

Deep Dive into Universal Journal – A Universe of data at your fingertips

Speaker: Amit Verma, SAP Singapore



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Agenda

- Why Universal Journal ?
- What's it all about ?
- How do we get there?



Agenda

- Why Universal Journal?
- What's it all about ?
- How do we get there?

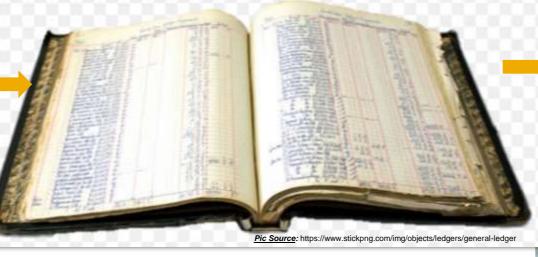


Evolution of Manual World of Accounting

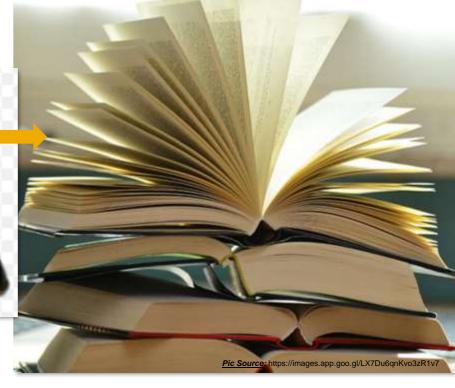


Globular envelope (known as a *Bulla*) with a cluster of accountancy tokens, Uruk period, 4000-3100 B.C.E, from Susa. Louvre Museum

Pic Source: https://en.wikipedia.org/wiki/History_of_accounting

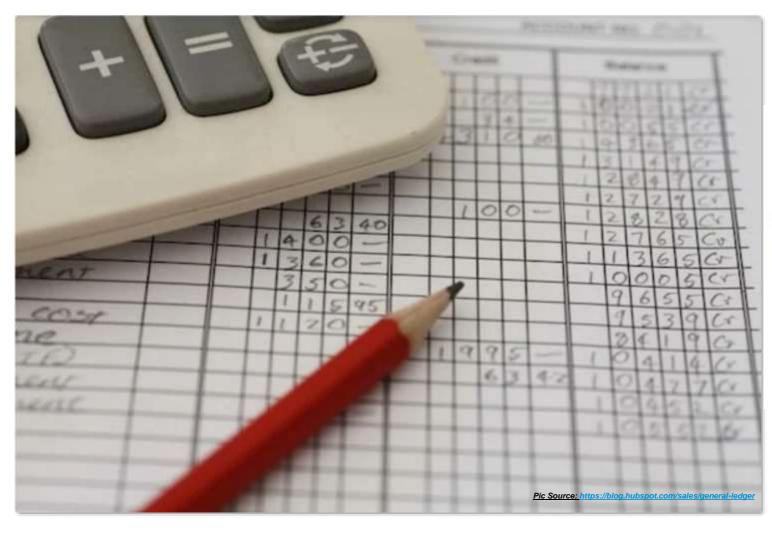


One Large Journal – Have it all!



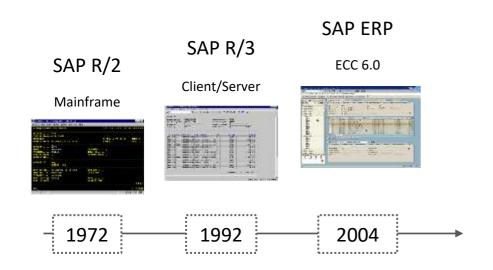
Split to Sub-ledgers— Capture it all!

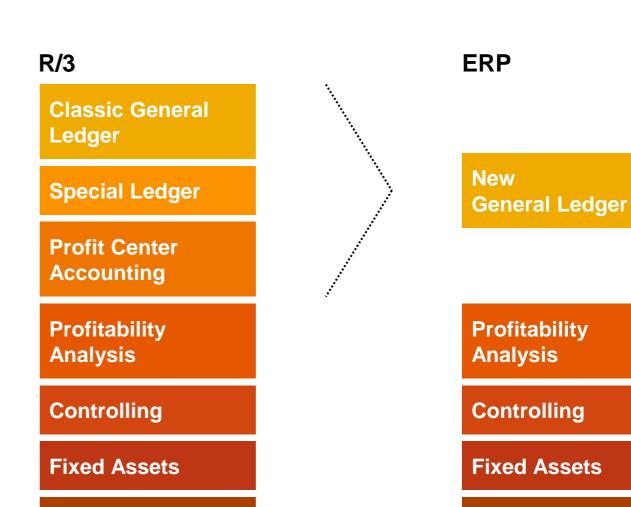
Evolution of Manual World of Accounting (Contd..)





Evolution of SAP Accounting



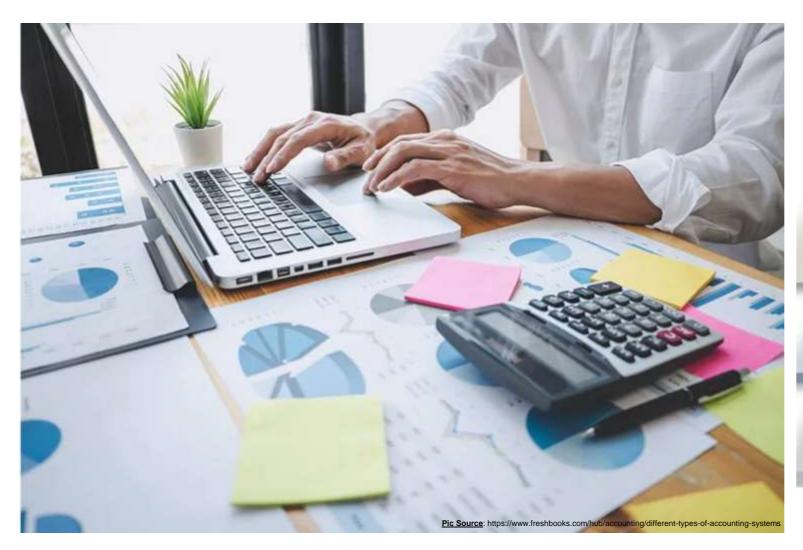


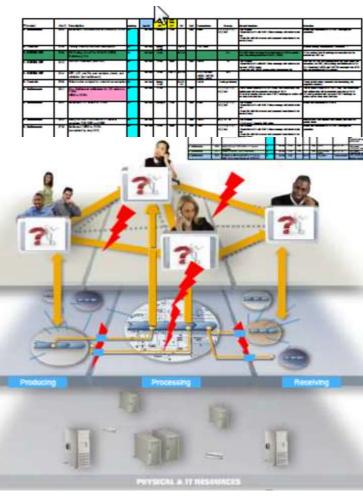
Material Ledger

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Material Ledger

Evolution of SAP Accounting (Contd..)

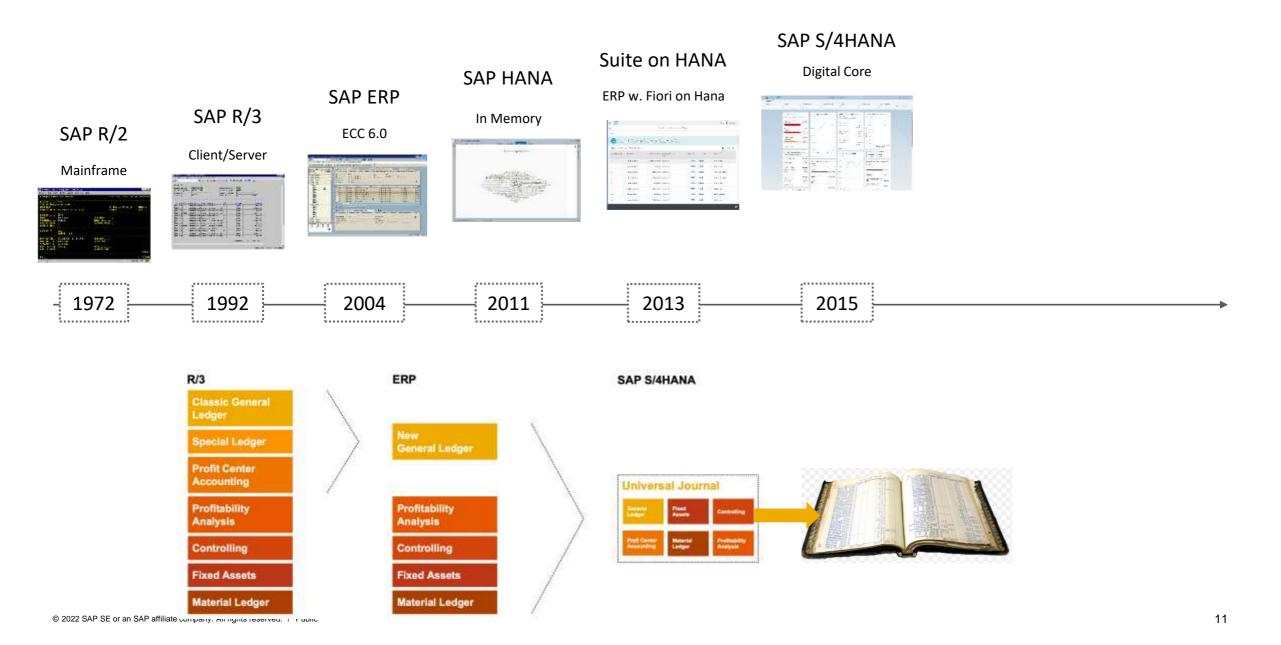




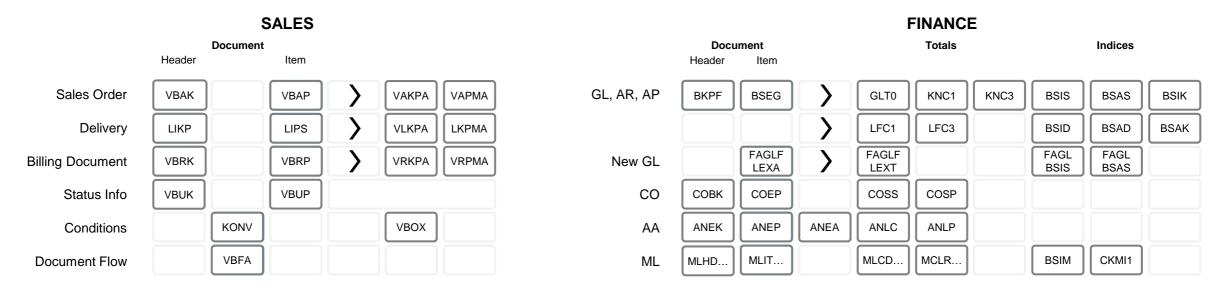
Challenge to have Single Source of truth!



Evolution of SAP Accounting (Contd..)



Simplifying Database & Table Structures to Prepare for Scale



MATERIAL VALUES Valuation in MM or Valuation ML

SAPPB (S) MESSANIE®

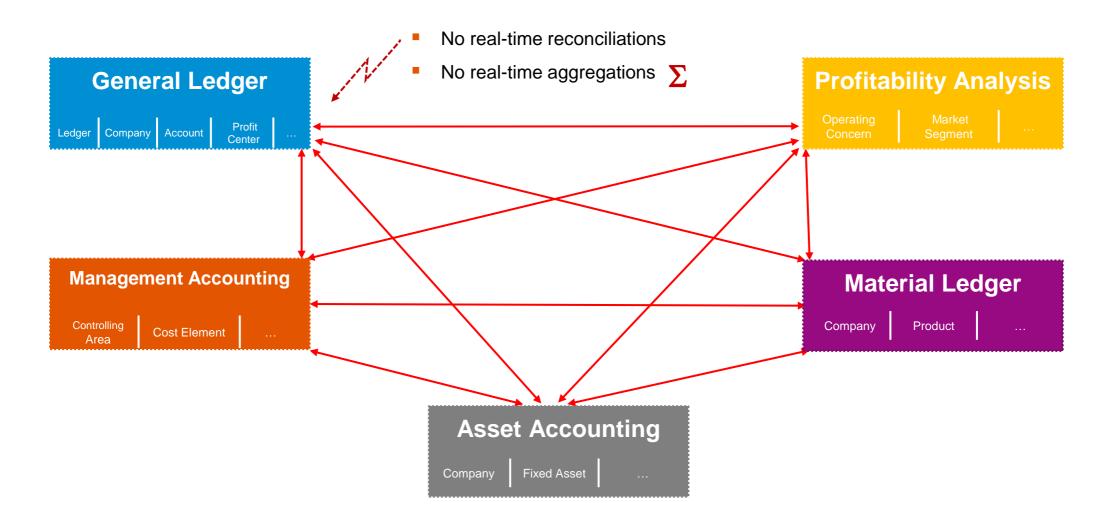
MATERIAL QUANTITIES

Aggregates Hybrid: Master Data ML History with Valuated Stock Valuation CKMLPP **MBEWH CKMLCR** MLPP CKMLPPWIP **MBEW EBEWH** CKMLCR **EBEW CKMLPP** MLCR CKMLKEPH MLCRF MLCD QBEW **QBEWH** MLHD CKMLMV004 **OBEW OBEWH** MLIT MLKEPH CKLMMV004

	Stock Aggregates						History
Material Document	>	MSSA	MSSL	MSSQ	>	MSSAH	MSTBH MSSQH
MKPF MSEG	>	MSTE	MSTQ	MSTB	>	MSTEH	MSTQH
Inventory Movements	Hybrid: Master Data with Stock Aggregates					MARCH	MARDH
	МСНВ	MARC	MARD	MSKU	>	MSLBH	мснвн мѕкин
	MSKA	MKOL	MSPR	MSLB	>	MSKAH	MSKAH

Aggregates

Business Suite - Modular Data Platform



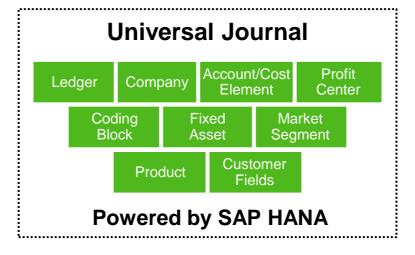
SAP S/4HANA Finance Universal Journal

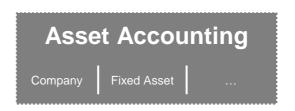
Benefits of the single Source of Truth



- **Management Accounting** Controlling Cost Element
 - No Stored Aggregations
 - **Drill to Detail**

- No Reconciliation needed
- No Replication needed









Company

Product

- Instant Insight
- Flexible Real Time Analytics



The Perfect Financial and Management Accounting System

Don't you dream of a reporting solution, that ...

- comprises actual data, plan data, simulated data, and prediction data
- presents data in a common structure making comparison easier
- provides all required currencies
- contains all details
- presents a 360° view on objects of interest (P&L + Balance Sheet KPl's)
- shows the unconsolidated and consolidated views in real time (ad hoc group reporting)



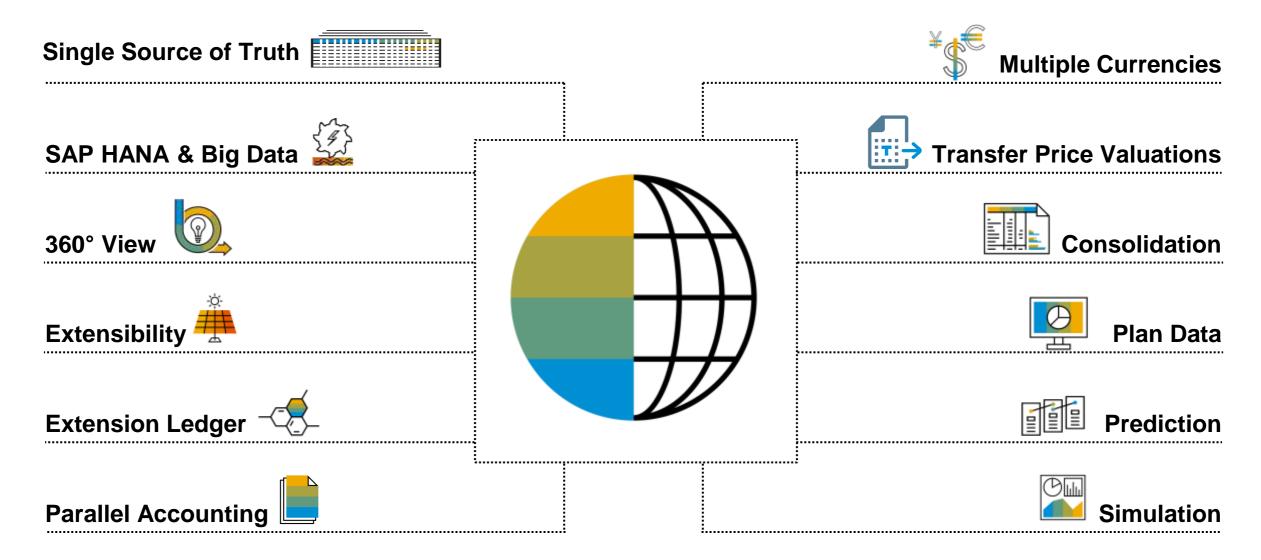
- is up to date at every point in time
- gives a full audit trail
- is based on a single source of truth: fully reconciled by architecture
- is set up without data redundancy
- fulfills legal requirements from a local and a group perspective
- is the basis for management reporting at every needed granularity
- can be enhanced / extended easily

Agenda

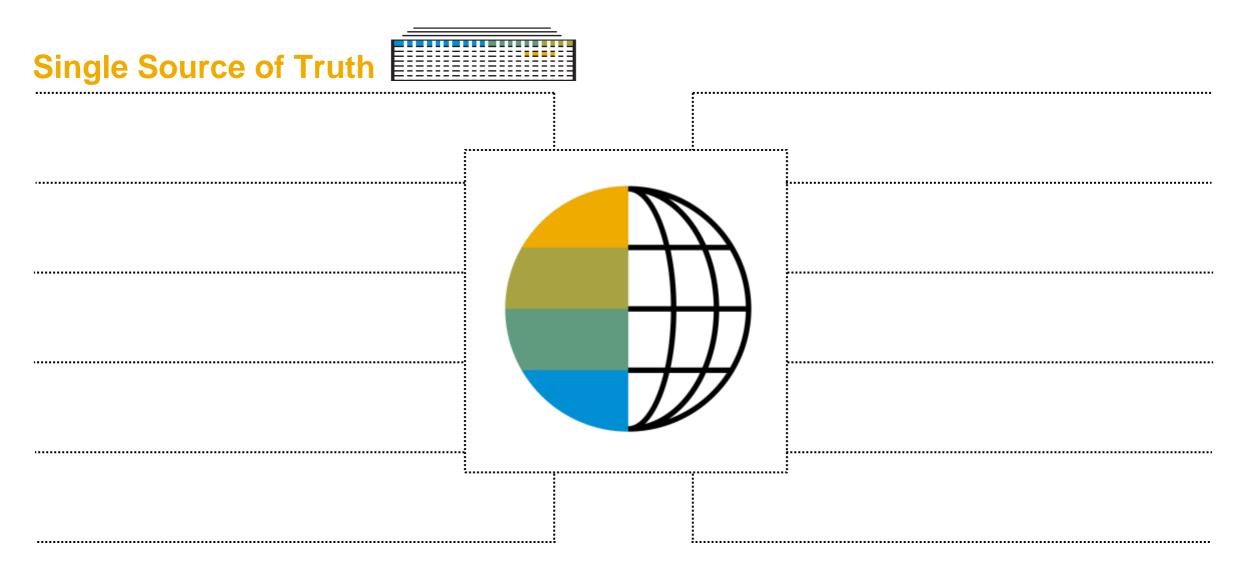
- Why Universal Journal ?
- What's it all about?
- How do we get there?



Key Characteristics of the Universal Journal



Key Characteristics of the Universal Journal



Evolution of SAP Accounting

R/3

Classic General Ledger

Special Ledger

Profit Center Accounting

Profitability Analysis

Controlling

Fixed Assets

Material Ledger

ERP

New General Ledger

Profitability Analysis

Controlling

Fixed Assets

Material Ledger

SAP S/4HANA

 General Ledger
 Fixed Assets
 Controlling

 Profi Center Accounting
 Material Ledger
 Profitability Analysis

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The Single Source of Truth is Reality: Table ACDOCA

All G/L accounts Millions of records

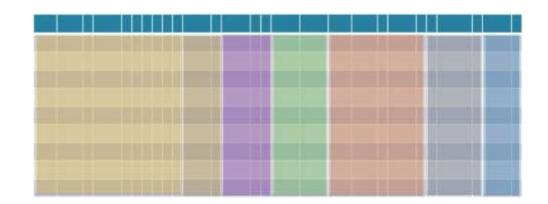
The Universal Journal is the Single Source of Truth in SAP S/4HANA

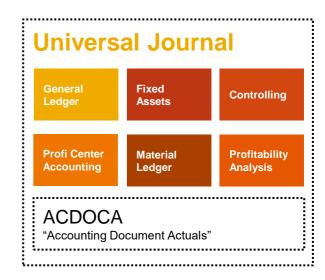
ACDOCA is the common line item persistence

- General Ledger
- Profit Center Accounting
- Fixed Asset Accounting
- Material Ledger
- Controlling
- Profitability Analysis

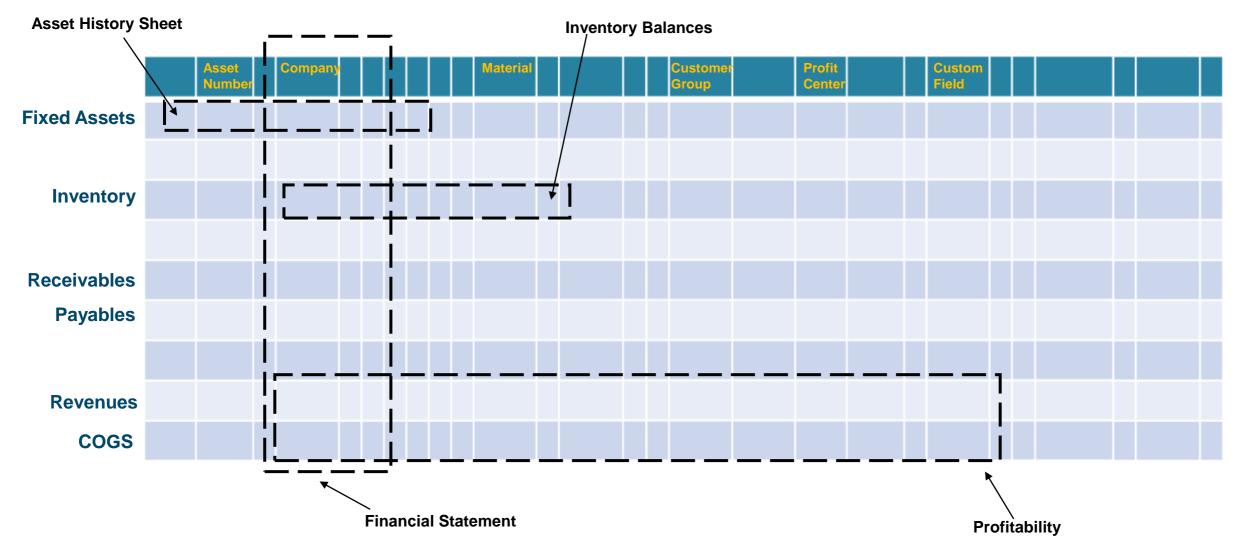
Common Posting Logic

- Currency conversion
- Derived attributes
- Splitting logic
- Posting logic for account assignments

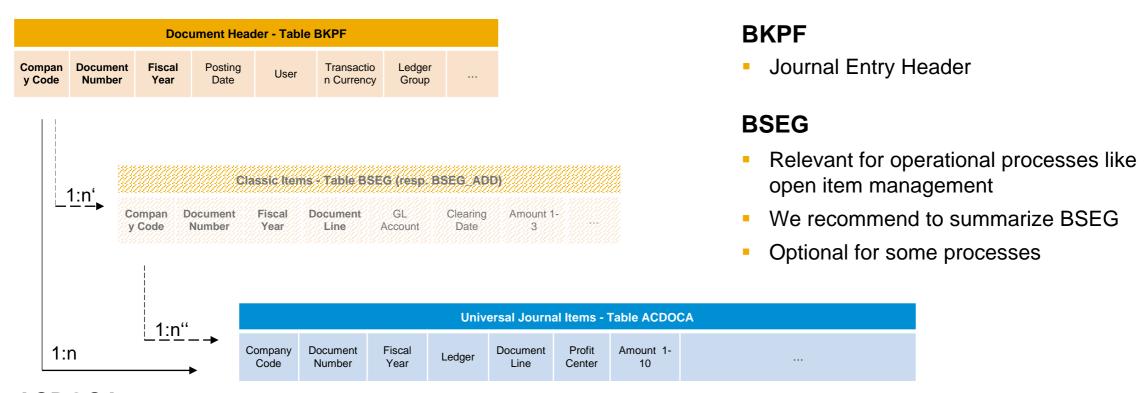




The Single Source of Truth: Reconciled Analytics by Architecture



Data Model for Journal Entries in the Universal Journal



ACDOCA

- Journal Entry Items single source for reporting
- Amounts and quantities per ledger and per balancing account assignment (Online Splitter)
- Contains full details all fields relevant for accounting processes and reporting

My Home

Processes and Flows ~







Accounts Payable - Processes & Reporting

Generic Operations

Maintain Business Partner

Create Supplier Invoice

Import Supplier Invoices





Preparation for Payment

Manage Supplier Line Items

--

Manage Payment Blocks

Display Supplier Balances

Manage Automatic Payments





Reporting

THE S

Cash Discount Forecast Available Amount

320_к

C 30 min. ago EUR

Cash Discount Utilization Today

14.3%

C 30 min. ago

Days Payable Outstanding Indirect Method

106

C 30 min. ago

Aging Analysis Payable Amount

584_M

C 30 min. ago EUR

Days Payable Outstanding Last 12 Months

02/2022 86,53 01/2022 91,87 12/2021 91,85

C 30 min. ago

Future Payables Today

C 30 min. ago EUR

Overdue Payables Today

Critical O... 497,80M EUR Uncritical O... 4,17M EUR

C 20 min. ago

Accounts Payable Overview

Aging Report for Accounts Payable

③ 小 (*)

Invoice Processing Time Today

C 30 min. ago EUR

Automatic and Manual Payments Payments for Last Year

C 30 min. ago EUR

My Home

Processes and Flows V

Business Catalogs and groups







Accounts Payable - Processes & Reporting

Generic Operations

Maintain Business Partner

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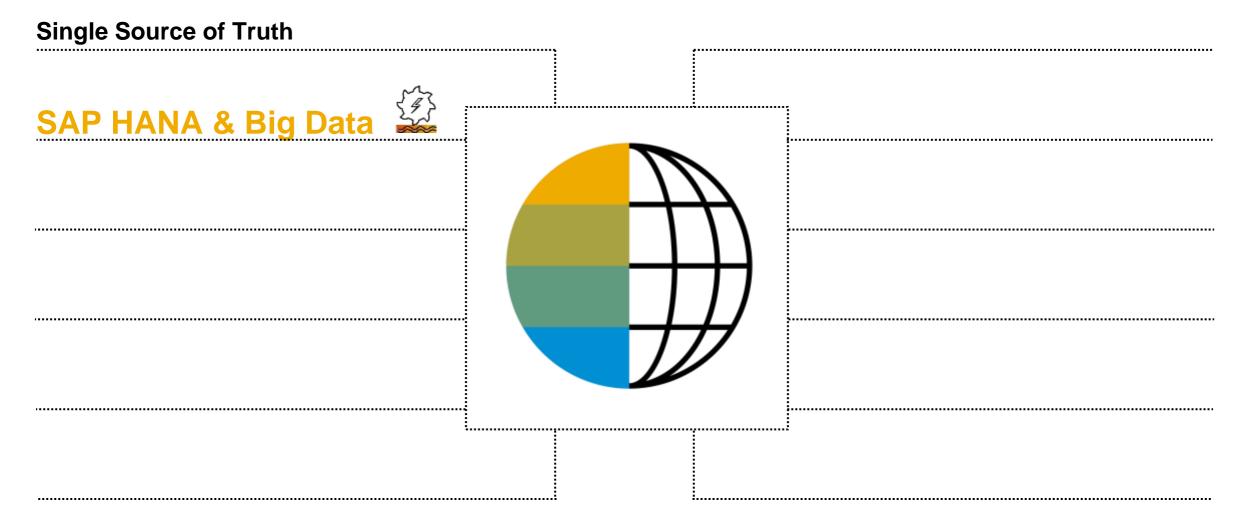
Automatic and Manual Payments Payments for Last Year

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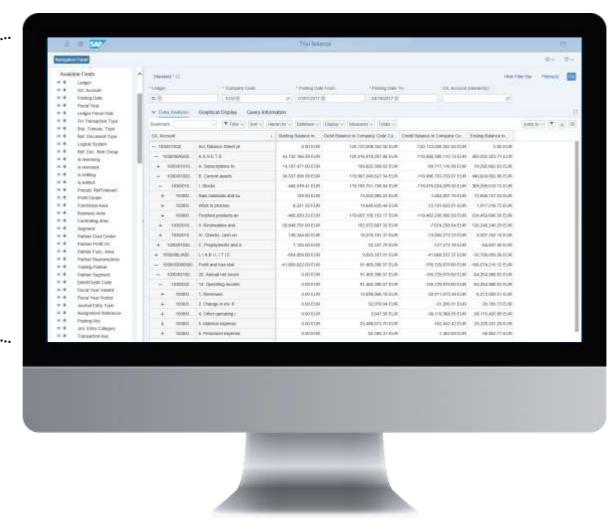


Key Characteristics of the Universal Journal



Trial Balance: High Speed Standard Reporting is Reality

A huge list of fields is available for drilldown!



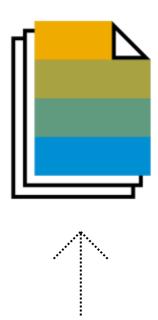
Leveraging the Power of the SAP HANA Database

Select specific data with arbitrary filter criteria

- With our new FIORI GL Line Item UI you can select a specific line item from billions of records in ACDOCA in less than 1 second
- You can use any combination of filter criteria to narrow down the result.
 It is not necessary to define and hit a database index, as it used to be in ERP

Aggregated reporting with use of multiple dimensions of ACDOCA

- SAP HANA can aggregate millions of lines very efficiently on the fly
- No need for a predefined fixed totals anymore
- Reporting can use all dimensions of ACDOCA, as long as the result aggregates to a reasonable output data volume
- Universal Journal line items contain full details including customer extension fields
- Real time reporting no need to replicate data asynchronously to a data warehouse

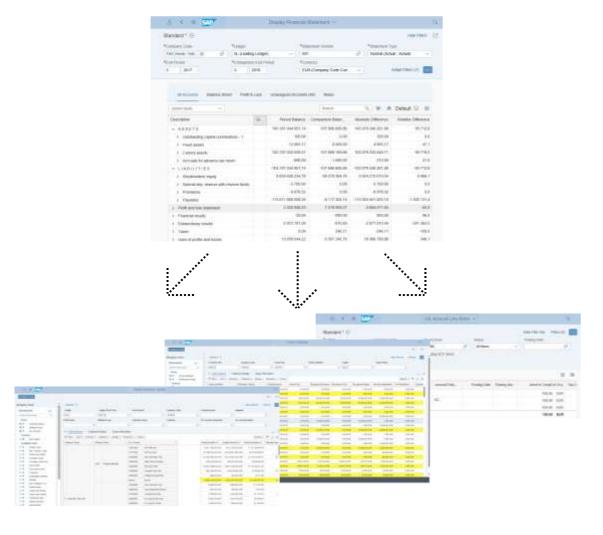


Universal Journal

ACDOCA

"Accounting Document Actuals"

Multidimensional General Ledger



Multidimensional Reporting

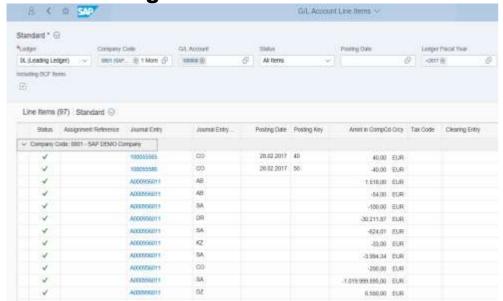
- All dimensions of ACDOCA are exposed in VDM views, which is the basis for reporting and processes
- There is **no limit** to 16 key fields, as it used to be for totals tables of ERP
- Drilldown to details of all subledgers is possible within one report or with seamless navigation to detailed subledger reports
- All reports based on the Universal Journal are reconciled by design

Analytical FIORI Apps Leverage the New Capabilities

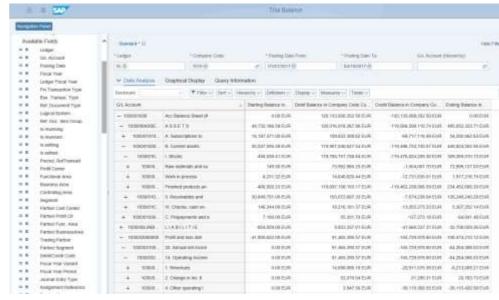
Many of your reporting requirements can now be fulfilled with a few flexible reports of SAP S/4HANA

- Powerful reporting apps can provide detailed answers to specific request on the fly
- No more need to predefine hundreds of specific reports on various data sources, just use variants of the flexible reports

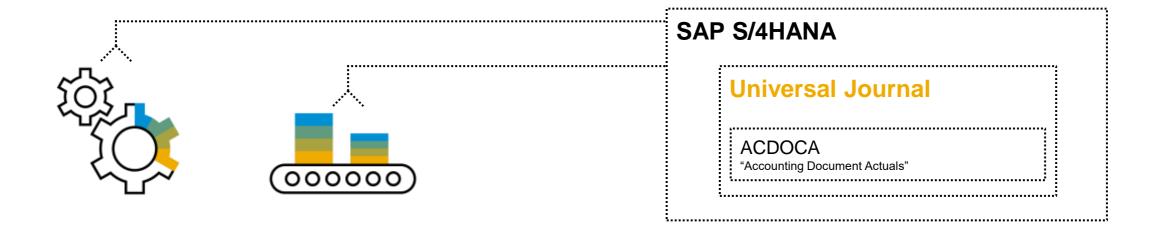




Trial Balance



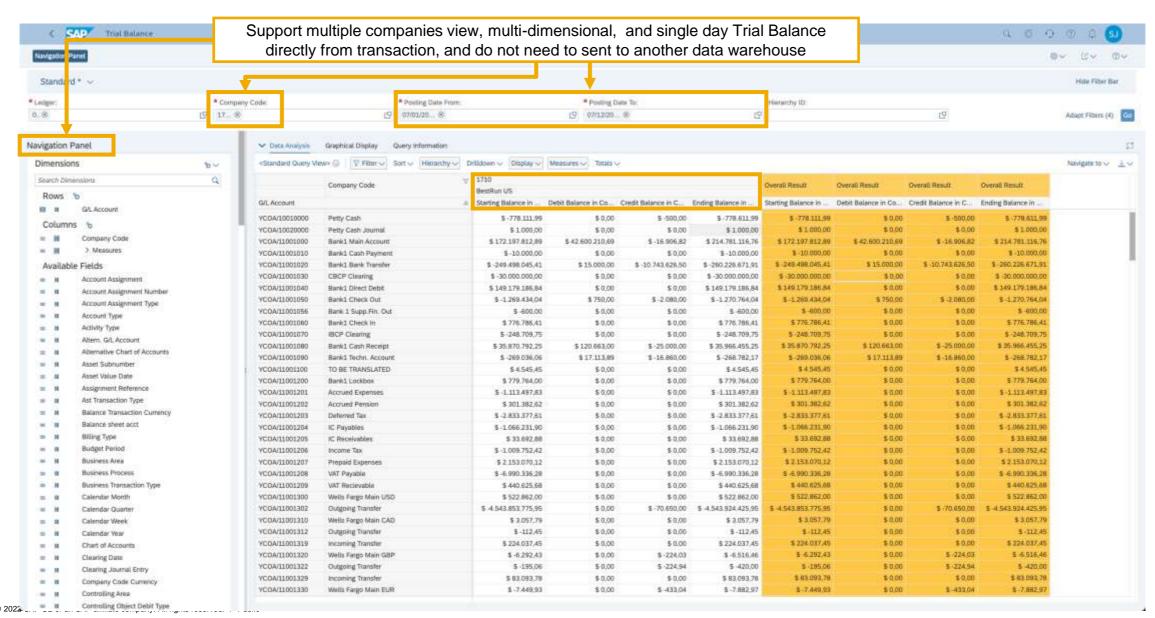
Big Data and the Universal Journal



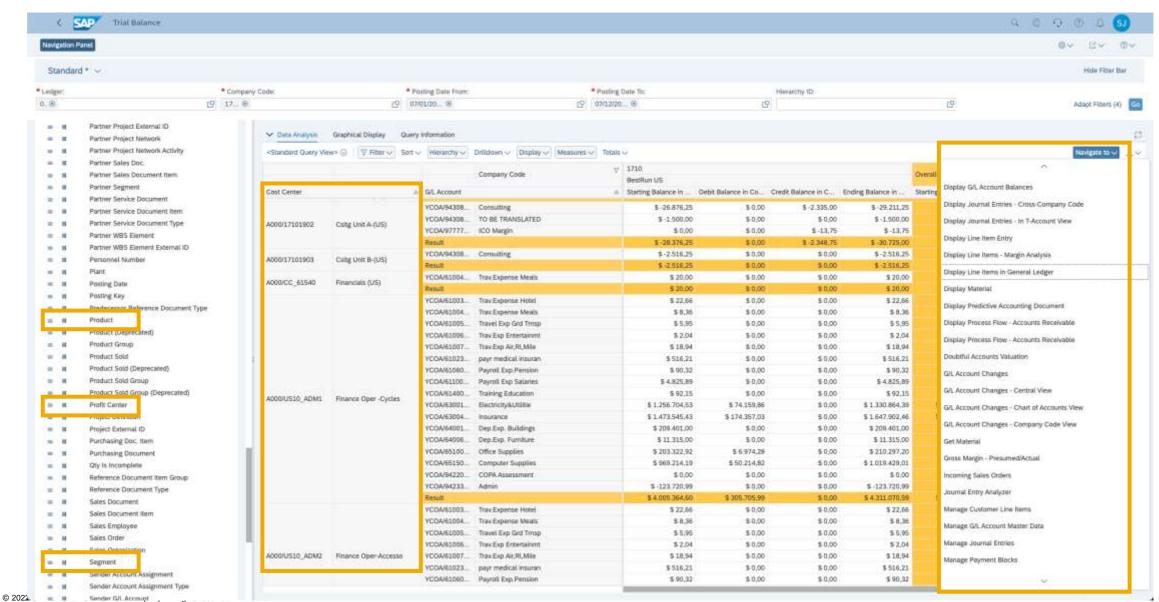
The Universal Journal is optimized for huge data volumes

- Industry trends like IOT with lots of sensor data will increase data volumes significantly in the future
- Overall this trend will lead to more accounting data as well
- Our purely line item-based architecture is optimized for high throughput with parallel processing of documents
- Pre-defined aggregates, which used to be a bottleneck for parallel processing, are no longer needed
- No expensive joins to other huge tables are necessary for standard analytics

Universal Journal dimensions available for slice and dice in Trial Balance



Universal Journal dimensions available for slice and dice in Trial Balance



High Speed, High Volume Multi-Dimensional Reporting



Standard * V

Trial Balance ▼



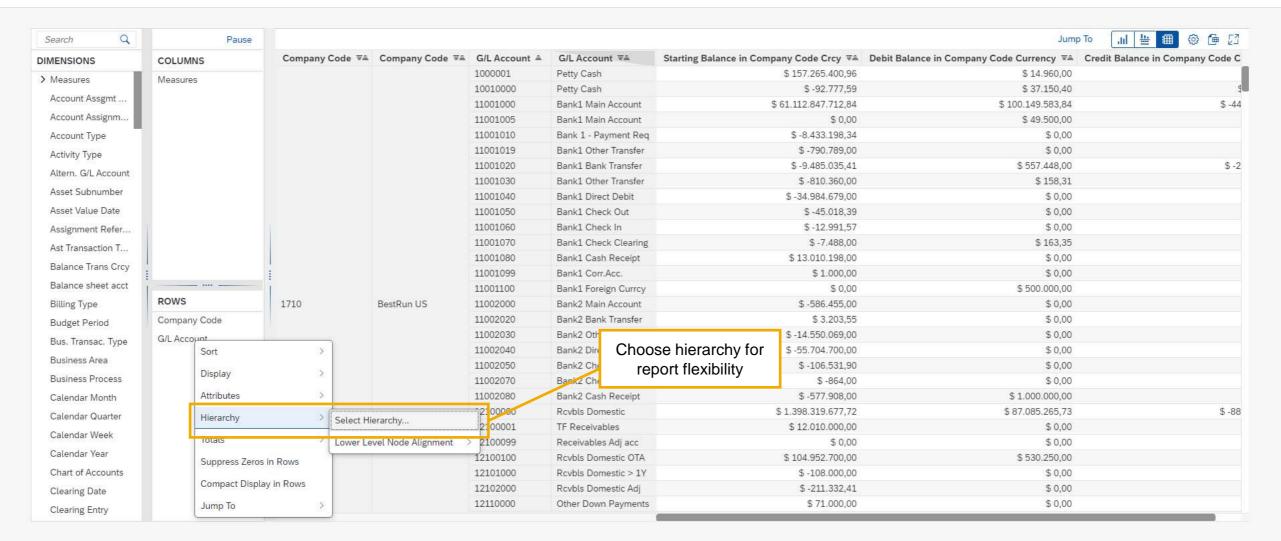


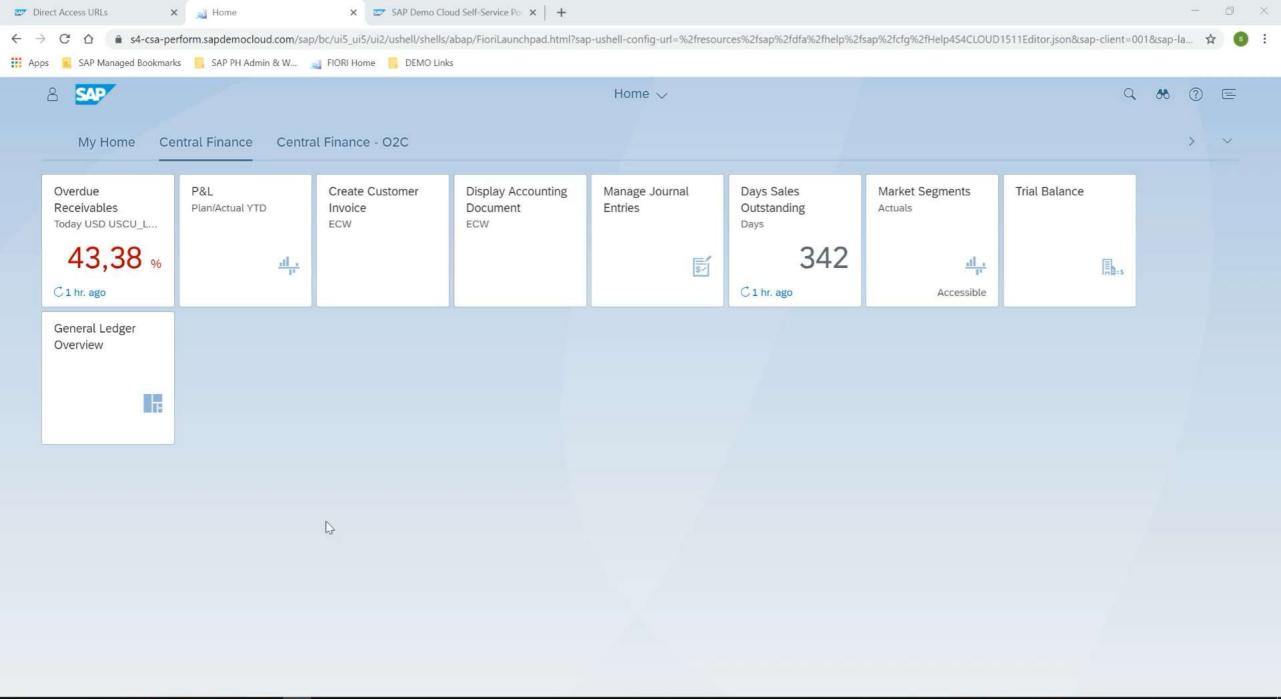












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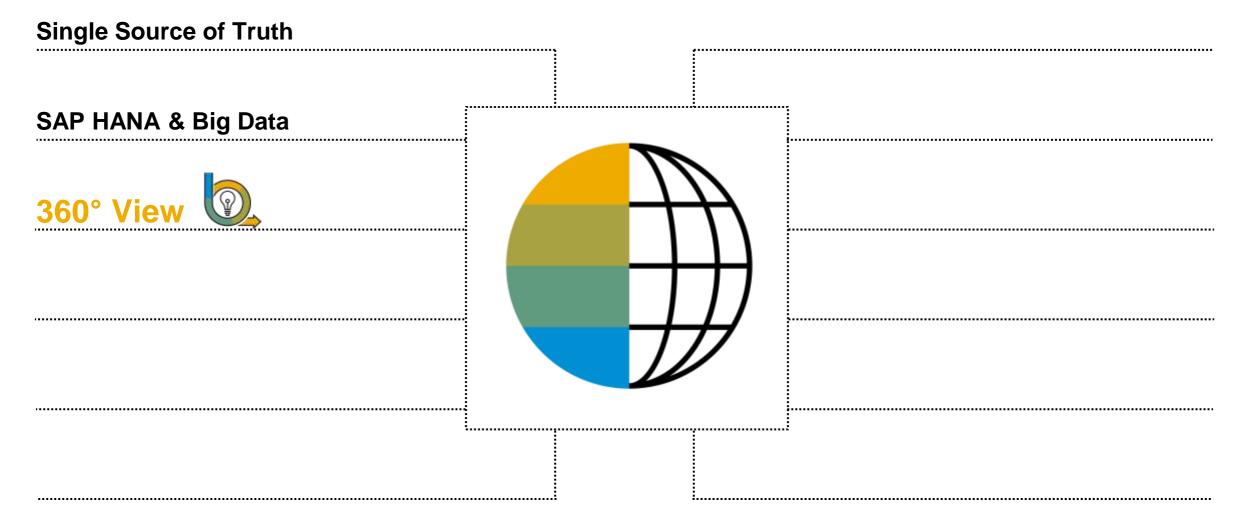




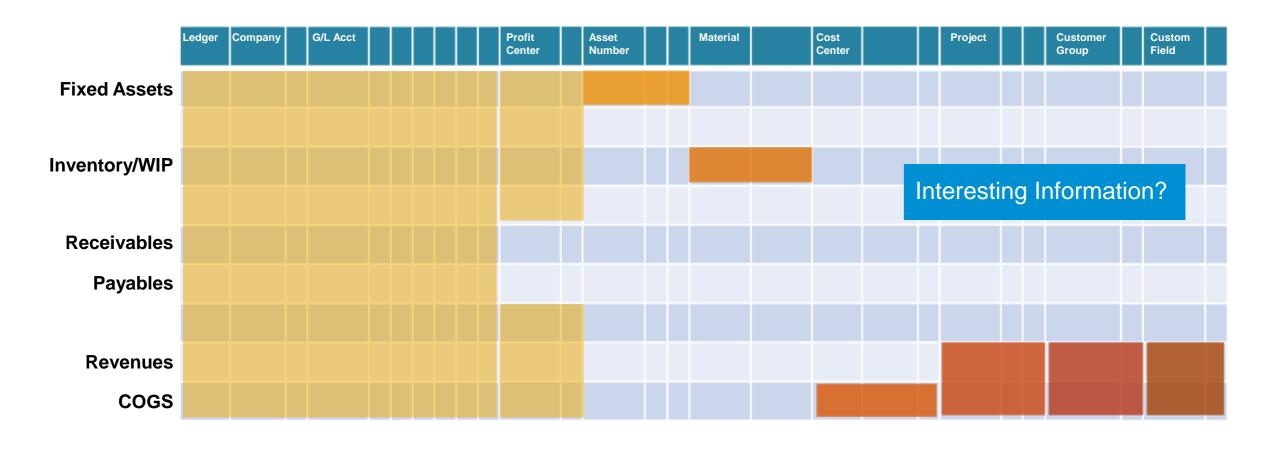




Key Characteristics of the Universal Journal



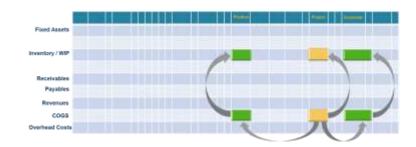
The Single Source of Truth: Towards Additional KPIs



Example for New KPIs: WIP by Market Segment for Professional Services

Based on the new "attribute" concept of the Universal Journal





Time confirmation

	G/L Account	Business Transaction	Reference Bus.Trans.	B/S or P/L	value	ACCASTY	Project	Cost Center	Profit Center	Sales Order	Product	Customer
1	Senior Cons	RKL	CATS	P/L	-100€	CC		CC1	PC1			
2	Senior Cons	RKL	CATS	P/L	100€	PR	WBS1		Solution1	SO1	Product1	Customer1

Revenue Recognition Document (directly triggered via the time confirmation event)

	G/L Account	Business Transaction	Reference Bus.Trans.	B/S or P/L	value	ACCASTY	Project	Cost Center	Profit Center	Sales Order	Product	Customer
1	Revenue adjustment	TBRR	CATS	P/L	-120€	PR	WBS1		Solution1	SO1	Product1	Customer1
2	WIP/ Unbilled revenue	TBRR	CATS	B/S	120€	PR	WBS1		Solution1	SO1	Product1	Customer1

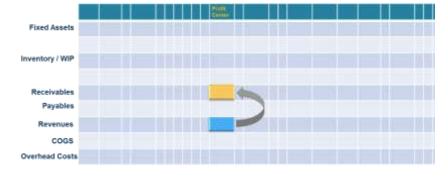
new business transaction type TBRR for eventbased RevRec

both documents refer to the CATS prima nota

ACCASTY defines the real account assignment

Document Splitting

Receivables	\$ 900		
Tax	\$ 100		
Revenues	\$ 200	Profit Center 1	
Revenues	\$ 200	Profit Center 2	
Revenues	\$ 400	Profit Center 3	



Document split transfers account assignments
to offsetting items according to their
proportions online during posting.

Receivables	\$ 225	Profit Center 1
Receivables	\$ 225	Profit Center 2
Receivables	\$ 450	Profit Center 3
Tax	\$ 25	Profit Center 1
Tax	\$ 25	Profit Center 2
Tax	\$ 50	Profit Center 3
Revenues	\$ 200	Profit Center 1
Revenues	\$ 200	Profit Center 2
Revenues	\$ 400	Profit Center 3

Flexible Hierarchies: Building hierarchies using attributes on the associated master data

Flexible Hierarchies: Process

View Current Master Data Attributes Update Attribute Values

Define Sequence of Hierarchy

Profit Center	Valid From	Valid To	Country	Segment	Lob	Product
1001	2013.01.01	9999.12.31	DE	SEG_01	FUEL	GASOLINE
1002	2016.01.01	9999.12.31	DE	SEG_01	FUEL	DIESEL
1003	2016.01.01	9999.12.31	DE	SEG_02	FUEL	DIESEL
1004	2016.01.01	9999.12.31	DE	SEG_02	LUBES	INDUSTRY
1005	2016.01.01	9999.12.31	CN	SEG_01	LUBES	MOTOR
1006	2016.01.01	9999.12.31	CN	SEG_01	LUBES	INDUSTRY
1007	2016.01.01	9999.12.31	US	SEG_01	FUEL	GASOLINE
1008	2016.01.01	9999.12.31	US	SEG_01	FUEL	DIESEL
1009	2016.01.01	9999.12.31	US	SEG_02	LUBES	MOTOR
1010	2016.01.01	9999.12.31	US	SEG_02	LUBES	INDUSTRY

Profit Center	Valid From	Valid To	Country	Segment	Lob	Product
1001	2013.01.01	9999.12.31	DE	SEG_01	FUEL	GASOLINE
1002	2016.01.01	9999.12.31	DE	SEG_01	FUEL	DIESEL
1003	2016.01.01	9999.12.31	DE	SEG_02	FUEL	DIESEL
1004	2016.01.01	9999.12.31	DE	SEG_02	FUEL	DIESEL
1005	2016.01.01	9999.12.31	CN	SEG_01	LUBES	MOTOR
1006	2016.01.01	9999.12.31	CN	SEG_01	LUBES	INDUSTRY
1007	2016.01.01	9999.12.31	US	SEG_01	FUEL	GASOLINE
1008	2016.01.01	9999.12.31	US	SEG_01	FUEL	DIESEL
1009	2016.01.01	9999.12.31	US	SEG_02	LUBES	MOTOR
1010	2016.01.01	9999.12.31	US	SEG 02	LUBES	INDUSTRY

Profit Center	Valid From	Valid To	Country	Segment	Lob	Product
1001	2013.01.01	9999.12.31	DE	SEG_01	FUEL	GASOLINE
1002	2016.01.01	9999.12.31	DE	SEG_01	FUEL	DIESEL
1003	2016.01.01	9999.12.31	DE	SEG_02	FUEL	DIESEL
1004	2016.01.01	9999.12.31	DE	SEG_02	LUBES	INDUSTRY
1005	2016.01.01	9999.12.31	CN	SEG_01	LUBES	MOTOR
1006	2016.01.01	9999.12.31	CN	SEG_01	LUBES	INDUSTRY
1007	2016.01.01	9999.12.31	US	SEG_01	FUEL	GASOLINE
1008	2016.01.01	9999.12.31	US	SEG_01	FUEL	DIESEL
1009	2016.01.01	9999.12.31	US	SEG_02	LUBES	MOTOR
1010	2016.01.01	9999.12.31	US	SEG_02	LUBES	INDUSTRY

Maintain Profit Center attributes

				ragging	
Profit Center	Country	LoB	Product Line	Reporting Group	Continent
1001	US	FUEL	GASOLINE	Americas	North America
1002	DE	FUEL	DIESEL	EMEA	Europe
1003	DE	FUEL	DIESEL	EMEA	Europe
1004	DE	LUBES	INDUSTRY	EMEA	Europe
1005	FR	LUBES	MOTOR	EMEA	Europe
1006	AT	LUBES	INDUSTRY	EMEA	Africa
1007	CN	FUEL	GASOLINE	APJ	Great China
1008	HK	FUEL	DIESEL	APJ	Great China
1009	CN	LUBES	MOTOR	APJ	Great China
1010	JP	LUBES	INDUSTRY	APJ	Japan
1011	US	GAS	LPG	Americas	North America
1012	DE	GAS	LPG	EMEA	Europe
1013	DE	GAS	CNG	EMEA	Europe
1014	CN	GAS	LPG	APJ	Great China



- CONSTRUCTOR

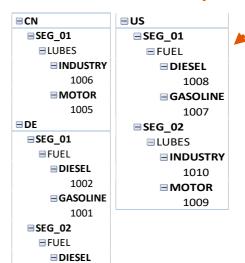
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4 DESIGNATION

Hierarchy Report Based on Geo Level

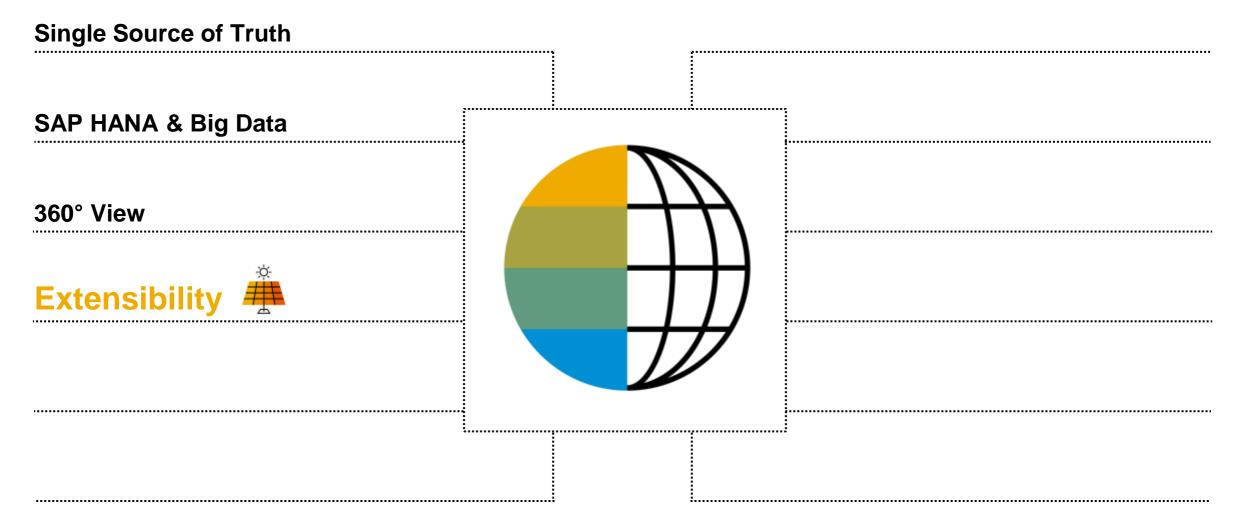
Artiset A CC Ora 2010/05/2005 17 61/6 Hierarchy 2010/07/27 24 61/09 2.880 00 678 Report 1.000 00 21/0 Based on seinnin 600 do EUR Line of CHIEF STEER **Business** WARDING THE COST 6.111.13 (1.01) 1.790,007,000.04

Generate Hierarchy

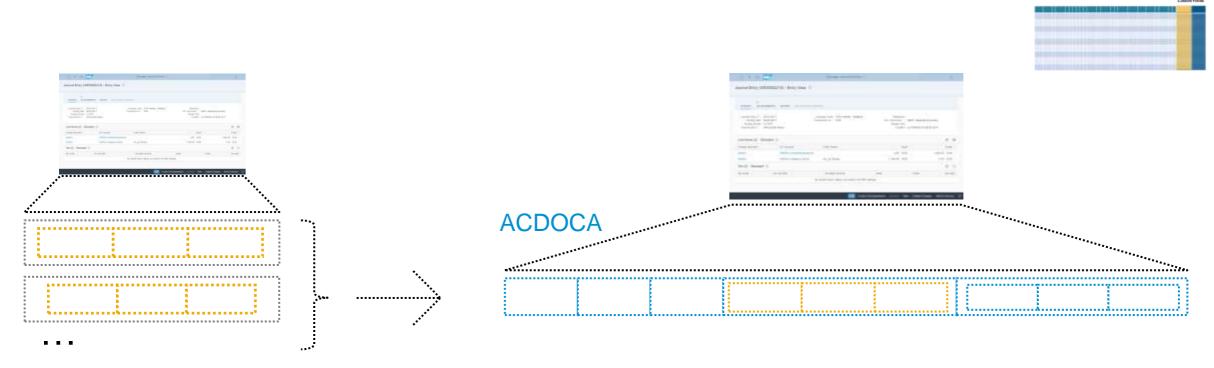


1003

1004



Extensibility of the Universal Journal: 2 Flavors



Coding Block Extension

- Used for fields, which are filled by users during document entry (e.g. supplier invoice, FB01, ...)
- Process integration transports the field to the Universal Journal

Inside ACDOCA Extension

- Ideal for fields derived from other fields of ACDOCA or from master data
- Large number of ACDOCA extension fields is possible

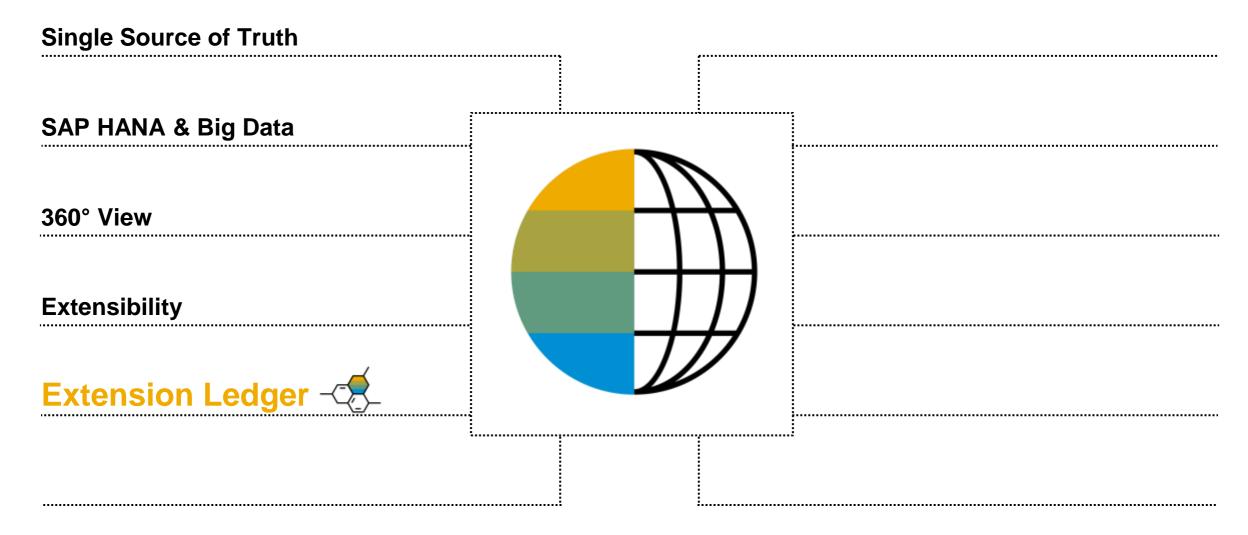
Extensibility of the Universal Journal





Benefit of line item-based SAP S/4HANA architecture without totals tables

- In SAP Business Suite/ERP reporting and functionality was based on totals tables with the limitation to 16 key fields
- Often several FI-SL ledger were installed, containing different sets of extension fields
- With the line item-based architecture in SAP S/4HANA all extension fields can be put to the central line item table ACDOCA
- Our new reporting and many processes can use arbitrary combination of standard and extension fields



Extension Ledger: Use Case Management View

ERP

Legal Ledger

Management Ledger

- Same legal data (95 %)
- Few adjustments (5%)
- High data redundancy

SAP S/4HANA

Standard & Extension Ledger on top

- Separation of management data from legal data
- No data redundancy

Special Ledger
General Ledger

Legal Ledger Standard Ledger

Management Ledger

Extension Ledger: Basic Principle

Write Access

from Standard Ledger from Extension Ledger

Read Access



Extension Ledger

Characteristics

- Inherits currency settings and fiscal year variant of underlying ledger.
- Separate company code assignment (subset of underlying ledger)
- Separate open period variant
- Authorization on ledger level

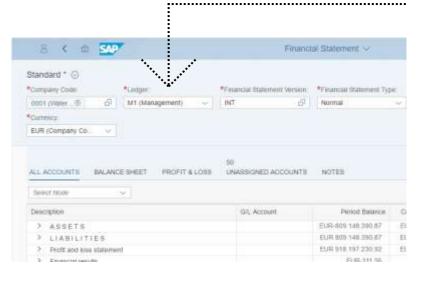
Transaction supported in extension ledgers in SAP S/4HANA 1610:

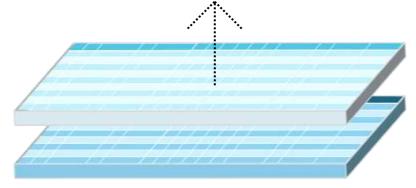
- Manual postings (FIORI Apps or tx FB01L, FBB1, KB11, KB41)
- Foreign currency valuation
- GL allocations

Reporting

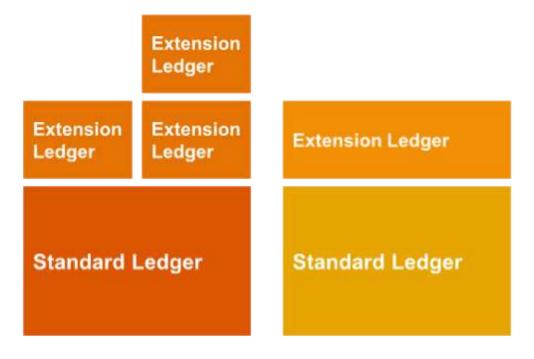
- All reports with parameter "ledger" support also extension ledgers
- VDM Model provides views supporting the inheritance logic of extension ledgers

Standard or Extension Ledger

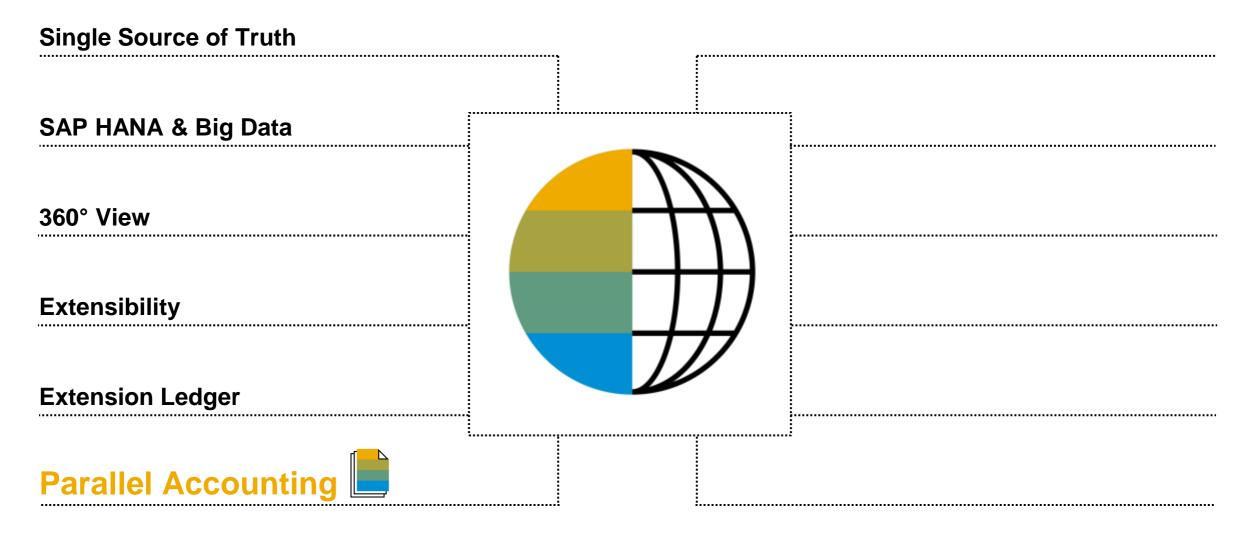




Combining Extension Ledgers



- You can use several extension ledgers for various purposes
- Each extension ledger knows its underlying ledger
- Setting up a new extension ledger is simple (one configuration entry!), it inherits the data of the underlying ledger
- Stacking of extension ledgers is available with a pilot note
- Ledger groups must not contain an extension ledger and one of its underlying ledgers



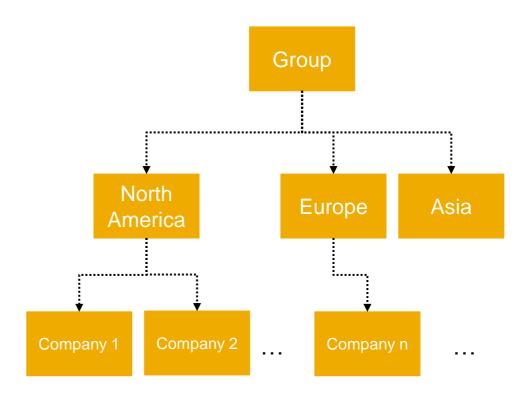
Parallel Accounting

Use Cases

- Group reporting (e.g. IFRS)
- Local close (e.g. US-GAAP, French GAAP, HGB, ...)
- Separate ledger for tax
- Deviation fiscal year, ...

Approach for Parallel Accounting in ERP

- Parallel GL Accounts
- Parallel NewGL Ledgers



Recommended Approach in SAP S/4HANA for Parallel Accounting

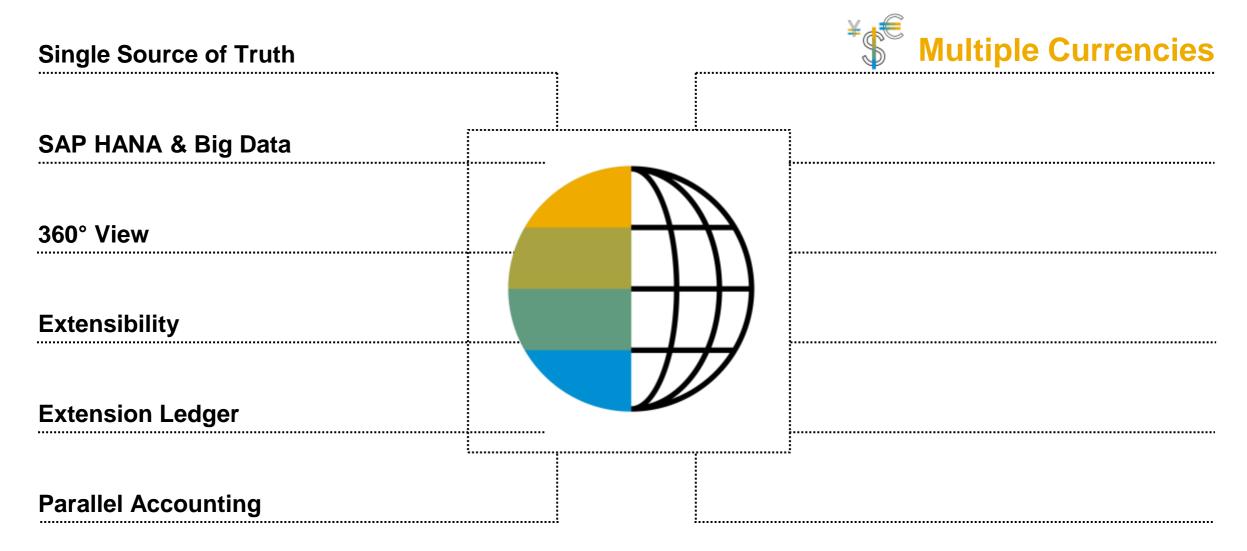


Recommendation:

Use Ledger Approach for Parallel Accounting

- Ledger in GL and Fixed Asset Accounting
- CO / ML: update parallel ledgers with identical values or

with COGM solution you can make parallel cost of goods manufactured postings to separate ledgers



Available Currencies in ERP

In ERP we used to have

- 3 local currencies in FI (including NewGL)
- 2 currencies in CO
- 3 currencies in Material Ledger

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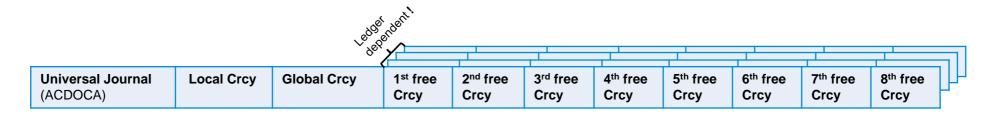
- Currency conversion not consistent for FI / CO
- Limited number of currencies available in ERP Reporting not fulfilling all requirements in parallel:
 - Local close in local currency, group reporting, regional subgroup reporting, hard currency, specific functional currency in some industries, reporting with alternative exchange rates, ...
- Using several controlling areas with different currencies leads to loss of a group view in a common currency
- Especially in transfer price scenarios lack of parallel currencies
- Flexible currency handling often implemented separately in SAP BW (high effort, inaccurate, reconciliation,...) or in FI-SL (different conversion settings,...)

FI (BSEG)	local Crcy	2 nd local Crcy	3 rd local Crcy
CO (COEP)	local (Obj) Crcy	CO Area Crcy	
ML	local Crcy	2 nd ML Crcy	3 rd ML Crcy

More Currency Flexibility: The Universal Journal with SAP S/4HANA

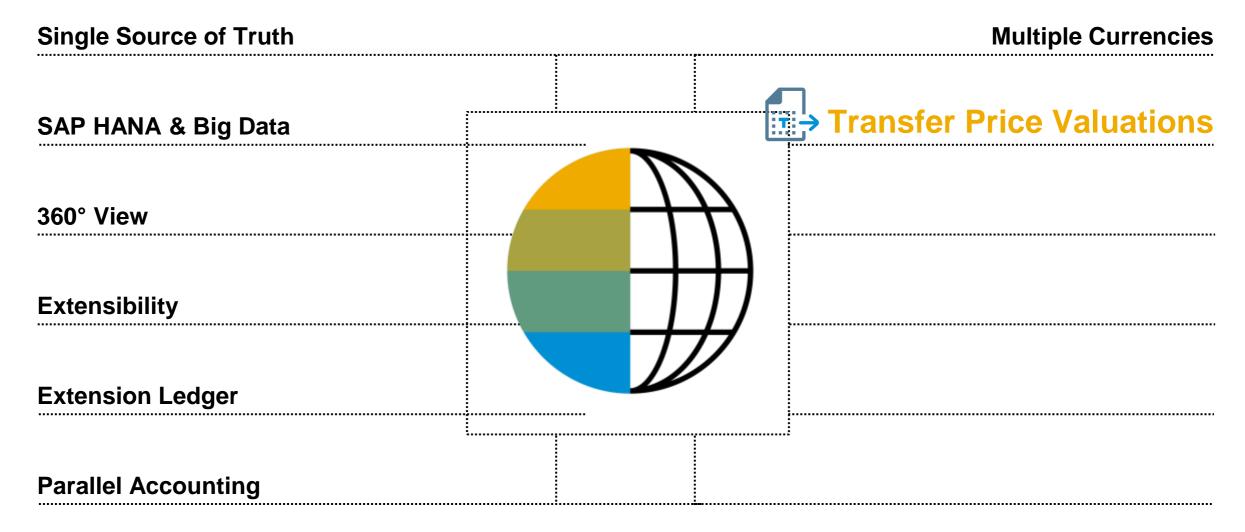
The Universal Journal supports additional new parallel currencies

- Per company code and ledger you can configure up to 8 freely defined currencies in addition to local and global currencies.
- Freely defined currencies for parallel G/L ledgers do not depend on leading ledger, you can configure the freely defined currencies in each ledger independently.



**New currencies are available as of SAP S/4HANA Finance 1605 and SAP S/4HANA 1610

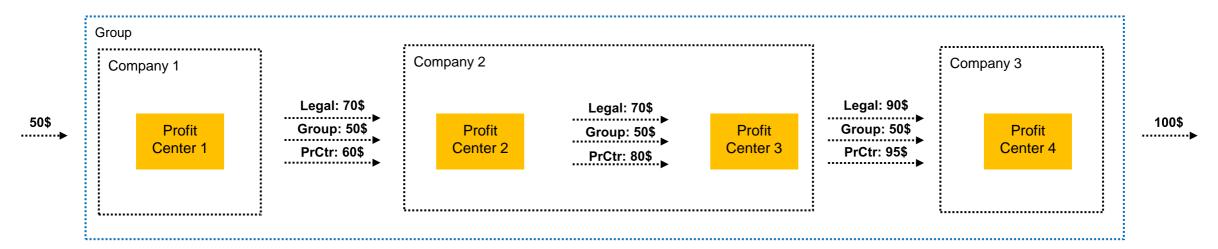
- Real-time currency conversion with actual exchange rate and balance zero per document for all currencies and processes!
 - Some business processes require currency conversion with historic exchange rates:
 - This is available for Open Item Management, Reversals, CO and GL Allocations, Foreign Currency Valuation, Regrouping
 - Planned for future releases for CO Settlement Reposting, Fixed Assets and Material Ledger
 - Real-time currency conversion with actual exchange rate is a fallback for those cases and will be sufficient in many cases!



Parallel Transfer Price Valuation Views & Elimination of Intercompany Markups

Management decisions in large companies are based on group profitability figures and not on figures of the individual entity. Intercompany effects along the operative value chain need to be eliminated and the respective data needs to be stored for analytical purposes.

As a consequence, we enhance the local (legal) transfer price view with views of alternative prices for a product value chain:



- Legal valuation looks at the business transactions from the point of view of the affiliated companies including legal markups
- Group valuation looks at the whole group eliminating intercompany markups
- Profit center valuation treats profit centers as if they were independent companies using e.g. negotiated prices

Parallel Transfer Price Valuation Views in ERP

Parallel Transfer Price Valuations were available in ERP since Release 4.0, but with quite some shortcomings:

- High complexity due to heterogeneous treatment of parallel valuations
 - GL uses currency fields (2nd and 3rd currency) to store parallel valuations.
 - CO uses parallel versions for actual date where the version 0 contains a full value and the parallel actual versions contain the delta compared to version 0
 - Material Ledger uses currency types
 - Fixed Asset Accounting uses different depreciation areas
 - FI-SL uses Ledgers
- Delta logic in CO was hard to understand
- Insufficient currency flexibility, i.e. activating transfer pricing eliminated the possibility to have parallel currencies in FI (needed for legal reasons).

The complexity of the given ERP solution forced many customers to implement their own solution, e.g. with SAP BI

Parallel Transfer Price Valuation Views in SAP S/4HANA

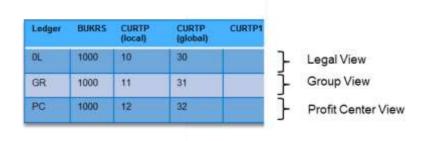
Unified architecture for parallel valuations in the Universal Journal We provide 2 general options, which you also can combine:

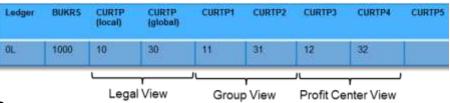
Parallel valuations updated in *parallel single-valuation ledgers*

- Use separate ledger for each valuation
- transparent separation of postings and reporting of financial results based on the various regulations

Parallel valuations updated in a *multi-valuation ledger*

- use separate amount columns in the same ledger
- reduces memory footprint
- reduces effort and time for closing activities
- default for migration from Business Suite with parallel transfer price valuations



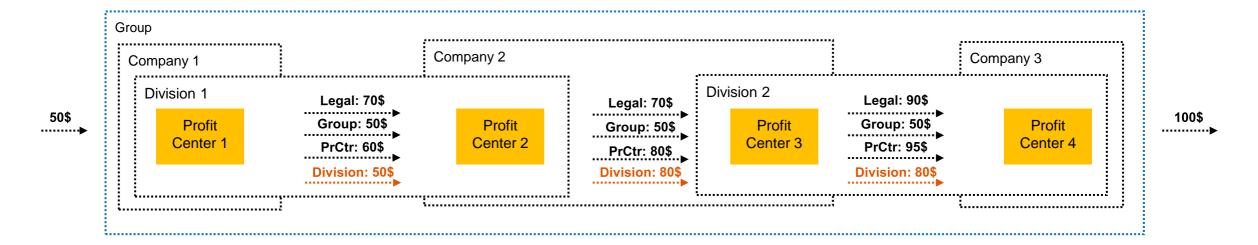


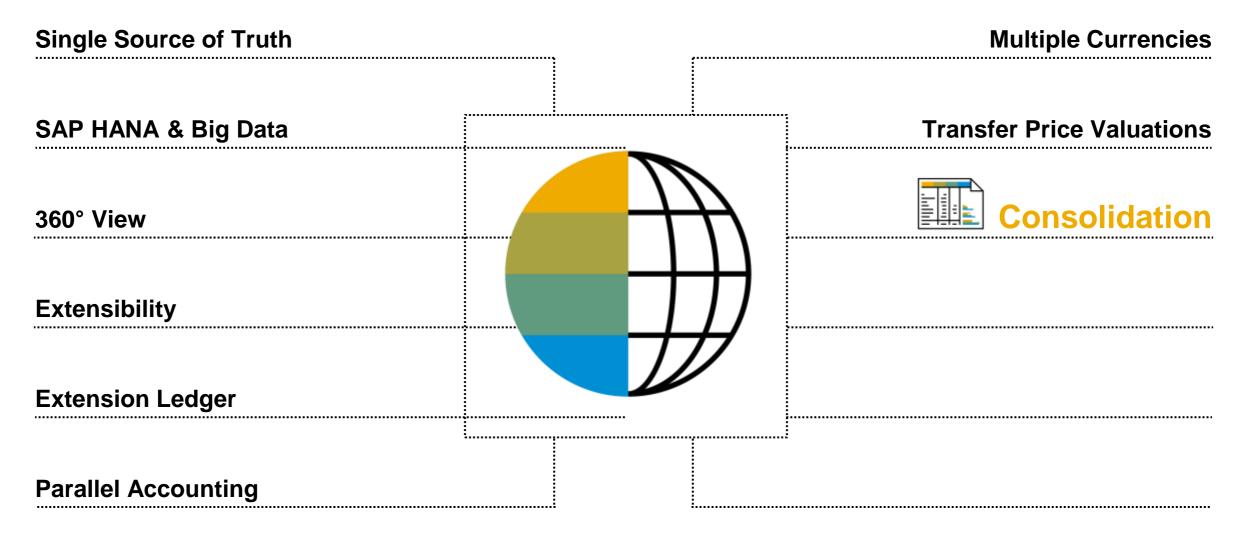
Parallel Transfer Price Valuation Views - Outlook



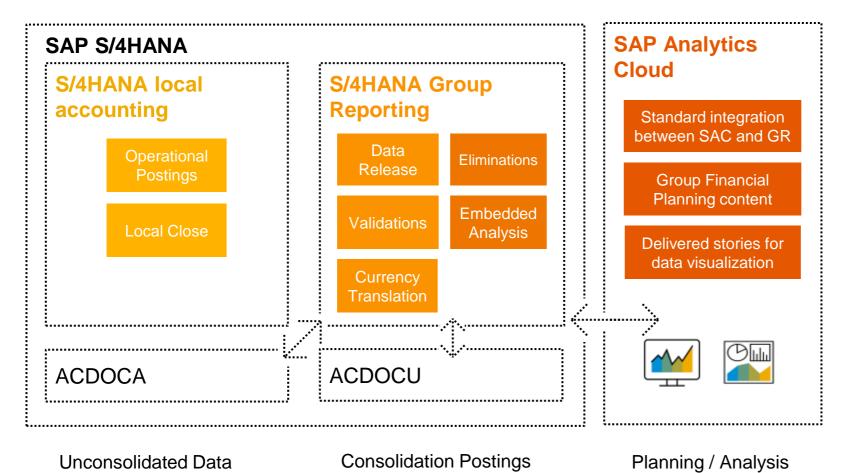
We are currently discussing possible enhancements to the concept of parallel valuations

- Real time elimination of markups in material movements as basis for legal consolidation
- More flexible definition of valuation views, e.g. for additional levels below group, such as divisions, ...
- Transparent controlling of parts of the group with consolidated profitability for that level





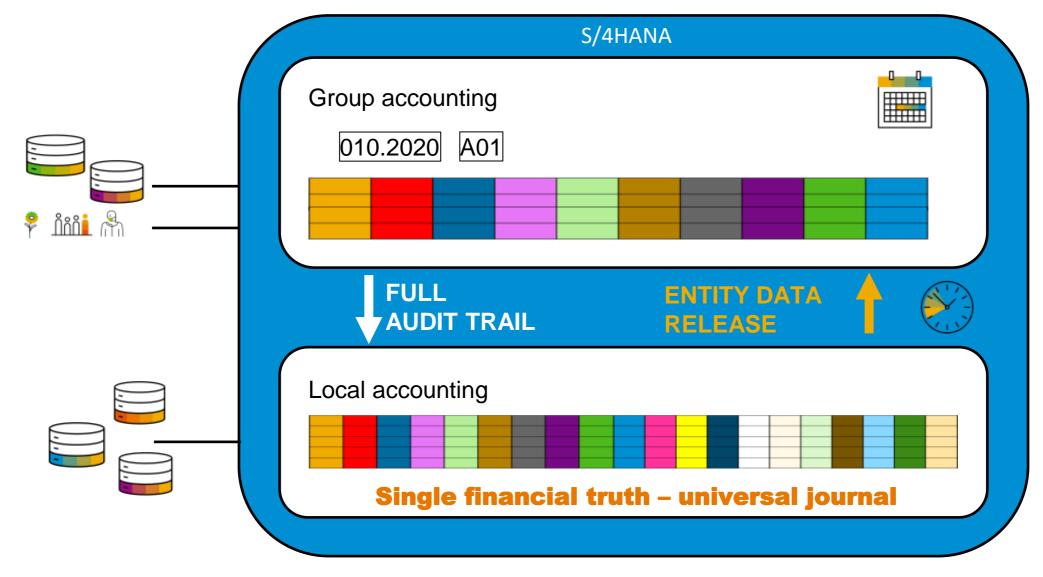
Universal Journal and Consolidation



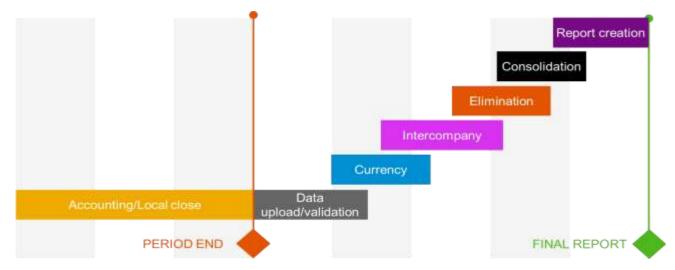
Consolidation

- One data model across local and group close
- No ETL importing data into consolidation
- Audit trail from consolidated statement to underlying operational transactions
- End-to-end Best Practice content
- IC reconciliation to elimination across local and group close
- Full integration with SAC planning and analysis

Integrated harmonized data



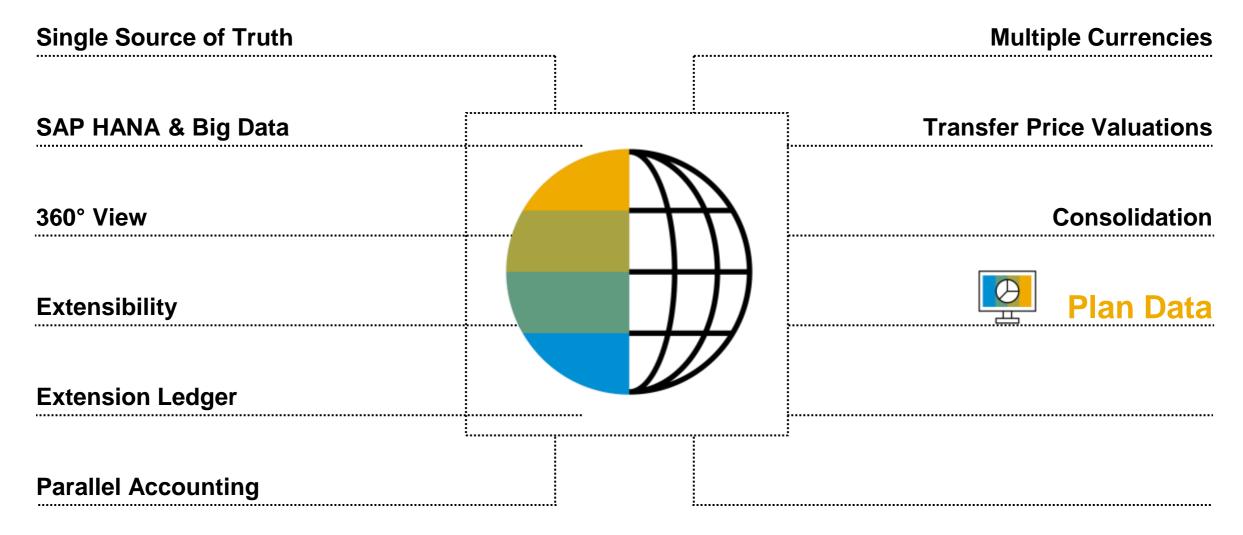
Redefining financial close



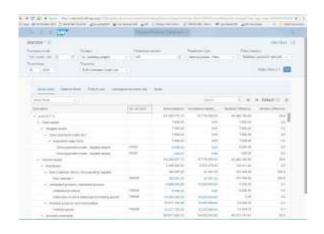
Close timeline – past

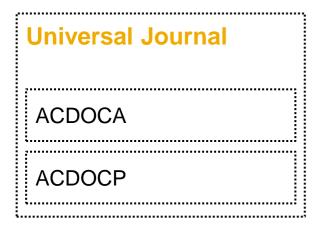


Close timeline – proposed



Plan Data in the Universal Journal



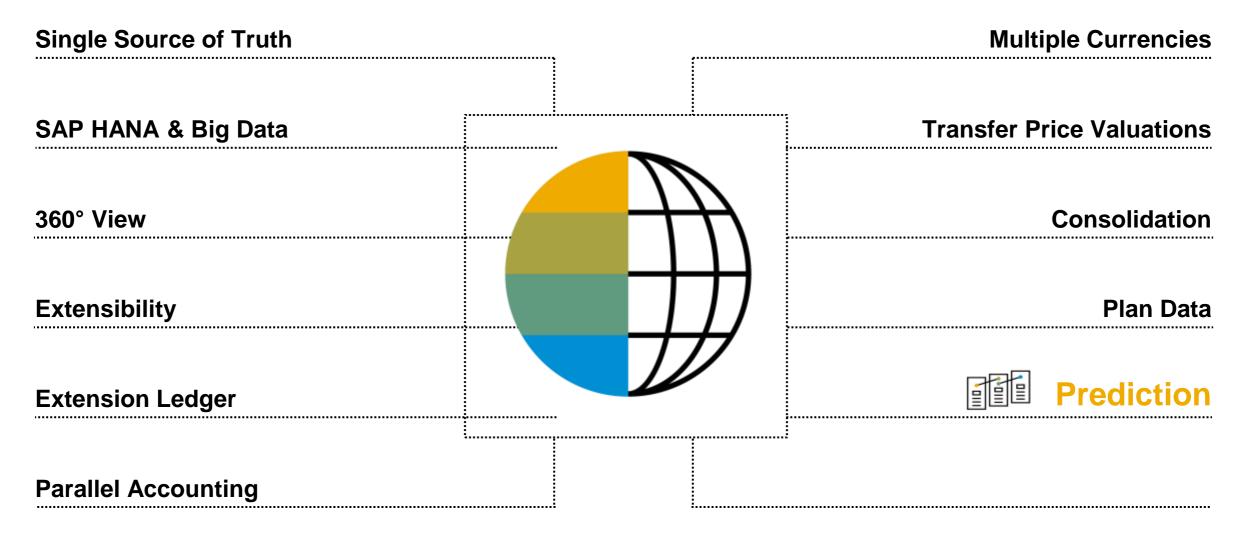


Strategic direction

- One single persistence for plan data in the Universal Journal as well.
- Table ACDOCP fitting perfectly to ACDOCA: Easy plan/actual comparison based on same fields and structure.

Status

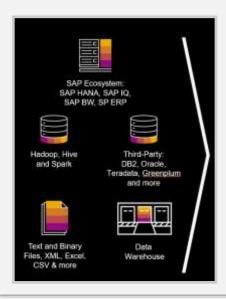
- BPC as planning application for periodical planning in SAP S/4HANA (on premise). With release 1610, availability of ACDOCP as plan persistence (alternative to cube).
- SAP Analytics Cloud (SAC) for planning as planning application for periodical planning in SAP S/4HANA Cloud with ACDOCP as sole persistence. First version in 1702 (customer extensibility scenario).
- On the roadmap we plan to enhance other native planning capabilities directly on ACDOCP (e.g. plan allocations).



Predictive Analytics vs. Predictive Accounting

TOP-DOWN Prediction

Predictive Analytics data mining (time series, classification, regression, clustering) on aggregated historic data







BOTTOM-UP Prediction

Predictive Accounting based on predicted financial documents resulting from a simulation of individual business processes and their document flow









Selected characteristics of Predictive Analytics and Predictive Accounting

TOP-DOWN Prediction

Predictive Analytics

- Short-, mid-, long-term forecast
- Complete prediction scope
- Case-by-case prediction of KPIs
- No explanation of prediction results
- □ Results with targeted but limited business semantics
- Limited re-use of prediction results in follow-on processes of Financials

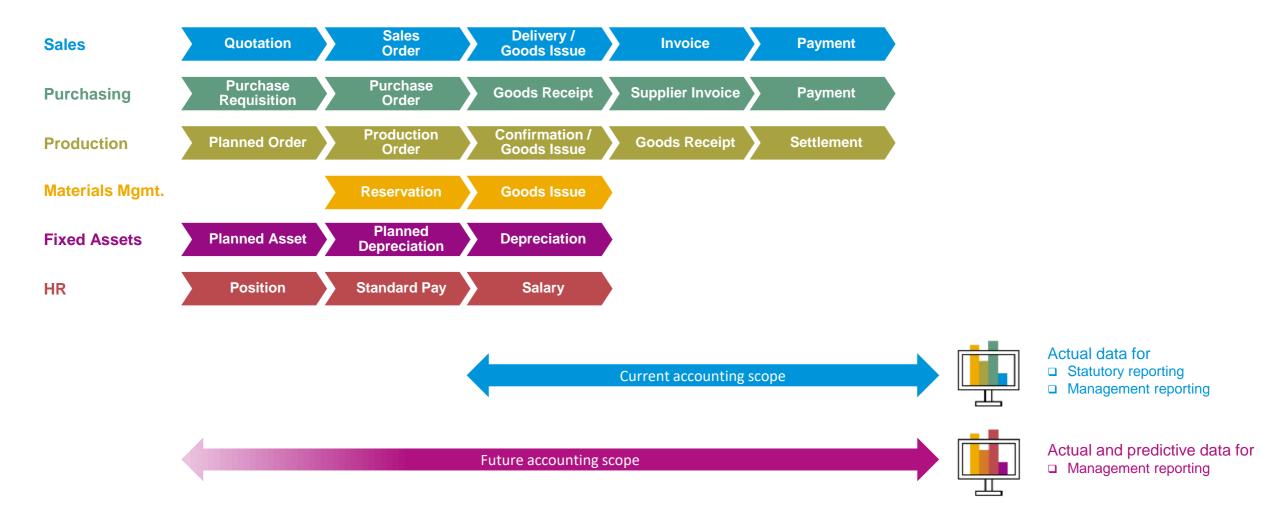
BOTTOM-UP Prediction

Predictive Accounting

- □ Short-term forecast
- Prediction scope based on available process anchors
- Generic prediction of any financial KPI
- Prediction results with audit trail details
- Results with full business semantics of Financial Accounting
- Full re-use of prediction results in follow-on processes of Financials

Predictive Accounting

Extending the reach of Accounting







- □ All KPIs based on journal entries as single source
- □ Fully consistent set of key figures
- □ Actuals and prediction data in joint KPIs
- Reuse of data processing and analytics from actuals
- □ Audit proof explanation of reported results
- Extend the traditional reach of accounting beyond GAAPs

Extension Ledger for Prediction

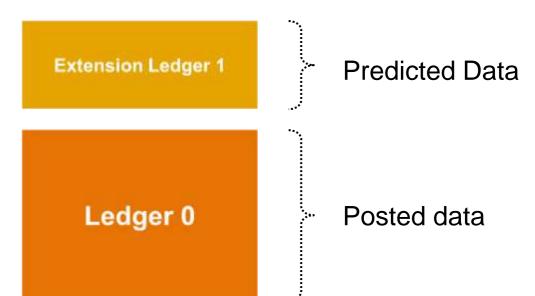


Other Use Case for Extension Ledgers:

- Predicted data
 - Enrich actual data by forecasts

Reporting

- Use extension ledger principle to mix actual data with predicted and/or simulated data
- All reports with ledger as parameter are enabled to show mixed data



Analytical List Page - Content Visualization Section

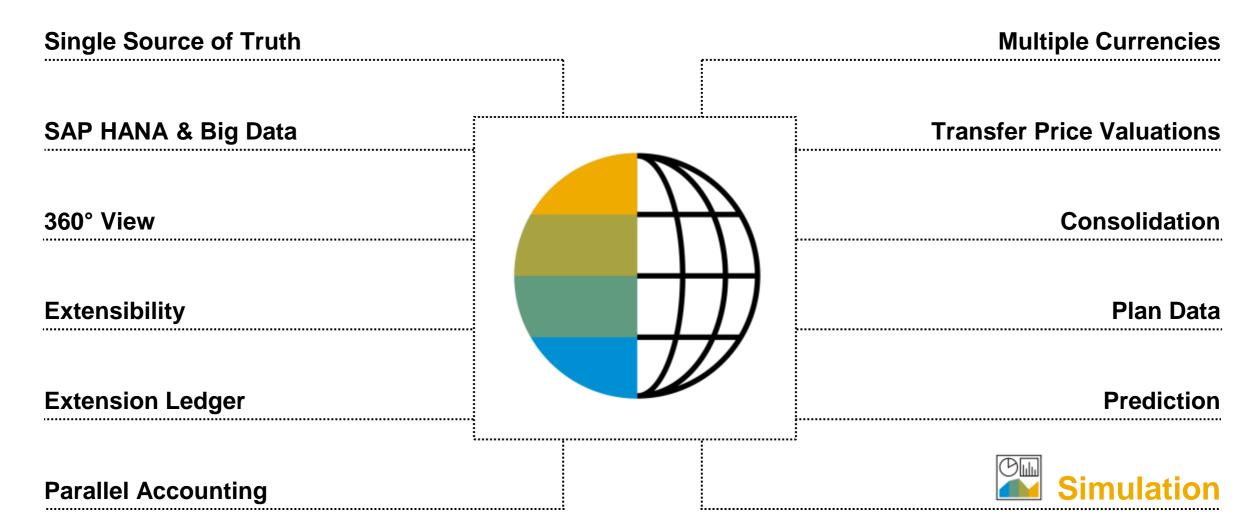


Incoming Orders in M USD (1,354 Items)
All Journal Entries / Current Period, USA





Key Characteristics of the Universal Journal



Simulation & Prediction



Other Use Case for Extension Ledgers:

- Simulated data
 - See result of test runs of period end close activities
 - Delete and redo simulations
- Predicted data
 - Enrich actual data by forecasts

Reporting

- Use extension ledger principle to mix actual data with predicted and/or simulated data
- All reports with ledger as parameter are enabled to show mixed data

Extension Ledger 2 Simulated Data

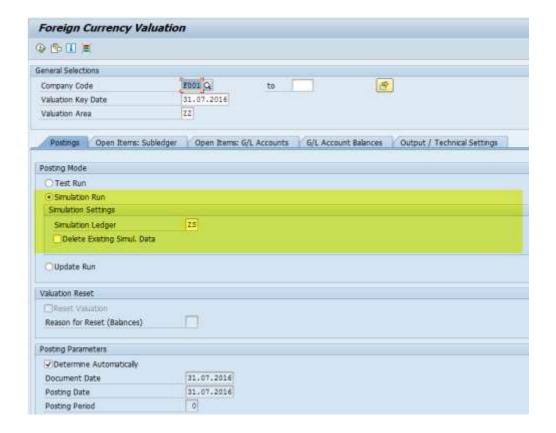
Extension Ledger 1 Predicted Data

Ledger 0 Posted data

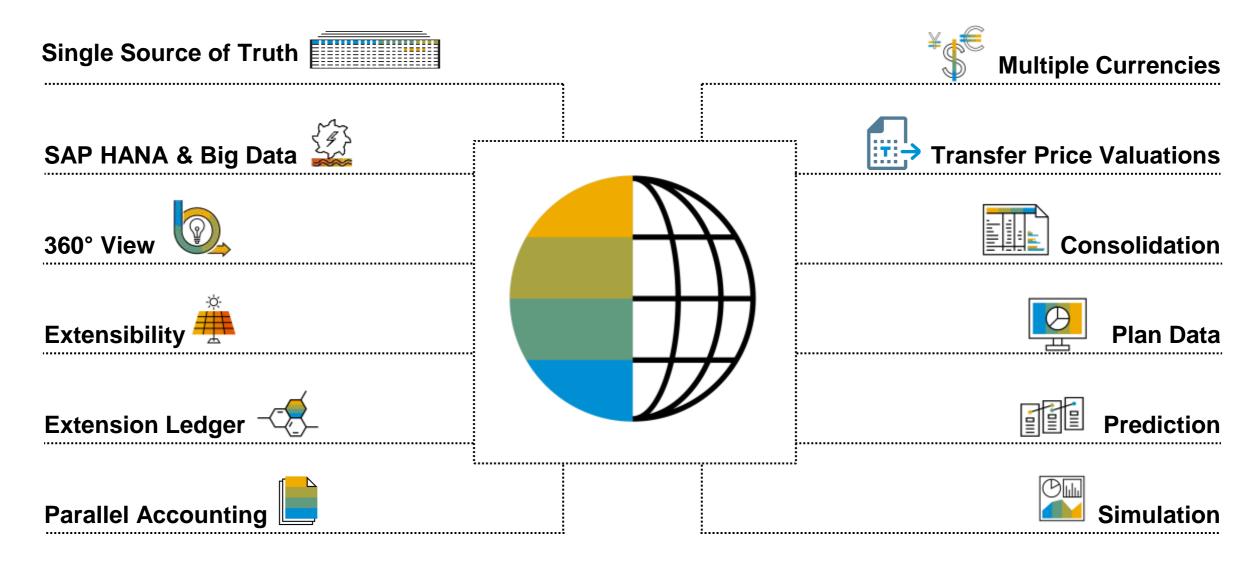
Foreign Currency Simulation

New features – Simulation mode

- You can run the Foreign Currency valuation either in test run, simulation run or update run
- The simulation run generates valuation posting documents into the simulation ledger.
- Reporting on simulation ledger combines simulation data with actual data of underlying ledger. You can see the simulated data on all reports for which you can specify a ledger.
- You can delete simulation data, if you want to rerun the simulation.
- Update run will also delete simulation data, in order to avoid duplication of data in reporting for the simulation ledger.



Ongoing Innovation of the Universal Journal



The Perfect Financial and Management Accounting System

Don't you dream of a reporting solution, that ...

- comprises actual data, plan data, simulated data, and prediction data √
- presents data in a common structure making comparison easier
- provides all required currencies
- contains all details
- presents a 360° view on objects of interest (P&L + Balance Sheet KPI's) ✓
- shows the unconsolidated and consolidated views in real time (ad hoc group reporting)



- is up to date at every point in time
- gives a full audit trail
- is based on a single source of truth: fully reconciled by architecture
- is set up without data redundancy
- fulfills legal requirements from a local and a group perspective

 ✓
- is the basis for management reporting at every needed granularity
- can be enhanced / extended easily



Agenda

- Why Universal Journal ?
- What's it all about ?
- How do we get there?



Move to SAP S/4HANA Cloud which enables Office of CFO



Business steering by any dimension



Instant ad hoc analytics



New business models with holistic revenue management

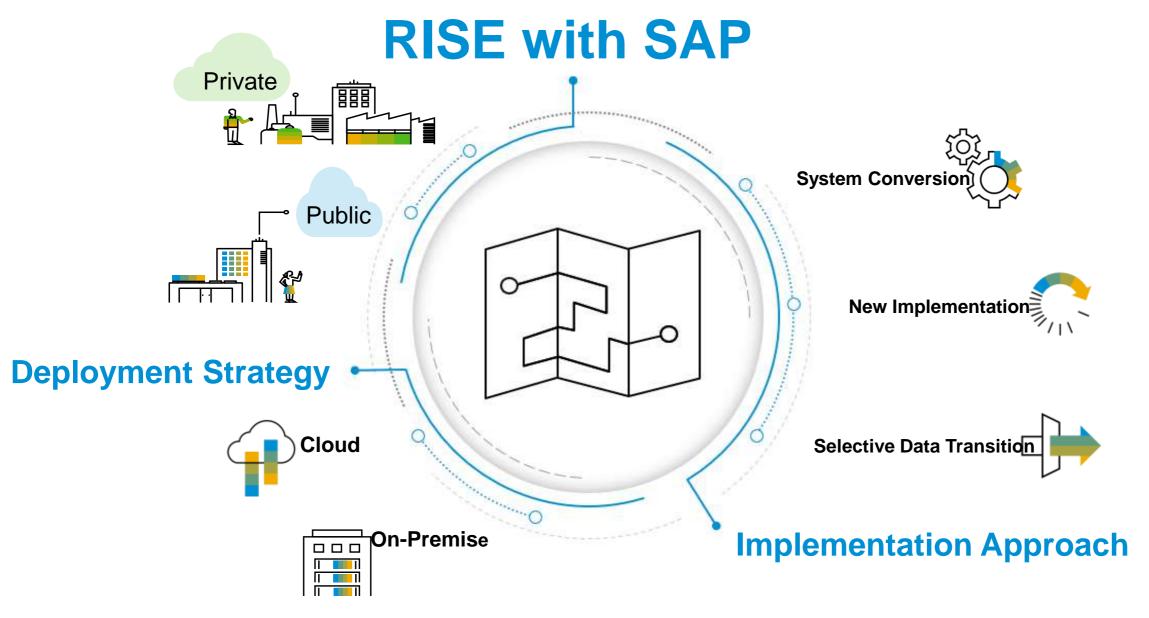


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Plan the path forward



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77%

of the world's transaction revenue touches an SAP system in over 180 countries

94%

of the world's 500 largest companies are SAP customers

85 of the 100

largest companies in the world are SAP S/4HANA customers ~80%

of SAP's customers are mid-size enterprises

22,500+

partner in SAP ecosystem across 140 countries



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