



Arabian Agricultural Services Company | ARASCO

SAP Controls and Utilization Assessment

Reading Material for ARLT

March 23, 2021

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Workstream 1 & 2

Business Configurable Controls and
Functionality Utilization Assessment



WS1&2 | Business Configurable Controls and Functionality Utilization Assessment

Background:

ARASCO is using SAP as core ERP for running its business processes. ARASCO management is looking forward to optimize the SAP utilization and ensure that adequate risks and controls are implemented, and processes are standardized and automated. Accordingly, SAP assessment was conducted covering: **WS1 – SAP Business Configuration Controls Assessment** and **WS2: SAP Functionality Utilization Assessment**.

Assessed **8** SAP modules used
by **10** entities.

Workstream wise assessment summary:



* The Satisfaction scale is an indicative evaluation based on subject matter judgment and not intended to be a quantitative measure.

Observations, Impact and recommendations are classified using following scale, respectively:

Observation Categories:

Control Gap	Missing controls in the SAP Solution
Optimization Gap	SAP functionalities relevant for business but not configured such as leading practices, data quality process automation etc.
Utilization Gap	SAP functionalities configured but not used by the business

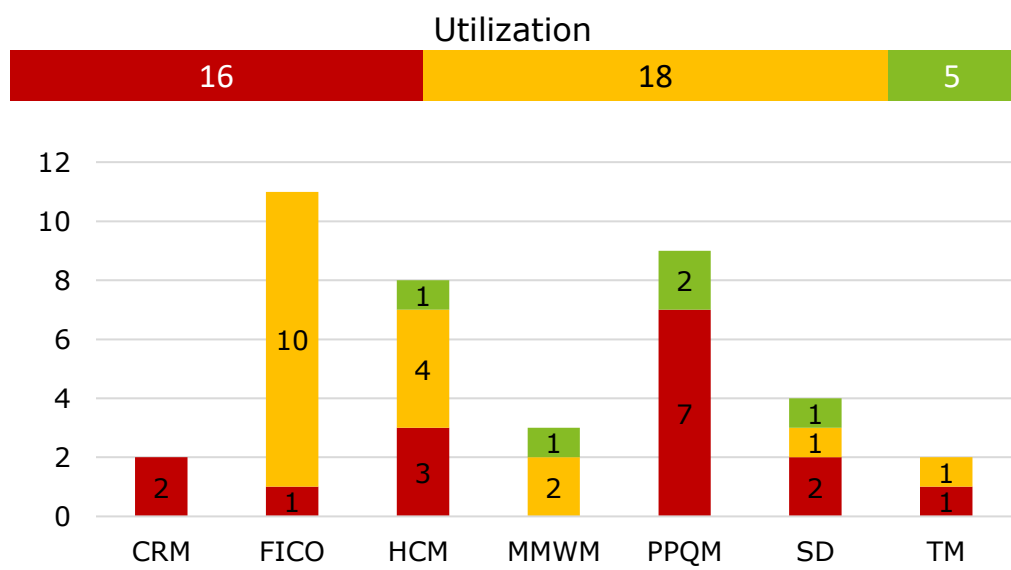
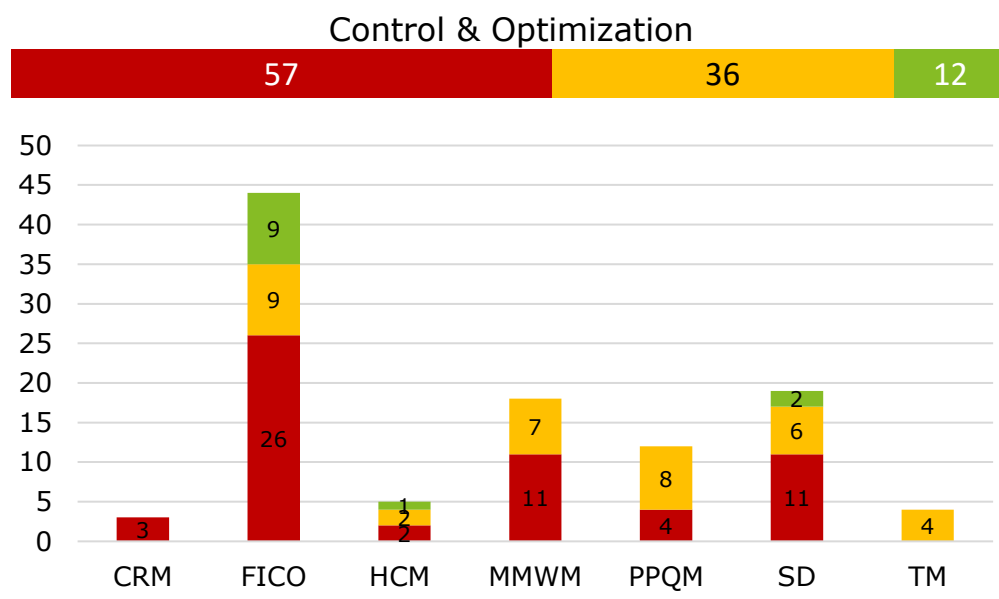
Significance:

High	Action plan and related corrective action to be implemented as a matter of urgency
Medium	Action plan and related corrective action to be implemented as a matter of priority
Low	Action to be taken to address weakness within a reasonable agreed time frame

Action Plan Timelines:

Quick-Win	0 – 60 days: minimum efforts & stakeholders' involvement, largely standalone requirements
Tactical	60 – 120 days: need stake holder's involvement, minor impact on process. Requirements which has dependencies.
Strategic	120+ days: need significant stakeholder involvement, process and data change.

WS1&2 | Detailed Analysis – Controls and Optimization Assessment (1/3)



BU / Module	FI	CO	MM	SD	CRM	PP	QM	TM	HCM
Corporate	42	5	11						13
Feed	44	6	20	19	1	13	5		13
Logistics	43	5	14	11				6	13
OLMASCO	41	5	5	11	1				13
FOOD	40	9	19	15	1	13	5		13
IDAC	44	5	16	2	5		6		13
ALEMAR	44	5	19	17	1				13
MEFSO	44	5	18	15	1	12	7		13
ARASCO Investment	35	5	1						13
Alwafa	34	5	14	14	1				

● Low ● Medium ● High

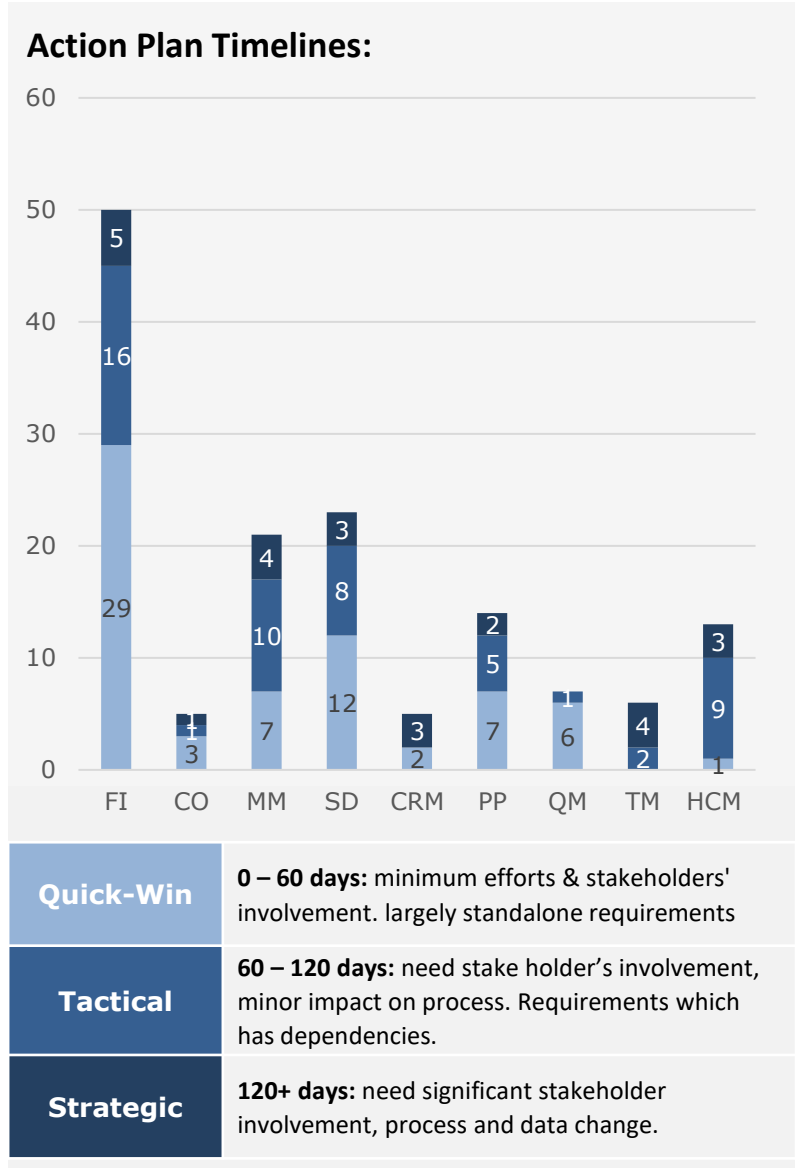
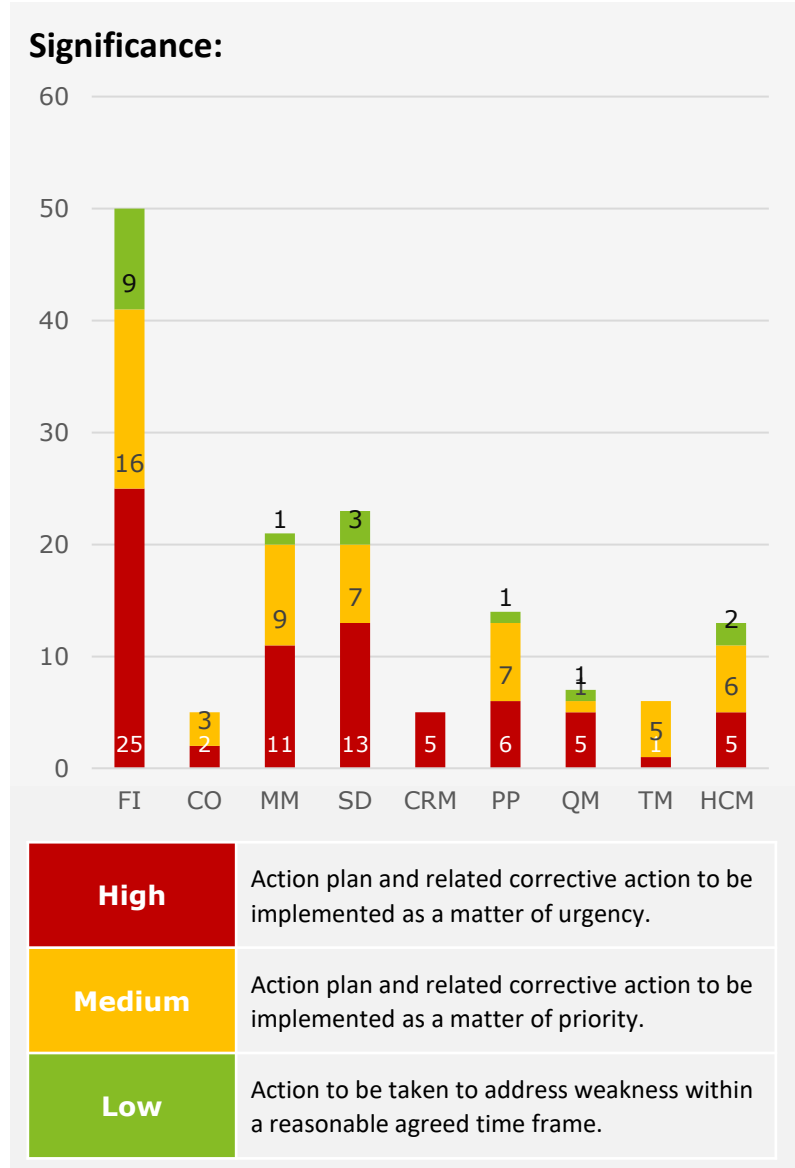
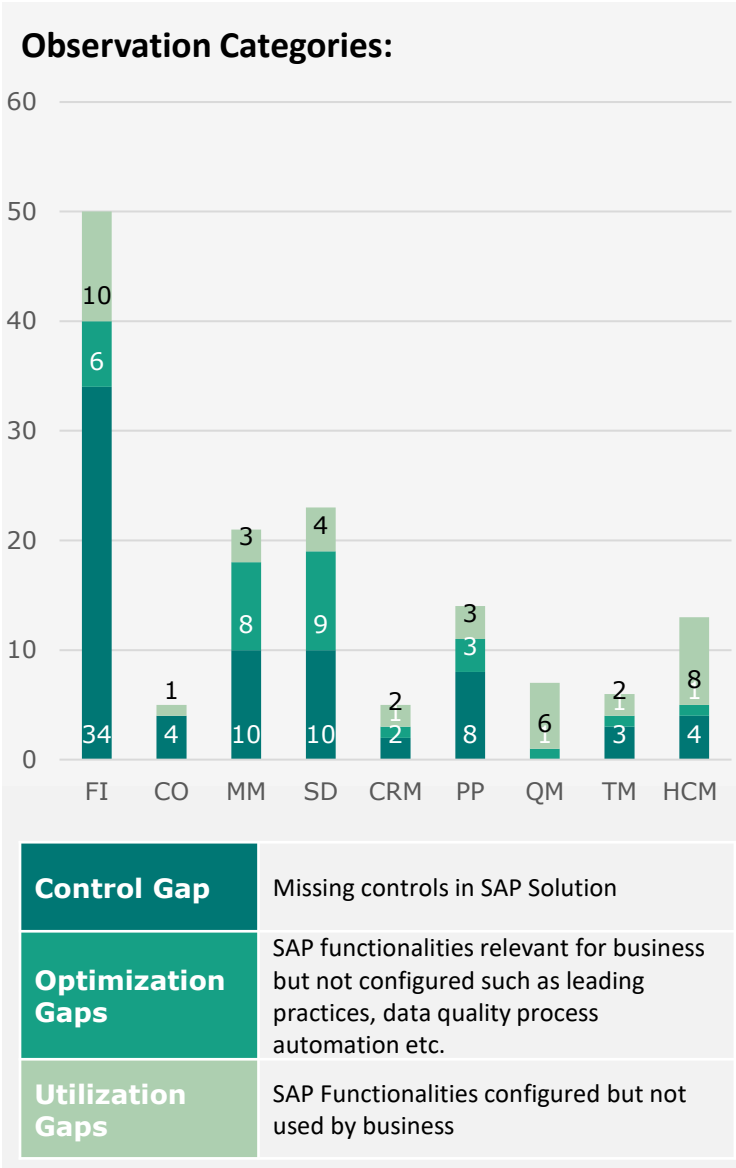
WS1&2 | Detailed Analysis – Controls and Optimization Assessment (2/3)

Observations by Processes:

Finance and Accounting	Org Structure	Master Data	Account Receivable	Account Payable	Asset Accounting	Banking	Taxation	Period End Closing
	1 2	13 3 6	4 4	6 1	1	1 2	2	1
Controlling and MIS	Org Structure	Master Data	Product Costing	Cost of Sales Accounting	Profit Centre Accounting	Profitability Analysis	Budgeting	
		1 1 1	2 3				1	
Material Management & Warehouse Management	Org Structure	Master Data	Purchase Requisition	Purchase Order	Inventory management	Physical Inventory	Invoice Processing	Warehouse Management
		4 5 1	2 1	2 2	3			1
Sales & Distribution	Org Structure	Master Data	Pre-Sales	Sales Processing	Order Fulfillment	Invoicing	Sales Returns	
	1 1	2 2	1	2 2 3	1 1	3	3	
Customer Relationship Management	Org Structure	Master Data	Pre-Sales	Sales Processing	Invoicing	Returns	Complaint Mgmt	
		1	2	2				
Manufacturing and Quality Management	Org Structure	Master Data	S&OP/LTP	Demand Mgmt	MRP	Shop Floor Execution	Quality Inspection Planning	Quality Inspection Execution
		5	1	2	2	1 2 1	2 1	3
Transportation Management	Integration with ERP	Master Data	Transport Planning	Carrier Planning	Forward Settlement	Invoicing	Service sheet	Customs Clearance
	1		1		1 1			1
Human Capital Management	Org Structure	Employee Master Data	Recruitment	HCM Features	Time Management	Payroll & Self Service	Appraisals	Retirement
	1	1 1 1	1	1	1 1		1 1	1

Process Operating Effectively
Optimization areas identified
Process requires significant improvement
Manual process (SAP Solution Available)

WS1&2 | Detailed Analysis – Controls and Optimization Assessment (3/3)



WS1&2 | Detailed Analysis – Controls and Optimization Assessment Roadmap

Workstream wise

Key Observations:

WS1: SAP Business Configuration Controls Assessment

WS2: Functionality Utilization Assessment

Roadmap

Quick-Win	Tactical	Strategic																
<p>0 – 60 days: minimum efforts & stakeholders' involvement. largely standalone requirements</p>	<p>60 – 120 days: need stake holder's involvement, minor impact on process. Requirements which has dependencies.</p>	<p>120+ days: need significant stakeholder involvement, process and data change.</p>																
<p>70 recommendations are identified as quick wins and are spread across Control Gaps, Optimization Gaps and Utilization Gaps.</p> <table> <tr> <th>Category</th> <th>Count</th> </tr> <tr> <td>Control Gap</td> <td>42</td> </tr> <tr> <td>Optimization Gaps</td> <td>16</td> </tr> <tr> <td>Utilization Gaps</td> <td>12</td> </tr> </table> <ul style="list-style-type: none"> ARASCO needs to focus on master data control gaps to resolve transactional issues Few optimization & utilization opportunities in quick wins are enhancing the controls on transactions by enabling the validations, using special period for financial adjustments after financial closures, validation of double invoice etc. 	Category	Count	Control Gap	42	Optimization Gaps	16	Utilization Gaps	12	<p>59 recommendations are identified as Tactical and are spread across Control Gaps, Optimization Gaps and Utilization Gaps.</p> <table> <tr> <th>Category</th> <th>Count</th> </tr> <tr> <td>Control Gap</td> <td>33</td> </tr> <tr> <td>Optimization Gaps</td> <td>12</td> </tr> <tr> <td>Utilization Gaps</td> <td>14</td> </tr> </table> <ul style="list-style-type: none"> ARASCO can use the standard functionalities as a part of tactical recommendations like, activate workflow for parking & posting, using cash flow management, modify the master data to optimize the usage of credit management, use quality management to track the sales return, etc. 	Category	Count	Control Gap	33	Optimization Gaps	12	Utilization Gaps	14	<p>15 Recommendations are classified as strategic. They are classified as New Modules identified:</p> <ul style="list-style-type: none"> Funds Management Warehouse Management Extend CRM modules <p>Major Functionality Upgrades:</p> <ul style="list-style-type: none"> Utilizing Material Requirement Planning, Capacity Planning, Sales & operations planning & long-term planning functionalities Decision mechanism to treat the slow moving, dead and shelf-life expired material stock management Usage of closing cockpit, EBS (electronic bank statement) & auto payment functionalities in finance Usage of trading freight, executing & monitoring freight functionalities in transportation management Usage of promotion, demotion & succession planning in HR <p>These strategic areas will require significant stakeholder involvement and need to be considered in the existing SAP ECC implementation. Moreover, if upgrade to SAP S4HANA is considered by ARASCO in future, an alignment with these areas will be required.</p>
Category	Count																	
Control Gap	42																	
Optimization Gaps	16																	
Utilization Gaps	12																	
Category	Count																	
Control Gap	33																	
Optimization Gaps	12																	
Utilization Gaps	14																	
<p>Short to Mid-term (2 - 4 Months) – to be addresses internally, short and independent projects</p>		<p>Strategic initiatives, need to be considered in the existing SAP ECC implementation. Moreover, if upgrade to SAP S4HANA is considered by ARASCO in future, an alignment with these areas will be required</p>																

Workstream 3

Segregation of Duties & Sensitive
Access Assessment



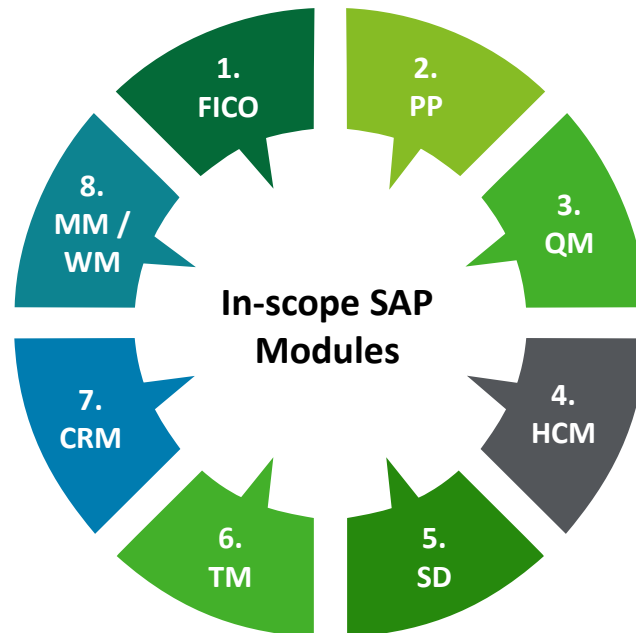
WS3 | Segregation of Duties (SoD) and Sensitive Access (SA) Assessment

As part of the SAP Controls and Utilization Assessment, in this workstream we performed an assessment of Segregation of Duties (SoD) and Sensitive Access (SA) to identify, examine, and analyze whether adequate level of controls have been designed, implemented, and operating effectively with regards to assigning sensitive responsibilities and segregating conflicting / incompatible functions.

Scope of SoD & SA Assessment

The following Company Codes and Modules were covered as part of the scope for SoD & SA Assessment:

In-scope Company Codes	
Company Code	Description
1000	CORPORATE
1100	FEED
1200	LOGISTICS
1300	OLMASCO
1400	FOOD
1500	IDAC
1600	ALEMAR
1700	MEFSCO
1800	INVESTMENT
2000	ALWAFA

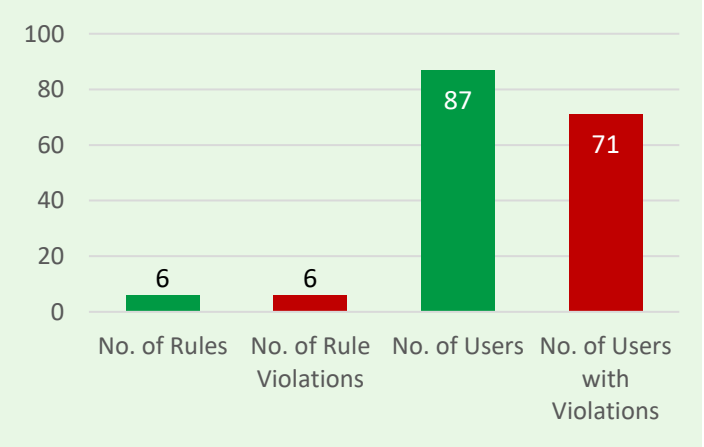
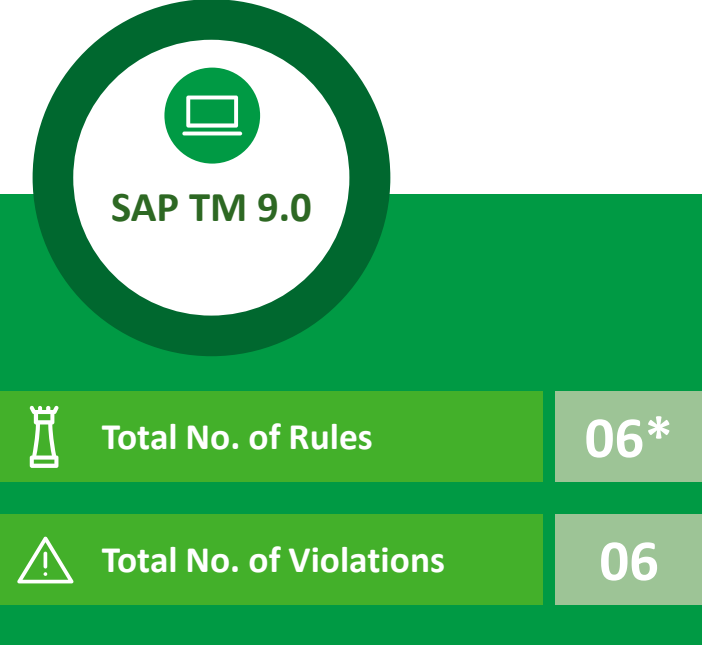
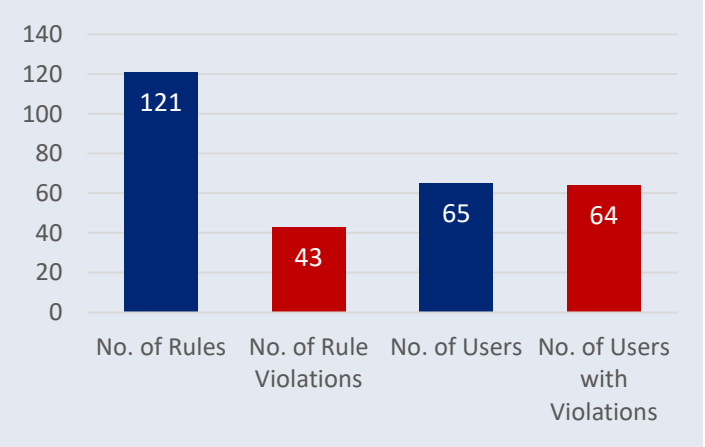
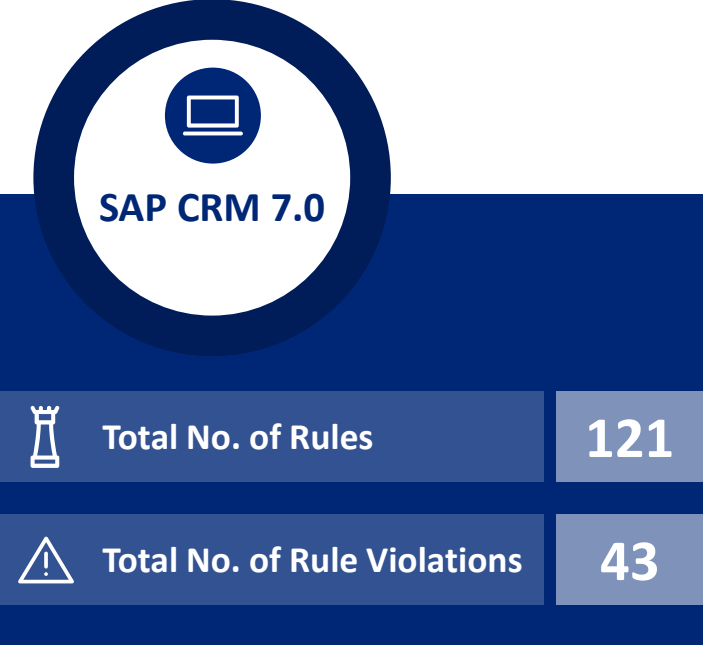
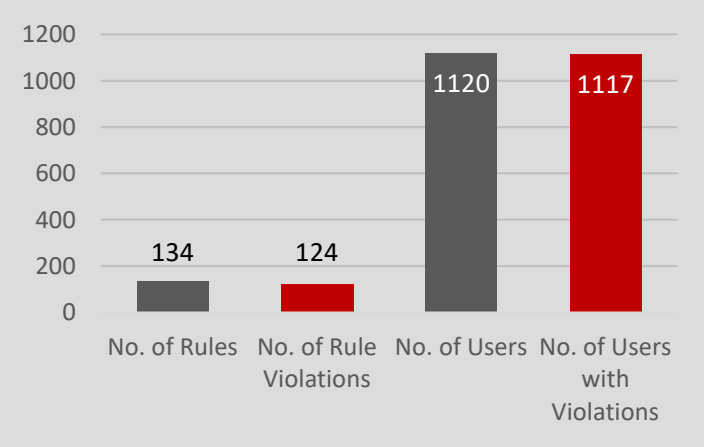
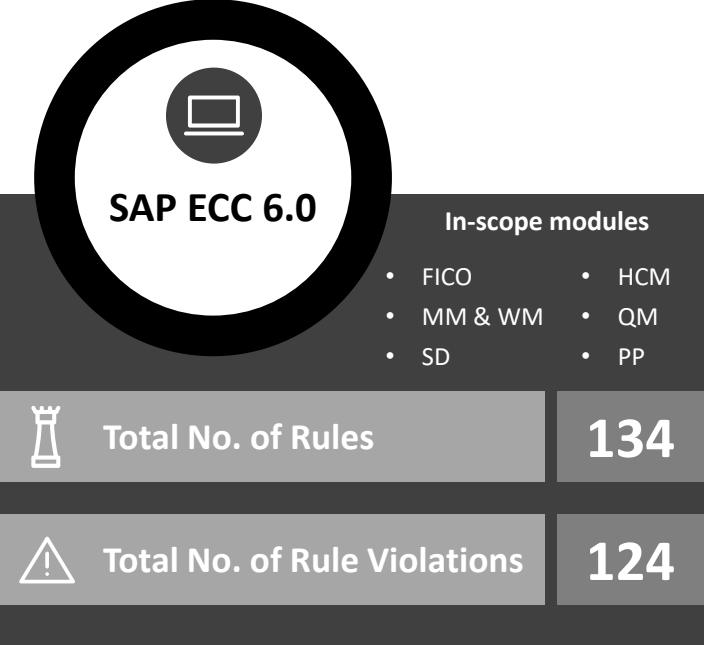


Objectives of SoD & SA Assessment

SODs & SAs are a primary internal control intended to prevent or decrease the risk of errors or irregularities, identify problems, and establish necessary level of accountability. This is achieved by ensuring that no single individual has control over all phases of a business transaction. SOD & SA Assessment was performed based on the following considerations / themes which were used to create the rules:

- 1. Setup vs. Transaction:** Users have the ability to change the configuration setup within a module and process transactions within the same module.
- 2. Master Data vs. Transaction:** Users possess the ability to create master data in addition to transaction processing.
- 3. Master Data vs. Setup:** Users possess the ability to create master data in addition to change the configuration setup within a module.
- 4. Cross function:** Users possess the ability to process two or more sensitive transaction in a business process area.

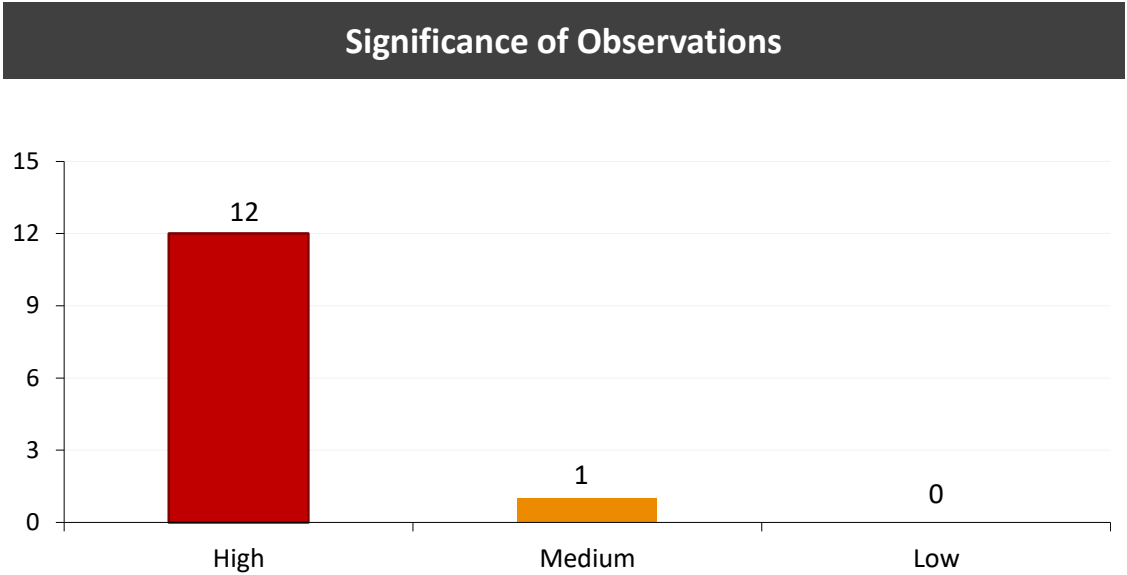
WS3 | Assessment Analytics – Rules Violation Analysis



* The assessment for SAP TM was done manually selecting the most critical six (6) SoD / SA rules designed in alignment with the implemented SAP TM version and business processes of ARASCO.

WS3 | Assessment Analytics – Observation Priority Analysis

Our detailed observations and suggestions for improvement are included in the following section of this assessment report. To enable management to set priorities on their action plans, we have reported our findings in three categories: **High**, **Medium**, and **Low**. The findings are sorted in a descending order based on their importance level, from the highest risk to the lowest.



High	Action plan and related corrective action to be implemented as a matter of urgency.
Medium	Action plan and related corrective action to be implemented as a matter of priority.
Low	Action to be taken to address weakness within a reasonable agreed time frame.

Workstream 4

Business Planning Consolidation
Assessment



WS4 | Business Planning Consolidation Assessment



Optimal



Sub optimal



Not configured / Not effective

Key Notes on Group Consolidation Assessment

- SAP Business Planning Consolidation (BPC) is a critical application for business consolidation. Some of the key benefits delivered by SAP BPC are automation of consolidation process, enablement of workflows and systematic approach for capturing data from source systems, business rules configured in system to eliminate manual intervention, reduce cycle time of consolidation and provide an audit trail for consolidation activity on continuous basis.
- SAP brings leading practices across various sub-processes of consolidation. During our assessment, it was observed that the solution design is sub-optimal and not scalable (Intercompany Elimination and Cash Flow). Below are some of the key observations:
 - Balance Carry Forward:** Manual journal entries data is not being carried forward to the next year as opening balances as mentioned in the design.
 - Intercompany Elimination:** Configuration for intercompany eliminations was not done in Account dimension and business rules.
 - Reporting:** KPIs, reports and dashboard are yet to be defined and build.
 - Cash Flow:** Configuration for cash flow process was incomplete.
 - Security:** Security design and configuration are not discussed in the Business Blueprint (BPP) and not configured in the system.
- A robust Program Management aligned to SAP Implementation methodology is important. Multiple flaws were observed in the BPC project management:
 - System design is not aligned with **Solution document** (blueprint).
 - No audit trail / evidences / sign-offs maintained for **testing & training**.
 - Changes** made to production server without testing in quality.
 - Project plan without actual activity tracking
- As an immediate next step, business team shall consider resolving the identified defects (refer to Section 4 – Detailed Observations) Prior and/or while proceeding with the to-be solution. Thorough testing and training is required along with adequate documentation for future references.
- Close monitoring of project is required to ensure that all the observations (solution and PMO) are addressed before go-live and signed off by the business.

Business Process Solutioning

1. Maintain Exchange Rates	Optimal	7. Run Intercompany Matching	Not configured / Not effective
2. Maintain Ownership Data	Optimal	8. Run Group Consolidation	Sub optimal
3. Load SAP Entities TB	Optimal	9. Post Group Adjustments	Sub optimal
4. Run Copy Opening	Sub optimal	10. Run Cash Flow Process	Not configured / Not effective
5. Run Controls	Not configured / Not effective	11. Generate Reports	Sub optimal
6. Run Currency Translation	Sub optimal	12. Work Status	Not configured / Not effective

Project Management

1. Project Plan	Sub optimal	8. Training strategy	Not configured / Not effective
2. Project charter/ RACI matrix	Not configured / Not effective	9. Training manuals	Sub optimal
3. Business blueprint document	Sub optimal	10. Go-No Go check list	Not configured / Not effective
4. Data migration plan	Not configured / Not effective	11. UAT Sign off	Not configured / Not effective
5. Testing strategy & Plan	Not configured / Not effective	12. FS/TS documents RICEFW	Not configured / Not effective
6. Testing scripts	Sub optimal	13. Authorization strategy	Not configured / Not effective
7. Testing defect logs	Not configured / Not effective		

WS4 | BPC - Business Planning Consolidation – Implementation Heat Map

Business Process	Design	Master Data	Configuration	Reports	Documentation
Maintain Exchange Rates	Effective process implementation	Effective process implementation	Effective process implementation	Process needs some changes to make it effective	Process needs significant improvement
Maintain Ownership Data	Effective process implementation	Effective process implementation	Effective process implementation	Manual (Process not in SAP)	Process needs significant improvement
Load SAP Entities TB	Effective process implementation	Effective process implementation	Effective process implementation	Effective process implementation	Process needs significant improvement
Run Copy Opening	Process needs some changes to make it effective	Effective process implementation	Process needs some changes to make it effective	Process needs some changes to make it effective	Process needs significant improvement
Run Controls	Process needs significant improvement	Process needs significant improvement	Process needs significant improvement	Process needs significant improvement	Process needs significant improvement
Run Currency Translation	Process needs some changes to make it effective	Effective process implementation	Effective process implementation	Process needs some changes to make it effective	Process needs significant improvement
Run Intercompany Matching	Process needs significant improvement	Process needs significant improvement	Process needs significant improvement	Process needs significant improvement	Process needs significant improvement
Run Group Consolidation	Process needs some changes to make it effective	Effective process implementation	Process needs some changes to make it effective	Manual (Process not in SAP)	Process needs significant improvement
Post Group Adjustments	Effective process implementation	Effective process implementation	Process needs some changes to make it effective	Process needs some changes to make it effective	Process needs significant improvement
Run Cash Flow Process	Process needs significant improvement	Process needs significant improvement	Process needs significant improvement	Effective process implementation	Process needs significant improvement
Work Status	Effective process implementation	Effective process implementation	Effective process implementation	Manual (Process not in SAP)	Process needs significant improvement

Effective process implementation
 Manual (Process not in SAP)
 Process needs some changes to make it effective
 Process needs significant improvement

Key Notes

- In overall implementation, **training & testing process** is not effective and needs immediate attention for effective adaptability. e.g., UAT documents sign off from business, effective training with reference to change in design, defect tracking etc.
- Deployment of designated PMO will ensure the effectiveness of project documents (e.g., training manuals, functional design documents, Go / No-go parameters etc.) and it will also **mitigate the risk** of missing configuration, testing, Knowledge Transfer (KT) to support or operate team for future.

Workstream 5

Interface Assessment

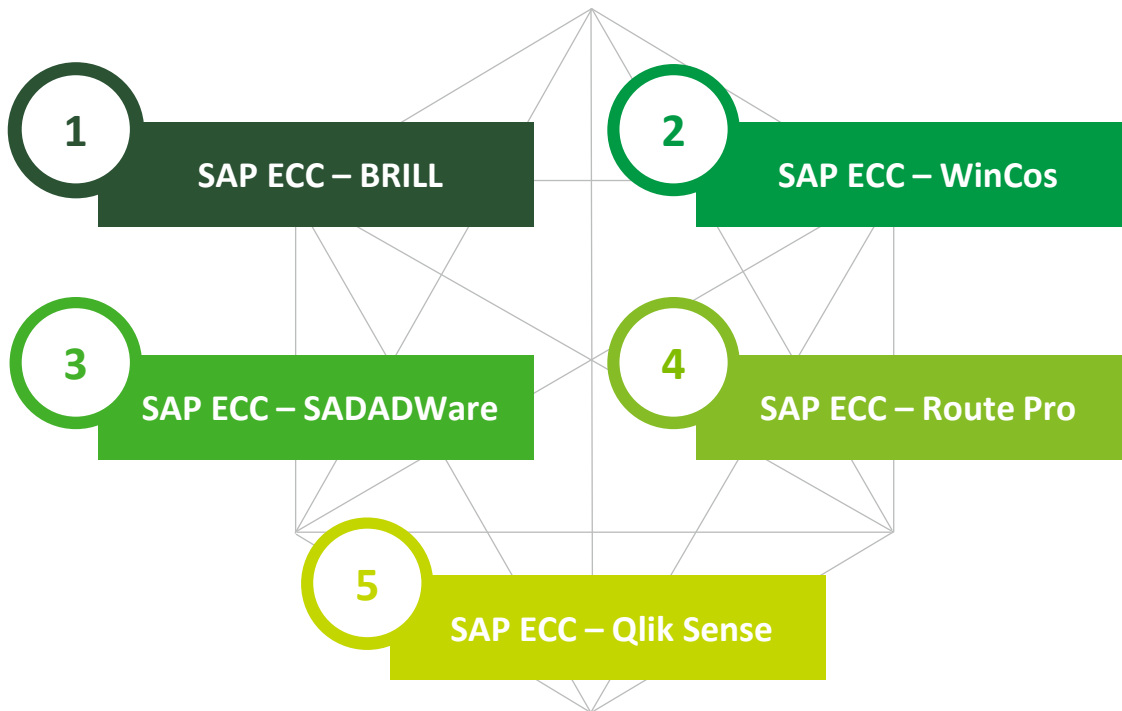


WS4 | Interface Assessment

As part of the SAP Controls and Utilization Assessment, in this workstream we performed an assessment of the selected interfaces with SAP ECC to determine whether control activities are designed, implemented, and operating effectively to transfer data from source to destination systems accurately, completely, and securely, and appropriate monitoring mechanisms are in place to identify any deviations.

Interface Assessment Scope

The following interfaces were covered as part of the scope for interface assessment:



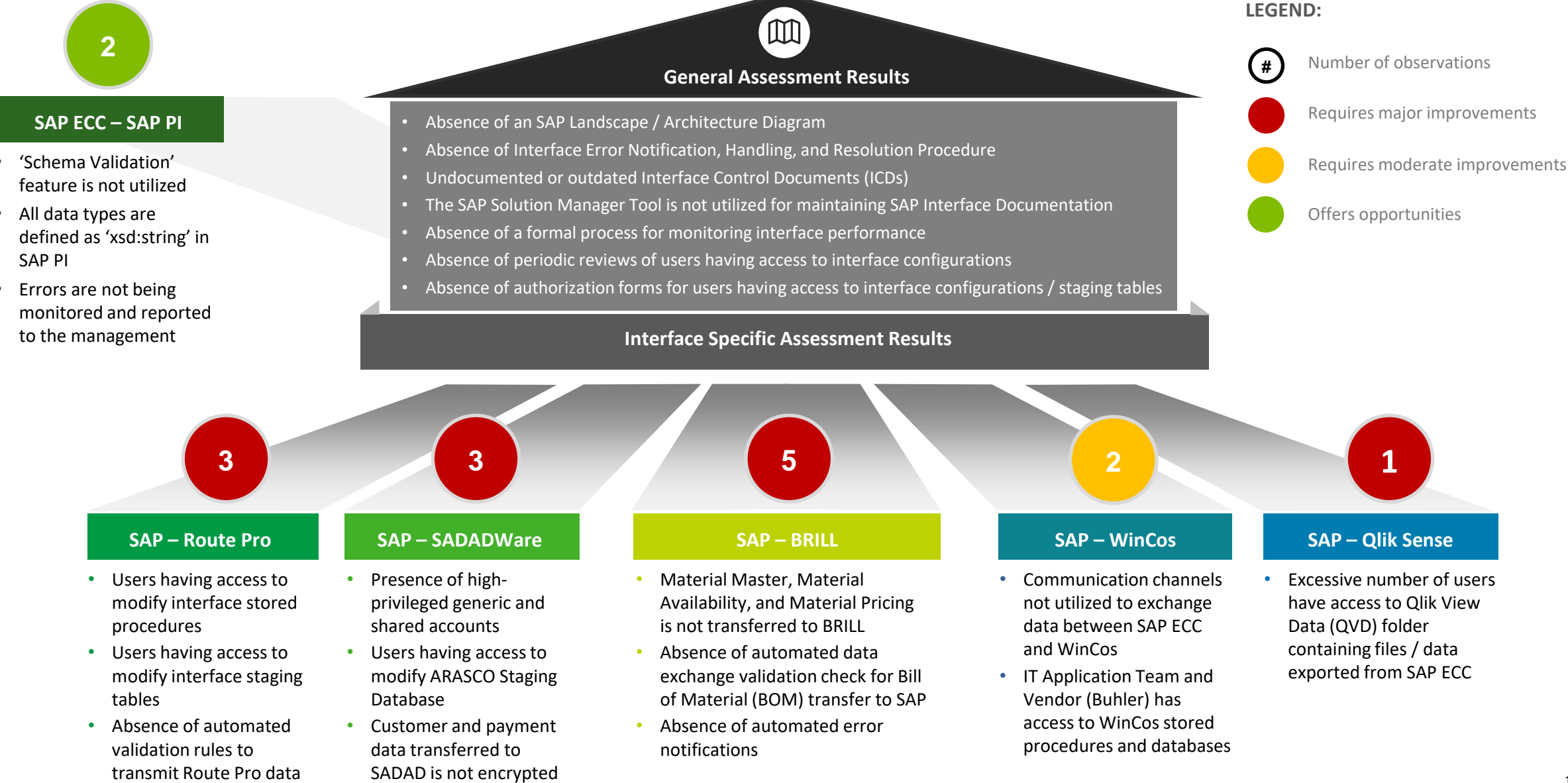
Interface Assessment Objectives

The assessment focused on the following key controls objectives over interface configurations and data exchanged between the interfacing systems:

1. Documentation
2. Completeness
3. Accuracy / Validity
4. Security / Restricted Access
5. Change Management
6. Error Detection & Handling

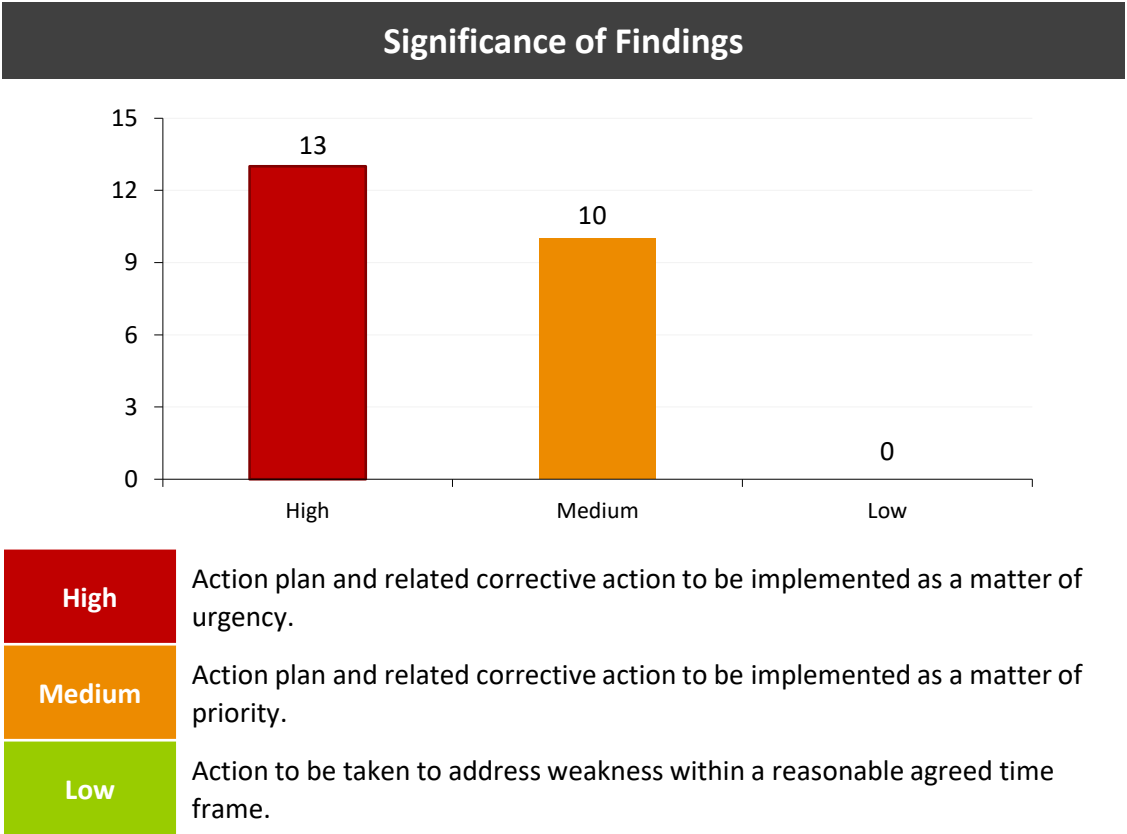
In order to assess the aforementioned controls objectives, existing interface related documentation were reviewed; series of meetings were conducted with relevant stakeholders from IT and business to understand interface functionality and operations; and walkthroughs were performed of interface configurations, data exchange mechanisms, security protocols, and error handling procedures.

WS5 | Assessment Analytics



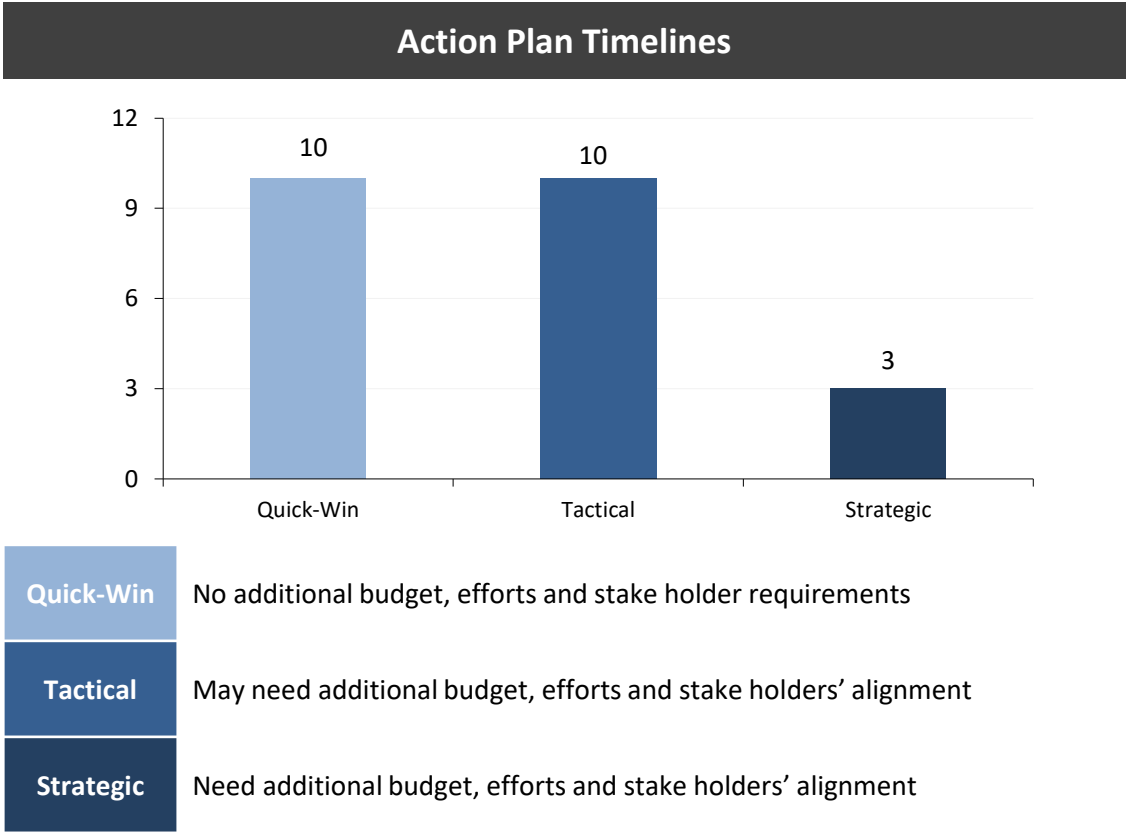
WS5 | Assessment Analytics – Observation Priority Analysis

Our detailed observations and suggestions for improvement are included in the following section of this assessment report. To enable management to set priorities on their action plans, we have reported our findings in three categories: **High**, **Medium**, and **Low**. The findings are sorted in a descending order based on their importance level, from the highest risk to the lowest.



We have identified the action plan timelines for each observation noted into three categories: **Quick-Win**, **Tactical**, and **Strategic** to enable management to prioritize the implementation of our recommendations based on realistic amount of effort required to mitigate the risk.

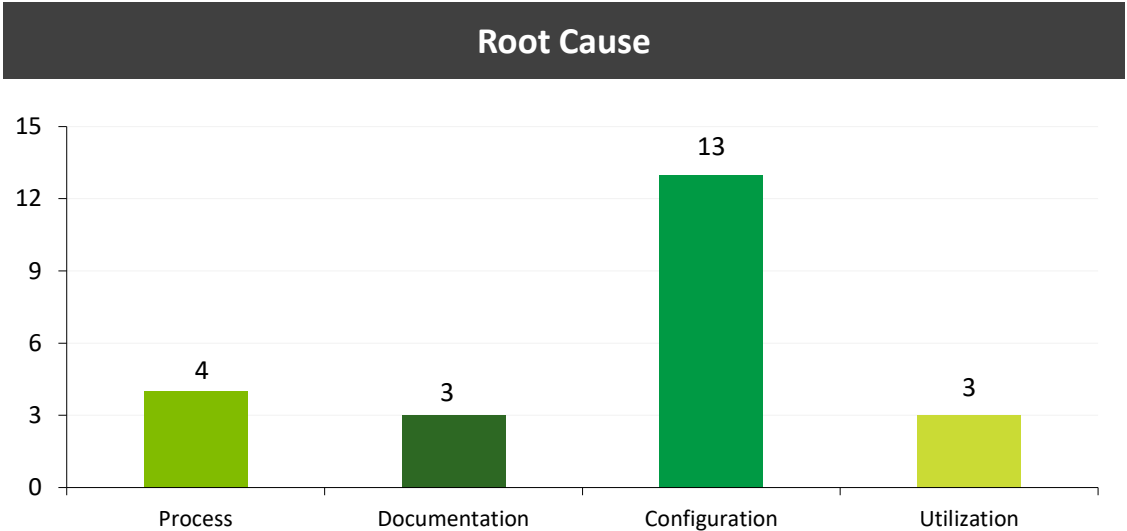
A summary of the findings and action plan timelines noted during the course of the assessment are presented in the graphs below.



WS5 | Assessment Analytics – Observation Root-cause Analysis

As part of the assessment, we also identified the key causes and factors which contribute to the existence of the noted observations. We have classified the interface related observations into four root-cause categories: **Process Gap**, **Documentation Gap**, **Configuration Gap**, and **Utilization Gap**. This categorization will enable relevant stakeholders (including members of management, business, and IT) to understand the reasons underlying the identified observations. Moreover, it will provide the management the precise area to focus on in order to address the associated risks and impacts.

A summary of the findings and their root causes are presented in the graph below.



Process Gap	Absence of an appropriately designed, implemented, or followed-up process.
Documentation Gap	Unavailable or inadequate maintenance and management of essential documentation.
Configuration Gap	Control gaps which can be addressed by making changes to access rights, system and / or database configurations.
Utilization Gap	Features, functionalities, and automation opportunities provided by the system which are currently not being utilized.



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