

Introduction Security Weaver

Martin de Lange
Security Weaver

Where can we help? Being in Control!



Know what's happening
in your SAP- and related
system(s)



Being Compliant



Having an efficient
Solution

Example of Customers in Europe

SIEMENS

 **Rolls-Royce®**

**SEVERN
TRENT
WATER**

ASM 
Assembly Systems



serco

 **AIRBUS**

 **amprion**


SWAROVSKI

 **Lundbeck**

 **Duni**


novo nordisk®

dyson

Booking.com

 **BOSCH**

 **Atlas Copco**

‘Security Weaver is a *preferred* choice for any SAP-centric organization looking for a reasonable total cost of ownership solution.....’

Source: Gartner, Market Guide for SOD Controls Monitoring Tools Published

Feel free to get in contact at any time!

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Do you know what's happening in your SAP-system(s)?

serco

Gerald West

20th October 2020



Do you know how many....

Users having risky access...?

Invoices getting paid twice...?

Changes to sensitive fields on vendors.... ?

SoD-conflicts being exploited....?

Users performing risky actions...?

Critical configuration changes...?

Continuous Controls Monitoring (CCM) brings



Agenda

- Introduction – 3
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- Part 2 - CCM Use Cases - 10
- Part 3 - Process Controls - 7
- Wrap Up - 2

- Provides outsourcing services to governments & public sector (mainly Defence, Health, Citizen Services, Justice & Immigration, Transport)
- Main operations in UK, Europe, Middle East, ASPAC and North America
- Running SAP since 2007 - ECC (x2), SRM, CRM, BW, BPC, BO, PI, SolMan, SuccessFactors, SAP Concur
- Over 35,000 SAP users

The background features a series of concentric circles in light gray, some solid and some dashed. A prominent dark blue swoosh, resembling a stylized 'C' or a comet tail, curves around the left side of a large gray circle. The text is centered within this gray circle.

Part 1 – Controls Approach

Overview of Controls Approach

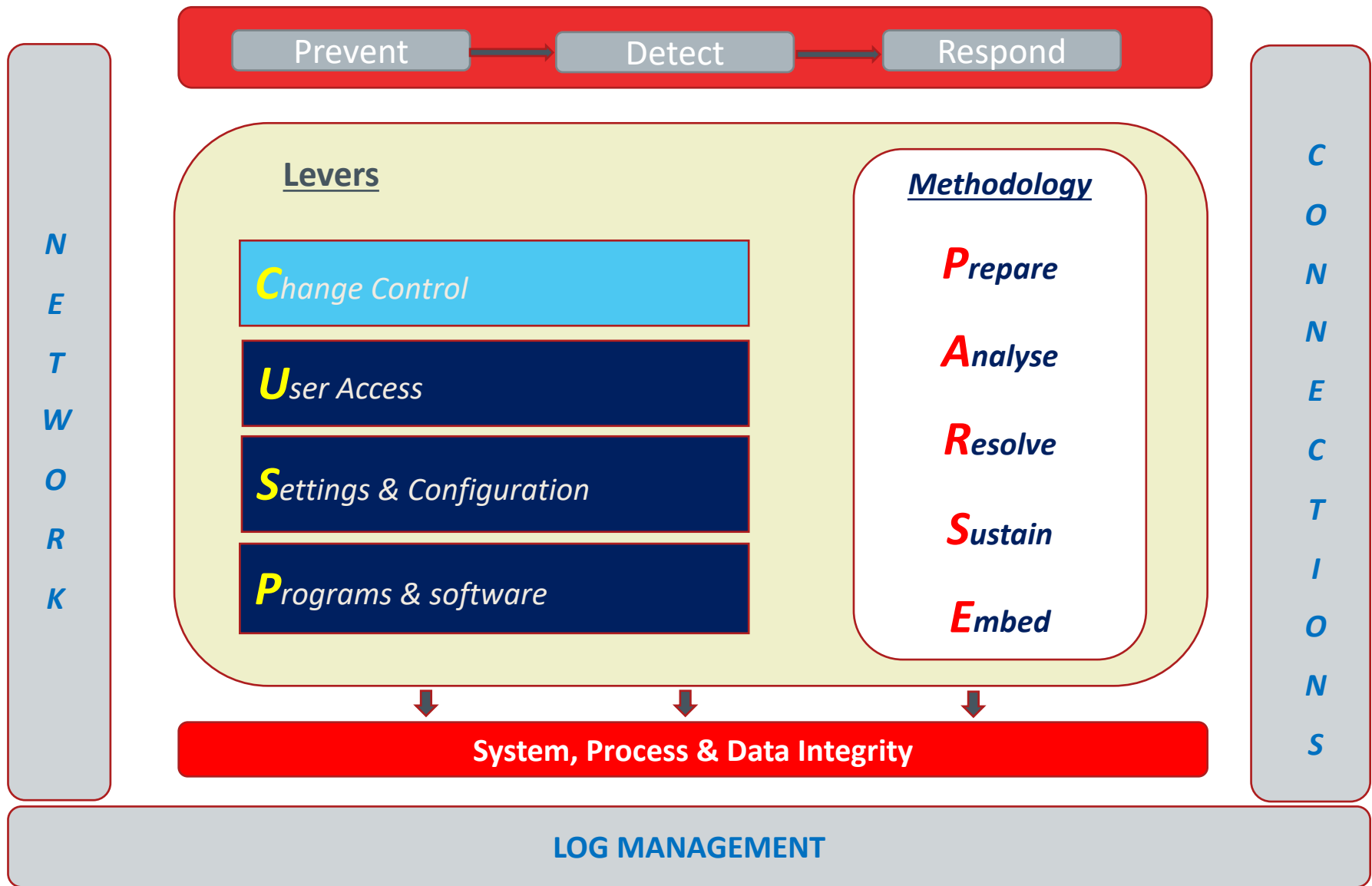
Dimensions



Initiatives



Controls Approach – The Technology Shield



Continuous Controls Monitoring – The RACE



Report

Alert

Check

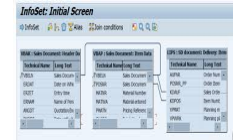
Execute

Create report on controls-relevant dataset

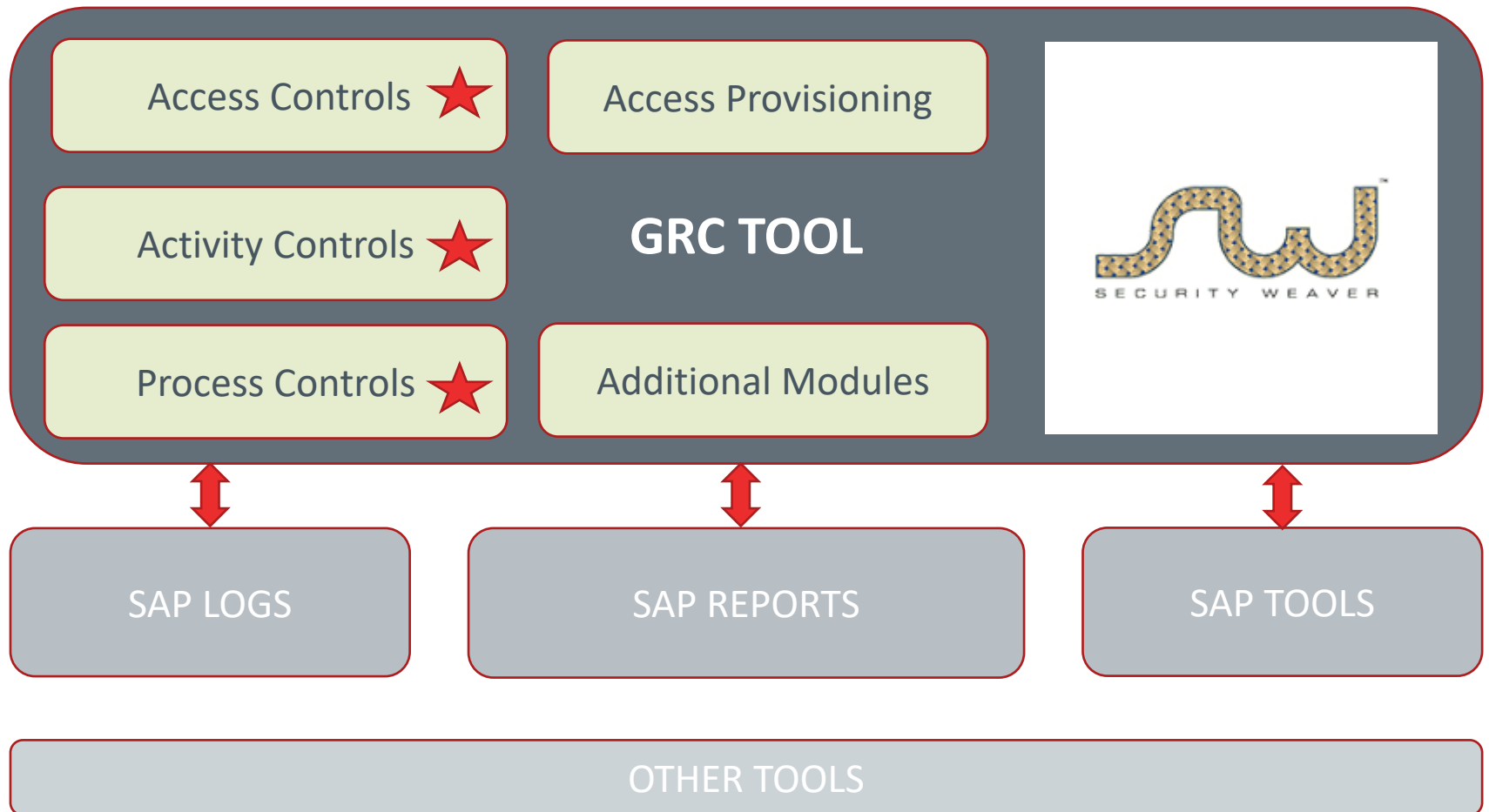
Capture exceptional scenario via a variant and automate with a batch job

Investigate the exceptions reported

Take the required corrective action



Controls Platform – Overview



★ CCM Focus

Controls Platform – Security Weaver Use Cases

Separations Enforcer – Critical authorizations, Segregation of Duties (SoD), Sensitive access, Organisational access, Personal Data Access

Secure Enterprise – Non-SAP/Cross-System SoD and Critical Authorizations

Emergency Repair – Firefighter (Exceptional) Access

Process Auditor – Master Data Checks, Configuration and Settings Monitoring, Transaction Monitoring

Transaction Archive - User Intelligence, Alerts, Forensics

Licence Management – Compliance, Optimization, Simulation

Reset Password – Self-service password reset for all SAP systems

Controls Platform – Value Streams

- **Risk reduction**

- Manages **user access** risks
- Ensures **secure settings and configuration**
- Checks for **data integrity** (reduces risk of fraud/error)
- Accelerates and enhances **detection of risky events/transactions**

- **Cost savings**

- Reduces **cash leakage** (e.g. identifying duplicate invoices)
- Avoids **process re-work costs** (e.g. flagging duplicate vendors)
- Slashes the cost of **SAP password resets**
- Cuts down effort and cost of **role maintenance**



Part 2 – Continuous Controls Monitoring (CCM) Use Cases

CCM Use Cases – Access Controls

Key Objective

Monitor and manage segregation-of-duties, critical access & data access

Tools

SW Separations Enforcer
SW Secure Enterprise

Tips/Lessons/Ideas

1. Use single-sided SoD conflicts for critical/data access rulesets
2. Leverage usage information
3. Report on FF assignments

Pprepare

- Review and refine risk ruleset
- Understand risk scenarios
- Identify risk owners and process

Aanalyse

- Review risk report with risk owners
- Devise “get clean” solution options

Resolve

- Remediate roles (single/composite)
- Remediate/Mitigate users

Sustain

- Automate risk reports
- Establish ongoing resolution process

Embed

- Incorporate risk analysis & resolution into provisioning process

Continuous Controls Monitoring – Access Controls Example

SOD User Analysis





User Restriction

Verify Users

User ID(s)		to		
User Group(s)		to		
Company		to		
Department		to		
Central User ID		to		
Role		to		
Profile		to		
☒ Valid and Dialog users only				
User type	A	to		
Exclude Users:				
☒ Locked				
☒ Outside of Validity Dates (Expired/Future)				



Conflict Restriction

Conflict ID(s)		to		
Conflict Application Area		to		
Process Area		to		
Conflict Owner		to		
Conflict Sensitivity		to		
Risk Scenario		to		
Proposed Mitigation		to		
☐ Include Custom Conflicts				
SOD Version	4			

Continuous Controls Monitoring – Access Controls Example

SOD User Analysis





Cross System/Remote Options

Conflict origin ☒ Local ☐ Remote ☐ Cross

☐ Only analyze users that exist in local system

☐ Only analyze remote systems

☒ ABAP Applications

Cross System (RFC): to 

☐ Non-ABAP Applications

Application to 

System ID to 



Simulation Options

Add Roles

☐ Simulate by adding Roles

Source RFC	Target RFC	Role From		Role To	
			to		
			to		
			to		
			to		

Remove Roles

☐ Simulate by Removing Roles

RFC destination for Role	Role From		Role To	
		to		
		to		
		to		
		to		

Continuous Controls Monitoring – Access Controls Example

SOD User Analysis



SOD Live Options

- ☒ Standard SOD Analysis
- ☐ Analyze Authorizations and check if Users executed conflicting T-Codes
- ☐ Analyze Authorizations and check if changes were made in conflicting Tcodes

Time frame for historical data

28.03.2020

to

26.04.2020



Output Options

- ☒ SOD Conflict Summary
- ☐ SOD Conflict details (Advanced use; Auth. Details)
- ☐ SOD Conflict details tree (Advanced use; Auth. Details)
- ☐ SOD Conflict details - Simplified View

List display

Layout Summary output

- ☒ Show Mitigated Conflicts
- ☐ Show Users w/o Conflicts
- ☐ Highlight Conflicts
- ☐ Show Composite Role(s)
- ☒ Output results (screen/spool)

Continuous Controls Monitoring – Access Controls Example

 Execution Options

☐ Include ER Pre-Approved roles

☐ Exclude ER Assigned Roles

☐ Update SOD Scan table

☐ Org. level check

Org. Level to

☐ Dynamically Enhance Matrix

☐ Highlight Dynamically Enhanced Conflicts

☐ Number of Parallel Processes to use (4 max; see documentation)

☒ Default server group

☐ Server Group

☐ Specific application server

Max. users per process.

 Background processing

CAUTION

Processing may TIME OUT if large amount of data are selected.

In that case, it is recommended to run report in background:

Continuous Controls Monitoring – Access Controls Example

Security Weaver: Segregation of Duties Analysis SOD Version 004

Tree output
 Show Texts
 Add Historical Usage
 Propose Remediation
 Simplified View

Details: User(s) with SOD conflicts

SOD version: 004 : Customized Version

User & Date: [REDACTED] on 27.04.2020 17:09:09

Summary 1 User(s) analyzed. Avg 1 SOD Conflict(s) in 1 user(s)

User ID	Sens	Con ID	SW: Risk Description	Risk	Func. ID	Tcode	Sys-Cl	Object	Authorization	Field Name	From	To Role	Profile
[REDACTED]	HIGH	BC04	Functional Configuration (Direct Data Maintenance in Tables) & System Administration		BC10	SE16	EP1600	S_TABU_DIS	T-E184831300 T-E285049700 T-E285049701 T-E285677503 T-P355539305 T-P355844800 T-P355931700 T-P355931702	ACTVT	02	ZXXTEMP_SW ZXXSWPA01	T-E1848313 T-E2850497
											02	ZXXSA04	T-E2856775
											02	/PSYNG/SW_ER ADMINISTRATOR	T-P3555393
											02	/PSYNG/SP_CHANGE	T-P3558448
											02	/PSYNG/SW_ADMIN	T-P3559317
								S_TCODE	T-E193950800 T-E195050300 T-E285650700 T-E285677500 T-E285677600	TCD	SE16	ZXXSA12 ZXXSA13 ZXXEA01 ZXXSA04 ZXXSA05	T-E1939508 T-E1950503 T-E28565071 T-E2856775 T-E2856776
							SM30	S_TABU_DIS	T-E184831300 T-E285049700 T-E285049701 T-E285677503 T-P355539305 T-P355844800 T-P355931700 T-P355931702	ACTVT	02	ZXXTEMP_SW ZXXSWPA01	T-E1848313 T-E2850497
											02	ZXXSA04	T-E2856775
											02	/PSYNG/SW_ER ADMINISTRATOR	T-P3555393
											02	/PSYNG/SP_CHANGE	T-P3558448
											02	/PSYNG/SW_ADMIN	T-P3559317
								S_TCODE	T-E285650700 T-E285677500	TCD	SM30	ZXXEA01 ZXXSA04	T-E28565071 T-E2856775
					BC17	SM04		S_ADMI_FCD	T-E195050300 T-E285677500 T-E285677600	S_ADMI_FCD	PADM	ZXXSA13 ZXXSA04 ZXXSA05	T-E1950503 T-E2856775 T-E2856776
								S_TCODE	T-E195050300 T-E285650700 T-E285677500 T-E285677600	TCD	SM04	ZXXSA13 ZXXEA01 ZXXSA04 ZXXSA05	T-E1950503 T-E28565071 T-E2856775 T-E2856776
							SM13	S_ADMI_FCD	T-E285677500 T-E285677600	S_ADMI_FCD	UADM	ZXXSA04 ZXXSA05	T-E2856775 T-E2856776
								S_TCODE	T-E285677500 T-E285677600	TCD	SM13	ZXXSA04 ZXXSA05	T-E2856775 T-E2856776
						SM20		S_ADMI_FCD	T-E285650700 T-E285677500	S_ADMI_FCD	SM21	ZXXEA01 ZXXSA04	T-E28565071 T-E2856775
								S_TCODE	T-E195050300	TCD	SM20	ZXXSA13	T-E1950503

CCM Use Cases - Activity Controls

Key Objective

Monitor and report on user activity

Tools

SW Transaction Archive

Tips/Lessons/Ideas

1. Check executed SoD analysis
2. Drill-down to change documents for forensic analysis
3. Note user terminals

Pprepare

- Set up data capture rules
- Set up integration to other logs
- Define rules and alert recipients

Aanalyse

- Run activity reports & review results
- Identify sensitive/risky actions

Resolve

- Follow up with relevant users
- Modify access as appropriate

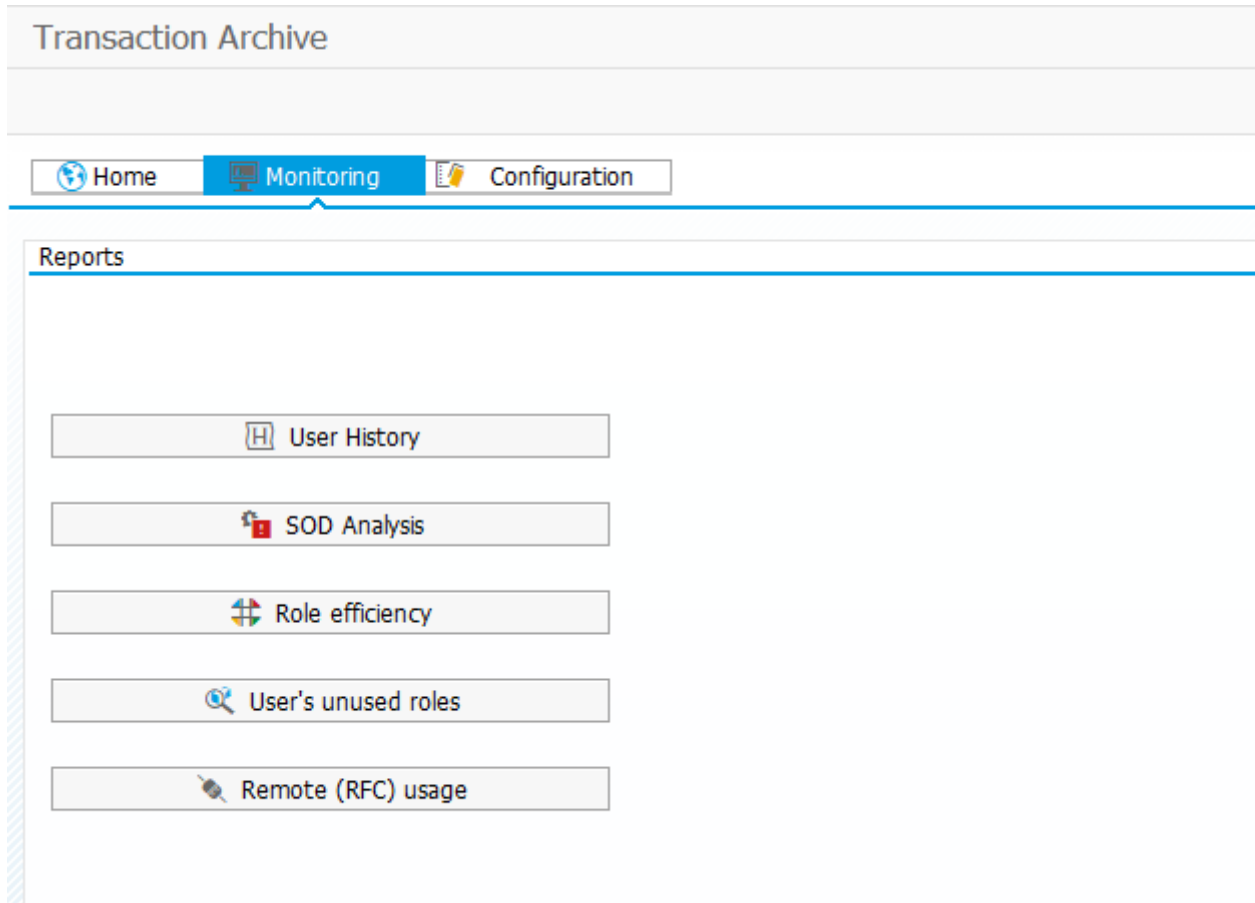
Sustain

- Schedule reports to run regularly
- Create sensitive action alerts

Eembed

- Incorporate user activity monitoring into controls processes

User Intelligence – Transaction Archive Examples



Transaction Archive – User History Example

TA: History Summary



History reading options

User IDs		to		
User Group		to		
Company		to		
Department		to		
Terminal		to		

☒ No Terminal ☒ Multiple Terminals ☒ One Terminal

☐ Valid and dialog users only

☒ Show Transactions

☐ Show Changes

Date Scope:

Read From

to

History Available dates: 29.10.2013 to 26.04.2020

Output:

☒ Summarized

☒ Overall ☐ Month ☐ Week ☐ Day

☐ All details by day

Transaction codes or Services		to		
Remote System (RFC)		to		

☐ Only analyze remote systems

Output Option

Show Insert,Update,Delete Steps

☐

 Background Processing

Transaction Archive – User History Example

TA: History Summary							
History Summary							
RFC	User ID	User Full Name	Terminal	Interactio	Data Type	Tcode or Service	Description
HP1600	[REDACTED]	Gerald West	10111111	29		(None)	No transaction code
			L-60111111	72		/PSYNG/LM	SW: License Management
				24	60	/PSYNG/TA	Transaction Archive
				61	60	PFCG	Role Maintenance
				79	60	SE16N	General Table Display
				12	60	SESSION MANAGER	Session Manager Menu Tree Display
				125	60	SQ00	SAP Query: Start queries
				30	60	SU01D	User Display
				0	60	SU53	Evaluate Authorization Check

- Terminal now included to indicate where user is accessing from
- Pencil icon allows drill down into change documents

CCM Use Cases – Process Controls

Key Objective

Monitor and manage configuration and data integrity

Tools

SW Process Auditor

Tips/Lessons/Ideas

1. Start with simple IT controls
2. Assemble a broad working group
3. Invest in design

Pprepare

- Review standard controls
- Refine and customize as required
- Define rules and alert recipients

Aanalyse

- Execute controls & review results
- Devise remediation options

Resolve

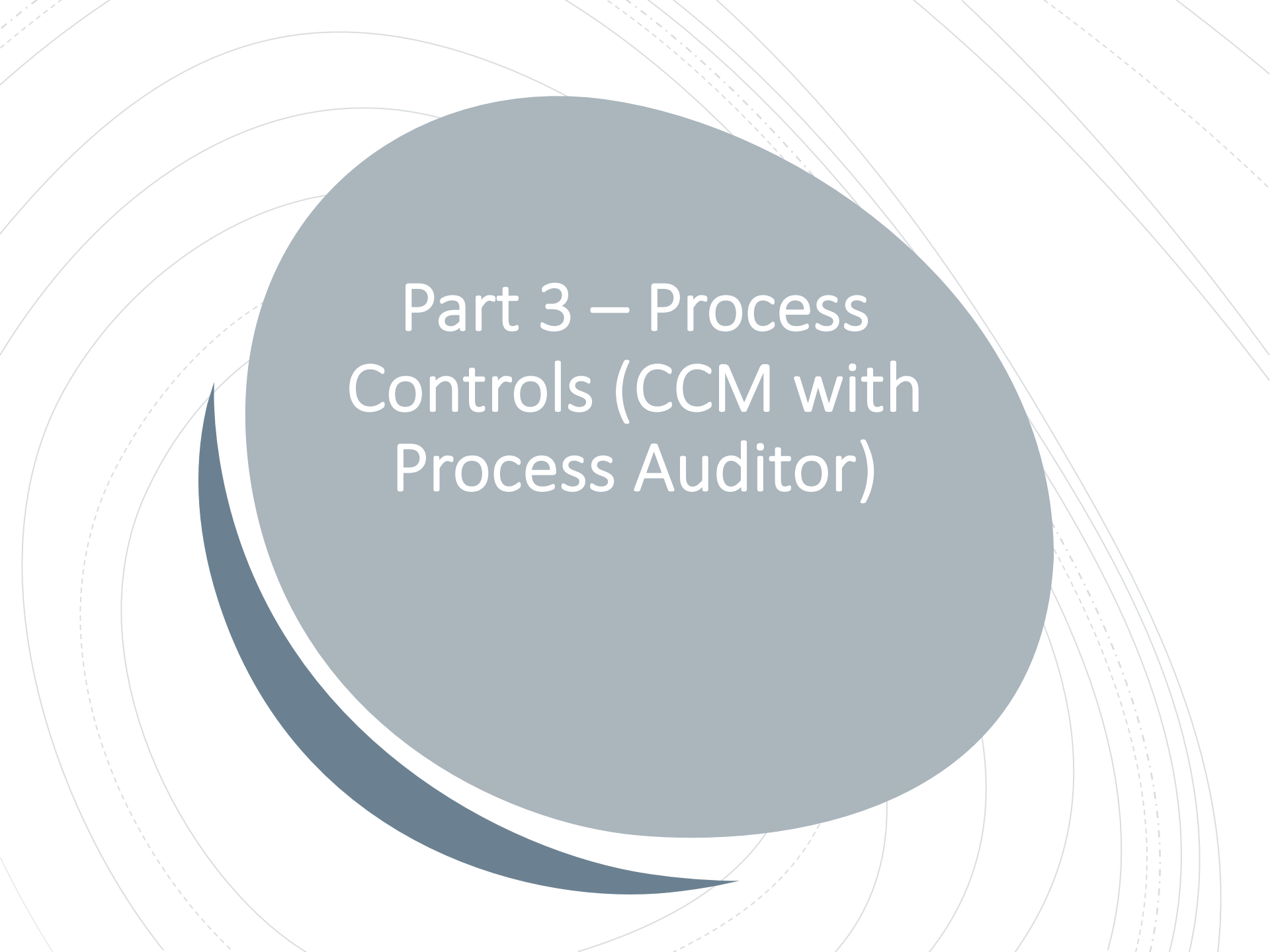
- Update configuration/data
- Update and close cases

Sustain

- Schedule controls to run regularly
- Establish ongoing resolution process

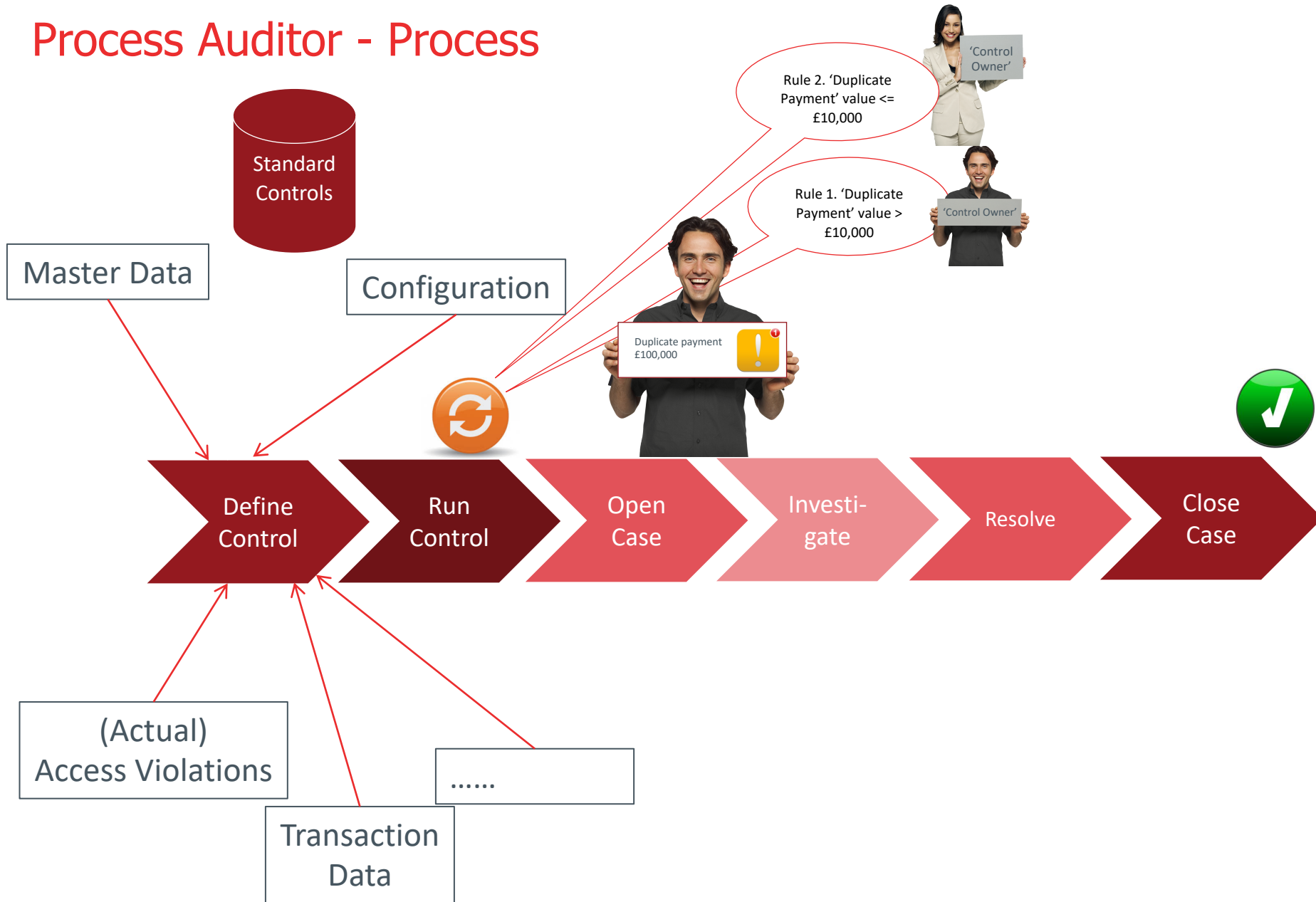
Embed

- Incorporate controls into core processes as appropriate

The background features a series of concentric circles in light gray, some solid and some dashed. A prominent dark blue swoosh, resembling a stylized comma or a thick brushstroke, curves from the bottom left towards the center. The main title is centered within a large, solid gray circle.

Part 3 – Process Controls (CCM with Process Auditor)

Process Auditor - Process



Example control – 'Overpaid invoices against goods received'

The screenshot displays the Process Auditor (TM) Version 3.0PS3 software interface. The main window shows the configuration for a control named 'P2P03'. The control is active and its description is 'Overpaid Invoices against goods received'. The control type is set to 'Transaction' and the process is 'P2P'. The email text is '/PSYNG/SA_CID_NOTIF_MAIL'. A red box highlights the description text: 'Incoming invoices are always checked against goods receipt. This control will report invoices which are overpaid if there is a difference between actual quantities received against what is specified in Invoice line item.'

Below the main configuration window, a smaller window titled 'DM1(1)/800 Process Auditor(TM) Version 3.0PS3' displays a table of controls. The table has columns for Rule ID, Owner, Alert, Active, Create Duplicate Alerts, Generate Case ID with..., Risk Type, Schedule, and Secondary Emails (Separated By). The row for rule P2P03 shows it is owned by DHORIONS, has an alert icon, is active, and has a risk type of High.

Rule ID	Owner	Alert	Active	Create Duplicate Alerts	Generate Case ID with...	Risk Type	Schedule	Secondary Emails (Separated By)
P2P03	DHORIONS		☒	Yes	Yes	High	Daily	schaubey@securityweaver.com

Example control – 'Overpaid invoices against goods received'

System Help

Process Auditor(TM) Version 3.0PS3

Home My Inbox Development Workbench Administration Reports

Controls

- Header
- Rule Parameters**
- Batch Execution

Rule ID: P2P03 Description: Overpaid Invoices against Goods received

Upload Copy Add Multiple

Parameter	Key	Sign	Option	Low Value	High Value	Parameter Description
VARIANCE	☐	I	☐ EQ	= 1		Threshold Variance
BELNR	☐	I	☐ BT	0	9999999999	Number of a material ledger document / price change document
EBELN	☐	I	☐ BT	0	9999999999	Purchasing Document Number
NUMOFDAY	☐	I	☐ EQ	= 9999		Number of Days

A man with dark hair, smiling, wearing a dark button-down shirt. He is holding a white rectangular sign with a red border. On the sign, the text "Controls Owners inbox" is written in black. To the right of the text is a yellow square icon with a white exclamation mark and a small red circle with a white exclamation mark in the top right corner.

Example control – 'Overpaid invoices against goods received'

System Help

✓ [dropdown] << [icons]

P2P03:Overpaid Invoices against Goods received

[icons] Upload Attachment

Invoice Number	Item	Created On	Invoice Amount	Curren...	Good Receipt Val...	Curren...	Purchasing Document	Material Number	Goods Receipt	Created By	Status	Syste..
5105600776	10	07/16/2017	70,700.00	USD	70,000.00	USD	4500000016	00000000000000000021	5000000023	ODUBEY	Open	P33
5105600777	20	07/16/2017	50,500.00	USD	50,000.00	USD	4500000017	00000000000000000022	5000000024	ODUBEY	Open	P33
5105600774	10	07/16/2017	35,350.00	USD	35,000.00	USD	4500000018	00000000000000000022	5000000027	ODUBEY	Open	P33
5105600775	10	07/16/2017	30,300.00	USD	30,000.00	USD	4500000015	00000000000000000021	5000000025	ODUBEY	Open	P33
5105600773	10	07/16/2017	20,200.00	USD	20,000.00	USD	4500000014	00000000000000000021	5000000022	ODUBEY	Open	P33
5105600774	30	07/16/2017	20,200.00	USD	20,000.00	USD	4500000018	00000000000000000021	5000000027	ODUBEY	Open	P33
5105600774	20	07/16/2017	15,150.00	USD	15,000.00	USD	4500000018	00000000000000000021	5000000027	ODUBEY	Open	P33
5105600775	20	07/16/2017	5,050.00	USD	5,000.00	USD	4500000015	00000000000000000021	5000000026	ODUBEY	Open	P33
5105600778	10	07/16/2017	4,040.00	USD	4,000.00	USD	4500000019	00000000000000000023	5000000028	ODUBEY	Open	P33

Example control – 'Overpaid invoices against goods received'

Purchase Order Edit Goto Environment System Help

Standard PO 4500000014 Created by Om Dubey

Document Overview On | Print Preview Messages | Personal Setting

Standard PO 4500000014 Vendor TH01 Thai Steel Limited Doc. date 06/27/2017

Delivery/Invoice Conditions Texts Address Communication Partners Additional Data Org. Data Status

Street/House number Phuket 9804 Address details

Postal Code/City 49700 Bangkok

Country US USA

Telephone Extension

Fax Extension

S..	Itm	A	I	Material	Short Text	PO Quantity	O...	C	Deliv. Date	Net Price	Curr...	Per	O...	Matl Group	Plnt	Stor. Location	B
	10			21	Black Cylander 200 CC	20	CM	D	06/30/2017	1,000.00	USD	1	CM	Material gro...	Los Angeles	Lager California	

Example control – 'Overpaid invoices against goods received'

System Help

✓ [dropdown] << [icons]

P2P03:Overpaid Invoices against Goods received

[icons] Upload Attachment

Invoice Number	Item	Created On	Invoice Amount	Currency	Purchasing Document	Material Number	Goods Receipt	Good Receipt Value	Currency	Created By	Status	System At
5105600773	10	07/16/2017	20,200.00	USD	4500000014	0000000000000000021	5000000022	20,000.00	USD	ODUBEY	Closed - corrected	P33
5105600775	10	07/16/2017	30,300.00	USD	4500000015	0000000000000000021	5000000025	30,000.00	USD	ODUBEY	Closed - key risk detected	P33
5105600775	20	07/16/2017	5,050.00	USD	4500000015	0000000000000000021	5000000026	5,000.00	USD	ODUBEY	Open	P33
5105600776	10	07/16/2017	70,700.00	USD	4500000016	0000000000000000021	5000000023	70,000.00	USD	ODUBEY	Open	P33
5105600777	20	07/16/2017	50,500.00	USD	4500000017	0000000000000000022	5000000024	50,000.00	USD	ODUBEY	In Review	P33
5105600774	10	07/16/2017	35,350.00	USD	4500000018	0000000000000000022	5000000027	35,000.00	USD	ODUBEY	Alert assigned to new owner	P33
5105600774	20	07/16/2017	15,150.00	USD	4500000018	0000000000000000021	5000000027	15,000.00	USD	ODUBEY	Closed- False Positive	P33
5105600774	30	07/16/2017	20,200.00	USD	4500000018	0000000000000000021	5000000027	20,000.00	USD	ODUBEY	Closed - corrected	P33
5105600778	10	07/16/2017	4,040.00	USD	4500000019	0000000000000000023	5000000028	4,000.00	USD	ODUBEY	Closed - key risk detected	P33
											Closed - further investigation required	

Example control – 'Overpaid invoices against goods received



System Help

Process Auditor(TM) Version 3.0PS3

Home Controls Development Workbench Administration Reports

Manual Ignore Case Assign Case Close Case Upload Attachment Case Header Case Details

Case ID	Process ...	Organization	Control ID	Description	Rule ID	Date	Total Alerts	Open Alerts	Risk Level	System
00000000000000000000100638	P2P	1000434343	P2P01	Duplicate Payments for Vendors	P2P01	11/14/2018	1	1	HIGH	P33
00000000000000000000100639	P2P	2000	P2P09	Purchase Orders that have Invoices...	P2P09	11/14/2018	4	4	HIGH	P33
00000000000000000000100785	P2P	1000	P2P03	Overpaid Invoices against Goods re...	P2P03	09/13/2019	9	8	HIGH	P33

Process Auditor Examples – Standard Controls

Business Controls

- Duplicate Payments for Vendors
- Zero Value Line Item in Purchase Order
- 3-way match - Changes to configuration for Price variances
- Critical vendor master data changes
- Aged GR/IR balance greater than £x
- Invoices cleared for payment without goods receipt
- Unmatched credit notes greater than x days old
- Employees and Vendors with Same Name or Address
- Changes in Payment Terms for customer or Vendors

IT Controls

- Detect Changes Made in Production Client Settings
- Detect If Changes To Customization Settings Are Allowed In Production Client
- Detect If Profile Parameter No Automatic User SAP* Is Not Activated
- Detect If Login Minimum Password Length Is Not Set To Proper Value
- Detect if Profile Parameter Login Fails To User Lock Is Not Set To Proper Value

Process Auditor Examples – Custom Controls



Type	Control Testing Rules
Config.	3 way match - Changes to configuration for Price variances
Config.	Changes to Critical/Sensitive vendor master data fields
Master Data	Double invoice check in vendor master data
Transaction	Aged GR/IR balances greater than £x
Transaction	Invoices cleared for payment without goods receipt
Transaction	Limit Orders - Invoice value exceeding PO value
Transaction	OTV - bank account used more than 3 x
Transaction	Unmatched credit notes greater than x days old
Transaction	Unmatched Direct Debit payments
Transaction	Duplicate invoices

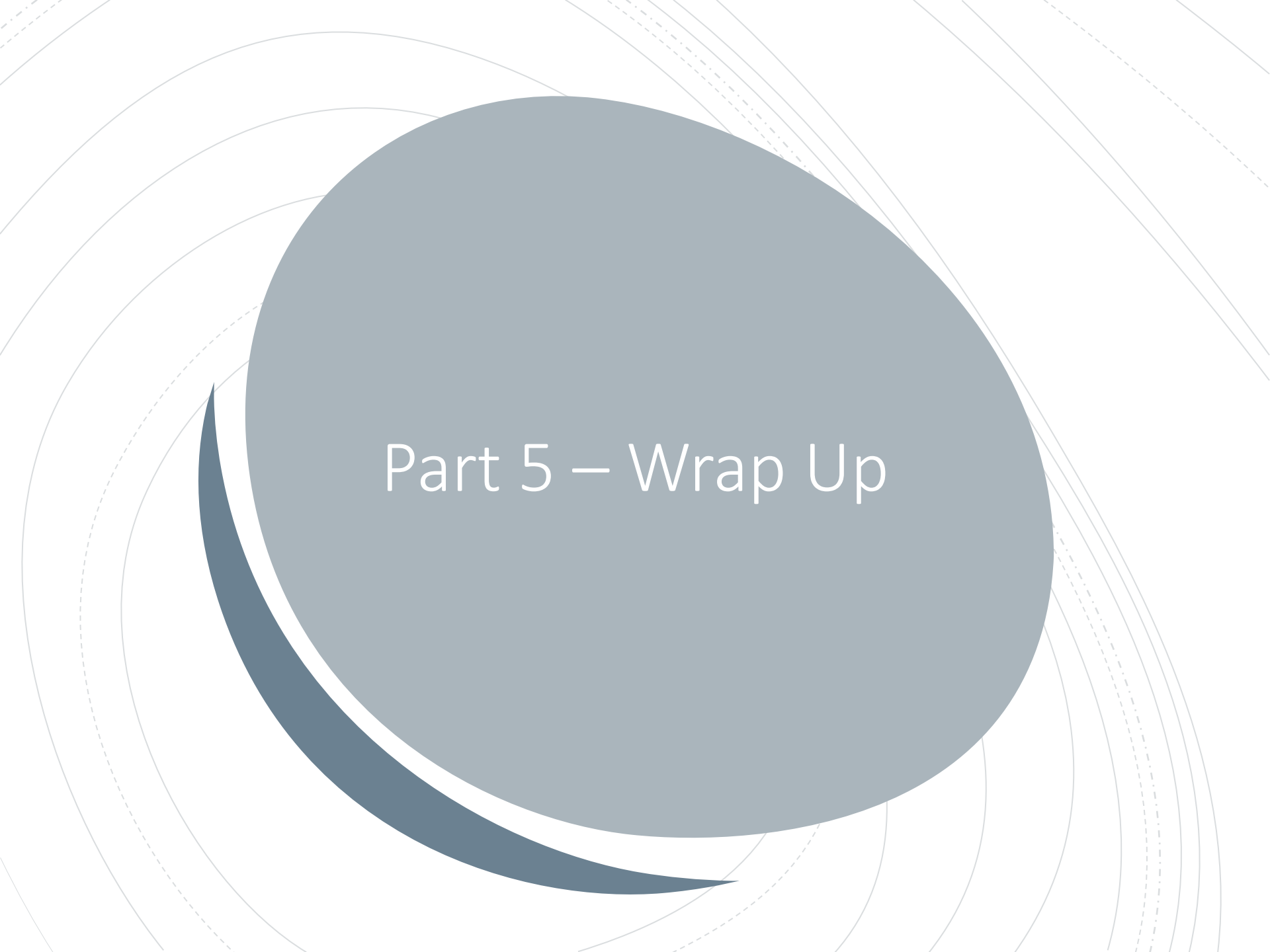
Case Study - Duplicate Invoice Check



Features

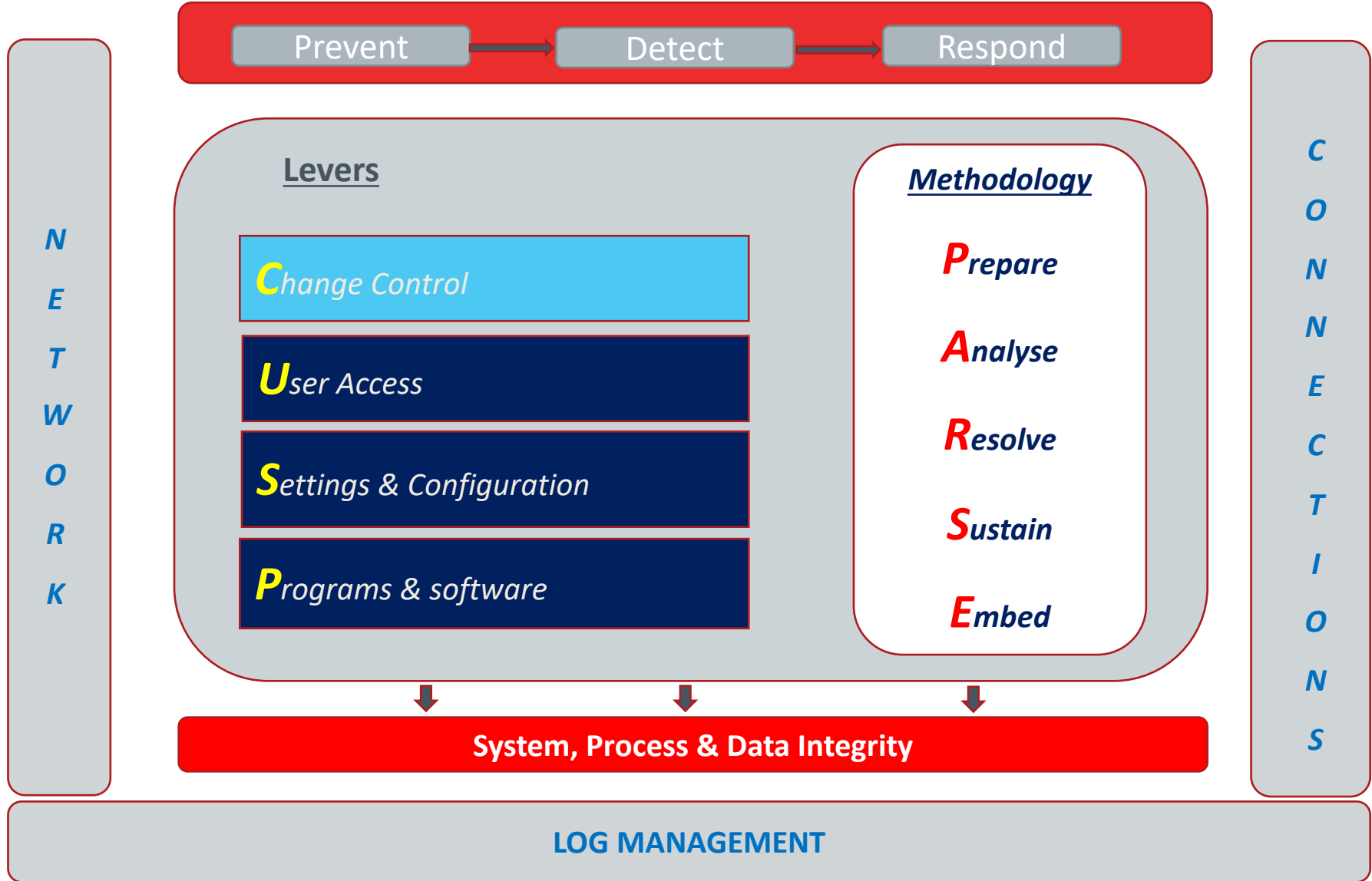
- Possible duplicates identified by **matching on 5 fields** – Vendor Number, Vendor Name, Invoice Reference Number, Invoice Date, Gross Value
- **Grades** assigned to possible duplicates based on number of matching fields => Allows prioritization and focus
- **Fuzzy logic** built into matching on Vendor Name and Invoice Reference
- **Parameters** to control fuzziness of matches e.g. minimum length of matching string for truncation, maximum length difference between strings
- Ability to control size of **comparison set** as well as **selection set**
- **Upstream** check as well as **pre-payment** check
- **Performance** enhancements with upfront indexing

- Expand portfolio of **standard IT and business controls**
- Formalise key IT alerts by creating **custom IT controls** in Process Auditor
- Create additional **custom business controls** for P2P, O2C and RTR processes
- Upgrade modules and implement **web/Fiori** apps
- Integrate Process Auditor with **other SW modules** (e.g. Transaction Archive)
- Develop **user intelligence** and expand CCM accordingly

The background features a series of concentric circles in light gray, some solid and some dashed, creating a sense of depth and movement. A prominent dark blue swoosh, resembling a stylized comma or a thick brushstroke, curves from the bottom left towards the center, partially overlapping the gray circle.

Part 5 – Wrap Up

Protecting SAP – The Technology Shield

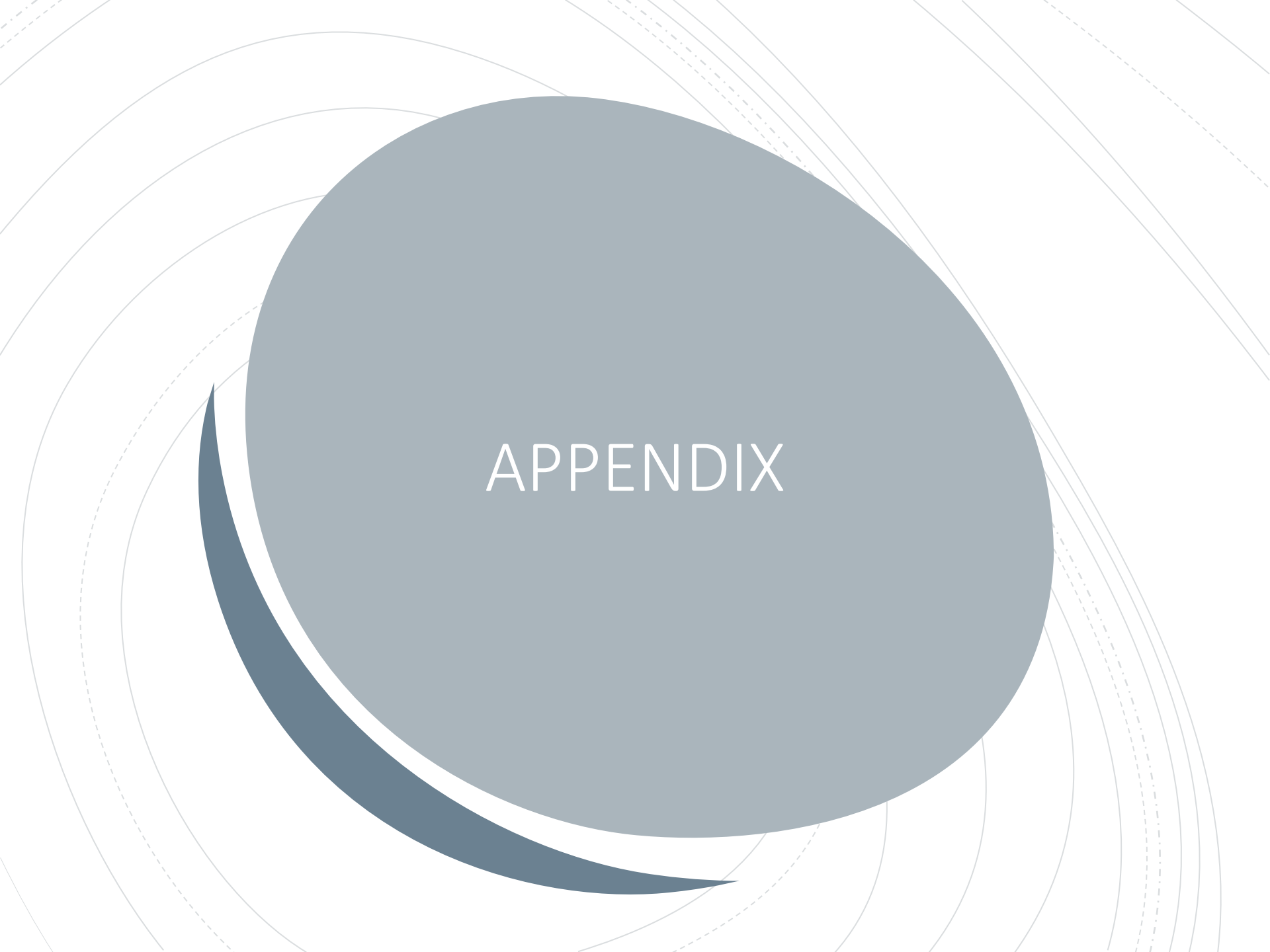


Summary/ Key Points

- Driving value from controls monitoring requires all 4 dimensions of **People, Process, Technology** and **Data** to be effective
- Manage **Change Control, User Access, Settings & Configuration** and **Programs & Software** as the levers of a **Technology Shield**
- Use a simple 5-Step PARSE methodology (**Prepare, Analyse, Resolve, Sustain, Embed**) to manage controls
- Enhance your **Controls Platform** with the right **GRC Tool** to drive effective **prevention, detection** and **response**
- Move from **informal alerts** to **case management** – formalise the management of controls exceptions by employing a **process controls** solution alongside informal alerts
- Unlock early value with **IT Controls** for **system protection** and **business controls** for **cash leakage reduction**

A large, dark, irregular ink blot with splatters on a white background. The blot is roughly circular but has many jagged, feathered edges. It is a deep charcoal or black color. Numerous small, dark droplets and splatters are scattered around the main blot, particularly towards the top and right sides. The overall effect is that of a heavy ink spill or a large, expressive brushstroke.

Questions?



APPENDIX

Controls Owners inbox

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Example control: SoD-violation



System Help



Automated Mitigations

Comments View Attachments Add attachment

Conflict Data	Header Data	Date & Time	Status	Amount
Case ID 100694 - Control ID : SEAM	1 Alert(s) Open Out of 1 Alert(s)	03/28/2019 - 03:15:18 AM		
P045 - Purchase Order Entry & Vendor Master Maintenance				
KREESE - Kyle Reese				
Alert 1			Open	50000.00
FF09 - Vendor Master Maintenance				
LFBK Vendor Master (Bank Details)	System: DM1800 - Transaction: FK02	03/28/2019 - 02:54:54 AM		
LIFNR Account Number of Vendor or Creditor	US01			
BANKS Bank country key	BE			
BANKN Bank account number	539-0075470-34			
BANKL Bank Keys	KBC			
FM05 - Purchase Order Entry				
EKKO Purchasing Document Header	System: DM1800	03/28/2019 - 00:00:00 AM		50000.00
EKKO Purchasing Document Header	System: DM1800 - Transaction: ME21N	03/28/2019 - 03:00:28 AM		50000.00
WAERS Currency Key	USD			
RLWRT Total value at time of release	0.00			
LIFNR Vendor Account Number	US01			
EBELN Purchasing Document Number	45000000037			
BUKRS Company Code	MC01			
BEDAT Purchasing Document Date	20190328			
AEDAT Date on Which Record Was Created	20190328			

- Expand portfolio of **standard IT and business controls**
- Formalise key IT alerts by creating **custom IT controls** in Process Auditor
- Create additional **custom business controls** for P2P, O2C and RTR processes
- Upgrade and implement **web/Fiori** version of Process Auditor
- Integrate Process Auditor with **other SW modules** (e.g. Transaction Archive)
- Develop **user intelligence** and expand CCM accordingly



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