

BW Modernization Webinar Series

Embedded Analytics in SAP S/4HANA Cloud*

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Solution Management for SAP S/4HANA Cloud

Public

* including SAP S/4HANA Cloud, SAP S/4HANA Cloud, private edition, and on-prem deployments of SAP S/4HANA



SAP S/4HANA Cloud and SAP Business Technology Platform

A versatile platform to speed innovation

Comprehensive extensibility capabilities to allow cloud lifecycle compliant innovation and differentiation whilst retaining the benefits of a clean digital core

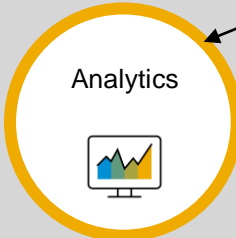
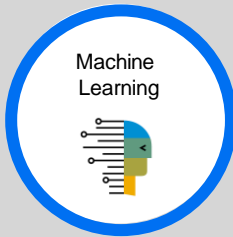
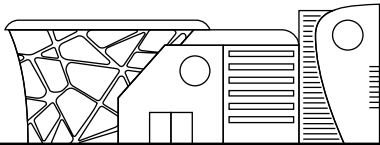
Further intelligent industry capabilities available **side-by-side** via **SAP Business Technology Platform**

Intelligent technologies fully **embedded in SAP S/4HANA Cloud**

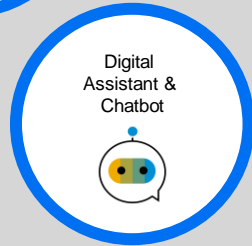
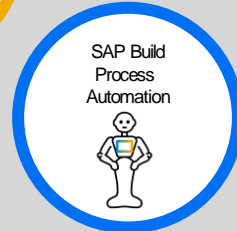
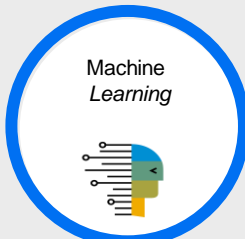
Digital core & backbone

SAP S/4HANA

The right structure and business processes set up to improve your business performance through business innovation and intelligent technologies



Business Data Fabric structures allow for **enterprise-wide data democratization**



Extend Prebuilt use cases via:

- Key User Extensibility
- Developer Extensibility

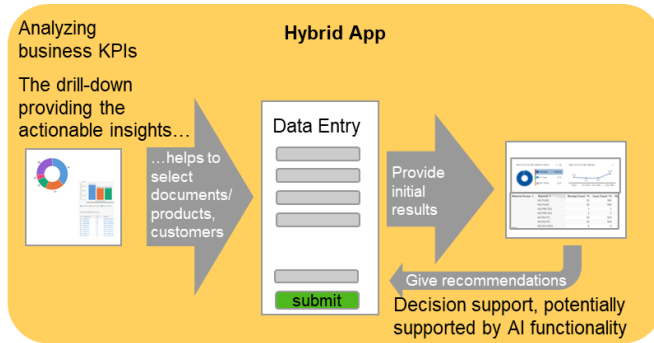
Side-by-side extension via:

- Custom code development
- Integration with BTP services

SAP S/4HANA embedded analytics* – the basics you need to know

Concepts

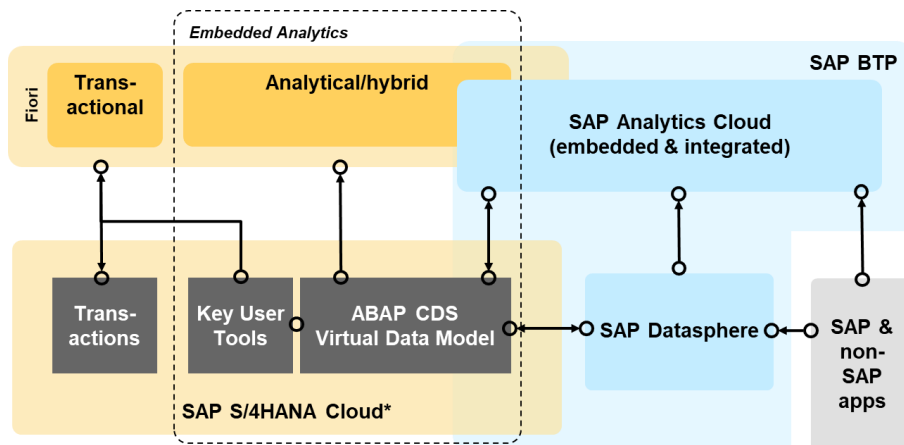
Enhanced ERP process example:



***embedded analytics** includes technical embedding of analytical functionality and visualizations for seamless interoperability between transactional and analytical aspects of an **optimized business process**

Note: SAP Analytics Cloud is included commercially only in SAP S/4HANA Cloud, public edition (GROW) as OEM version

Architecture



Note: SAP Analytics Cloud is included commercially only in SAP S/4HANA Cloud, public edition (GROW) as OEM version

Principles

Key Principles (technical setup unique to SAP S/4HANA Cloud*):

“Insight-to-action”

Use analytics findings to navigate to the transaction to initiate the necessary changes

“fact-based process handling”

Use analytical visualizations to prioritize the order of work

Recommendation:

“To assure the optimization of ERP processes, the close alignment and integration of transactional and analytical components is essential.

Therefore, the usage of embedded analytics should be maximized wherever possible.”

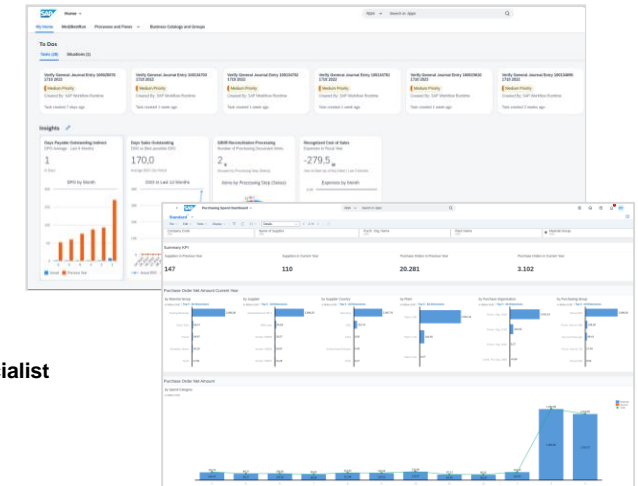
Functionality

Fiori business user visualizations

- Smart Business KPIs
- Overview Pages
- Analytical List Page
- Multidimensional Reports
- Dashboards (powered by SAP Analytics Cloud)
- Hybrid Applications (In-app Analytics and Machine Learning)

Key user tools for the Analytics Specialist

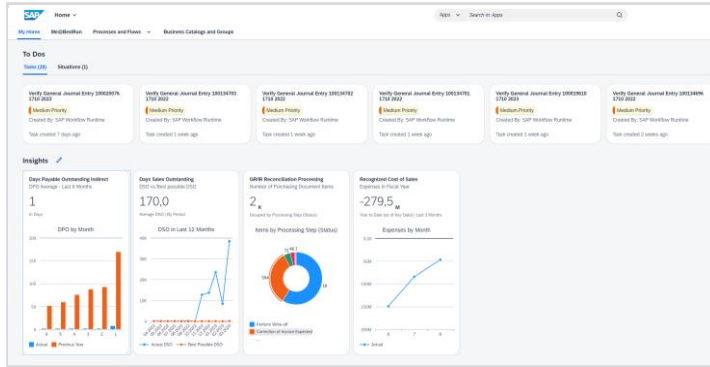
- Manage KPIs and Reports
- View Browser
- Custom CDS Views
- Custom Analytical Queries
- Embedded SAP Analytics Cloud Stories



Appendix slides

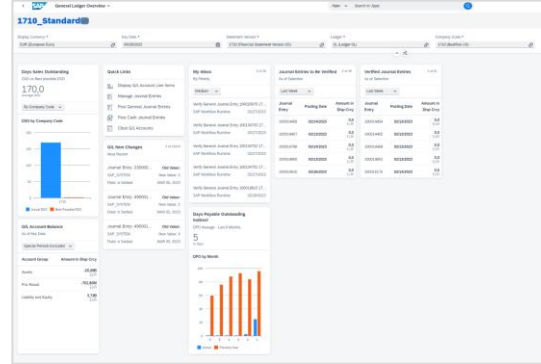
SAP S/4HANA embedded analytics – Offering for the Business User

Smart Business KPIs



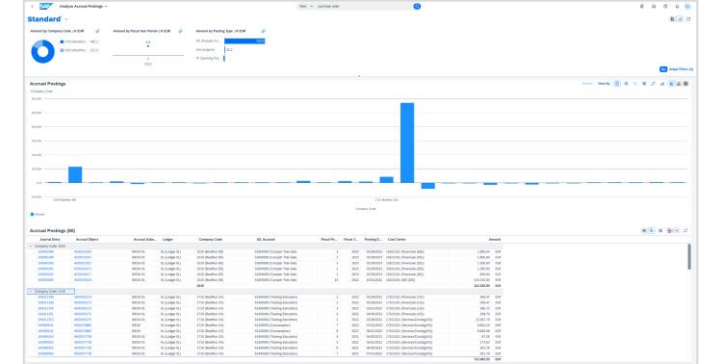
- KPI monitoring on the Fiori Launchpad
- Drill-down into further analytical or transactional apps
- Save personal variants

Overview Pages



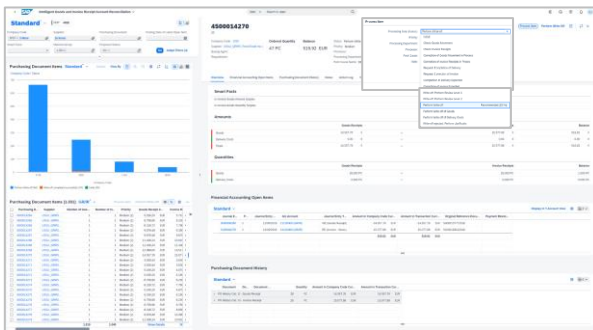
- Consolidated view on a certain domain, e.g. Purchasing
- Information presented in analytical tables and charts
- Take action in the same place or navigate to other apps
- Save personal variants

Analytical List Page



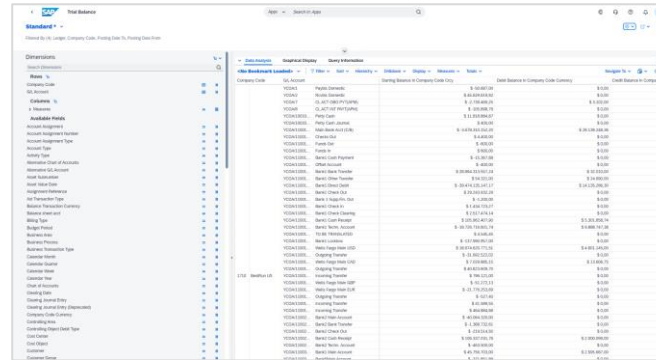
- Generic approach to mix analytical and transactional activities
- Display table or chart or a combination
- Take action directly in the same app or navigate to other apps
- Save personal variants.

In-app Analytics and ML



- Combine Analytics with transactional content in one screen
- Insight to action to prioritize based on facts
- Use drill-downs to determine transactional input parameters

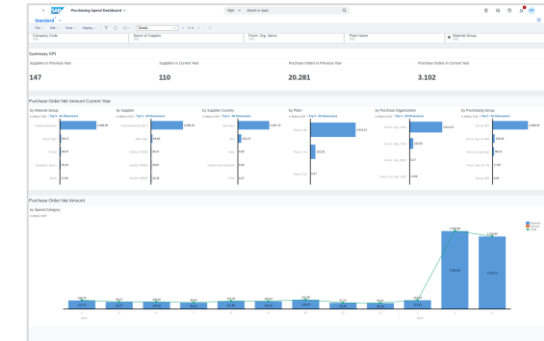
Multidimensional Reports



- Analyze and visualize data from multiple dimensions
- Display pivot-table or chart or a combination
- Save personal variants

Powered by SAP Analytics Cloud

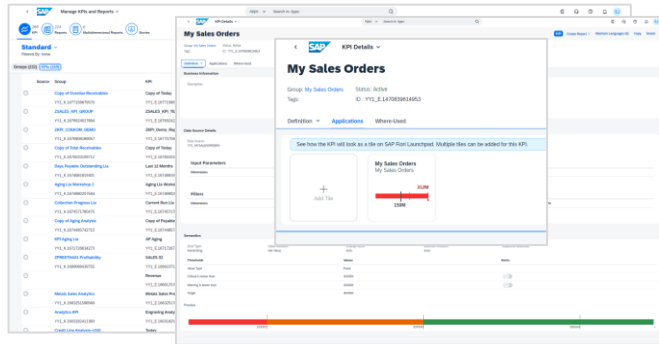
Dashboards



- SAP S/4HANA: Optional, additional content, Stories (SAP S/4HANA data only) shipped via SAP Analytics Cloud Content Repository
- SAP S/4HANA cloud: Fiori-embedded SAP Analytics Cloud content for SAP S/4HANA, stories available via SAP Analytics Cloud OEM tenant
- Queries supplying the data are shipped with SAP S/4HANA
- Used as templates, customers will copy and adapt

SAP S/4HANA embedded analytics Overview - Key user tools for the Analytics Specialist (selection)

Manage KPIs and Reports

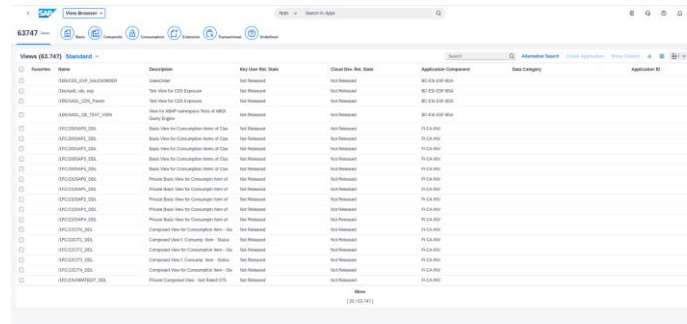


Smart Business KPI & Report Modeler enables your company to define, manage, and leverage consistent KPIs and Reports across all your business functions.

View Browser

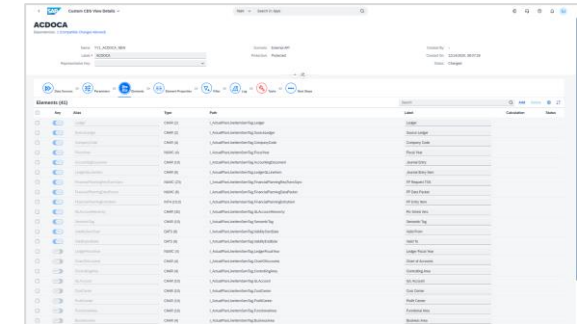
Blog: Find all ABAP CDS views

Blog: Find the right CDS Extractor



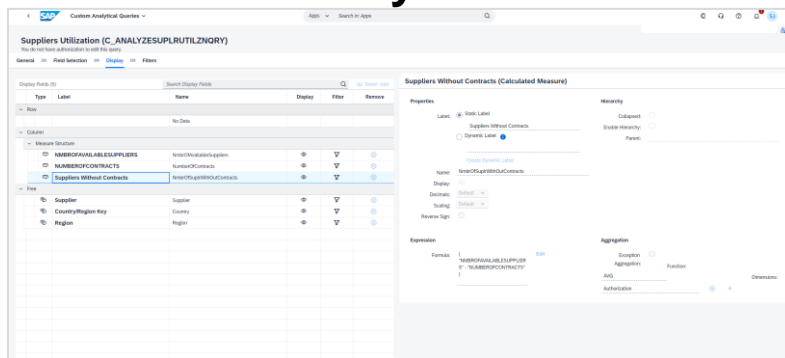
Search, browse and tag analytical and non-analytical queries. This application displays all the views that are created and released by SAP as well as the customer-created SAP views.

Custom CDS Views



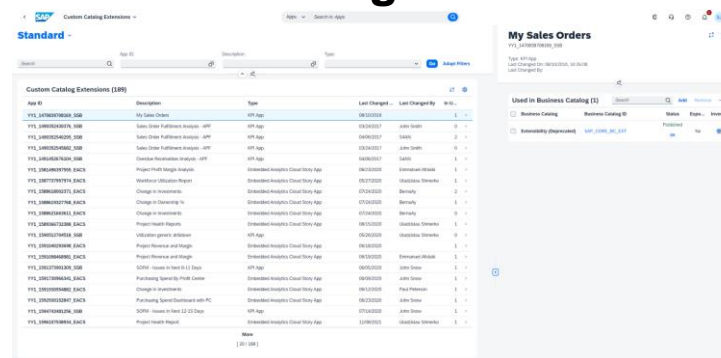
If you need access to data in your system in a way the system does not offer so far, you can create your own data access by making use of a Custom Core Data Services view.

Custom Analytical Queries



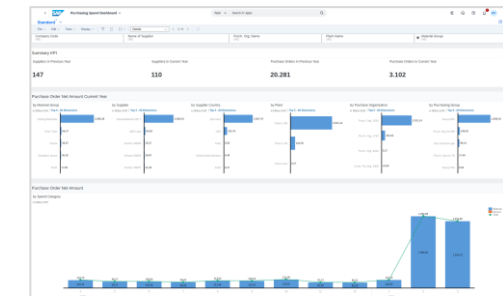
Custom Analytical Queries transforms and organizes raw data delivered from business documents into a meaningful multidimensional report.

Custom Catalog Extensions



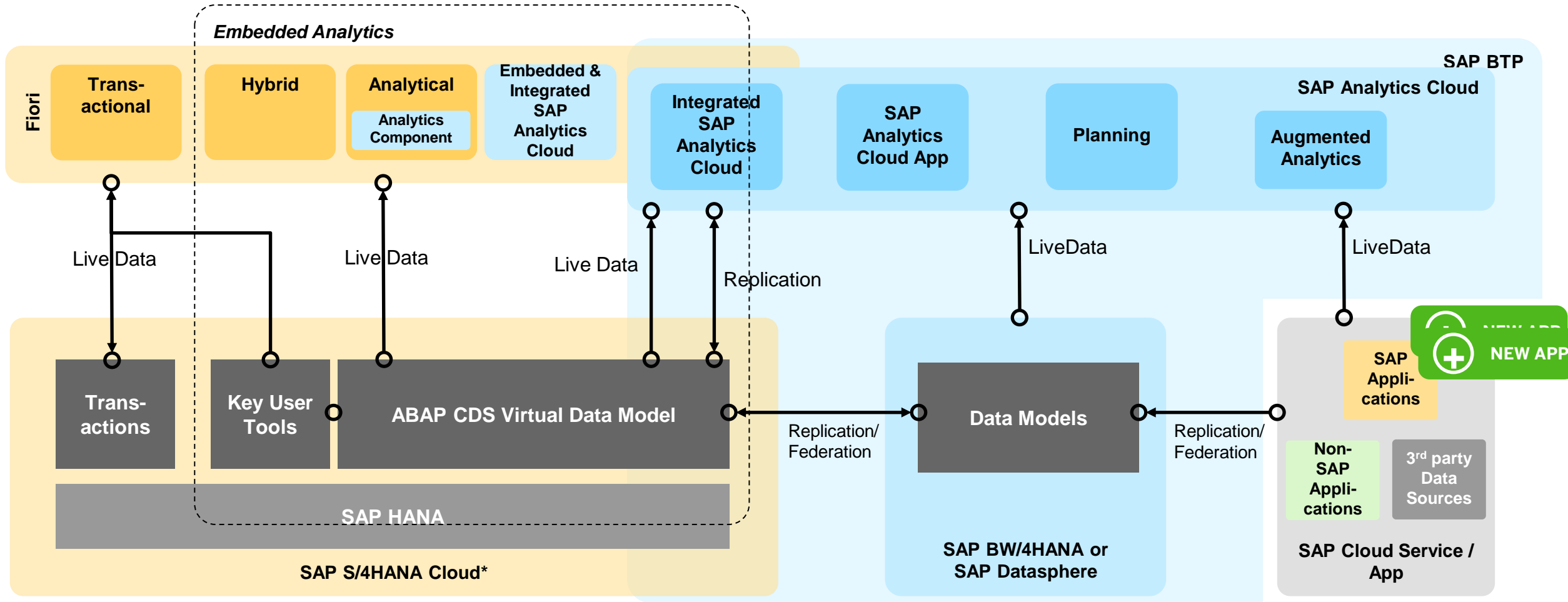
With this app you assign your apps, such as new multidimensional reports or KPIs to the required business catalogs and thus to the user roles.

Embedded SAP Analytics Cloud Stories

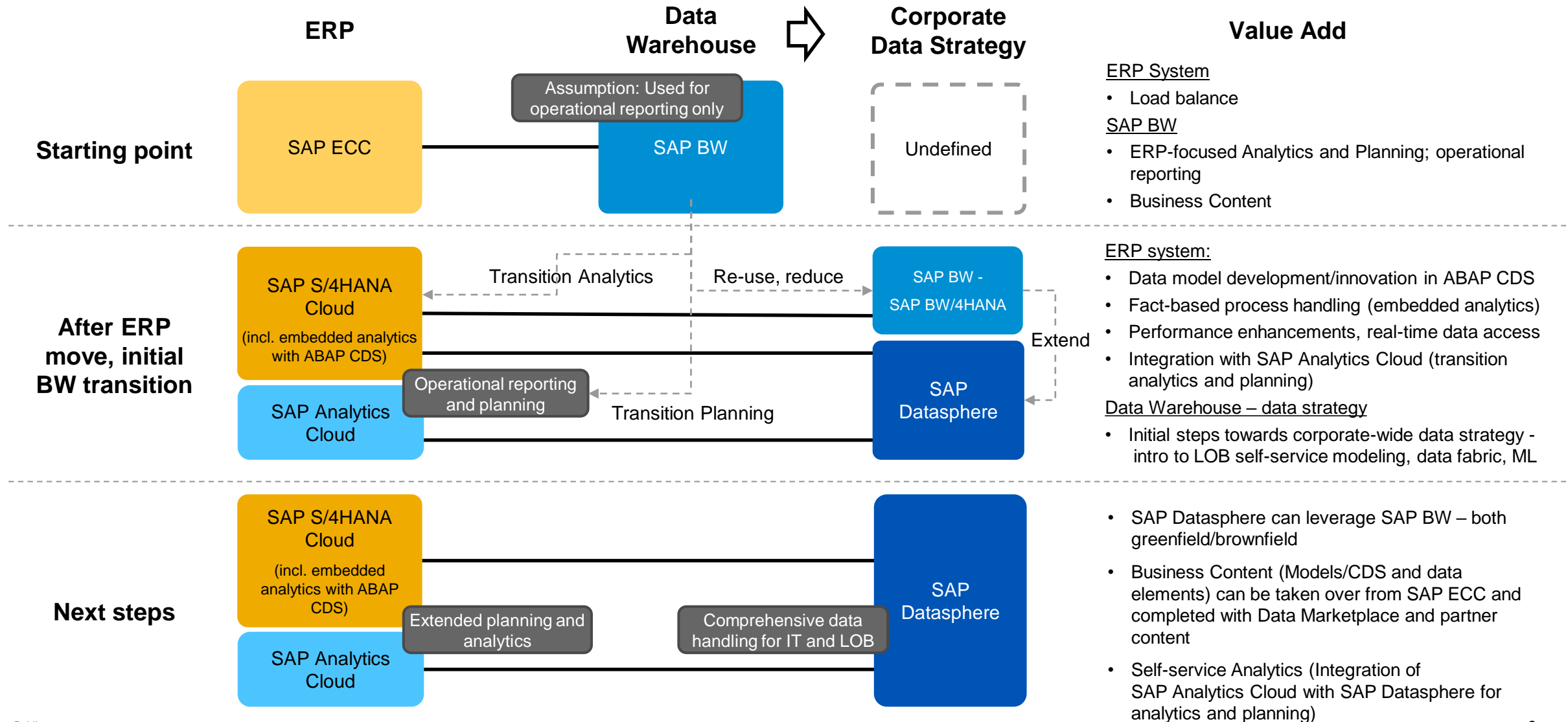


Enable seamless integration between SAP S/4HANA Cloud and SAP Analytics Cloud: Create SAP Analytics Cloud Stories, and tiles in the SAP Fiori Launchpad

SAP data and analytics solutions - building the business data fabric



Value Add and new paths for Analytics while moving to SAP S/4HANA Cloud



SAP-delivered SAP S/4HANA Cloud embedded analytics Content



Finance



100+

Sourcing & Procurement



30+

Sales and Distribution



Services Industries



12+

embedded SAC Stories on
multiple LOBs

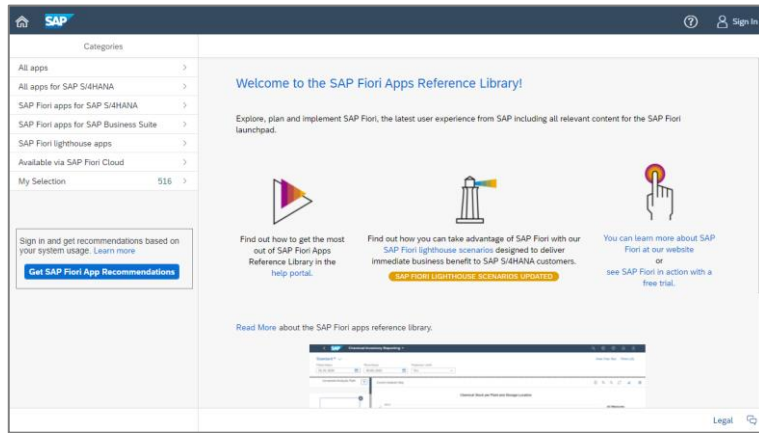


15+

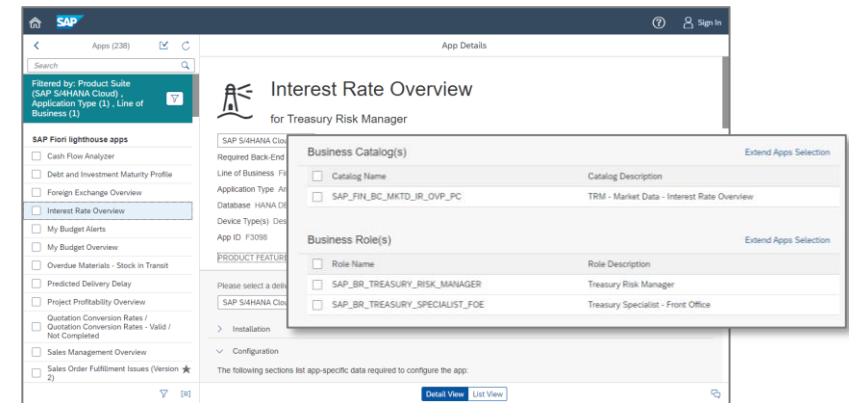
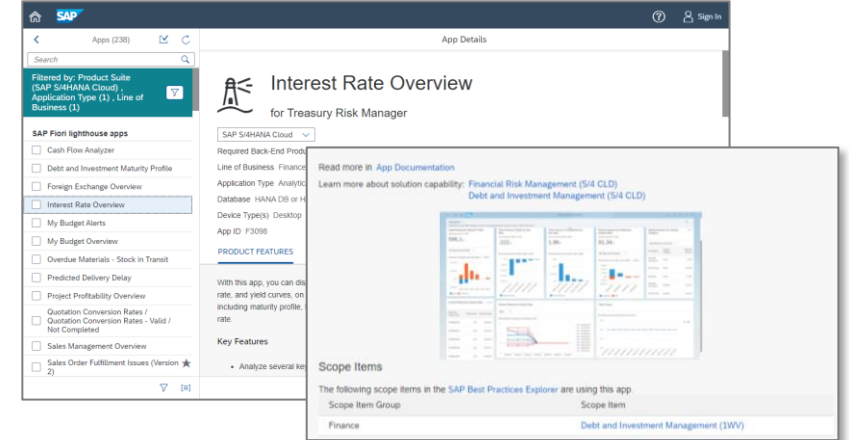
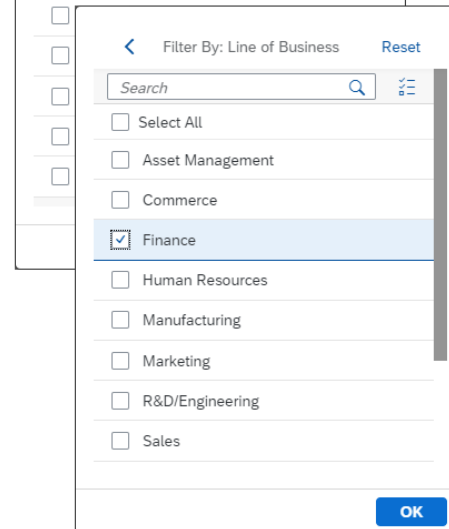
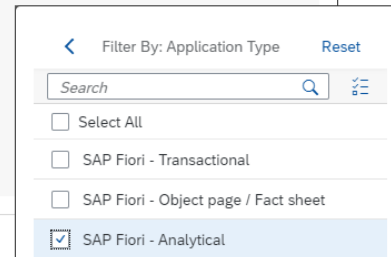
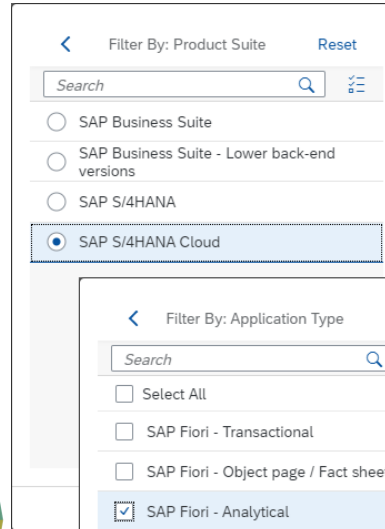
Foundation and Cross

Exploring pre-delivered Analytics Content

SAP Fiori Apps Reference Library



- Get general info
- Learn about features
- Learn how to get started















Pre-delivered non-Analytics Content

Most Used Analytical Apps in Logistics

Persona	Analytical App	Line of Business
Internal Sales Representative	Sales Order Fulfillment Issues (Version 2)	Finance, Sales, Service, Sourcing and Procurement
	Dead Stock Analysis	Asset Management, Sales, Sourcing and Procurement, Supply Chain
Inventory Manager	Slow or Non-Moving Materials	Asset Management, Sales, Sourcing and Procurement, Supply Chain
	Stock - Multiple Materials	Asset Management, Finance, Manufacturing, Sales, Sourcing and Procurement, Supply Chain
Production Planner	Manage Work Center Capacity	Manufacturing, Sourcing and Procurement, Supply Chain
	Monitor Purchase Contract Items	Sourcing and Procurement, Supply Chain
Purchaser	Monitor Purchase Order Items	Sourcing and Procurement, Supply Chain
	Monitor Purchasing Info Records Price History	Sourcing and Procurement, Supply Chain
Warehouse Clerk	Material Documents Overview	Asset Management, Sales, Sourcing and Procurement, Supply Chain
	Overdue Materials - Stock in Transit	Asset Management, Finance, Manufacturing, Sales, Sourcing and Procurement, Supply Chain

Embedded Analytics | Core Finance Capabilities

Accounting and Financial Close	Financial Operations	Cost Mgmt. and Profit. Analysis	Treasury	Real Estate Management
<p>Accounting standards, Data quality through single source of truth, accelerated close, reporting flexibility</p> <ul style="list-style-type: none"> General Ledger Overview Pages Trial Balance Tax Reconciliation Financial Statements Asset Accounting Overview Group Financial Statements 	<p>Control DSO, Reduce credit risk, Reduce debt write-off, Optimal payment and receivable process</p> <ul style="list-style-type: none"> Accounts Payable & Receivable Overview Days Sales Outstanding Aging Collections & Disputes Dashboards Credit Utilization and Management Overview 	<p>Visibility across elements of the margin based as per Universal Journal attributes, account based approach elimination reconciliation efforts</p> <ul style="list-style-type: none"> Market Segments Product and Services Margins Project profitability Predictive Sales 	<p>Facilitate dynamic liquidity forecasting with cash flow analysis, Enable treasurers to take immediate action with integrated bank account management, Real-time drill-down analysis into global bank balances and cash positions</p> <ul style="list-style-type: none"> Bank Account Balance Cash Position Cash flow Analyzer 	<p>Lease accounting standards, Financial postings and collections of leases Lease Contract Data</p> <ul style="list-style-type: none"> Contract and Lease Management Contract and Lease Cash flow
<p>Key Personas steering Insight to Actions with core embedded analytics capabilities</p> <div> <div>  <p>General Ledger Accountant (GL_ACCOUNTANT)</p> </div> <div>  <p>Asset Accountant (AA_ACCOUNTANT)</p> </div> <div>  <p>Consolidation Specialist (BR_CONSLDTN_SPECIALIST)</p> </div> <div>  <p>Accounts Payable Manager (AP_MANAGER)</p> </div> <div>  <p>Accounts Receivable Manager, Accounts Receivable Accountant (AR_MANAGER, AR_ACCOUNTANT)</p> </div> <div>  <p>Credit Controller (CREDIT_CONTROLLER)</p> </div> <div>  <p>Sales Accountant (SALES_ACCOUNTANT)</p> </div> <div>  <p>Cost Accountant – Overhead (OVERHEAD_ACCOUNTANT)</p> </div> <div>  <p>Cash Manager (CASH_MANAGER); Cash Management Specialist (CASH_SPECIALIST)</p> </div> <div>  <p>Treasury Risk Manager (TREASURY_RISK_MANAGER)</p> </div> <div>  <p>Contract Specialist Leasing (RECM_SPECIALIST)</p> </div> <div>  <p>Contract Valuation Specialist Leasing (RECM_VALSPECIALIST)</p> </div> </div>				