



Identity and
Access Governance
for SAP® environments

CSI Authorization Auditor®

Reporting Features

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Observe. Think. Act.



Observe. Think. Act.

- CSI tools developed **dynamic analytics tools** that deliver intelligence from and to decisions taken **in identity and access governance for SAP® environments.**
- CSI tools' cockpit and engine
 - provide insight into your real vulnerabilities,
 - streamline SAP® roles and then
 - deliver practical solutions to improve your risk/security posture, like automated role building and reverse engineering.



Globally Referenced

by hundreds of customers

CSI tools' references are essentially "Fortune 1000" accounts and medium accounts in various sectors like Aerospace & Defense, Automotive, Bank & Insurance, Chemical, Consultancy and Audit, Energy, Oil & Utilities, ICT and Telecom, Manufacturing Industry, Pharmaceutical and Health, Public Organizations, Retail, Transport, etc.



Observe. Think. Act.

Easy to use application

Data Extraction

Data extraction
 Extraction settings
 Get STAD Info through RFC

Data Preparation

Prepare data

Audit

Audit Cockpit
 Select & Run
 Process Audit
 Full Review

Result Container

Result Container

Segregation of Duties

Segregation of Duties

Standard Reporting

Standard Reporting

- Data Extraction
 - Direct download
 - via CSI Data Xtractor
- Data Preparation
 - Create user buffers
- Audit
 - Run one of the +400 queries
- SOD
 - Cross system SOD is possible
- Reporting
 - In batch
 - On Screen



Main Benefits of CSI Authorization Auditor[®]

- Features:
 - Stand alone solution to control you SAP users, SAP roles, SoD conflicts
 - Strong reporting console
- Purpose:
 - Have an insight in all you vulnerabilities in hours



Detailed reporting

interactive screens with all needed information at your fingertips

Current query: FVENDA - FI-MD: Maintain Vendor Master Data (Finance) - SOX_H
Analysis Type: Single run, Second level. Current Domain: <NA>

Current variant: <NA>

Rating: OK
 (Criticality: SOX_H; Total users (rating): 543; % users: 1,29%; Auto rating: OK)


					1	2	3	4	5	6	7	8	9	10	11	12	13	14	15						
<input type="checkbox"/>		A	A	USER021	Y	1	1	1	2													Kathy Asap	!	T	
<input type="checkbox"/>		A	A	USER022	Y	1	2	1	1													Tom Cash	!	T	E
<input type="checkbox"/>		A	A	USER029	Y	2	2	1	1													Micky Jackson	!	T	
<input type="checkbox"/>		A	A	USER048	Y	1	1	1	2													Chris Newman	!	T	
<input type="checkbox"/>	MYCLASS	A	A	USER010	Y	1	1	1	1													John Daby	!	T	E
<input checked="" type="checkbox"/>		A	A	USER009	Y	1	1	1	1													Ronny Osborne	!	T	
<input checked="" type="checkbox"/>	SUPER	A	A	USER003	Y	1	1	1	1													Tom Jones	!	T	

See the delta between who has the authorization and who has the transaction codes and who has used the transaction codes

Observe. Think. Act.




All interrelated information gives insight


Current query: FVENDA - FI-MD: Maintain Vendor Master Data (Finance) - SUX_H
Analysis Type: Single run, Second level. Current Domain: <NA>


Buffer: Micky Jackson

Type	Stat	User	Object	Authorization	Norm Ex.
A	A	Y	USER029	F_LFA1_APP	T-T303009400 ! T
A	A	Y	USER029	F_LFA1_APP	T-T303009401 ! T
▶	A	Y	USER029	F_LFA1_BUK	T-T303009400 ! T
A	A	Y	USER029	F_LFA1_BUK	T-T303009401 ! T
A	A	Y	USER029	F_LFA1_GEN	T-T303009400 ! T
A	A	Y	USER029	F_LFA1_GRP	T-T303009400 ! T

Record: 3 of 6  No Filter Search

Profiles containing this authorization:

Profile and description	Hide Roles
▶ T-T3030094 Profile for activity group SAP_TR_ADMINISTRATOR_AG SAP_TR_ADMINISTRATOR_AG Treasury: Administrator	<input type="checkbox"/>

Record: 1 of 1  No Filter Search

Profile path (only first 5 levels are shown):

Level 1	Level 2	Level 3	Level 4	Level 5
▶				

Authorizations Values:

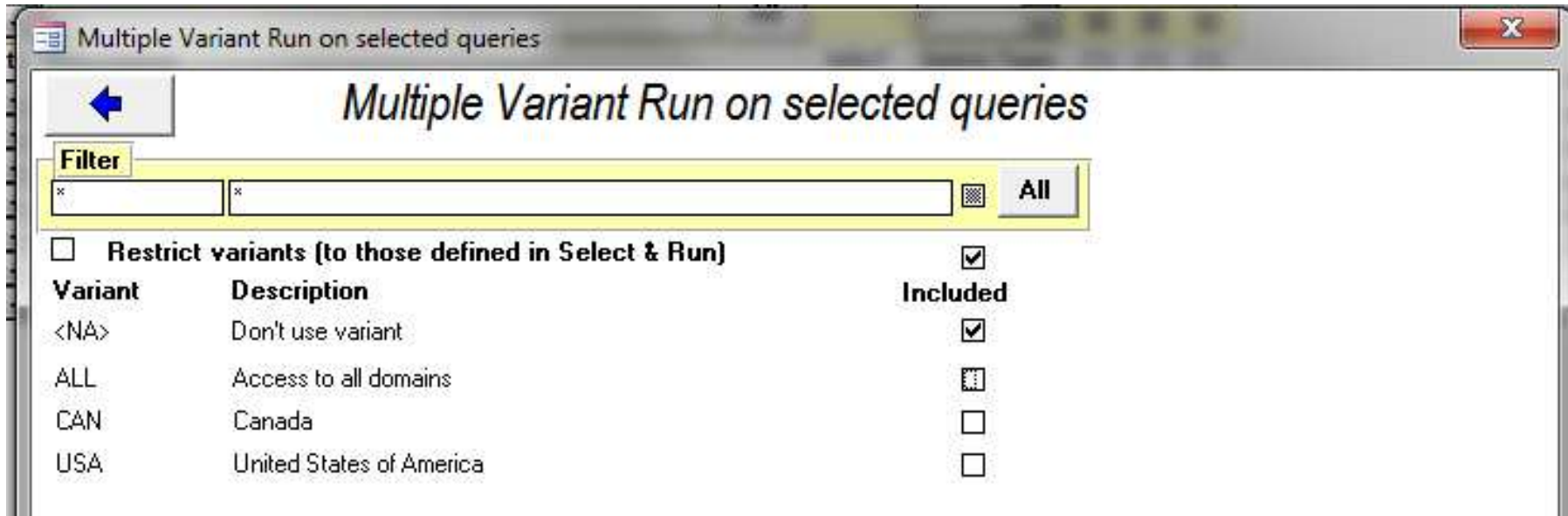
Field	Value (from)	Value (to)
▶ ACTVT	02	
ACTVT	03	
BUKRS	2200	

S_TCODE authorizations for user:

Authorization	Value (from)	Value (to)
▶ T-T303009400	0T41	

Observe. Think. Act.

Mass – ‘automated’ run is possible



Analyses can be done automated per company code, plant, sales organization etc ... reporting per operating company becomes extremely easy

Result Container - Queries

RC - USERS Show Users Process STAD Show Report Options Audit Report

Show Comments Show Profiles

Attached .RCD-file:
D:\Software\CSIAA\RC.RCD

Run statistics

Log. System	Type	Dwnld Date (min)	Run date (max)
P25CLNT405	UST	12/11/2002	11/12/2012

RCD Report footer:
Overview

Involved Person: *

Nbr	Query ID	Variant	Query description	Rating	Criticality	Closing the gap: # Users			Log. Sys.	
						Total	TCode	in Norm		
						CAN	SHOULD	Exe DID		
6	FAPPYA	<NA>	FI-AP: Maintain A/P Outgoing Payment Postings	OK	SOX_M	11	4	0	0	P25CLNT405
7	FAPPRA	<NA>	FI-AP: Maintain A/P Payment Run	OK	SOX_H	10	8	0	5	P25CLNT405
8	FAPPPA	<NA>	FI-AP: Maintain A/P Proposal Run	OK	SOX_M	10	8	0	5	P25CLNT405
9	FAPIVA	<NA>	MM-IV / FI-AP: Maintain Invoice Verification	OK	SOX_H	4	4	0	1	P25CLNT405
10	FARMPA	<NA>	Maintain A/R Manual Postings	MEDIUM	SOX_M	11	6	0	3	P25CLNT405
11	FARPPA	<NA>	Maintain A/R Payment Run	HIGH	SOX_H	10	8	0	5	P25CLNT405
12	MPUREA	<NA>	Maintain Purchase Requisitions	MEDIUM	SOX_M	7	5	0	3	P25CLNT405
13	MPUORA	<NA>	Maintain Purchase Orders	MEDIUM	SOX_M	7	5	0	2	P25CLNT405
14	MPUORR	<NA>	Release Purchase Orders	MEDIUM	SOX_M	8	5	0	0	P25CLNT405
15	MGRPDA	<NA>	Maintain Goods Receipts for Purchase Orders	MEDIUM	SOX_M	9	5	0	0	P25CLNT405
16	SSA38A	<NA>	Execute ABAPs Directly (SA38)	VERY HIGH	SOX_C	21	7	0	2	P25CLNT405
17	SDEBUA	<NA>	Debugging Access Update rights	HIGH	SOX_C	4	0	0	0	P25CLNT405
18	SUSERA	<NA>	Maintain Users (SU01)	VERY HIGH	SOX_C	7	5	0	0	P25CLNT405
19	XVENDA	<NA>	Maintain Vendor Master Data (Centrally)	MEDIUM	SOX_H	6	6	0	2	P25CLNT405
20	AASSEA	<NA>	FI-AA: Maintain Asset Master Data	OK	SOX_H	0	0	0	0	P25CLNT405
21	AAMDPA	<NA>	FI-AA: Maintain Depreciation Run	OK	SOX_H	5	4	0	0	P25CLNT405

Total Currently Selected: 61 Current sort order number: 1 ReSort NOW! Select Deselect

Record: 1 of 61 No Filter Search

Reports can be dynamically adjusted

Result Container - Queries

RC - USERS Show Users Process STAD Hide Report Options Audit Report

Show Comments Show Profiles

Attached .RCD-file:
D:\Software\CSIAA\RC.RCD

Run statistics

Log. System	Type	Dwnld Date (min)	Run date (max)
P25CLNT405	UST	12/11/2002	11/12/2012

Audit Report

- Audit Report
- Audit Query for Export to Excel
- Distributed Audit Report per Query
- Distributed Audit Report per Involved Person

Involved Person: [dropdown]

Closing the gap: # Users [All]

Nbr	Query ID	Variant	Query description	Rating	Criticality	Total TCode	in Norm	Exe	Log. Sys.
*	*	*	*	*	*	CAN	SHOULD	DID	*

Record: 1 of 61 No Filter Search

General Queries Users

Report Options - General settings

Show selected elements

<input checked="" type="checkbox"/> Advanced info	<input checked="" type="checkbox"/> User details	<input checked="" type="checkbox"/> User type/status	<input type="checkbox"/> Control Objectives
<input type="checkbox"/> Audited objects	<input checked="" type="checkbox"/> F/U	<input checked="" type="checkbox"/> Number of users	<input type="checkbox"/> Suggested Controls
<input type="checkbox"/> Audited transaction codes	<input checked="" type="checkbox"/> T_Code	<input checked="" type="checkbox"/> Issues	<input checked="" type="checkbox"/> Profiles causing Authorization & TCode access
<input checked="" type="checkbox"/> Legenda (bottom of report)	<input checked="" type="checkbox"/> Norm	<input type="checkbox"/> Risks	<input checked="" type="checkbox"/> Profiles causing Authorization access
<input checked="" type="checkbox"/> User filter criteria	<input checked="" type="checkbox"/> Executed?	<input type="checkbox"/> Recommendations	<input checked="" type="checkbox"/> Profiles causing TCode access
<input checked="" type="checkbox"/> Involved Persons (signatures)		<input type="checkbox"/> Management responses	

Undo Save Reset defaults



Causing info is mentioned for remediation

Audit Report

CSI Authorization Auditor ®

Reference	FVENDA (3)	Rating	OK
Process	Financial Accounting	Sub Process	Vendors
Subject	FI-MD: Maintain Vendor Master Data (Finan	Logical System	P25CLNT405
Variant	<NA> (Don't use variant)	Criticality	SOX_H
Analysis: Multiple run, Second level			
AND/OR: AND-logic S_TCODE: NO NORM: NO Filter on: * EXECUTED *			

User details (*) See filter criteria at bottom of this report

Super Profile	User group	User Type	Status	User	F/U	T code	Norm	Exe?
<input type="checkbox"/>		A	A	USER021 (Kathy Asap)		Y	!	T
<input type="checkbox"/>		A	A	USER022 (Tom Cash)		Y	!	T
<input type="checkbox"/>		A	A	USER029 (Micky Jackson)		Y	!	T
<input type="checkbox"/>		A	A	USER048 (Chris Newman)		Y	!	T
<input type="checkbox"/>	MYCLASS	A	A	USER010 (John Daby)		Y	!	T
<input checked="" type="checkbox"/>		A	A	USER009 (Ronny Osborne)		Y	!	T
<input checked="" type="checkbox"/>	SUPER	A	A	USER003 (Tom Jones)		Y	!	T

Number of users that meet the criteria: 7 (7 user(s) have Tcode; 0 user(s) are in the norm; 2 user(s) have the executed flag)

User type/status (*) See legend at the bottom of this report

Type/Status	Number of users	Number of users (TCode)
AA	7	7

Single Roles/Single Profiles causing the authorization value and S_TCODE authorization value access

Role/Profile	Number of Users
1 SAP_ISR_GL_BUYER_AG (Retail: Buying Activities)	1
2 SAP_MM_BUYER_AG (MM: Buyer (Ordering of Materials and Services))	1
3 SAP_TR_ADMINISTRATOR_AG (Treasury: Administrator)	1

SOD results with Executed information

SOD Conflict Results

Recalc all totals Update norm changes

SOD Conflict Results

Filter: All

Filter: Show purely '<NA>' conflicts only as '<NA>' All

Total selected records: 35

Sel. Var.	Conflict ID	Description	Template	Reason	User	Name	User group	Type	Status	SOD Norm	T O T A L S		
											TCode	Norm	S. Norm
<input checked="" type="checkbox"/>	<NA>	FIN_MT_B2_0001	FI Posting Periods (Open/Close) At Bi (B2)	A_F1+	USER003	Tom Jones	SUPER	A	A		Y	!	!
<input checked="" type="checkbox"/>	<NA>	FIN_MT_B2_0001	FI Posting Periods (Open/Close) At Bi (B2)	A_F1+	USER004	Alex Mighty	MYCLASS	A	A			!	!
<input checked="" type="checkbox"/>	<NA>	FIN_MT_B2_0001	FI Posting Periods (Open/Close) At Bi (B2)	A_F1+	USER009	Ronny Osborne		A	A		Y	!	!
<input checked="" type="checkbox"/>	<NA>	FIN MT B2 0001	FI Postinn Perinds (Open/Close) At Bi (B2)	A_F1+	USER010	John Dabv	MYCLASS	A	A		Y	!	!

Show Comments Show Template Formula

User is able to open an accounting period and post or change an A/P document in that previous period (circumvent month-end closing procedures) Qa AND Qb

Record: 1 of 24 No Filter Search

Alias Query	Variant	Logical System	TC	Orig. Simulated	Reason	E?
QA FCLOSA	<NA>	P25CLNT405	Y !	T		
QB FAPMPA	<NA>	P25CLNT405	Y !	T		



SOD – statistical reports for remediation project plan 1/2

Segregation of Duties - Statistical overview

CSI Authorization Auditor®

by totals

Total	TCode	Norm	Executed
16	Y	!	
8	Y	!	E
8		!	
3		!	E

by user type

Total	Type	Status
24	A	A

by user

Total User	Name	User group	User type	User status
4 USER003	Tom Jones	SUPER	A	A
4 USER009	Ronny Osborne		A	A
4 USER010	John Daby	MYCLASS	A	A
4 USER022	Tom Cash		A	A
2 USER004	Alex Mighty	MYCLASS	A	A
2 USER030	Ann Peeters		A	A
2 USER042	Amie Bond		A	A
1 USER020	Paul Appelpie	MYCLASS	A	A
1 USER050	Barbara Tarantino		A	A

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SOD – statistical reports for remediation project plan 2/2

by reason

Total	Reason	description
17	A_F1+	SOX : The integrity of FI master data is the basis for the integrity of the FI transactional data based on this master data.
7	A_A3+	SOX : No user should have access to two consecutive stages within the AA flow.
7	A_F4+	SOX : The payment functionality should be segregated from the other transactional data (postings, goods receipts, etc.).
4	A_A1+	SOX : The integrity of AA master data is the basis for the integrity of the AA transactional data based on this master data.

by conflict

Total	Id	Description	Template	Reason
9	FIN_MT_B2_0001	FI Posting Periods (Open/Close) AND A/P Manual Postings	Bi (B2)	A_F1+
7	BDO_DEMO	NewSOD Rule	Bi (B2)	A_A3+
7	PTP_TT_B2_0019	A/P Payment Run AND A/P Manual Postings	Bi (B2)	A_F4+
4	PTP_MT_B2_0007	Vendor M.D. (Fin.) AND A/P Manual Postings	Bi (B2)	A_F1+
4	PTP_MT_B2_0010	Vendor M.D. (Fin.) AND A/P Payment Run	Bi (B2)	A_F1+
4	PTP_MT_M3_0011	Maintain Vendor Master Data (Finance) and Maintain A/P Pa	Multi (M3)	A_A1+

by query

Query	Description	Total	Conflicts	Variants	Users
FAPMPA	FI-AP: Maintain A/P Manual Postings	24	4	1	9
FAPPRA	FI-AP: Maintain A/P Payment Run	15	3	1	7
FARPRA	Maintain A/R Payment Run	7	1	1	7
FCLOSA	FI: Maintain FI Posting Periods (Open-Close)	16	2	1	9
FVE NDA	FI-MD: Maintain Vendor Master Data (Finance)	12	3	1	4



Reports can be run in batch

Report type: Interactive Batch

Report groups

- Inconsistencies
- Users
- Roles
- Profiles
- Authorizations
- System
- Result Container
- Segregation of Duties
- Stad analyzer

Close Standard Reporting

List reports of group :

* [dropdown] [All]

- Users with outdated roles that still have corresponding profiles
- Users with roles with Transaction Codes and audit results
- Users with roles and audit results
- Users with roles and audit results - Full Detailed
- Users with roles and audit results with Transaction Codes
- Y/Z Authorization Objects
- SOD results by reason code (xls)
- SOD results by conflict (xls)
- SOD results by user group (xls)
- SOD results by user type (xls)
- SOD results by user (xls)
- SOD results - Statistical overview
- SOD results - Report - Conflicting Functionality (conflict => user => que
- SOD results by query (xls)
- SOD results by totals (xls)
- SOD results - Report - Conflicting Functionality (conflict => query => us
- SoD_StatM_Details (xls)
- SOD results - Report - Conflicting Functionality (user => conflict => que
- SOD results - Report - Conflicting Functionality (query => conflict => us
- SOD results - full detail (xls)
- SOD results - by Conflict ID and Selected Variant (xls)
- SOD results - by Reason Code and Selected Variant (xls)
- SOD results - by Conflict ID and User Group (xls)
- SOD Illogical Combinations Overview (Export XLS)
- SOD results - full detail with norm and Tcodes (xls)
- SOD results - full detail (only bi-dimensional) (xls)

Print Add to current batch

Configure the application to enable automated rating to ensure consistency

Preferences - Automatic Rating

General

Automatic Rating

Sorting

Reporting

SAP Related

Result Container

Norm Codification

Comments

SOD Templates

Criticality	
SOX_V	Very Critical
SOX_C	Critical
SOX_H	High
SOX_M	Medium
SOX_L	Low
SOX_06	-
SOX_07	-
SOX_08	-
SOX_09	-
SOX_10	-

Rating

Rating parameters

Number of users in this audit: 59

Number of Self Service Users:

Total number of users for rating: 59

Automatic Rating is ON

Rating chart shown for: <NA>

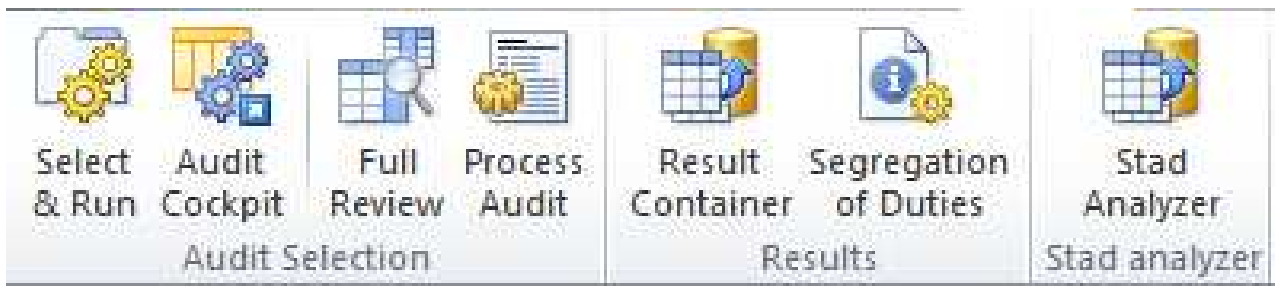
Number of users for <NA>

Criticality ↓	% of users				
SOX_V (Very Critical)	0,05%	1,50%	3,00%	6,00%	
SOX_C (Critical)	1,00%	3,00%	6,00%	12,00%	
SOX_H (High)	2,00%	6,00%	12,00%	24,00%	
SOX_M (Medium)	4,00%	12,00%	24,00%	48,00%	
SOX_L (Low)	8,00%	24,00%	48,00%	90,00%	
SOX_06	0,00%	0,00%	0,00%	0,00%	
SOX_07	0,00%	0,00%	0,00%	0,00%	
SOX_08	0,00%	0,00%	0,00%	0,00%	
SOX_09	0,00%	0,00%	0,00%	0,00%	
SOX_10	0,00%	0,00%	0,00%	0,00%	
Rating →	OK	LOW	MEDIUM	HIGH	VERY HIGH

Close Preferences

Observe. Think. Act.

Menus with all information you need



CSI
Export to Excel
Export to excel

1 - Attach

2 - Result container ▼

2a - Select processes

2b - Select queries

2c - Select involved persons

3 - Export

Exit

RC headers

Preferences

Queries			
Variant	Query	Description	Log.Sys.
<input checked="" type="checkbox"/>	*	*	*
<input type="checkbox"/>	<NA>	FGLMAA	FI-GL: Maintain G/L Master Dat.. P25CLNT405
<input type="checkbox"/>	<NA>	FGLMCA	FI-GL: Maintain G/L Master Dat.. P25CLNT405
<input type="checkbox"/>	<NA>	FVENDA	FI-MD: Maintain Vendor Master... P25CLNT405
<input type="checkbox"/>	<NA>	FCLOSA	FI: Maintain FI Posting Periods (... P25CLNT405
<input type="checkbox"/>	<NA>	FAPMPA	FI-AP: Maintain A/P Manual Pos... P25CLNT405

Total row count: 61

Settings

Save folder:

File prefix: !! Existing files will be overwritten !!

Close workbook after export (reduces system resources) Maximum rows on a sheet:

Grouping by queries

No grouping

New worksheet

New workbook

Preferences

Export query data (crosstab)

Export statistic data (executed information)

Export query info

Export query detail

Export flat data

Group data (slow)

Apply advanced layout format

Format detail sheet (slow)

Apply autofilter (non blanks)

Add sheet summaries

Grouping by Involved Person (on user-id level)

No grouping New worksheet New workbook on user on user group



One example of CSI E2E

Conflict Info: PTP_MT_B2_0010									
Vendor M.D. (Fin.) AND A/P Payment Run									
Bi (B2) - Qa AND Qb									
Selected domain: <NA>									
A F1+	P25CLNT405	FAPPRA	<↑FI-AP: Mainta	A F1+	P25CLNT405	FVENDA	<↑FI-MD: Mai		
F110	Parameters for Automatic Paym	Audit	STAD	FK01	Create Vendor (Accounting)	Audit	STAD		
F110S	Automatic Scheduling of Payme	Audit	STAD	FK02	Change Vendor (Accounting)	Audit	STAD		
FBZ0	Display/Edit Payment Proposal	Audit	STAD	FK05	Block Vendor (Accounting)	Audit	STAD		
FBZ5	Print Check for Payment Docum	Audit	STAD	FK06	Mark Vendor for Deletion (Acctr	Audit	STAD		
FDTA	TemSe/REGUT Data Administra	Audit	STAD	OCCK	Vendor: Trading Partner	Audit	STAD		
				OT41	C FI Change Vendor	Audit	STAD		
				XK01	Create vendor (centrally)	Audit	STAD		
				XK02	Change vendor (centrally)	Audit	STAD		
				XK05	Block Vendor (Centrally)	Audit	STAD		
				XK06	Mark vendor for deletion (central	Audit	STAD		
				XK99	Mass maintenance, vendor mas	Audit	STAD		
Users									
USER003	Tom Jones	Y: !		FAPPRA	USER003	Tom Jones	Y: !		FVENDA
USER009	Ronny Osborne	Y: !		FAPPRA	USER009	Ronny Osborne	Y: !		FVENDA
USER010	John Daby	Y: !	E	FAPPRA	USER010	John Daby	Y: !	E	FVENDA
USER022	Tom Cash	Y: !	E	FAPPRA	USER022	Tom Cash	Y: !	E	FVENDA

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Auditing CSI Authorization Auditor[®]

- Efficient (ROI)
 - Can be done remotely avoiding all types of collateral costs such as hotel expenses
 - Can be done online with instant access to intelligence reports
- Effective (Best Practice / Security Improvement)
 - Mergers: IT risks are known within the week
 - QA check on your SAP monitoring system
 - Simulation on rule changes
 - How much does the system deviate
- Tuned for business readiness
 - Dynamic and pointed on demand on any SAP system
 - Mergers: process & IT risks are known in the week
 - Report on Desired state versus Actual state

Observe. Think. Act.



Identity and
Access Governance
for SAP® environments

Thank you

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