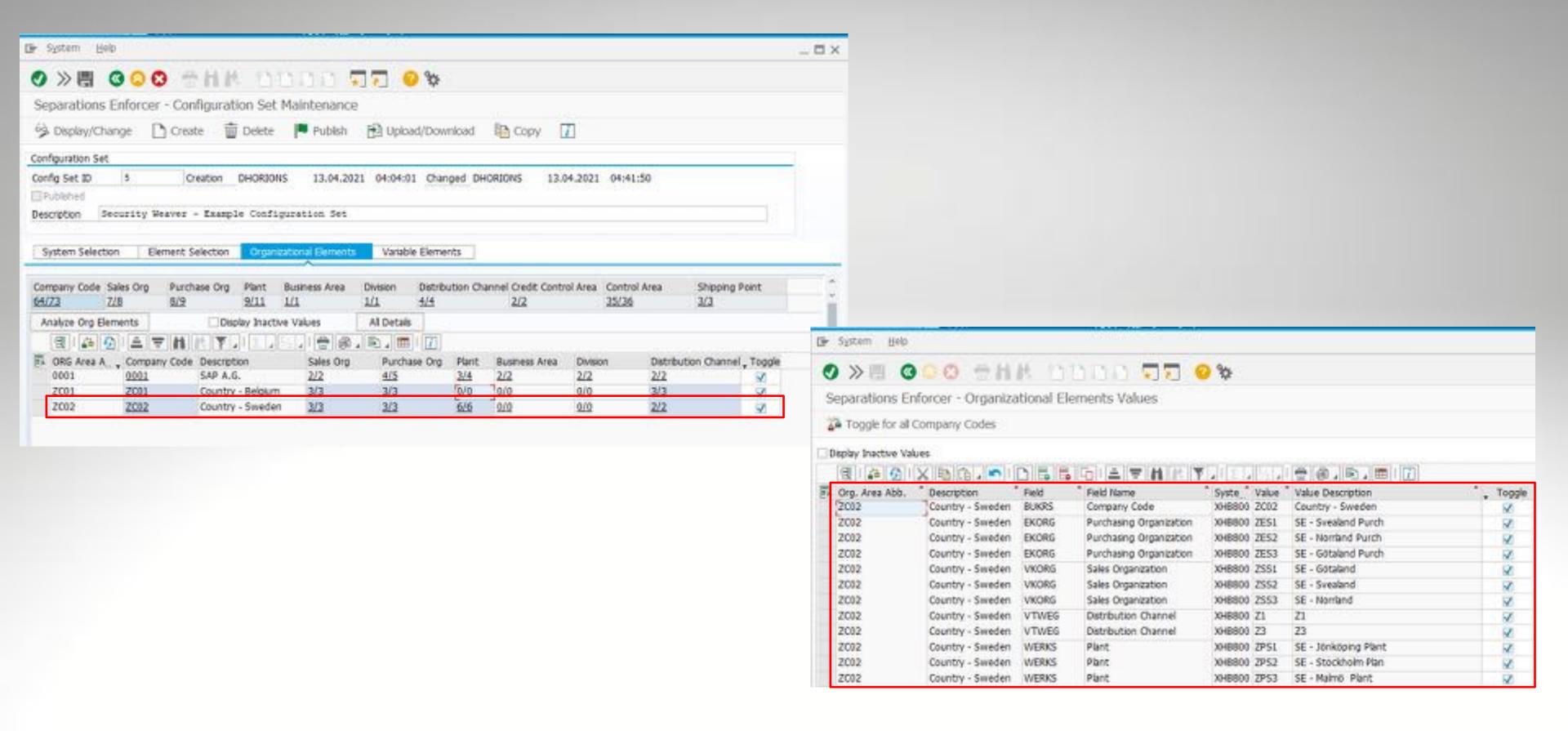
Organizational Complexity

3. Discovery



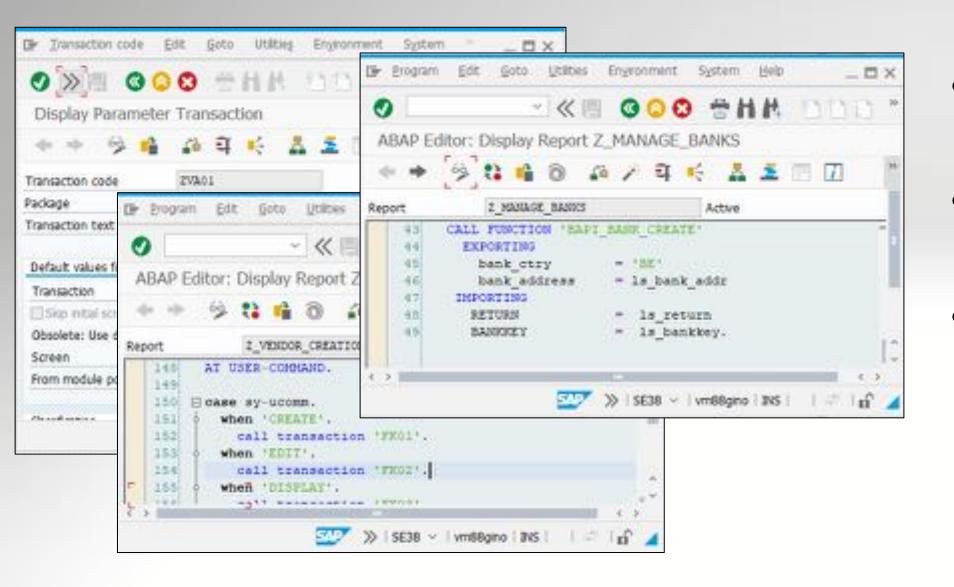


Organizational Complexity





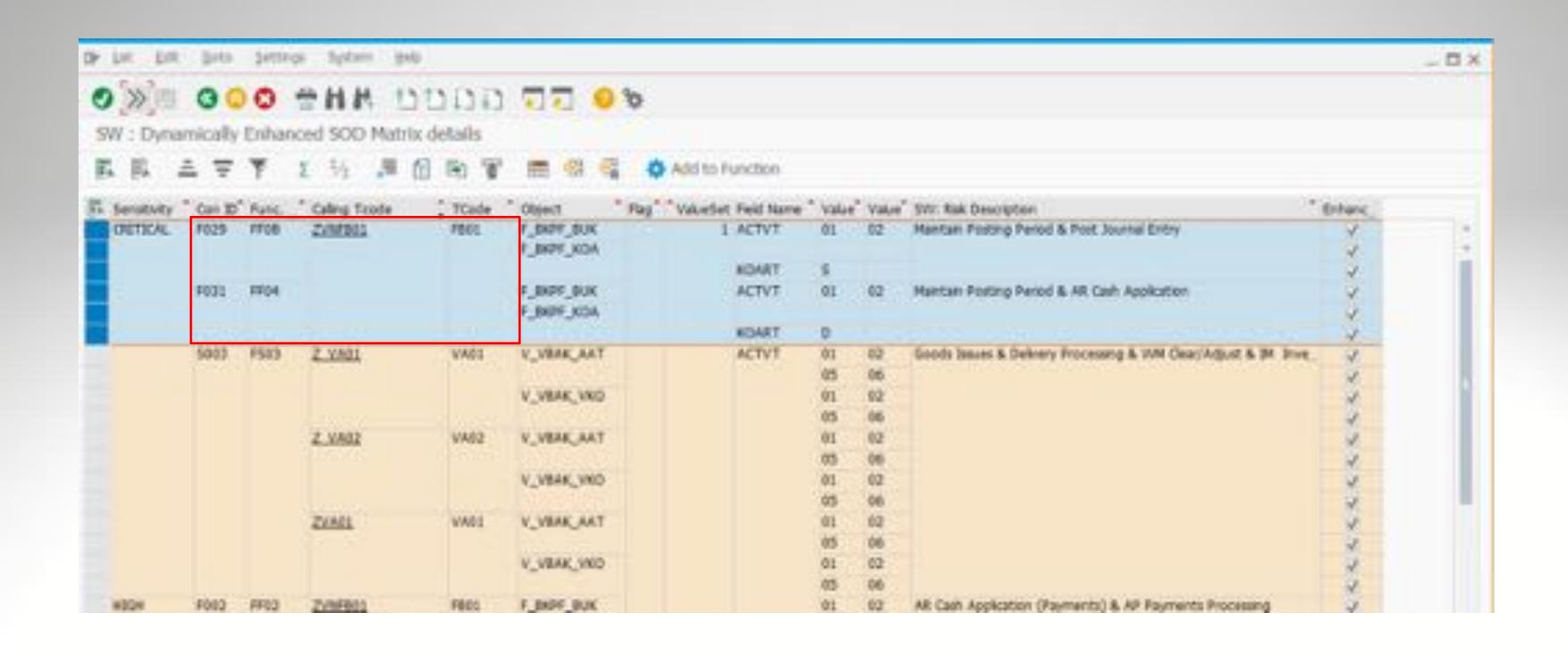
Complexity due to Custom Code



- Analyse all custom Transactions.
- Link them to transactions in the SOD Matrix.
- Dynamically do this during SOD analysis.

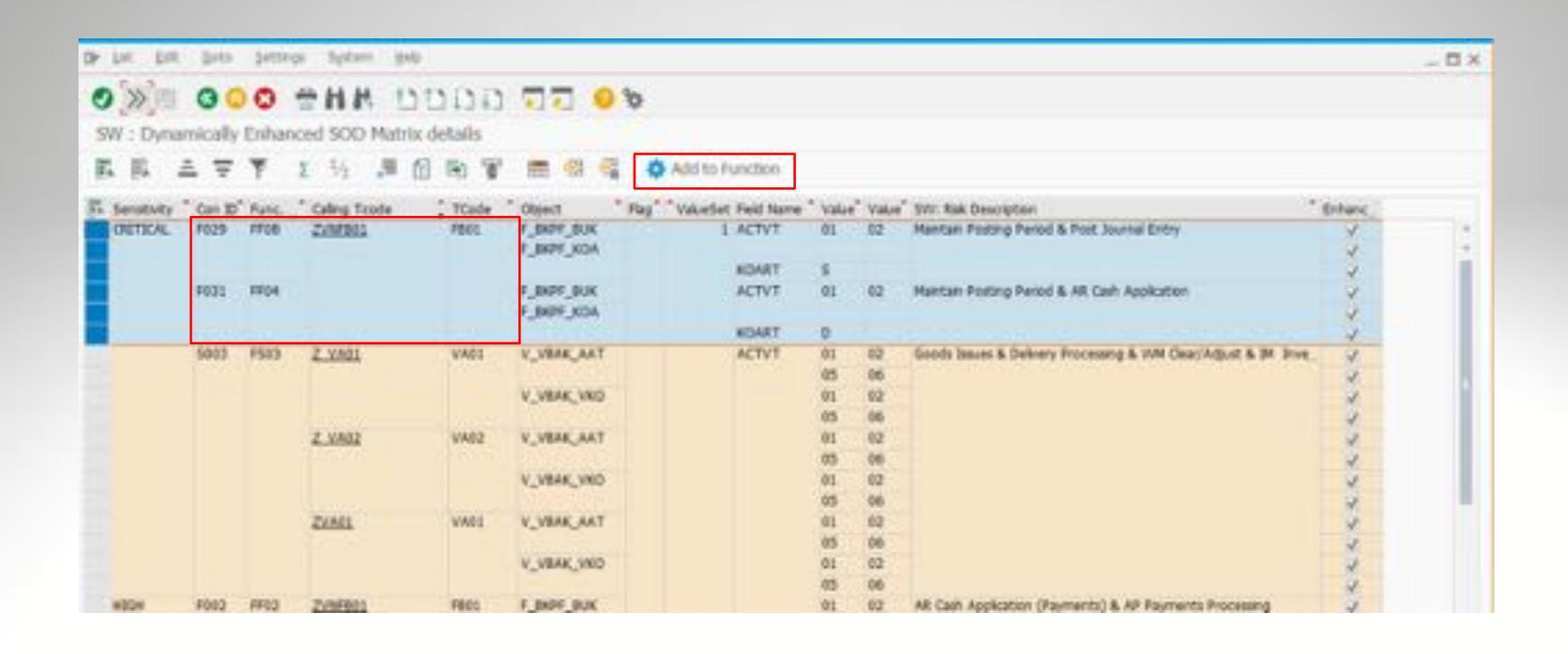


Complexity due to Custom Code





Complexity due to Custom Code





SUMMARY AND Q&A

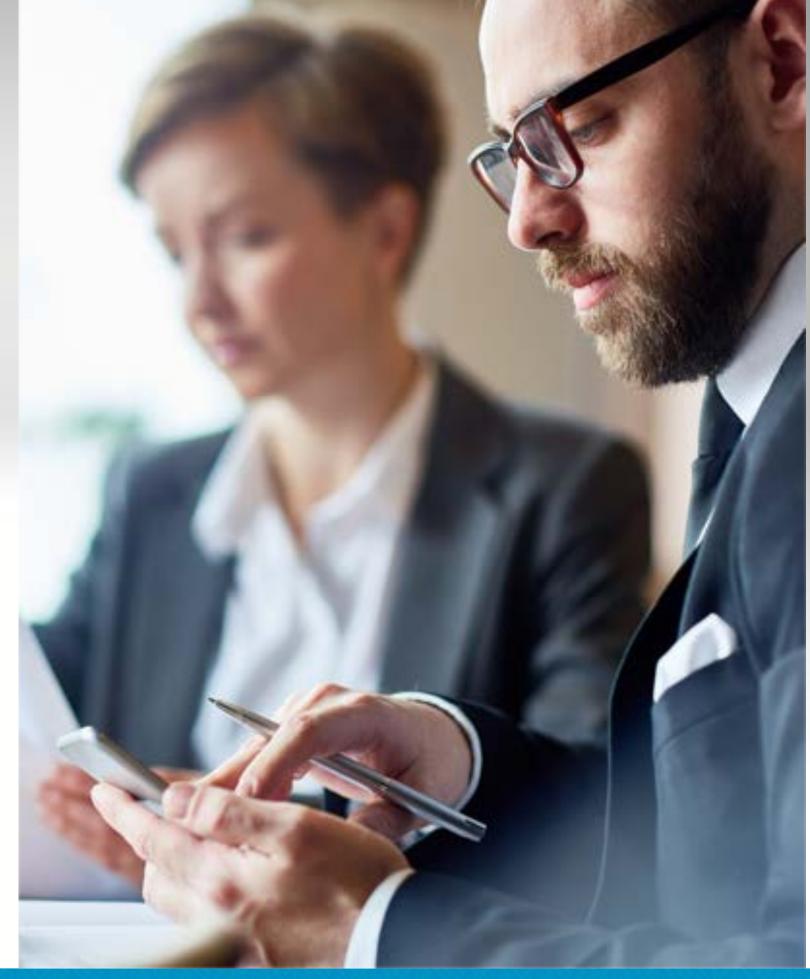
- Automatic Discovery of Organizational Configuration, Customizing and custom code in the landscape increases accuracy of the Segregation of Duties Analysis results.
- Dynamically applying this discovered information to the SOD matrix during the analysis saves time, effort and avoids human error.
- Security Weaver's solution for this is called "Dynamic Matrix" and is part of Separations Enforcer. (version 4.1 or higher)



Related webinars

Please watch these existing Security Weaver User Group (SWUG) webinars

- 4 Key Reports for Managing SOD Risk
- How to Align Stakeholders with Dashboards



https://www.linkedin.com/groups/4642758/



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