

Introduction to Wipro's Cloud STO Application

SAP® PartnerEdge®

Endorsed Application - STO



**International SAP Conferences for
Energy and Utilities**

18 – 20 April; 2023
Basel, Switzerland

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Content



- SAP Market Study
- Examples of Pain Points and STO Application Solutions
- STO Application Overview
- STO High Level Release Plan
- Wipro Corporate Overview
- Customer Engagements



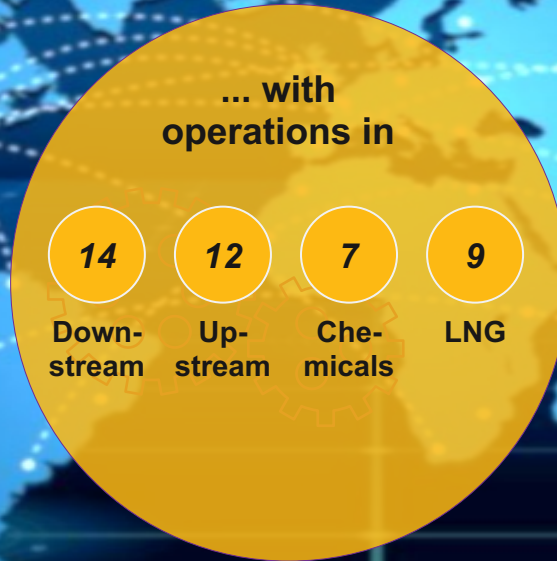
SAP Market Study



SAP global market study

Conducted more than **48** interviews and obtained insights from **18** different customers ...

Plus **4** customers workshops by SAP



SOURCE: Expert interviews (n=48)

The background of the slide is a dimly lit office meeting. A woman in a light blue denim shirt stands on the left, pointing at a whiteboard with several sticky notes. Two other people, a woman in a yellow shirt and a man in a grey shirt, are seated at a table in the foreground, looking towards the whiteboard. The table has some papers, a pen holder, and a bowl of green apples. The overall atmosphere is professional and collaborative.

Examples of Pain Points and STO Application Solutions

Conclusion of the Market Study

STO pain-point map – the foundation for solution packages

■ Critical pain-point ■ Minor pain-point ■ No pain-point

	Assess	Define	Plan & Prepare	Execute	Evaluate
Systems	<ul style="list-style-type: none"> Missing portfolio view across assets to schedule STOs Master data incomplete/inaccurate Missing sources of scope items 	<ul style="list-style-type: none"> Manual scope collection and management No possibility to evaluate scenarios and optimize them systematically Master data incomplete/inaccurate 	<ul style="list-style-type: none"> Missing integration of 3rd-party systems for current information Missing support for resource leveling and procurement 	<ul style="list-style-type: none"> Missing real-time tracking No overview about progress of SOW Disconnected systems during mobilization of service workers Having many systems 	
Processes	<ul style="list-style-type: none"> Underestimation of STO efforts Different processes at each asset Missing best practices/standardization Missing industry view of competition activities 	<ul style="list-style-type: none"> Lack of proper risk assessment for scope items Inaccurate cost and time estimates 	<ul style="list-style-type: none"> STO scope is not frozen and additional work emerges Changes are added by individuals 	<ul style="list-style-type: none"> No tracking/documentation of work completed Missing integration of regular tasks and STO Inefficient motion of resources across plant Inaccurate invoices 	<ul style="list-style-type: none"> Operational commissioning takes longer than expected due to rework
Resources		<ul style="list-style-type: none"> Underestimation of logistics for resources Missing trust to suppliers/contractors Manual permission/certificate evaluation Contractors chosen with limited information 	<ul style="list-style-type: none"> Long lead times for material not considered Missing possibility to reserve materials 	<ul style="list-style-type: none"> Missing willingness to track time Difficult/No visibility on skillset on site Lack of material management Risk of having blacklisted workers. 	<ul style="list-style-type: none"> Loss of materials that were not used No documentation of experience with contractor No evaluation of work t No evaluation of workers on ground.
Capabilities		<ul style="list-style-type: none"> No sustainable team with experience of previous STOs 	<ul style="list-style-type: none"> No shared interest of stakeholders 	<ul style="list-style-type: none"> Missing knowledge base, experiences & right skills Inappropriate training with systems Lack of quality of supervisors Collaboration barriers 	<ul style="list-style-type: none"> No documentation and dependency on individual knowledge.

Eliminating the Pain ... Wipro's STO Cloud Application

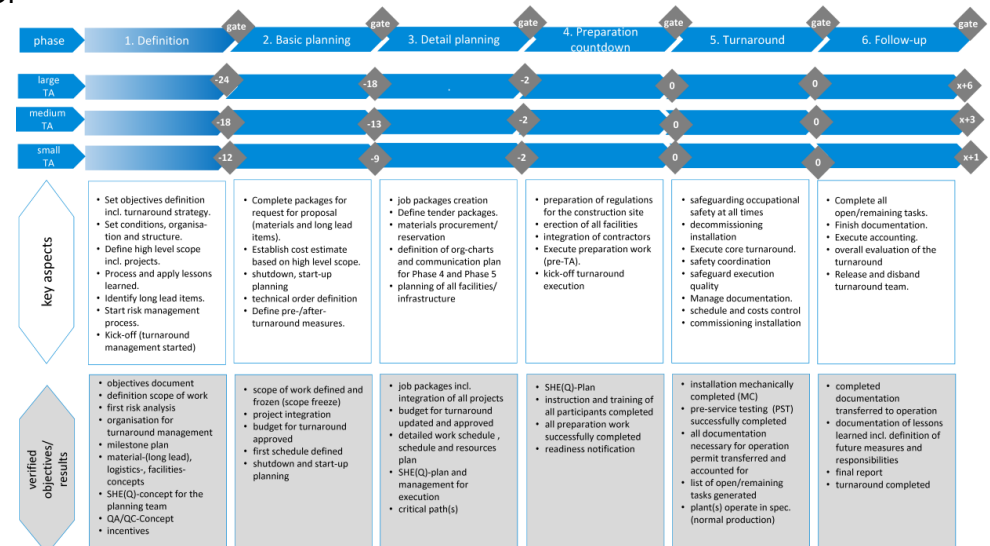
The STO Application helps customers manage TA events efficiently and effectively and deliver TA projects safely on time, within budget, and in an environmentally friendly manner;

- STO is an end-to-end application that address all aspect/areas of STO events.
- Highly configurable, secure, and user friendly:
 - User companies can configure their STO practices and processes (Templates design/Workflow.)
 - Role based authorization and configurable UIs.
 - Ability to go fully paperless operations – use of mobile handheld devices.
- Allows standardization across customer plants to improve consistent delivery of STO events, training, and movement of resources.
- Data integrity via data entry validation, authorization, and change control.
- Variety of specialized **Workbenches** for centralized management of STO Phases and Deliverables, Scope Items, Material, Services, Equipment Rental, Inspections, etc.
- Realtime visibility of field work progress (Execution Control Board/Center) – no need for field supervisors to submit end-of-shift progress reports. Management can immediately recognize delays and take corrective actions.
- Scope Change Requests raised from the field appear immediately on the Execution Control Board for follow up and decisions.
- Consolidated confirmation module (Scope Items/Activities, Work Orders, Notifications, timesheet, Material, Services, Primavera P⁶ activities, etc.)
- Configurable and auto generated multi-discipline End-of-Shift/Subsequent-Shift report routed to STO event organization and plant management.
- Ability to develop STO budget versions, control budget, budget supplements, and budget monitoring.

Eliminating the Pain ...

The STO Application helps customers manage TA events efficiently and effectively and deliver a TA project safely on time, within budget, and in an environmentally friendly manner;

- Customizable dashboards and reports.
- Several statistical analysis objects. Knowledge database with past TA events statistical data and information which improve productivity, reduce training, better and informed decision-making, etc.
- STO configuration and authorization modules.
- Proven two-way interface with Primavera P⁶ – CARBON
- Future interfaces with Ariba and GIS.
- The application supports best STO practices as described in various standards (ex., VDI 2775)



Source: VDI 2775 - Process Engineering Turnaround management Fundamentals



STO Application Overview



STO Application Modules

Definition	Corporate Long Term Planning	Project Definition	Goals & Objectives	OBS	WBS	Milestones	STO Budgeting	Roles & Responsibilities	Resources	Calendars	STO Charter
Planning	Scope Management	Material Management	Services Management	Heavy/Rental Equipment Management	Fabricated Material Management	Tools & PPEs Management	Isolation Management	Scaffold Management	Rigging & Lifting	Joint Integrity Management	Weld Management
	Insulation Management	Work Package Management	Job Hazard Analysis	Risk Management	Issue Management	Action Management	Engineering Change Management	STO Audit Management	Meeting Management	Document Management	STO Area Layout Management
Execution	Execution Control Center	Work Permit Management	STO End-of-Shift Report	QA/QC Management	Safety Compliance	Incident Management	Work Confirmation	Hazard Material Management	STO Waste Management	Training Management	
Closure	Project Completion & Settlement	Warranty Management	Lessons Learned	Recommendations	Project Closure	Project Success Ranking					
Analysis	STO Reports	STO Dashboards	Activity Analysis	Statistical Analysis	Historical ST Projects	Non Based Estimating	STO Knowledge Base	Monte Carlo Simulation	FMEA	FRACAS	RCFA
Mater Data	STO Master Data	Standard Scope Items	Template Projects								
Administration	Templates Management	Risk Matrices	Standard Activities Management	Alternative costing Structure	STO Events Management	Application Authorizations	Application Configuration				
SAP S4H/ECC	PM	MM	QA	PPM/PS	CATS	FI/CO	EHS	Linear Asset Management	DMS	Warranty Management	Asset Manager

Lab Preview

Standard Integration	Primavera P6	Ariba	GIS	SAP MRS	MS-Project	SAFRON
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Other Integrations	Customer Applications
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MVP Scope (12/2023)
Release 2 (6/2024)
Release 3 (12/2024)

- Goal & Objectives
- OBS
- WBS
- Roles & Responsibilities
- Resources
- Calendars
- Budgeting
- Risk Management
- Issue Management
- Action Management
- Meetings Management
- Document Management
- Project Charter
- Reports

PD_0328_KS_03

STO Project

Event ID	Event Name	Project/Event manager	Event Status		
SS/00001-0001	PD_0328_KS_03		CRTD - Created		
Event Category	Event Type	Created By	Created On	Plant	Company Code
2 - Group 2	T - Turnaround	raman.nanda@wipro.com	Mar 28, 2023, 1:06:40 AM	1710	1710

- Templates
- Dates
- Financials**
- Risk
- Issues
- Actions
- Documents
- Permits
- Lessons Learned
- Recommendations
- Project Closure
- Residual Work
- Texts
- Comments

Planned Costs

Original Budget:

Control Budget:

Budget Version:

Planned Estimate:

Number of Budget Supplements:

Total Budget Supplement Value:

Actual Costs

Actual Cost To Date:

Forecasted Cost at Completion:

Actual Cost At Completion:

Save Cancel

- Job Hazard Analysis (JHA)
- Risk
- Issues
- Actions
- Work Order Management

Event Scope Items

Scope Item 4000157	Scope Item Name TEST for PRT	Scope Type* PLANNED - Planned Wo...	Scope Criticality* 3 - Medium	Scope Status*	Work Order User Status CNCL ⓘ
Functional Location 1710-SPA-SAC-PLAR2-I...	Equipment Number	GIS Location	Scope Owner	Execute During Phase PRE - Pre-Shutdown	Plant Section YOH
Department	Planner				Planning Status 90.00%
					Organization

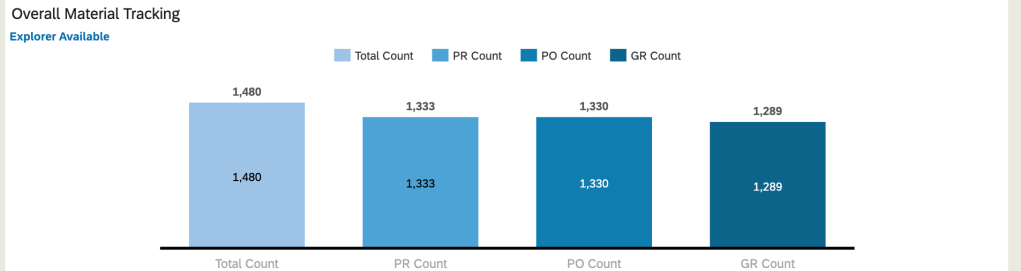
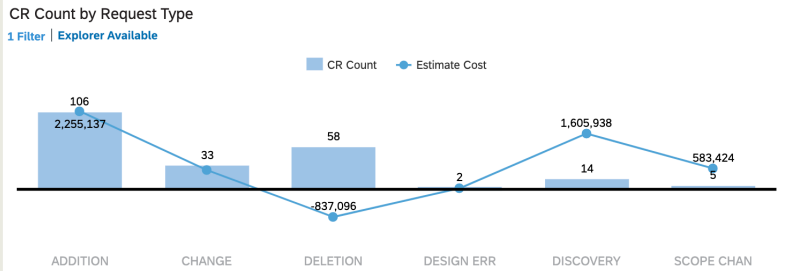
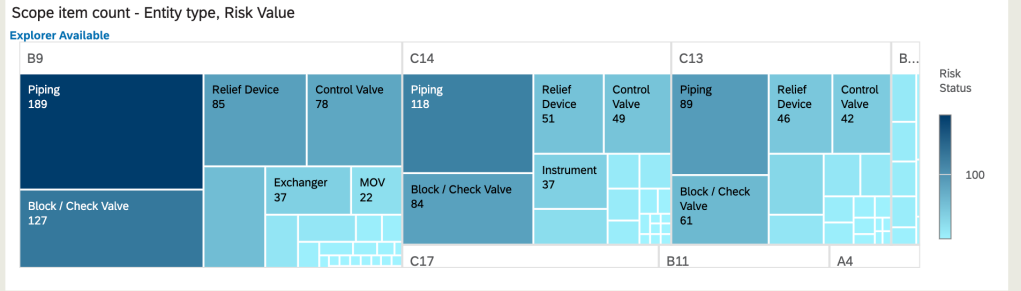
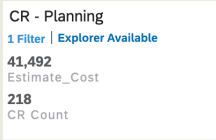
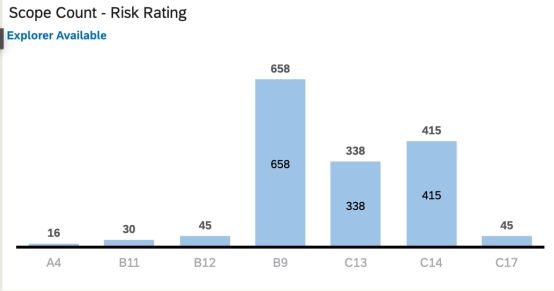
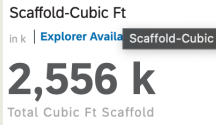
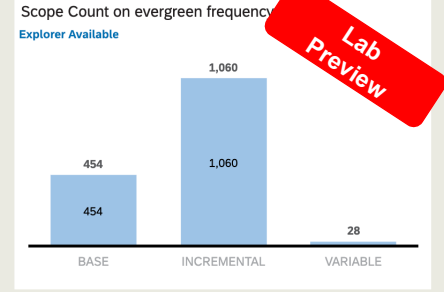
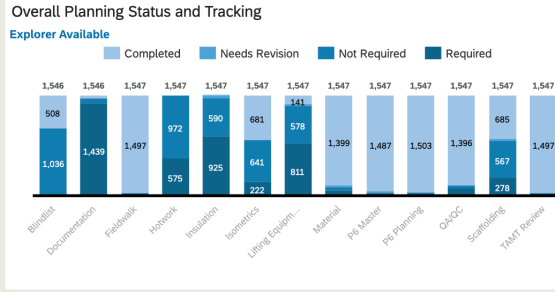
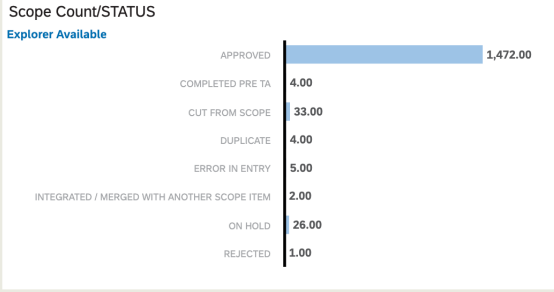
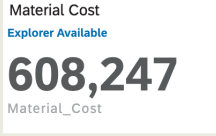
- Scaffoldings
- Insulation
- Safety
- Inspection
- Justifications
- Scope Validation
- Risks
- Isolation
- Instrumentation
- Attachment
- Notes And Comments
- Work Permit
- Action

Scaffolding Requirement Summary

Add Delete

Activity Number	Functional Location	Equipment	Scaffold Specification ID*	Activity Start Date	Activity Finish Date
0401	1710-SPA-SAC-PLAR2-INLT		SC0006	Jan 11, 2023	Jan 20, 2023
0421	1710-SPA-SAC-PLAR2-INLT		SC0015	Jan 24, 2023	Jan 24, 2023
0431	1710-SPA-SAC-PLAR2-INLT		SC0017	Jan 24, 2023	Jan 24, 2023
0441	1710-SPA-SAC-PLAR2-INLT		SC0013	Jan 24, 2023	Jan 24, 2023

Save Submit Cancel



Constumizable STO data models on SAP analytics cloud and build dashboards for various KPIs as needed, for ex., planning KPIs.

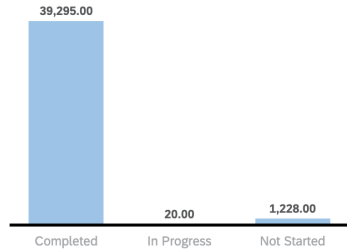
STO - Execution Dashboard



17:40 August 03, 2021

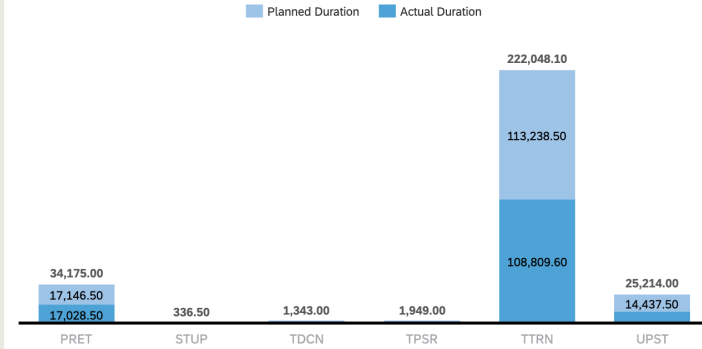
Activity Count per Status

Explorer Available



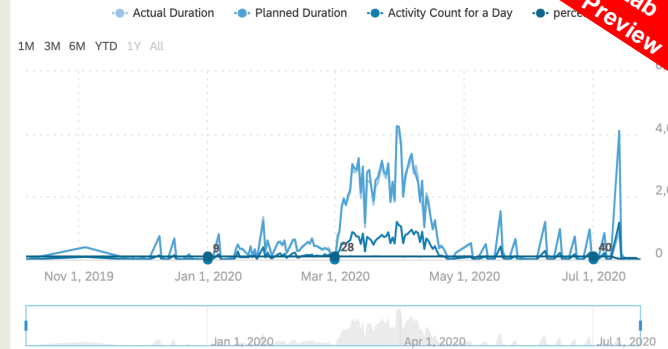
Actual Duration, Planned Duration per Phase

Explorer Available



Actual Duration, Planned Duration Trend

Explorer Available



CR Count - Execution

1 Filter

54,755

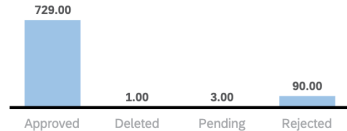
Est Cost - Execution

CR Count

823.00

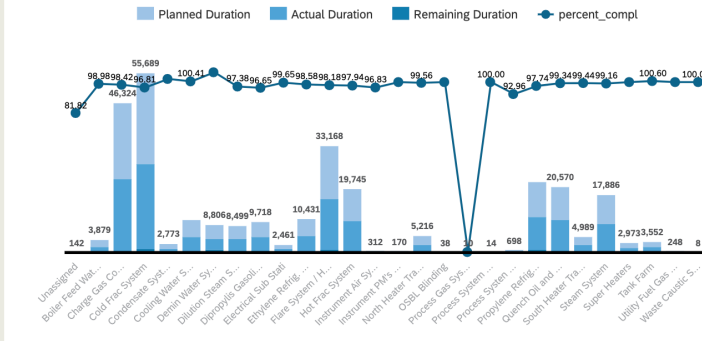
CR Status - Execution

1 Filter



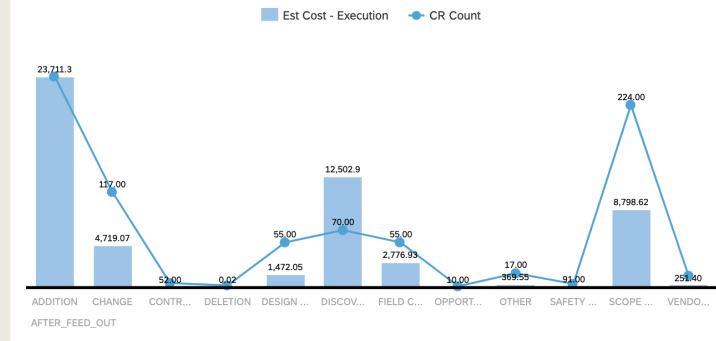
Actual, Planned, Remainder - Percentage Completion

Explorer Available



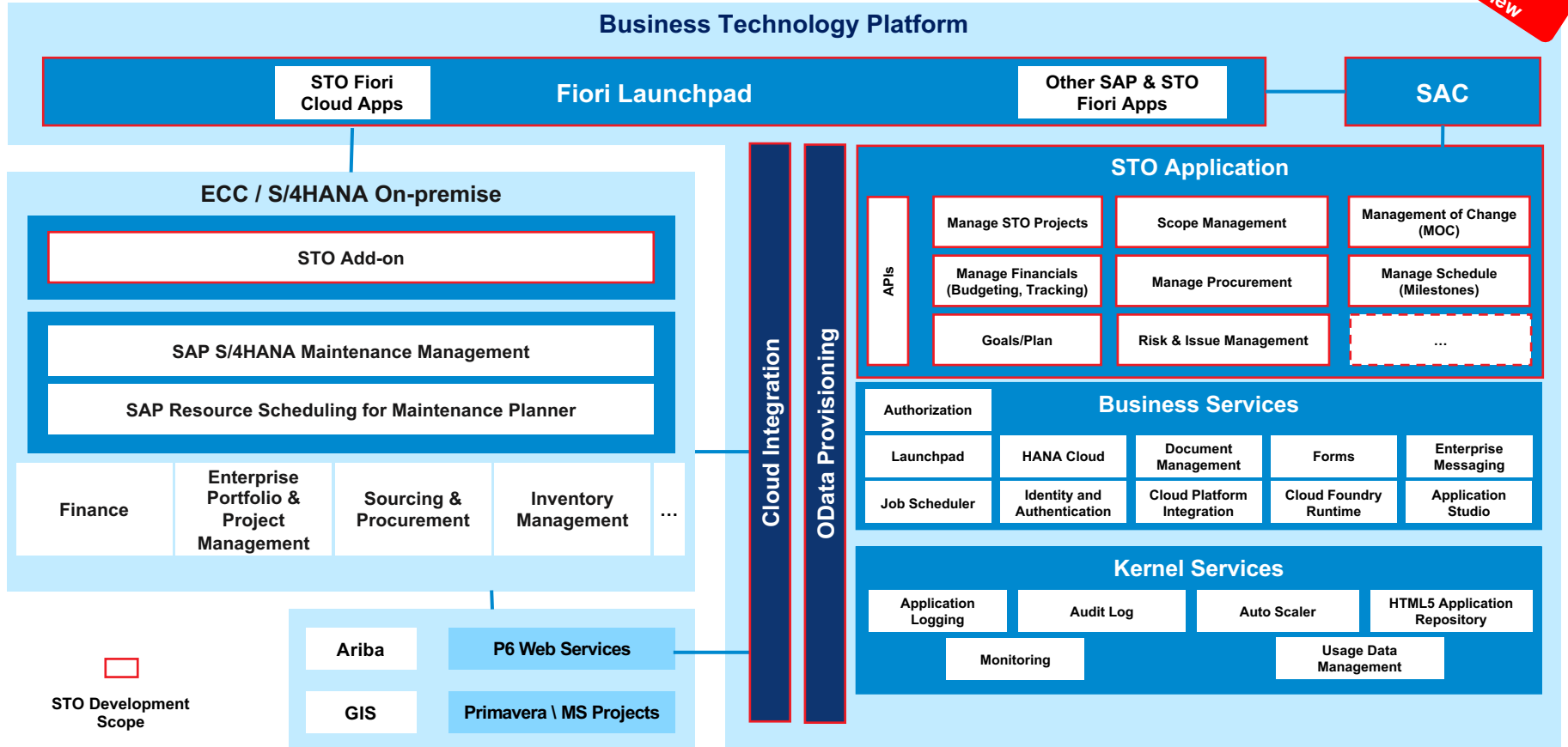
Change requests - Execution

1 Filter | Explorer Available



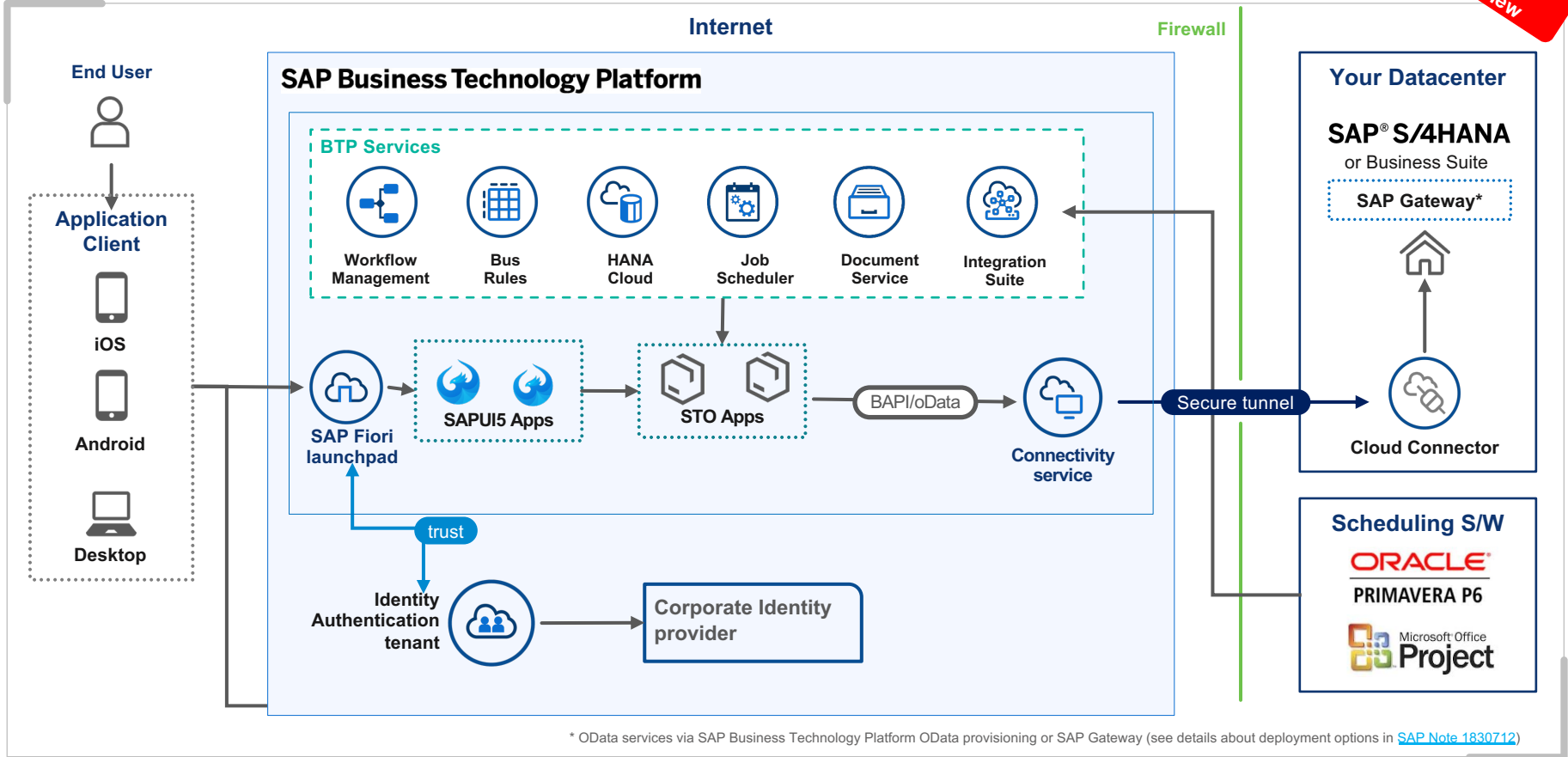
System Architecture

Lab Preview



STO – BTP architecture

Lab Preview



* OData services via SAP Business Technology Platform OData provisioning or SAP Gateway (see details about deployment options in [SAP Note 1830712](#))



STO Application High Level Release Plan





WIPRO CORPORATE OVERVIEW

A trusted, global partner.

Wipro Limited (NYSE: WIT, BSE: 507685, NSE: WIPRO) is a leading technology services and consulting firm focused on building innovative solutions that address clients' most complex digital transformation needs.

Leveraging our holistic portfolio of capabilities in consulting, design, engineering, and operations, we help clients realize their boldest ambitions and build future-ready, sustainable businesses. With over 250,000 employees and business partners across 66 countries, we deliver on the promise of helping our customers, colleagues, and communities, to thrive in an ever-changing world.

**Q3 FY23
IT services
revenue**

\$2.80 Bn

FY22 revenue

\$10.4 Bn

Employees

258,744

**Active
global clients**

1,484

Global presence

66 countries

149 diverse nationalities

**We believe business fuels
our purpose, and purpose
fuels our business.**

Member of

**Dow Jones
Sustainability Indices**

Powered by the S&P Global CSA

Wipro is a proud member of the
Dow Jones Sustainability Index (DJSI)
– World for the 13th year in a row.

Wipro is the only company in the IT
Services industry with an unbroken
track record since 2010, reflecting our
long-term commitment to sustainability.

Wipro is also a member of the DJSI
Emerging Markets Index.

Figures based on the Quarter ended December 31, 2022, for Global IT Services business.

A large, semi-transparent blue circle is positioned on the left side of the image, overlapping the background scene. It contains the text "Customers Engagements" in white, bold, sans-serif font. A smaller, solid blue circle is located above and to the right of the larger one, partially overlapping it.

Customers Engagements



Objectives

- Share the outcome of the Wipro and SAP global market study including the statistical data, challenges, priorities, and development approach
- Discuss the Oil and Gas, Petrochemicals, Utilities, Chemicals, Mining, and Metals (ENR) industries' best practices for STO
- Share the initial design and mockups for the STO solutions and Identify missing requirements
- Discuss potential solutions and implementation approaches identified by SAP and CAG
- Involve customers in the current and next development life cycle at periodic review points
- Advise by engaging a business process consultancy firm in the area of asset-intensive maintenance and optimization
- Share the STO requirements to facilitate the development of future solution releases
- Establish a customer point of contact for the development project

SAP STO Customer Advisory Group

Participants – Customers & Organizations

Oil, Gas & Energy



Chemicals & LiveScience



VDI – The Association of German Engineers



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Q&A





**Thank you
for your time!**

