Auritas | SAP Gold Partner

Driving Innovation, Empowering Transformation.

Vertex Solutions for SAP

Auritas

Driving Innovation, Empowering Transformations.

1,500 Successful Projects	**10,500+** TB of Data Managed	**22+** Years Evolving Companies	**$1,5B** Total Customer Savings

Data Management

- SAP Data Archiving
- SAP DaRT
- Data Quality & Governance
- Data Migration
- System Decommissioning
- Data Privacy

Solution implementation

- S/4HANA Implementation
- SAP Business Data Cloud (BDC)
- SAP BTP Deployment
- SAP OpenText
  - Extended ECM
  - Vendor Invoice Management
  - Doc Presentment
- SAP Spend Management
- SAP Vistex
- SAP Vertex
- AI Implementation
- Cloud Migrations

Product & Innovations

- Data ASSIST by Auritas
  (Data Archiving Automation)
- Data GUARD by Auritas
  (Legacy Decommissioning)
- Auritas Intelligent Accrual
  (Financial Automation)

AuriCare
(AMS + Hypercare)

Strategic Partnerships

- SAP Gold Partner
- SAP PartnerEdge, Sell
- CCFlex – Cloud Choice Flex

SAP Gold Partner • opentext
SAP PartnerEdge® • Azure
SAP CCFlex • aws
Google Cloud Partner
VERTEX

Customer Success

Auritas

Services Across Multiple Industries – Verticals:

Automotive | Utilities | Financial Services | Chemicals | Customer Products | Defense & Aerospace | Engineering & Construction | Life Sciences & Healthcare | High Tech | Manufacturing & Distribution | Oil & Gas Mining | Retail

Auritas is a certified partner, experienced in delivering Vertex solutions within the SAP ecosystem.

Global Indirect Tax Solutions Across the SAP Ecosystem

Auritas

Customer Experience

SAP Commerce Cloud

Intelligent Spend

SAP Concur Invoice

SAP Ariba

VERTEX

SAP ERP

SAP ECC

SAP S/4HANA

SAP S/4HANA Private Cloud

SAP S/4HANA Public Cloud

SAP Business ByDesign

= Available on **SAP Store**

Expanded Vertex Portfolio for SAP ECC & S/4HANA

Auritas

- Vertex Accelerators and PLUS tools are deployed by overm500 SAP customers

- Receive greater indirect tax visibility, insight, flexibility and function across all transactions

- Enjoy rapid installation, activation and configuration

- Replace RICEF ➡ Custom ABAP development approach

- Be ready for testing within hours (not days or weeks)

Vertex Accelerator for SAP ERP
Advanced integration and reporting tools for rapid deployments
- Includes Tax Code & data mapping, detailed reports, conversions and more
- Uses SAP-Certified RFC integration for US and Canada (with SIC)
- Supports Extension countries (India, Argentina)

Vertex Chain Flow Accelerator for SAP ERP
Configurable logic for complex VAT transaction scenarios
- SAP-Certified add-on that replaces native SAP ERP tax method
- Uses REST API integration with Vertex Tax Services and O Series
- Supports all single-level tax countries in EMEA and APAC. (Planned support for extension countries.)

Vertex PLUS Tools for SAP ERP
Specialized solutions for solving common P2P, O2C, and Data challenges
- Covers AP Vendor reconciliations, test automation, tax credits and more
- Compatible with SIC, Tax Services and Web Services integrations
- Supports numerous geographies and indirect tax types

Vertex Tax Call Integration Points
SAP S/4HANA & ECC

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Procurement

- SRM
- Purchase Orders
- Service Entry

Other

- Customer reports*
- Material Movement reports*
- Procurement Card reports*
- Custom Load files*

Sales

- Sales Quotation
- Sales Orders
- Debit Memos
- Credit Memos

Accounts Receivable

- Billing Documents
- FI-AR Invoices
- FI-AR Credit memos
- Accounting Docs
- Cancellations
- Reversals
- Tax-only credits*
- Tax-only debits*

Accounts Payable

- Logistics Invoices
- FI-AP Invoices
- FI-AP Credit memos
- Accounting Docs
- Cancellations
- Reversals
- Tax-only credits*
- Tax-only debits*

Master Data (Jurisdiction assignments)

- Company Codes
- Business Partners
- Plants
- Cost Objects
- Storage Locations
- Shipping Points
- Purchase Orders
- Sales Orders

* = enhanced integration points enabled through Accelerator & PLUS Tools.

Vertex Tax Call Integration Points
Ariba & SAP Concur Invoice

Ariba

| Procurement	Accounts Payable
• Purchase Requisitions	• Invoice Reconciliations • Invoice Approvals

SAP Concur Invoice

Procurement

• Vendor charged tax estimate

The Vertex Difference

The Hard way

ERP customization and other tax engines

- *Hardcoded ABAP coding*
- *Custom IT build*
- *Manual workarounds*
- *Difficult reconciliations*
- *No audit trail*
- *Limited visibility*
- *Surprises under audit*
- *Tax errors*
- *Risk from lack of testing*
- *Constant training*
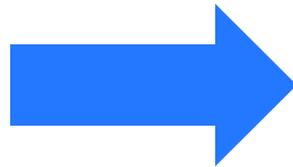
The Vertex way

Simple. Automated. End-to-end.

- Configurable, scalable deployment tools
- Standardized, supported applications
- Fully integrated automation
- Cleaner monthly reconciliations
- Multiple points for audit trail
- Extensive reports in SAP
- Comprehensive analytics & audit tools
- Real-time corrective actions
- Comprehensive test automation
- Minimized burden on O2C & P2P teams

Why Vertex for SAP ERP

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- *S/4HANA*
- *S/4HANA Private Edition*
- *ECC*

Features	SAP ERP Native Tax Fxn	SAP ERP with Vertex
Global rate content (SUT, CUT, VAT, HST, GST, +Brazil)	Manual	Automated Updates
Global tax determination content (NA, EMEA, APAC, LATAM + Brazil)		Automated Updates
Global Multi-element tax decision model	•	•
Global Chain-flow tax decision model		•
Global Tax Reports in SAP	•	•
Global Tax Compliance Returns Preparation	•	•
Global Invoicing with local compliant forms and FX fxn (Marketplace support)		•
US Address Validation (incl. Lat/Long)		•
US Exemption Certs management		•
US Exemption Certs management - integrated with SAP ERP		•
VAT Registration Validation (support beyond VIES)	•	•
VAT Compatibility with eInvoicing (multiple source systems)		•
VAT handling for partial recoverability	•	•
VAT SD Blocking for invalid transactions		•
Global Real-time A/P Vendor tax balancing		•
Global Tax Testing Automation in SAP		•
Global Master Data monitoring		•
US Tax-only credits program		•
US Tax Jurisdiction Conversion programs		•
US Goods Movement tax accruals		•
US Procurement Card tax accruals		•

Why Vertex for SAP ERP

Vertex enables commerce
Automation and More…

Vertex removes manual, tax-driven IT config/code burden in SAP with simplified tax code set-up and automated and updated rates, determination content, and decision models.

SAP native tax functionality can handle global rate storage and simple calculation, but the SAP solution requires constant manual update to SAP tables and code for each tax-related dependency including:

- Tax code updates
- Rate update
- Jurisdiction update/addition
- Complex multi-party conditions
- Complex VAT scenario conditions
- Product Master conditions for legislative, regulatory and country rule nuances

Vertex enhances tax team flexibility and enables pivot while the business scales.

Automated and updated rate and determination content is a big win for the tax and IT functions. But business is not static and commercial systems are not built to handle nuanced tax decisions. Vertex is. The system is built to easily flex and scale.

- Document and line level flex fields
- Calc and compliance data models
- Tax assist tables and conditional rule functions
- Tax rate look-up and rule reporting
- Country/Province/State/County/City/District qualifiers/reporting

Why Vertex for SAP ERP - Ariba

Features	SAP ERP with Native Tax Fxn	SAP ERP with Vertex
Consumer Use Tax, GST/HST/PST/QST	Manual	Automatic updates
Tax determination for EMEA and APAC including recoverability	Manual	Automatic updates
USA Address Verification (and Lat/Long locator)	•	Automatic updates
Additional tax characteristics to support complex tax determination		•
Header-level Flexible Fields for Tax Call		•
Line-level Flexible Fields for Tax Call		•
Tax Details by Country, Province, State, County, City, District	•	Automatic updates
Simplified Tax Code Setup Upload Tools		•
Validate Sales Tax Charged on purchases (CUT Over/Under charges)		•
Trusted Vendor functionality		•
Canned reports for reconciliation, compliance and audit		•
Engineered to Easily Scale with Businesses as they Grow		•
Tax Compliance Options including signature ready returns (VAT/CUT)		•
Tax Rate Lookup		•
Registration Validation including support beyond VIES system		•
Jurisdiction compliant Invoicing (with Marketplace support)		•

Why Vertex for SAP ERP (Ariba)

Vertex enables commerce
Minimizing P2P Tax Risk

Purchase Requisition and Purchase Order:

- Vertex uses information from Ariba to provide an estimate of the taxes that will appear on the invoice.
- The Vertex supplied tax information is automatically copied to the Purchase Order.

Invoice Reconciliation:

- Vertex uses information from Ariba and the Vendor Invoice to calculate what the taxes on the invoice should be.
- Ariba compares the Vertex Tax Calculation with what is on the invoice.
- When the two taxes do not match, Ariba allows the A/P user to choose which tax is appropriate

Final Tax Determination:

- Once the Invoice is finalized, Ariba sends the final Invoice amount plus tax to Vertex.
- Vertex calculates, and remaining non-invoice taxes, such as self assessed or reversed charge tax codes returned.

Vertex Accelerator for SAP

SAP ECC & S/4HANA

Accelerator
- Data Mapping
- Tax Code Default
- Reports
- Queue Monitoring

Condition Value Formula

TCP/IP for RFC

Vertex SIC

send/receive data

SAP ECC & S/4HANA

Vertex Chain Flow Accelerator
- Tax Code Mapping
- Chain Flow Data Mapping
- Vertex Tax Service Controller
- Chain Flow Validation

Condition Value Formula

HTTPS Client

Vertex Tax Service API

send/receive data

JSON / REST API

SOAP XML Conversion

Vertex O Series

Tax Content Repository

Tax Solutions & Services

Tax Calculation Services

Chain Flow Accelerator in SAP

Visualization of the flow in SAP
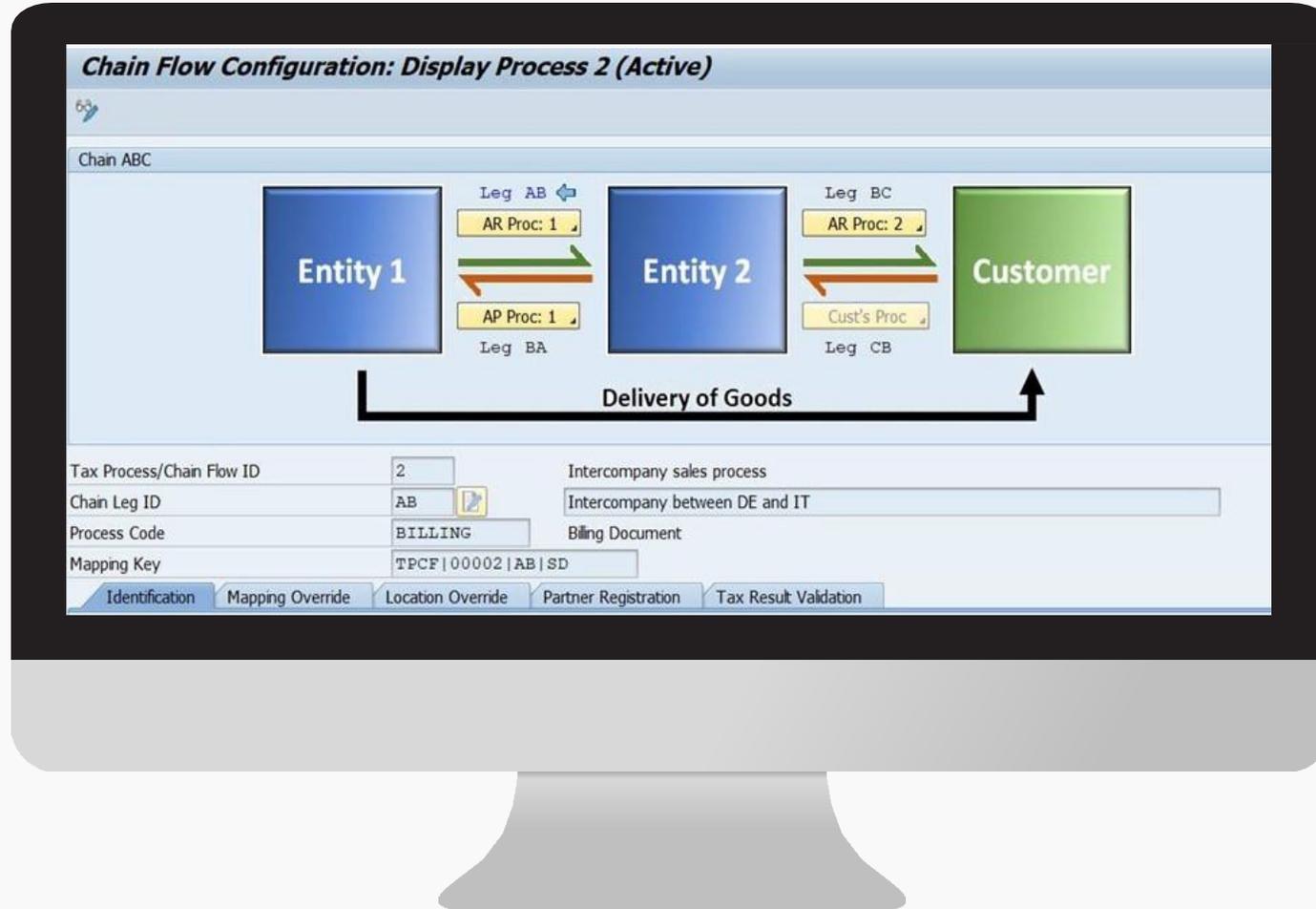
Chain Flow Accelerator (CFA)

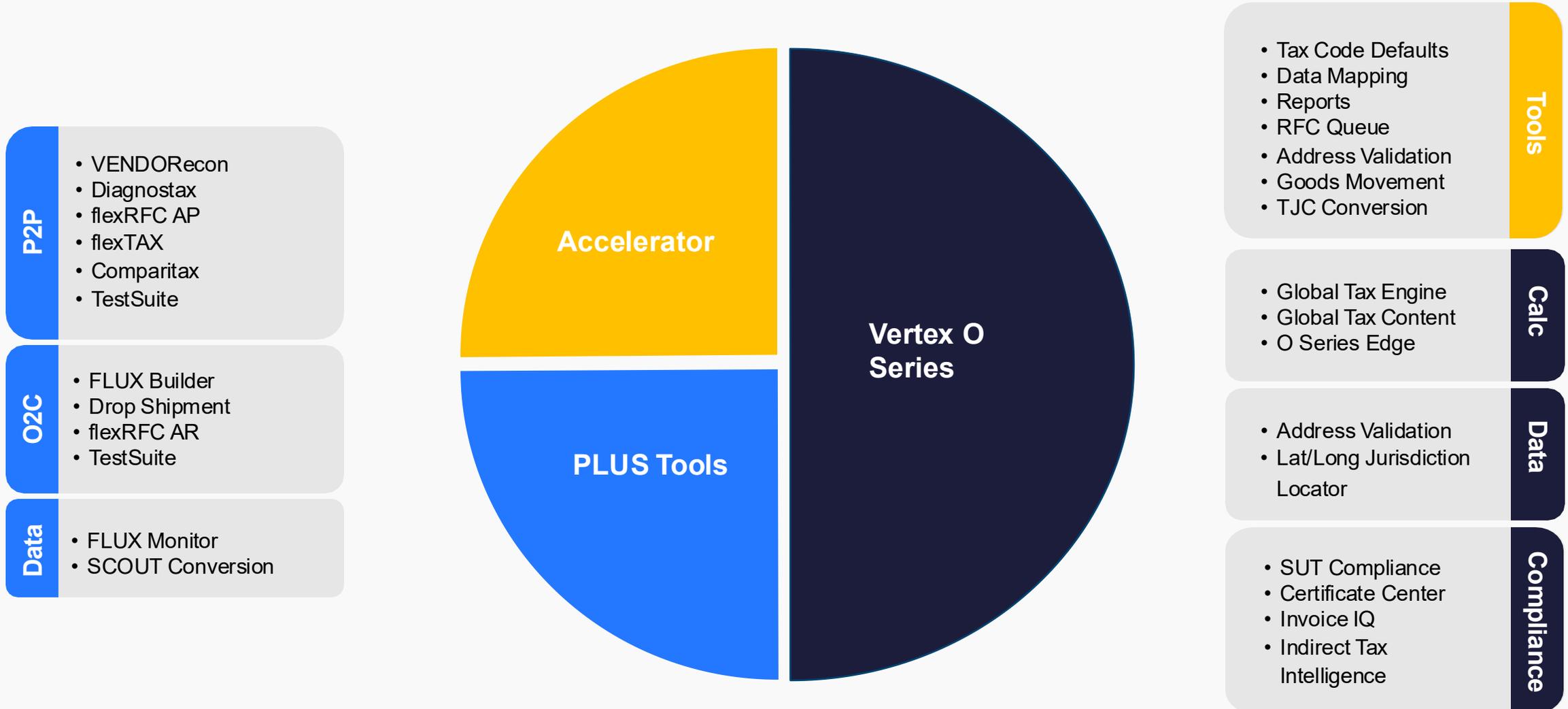| CFA Functionality	Explanation
1. Chain Flow Configuration	Support complex chain flow tax calculation
2. Tax result tab	Displays data used for tax calculation and the tax results (includes warning and error messages occur during calculation).
3. Validation	Can be configured for specific process, example: set Billing Block based on required VAT treatment
4. Manual Tax Code Override	Out of the box custom setting available
5. Goods vs Service	Configurable in CFA General Setting for each country
6. Plants Abroad STO	Process consistent with native SAP Plants Abroad STO
7. Handling of VAT adjustment during payment due to Cash Discount	Handled like native SAP: invoice tax code is assigned to the cash discount and same tax rate used
8. Handling of Brexit and Northern Ireland Protocol	Out of the box customizable setting available to enable the correct treatment for Brexit scenarios.
9. Handling of Tax Calculation on Default Services	Designed for Default Service handling
10. Technical approach	Only SAP approved methods used: user exits, BADIs, pricing formulas, etc. The integration uses new technology (Tax Service REST API), based on SAP defined schema.
11. SAP Certification	CFA is SAP certified for S/4HANA 2022. Will be renewed for every new S/4HANA version.

Vertex for Ariba: Connector Overview
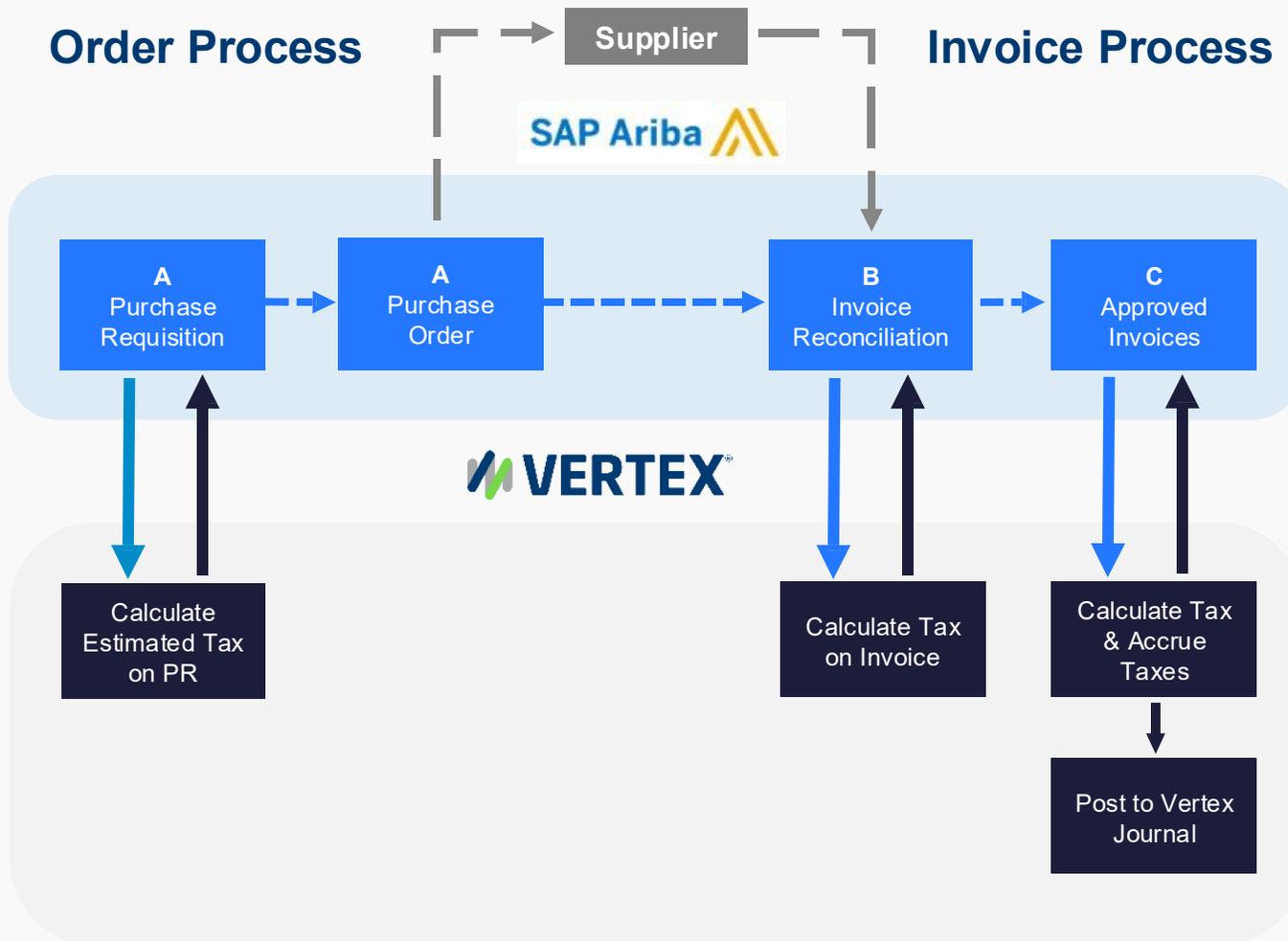
A **Purchase Requisition and Purchase Order:**
- Ariba calls Vertex on Purchase Requisitions to calculate a tax estimate
- The estimated taxes can be copied to the Ariba Purchase Orders
- The Purchase Orders are issued to the Supplier

B **Invoice Reconciliation:**
- Ariba calls Vertex on Invoice Reconciliation to re-calculate a tax estimate
- Ariba compares the Vertex Tax with the Vendor-billed Tax
- Ariba requires the user to manually select which tax to use or defer to another user. It may be possible to configure default rules around the selection.

C **Invoice Approval:**
- Once the Invoice is approved, Vertex calculates tax again and determines if any tax is to be accrued
- Optionally, post the taxes to the Vertex Journal

Indirect Tax Solution for SAP Customers (SUT/CUT)

P2P
- VENDORecon
- Diagnostax
- flexRFC AP
- flexTAX
- Comparitax
- TestSuite

O2C
- FLUX Builder
- Drop Shipment
- flexRFC AR
- TestSuite

Data
- FLUX Monitor
- SCOUT Conversion

Accelerator

PLUS Tools

Vertex O Series

Tools
- Tax Code Defaults
- Data Mapping
- Reports
- RFC Queue
- Address Validation
- Goods Movement
- TJC Conversion

Calc
- Global Tax Engine
- Global Tax Content
- O Series Edge

Data
- Address Validation
- Lat/Long Jurisdiction Locator

Compliance
- SUT Compliance
- Certificate Center
- Invoice IQ
- Indirect Tax Intelligence

Vertex Solutions for SAP Order-to-Cash (SUT)

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SAP ECC & S4 HANA
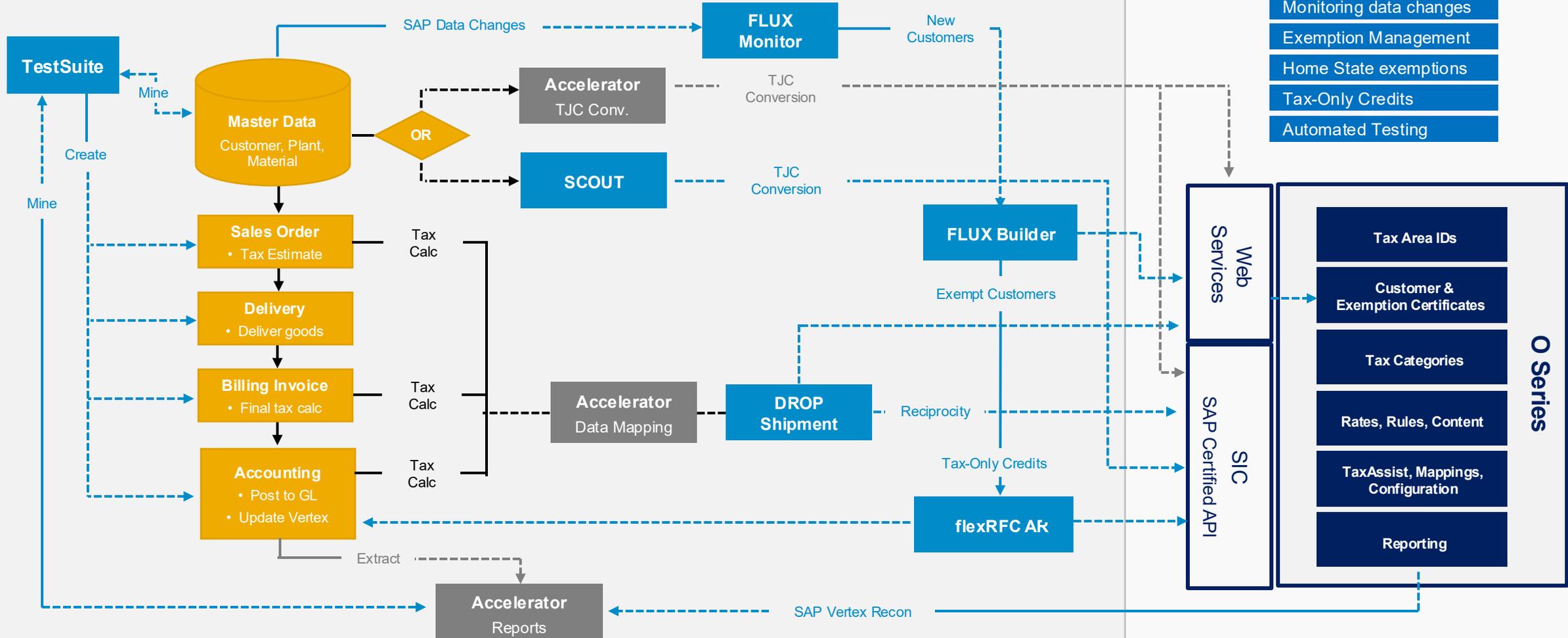
Certified SAP Integration

- TJC conversion
- Controlled integration
- SAP Reporting & Recon
- Monitoring data changes
- Exemption Management
- Home State exemptions
- Tax-Only Credits
- Automated Testing

TestSuite

Mine

Create

Mine

SAP Data Changes → **FLUX Monitor** → New Customers

Master Data
Customer, Plant, Material

OR

Accelerator TJC Conv. — TJC Conversion

SCOUT — TJC Conversion

Sales Order
• Tax Estimate — Tax Calc

Delivery
• Deliver goods

Billing Invoice
• Final tax calc — Tax Calc

Accounting
• Post to GL
• Update Vertex — Tax Calc

FLUX Builder

Exempt Customers

Accelerator Data Mapping — **DROP Shipment** — Reciprocity

Tax-Only Credits

flexRFC AR

Extract

Accelerator Reports — SAP Vertex Recon

Web Services

SIC SAP Certified API

O Series

- **Tax Area IDs**
- **Customer & Exemption Certificates**
- **Tax Categories**
- **Rates, Rules, Content**
- **TaxAssist, Mappings, Configuration**
- **Reporting**

Vertex Solutions for SAP Procure-to-Pay (SUT)

Auritas

SAP ECC & S4 HANA

TestSuite

Mine

Create

Mine

Master Data
Vendor, Cost Object
Material, GL

SAP Data Changes → **PLUS Tools** FLUX Monitor

P-Card, Load files

PLUS Tools flexTAX

OR

Accelerator TJC Conv.

PLUS Tools SCOUT

TJC Conversion

Sales Order
• Tax Estimate — Tax Calc

Use Tax Accruals

Service Entry
• Receive service — Tax Calc

Accelerator Tax Cod Default

Accelerator Data Mapping

Goods Receipt
• Expense tax

Accelerator Goods Movement

Data Fix

Use Tax Accruals

Invoice Receipt
• Validate tax — Tax Calc

PLUS Tools VENDORexon

Comparison Checks

PLUS Tools Comparitax

Corrections

Accounting
• Post to GL
• Update Vertex — Tax Calc

PLUS Tools flexRFC AP

Use Tax Adjust.

Corrections

Extract

Accelerator Reports

Extract

PLUS Tools Diagnostax

SAP-Vertex Recon

Web Services

SIC SAP Certified API

O Series

Tax Area IDs

Tax Categories

Rates, Rules, Content
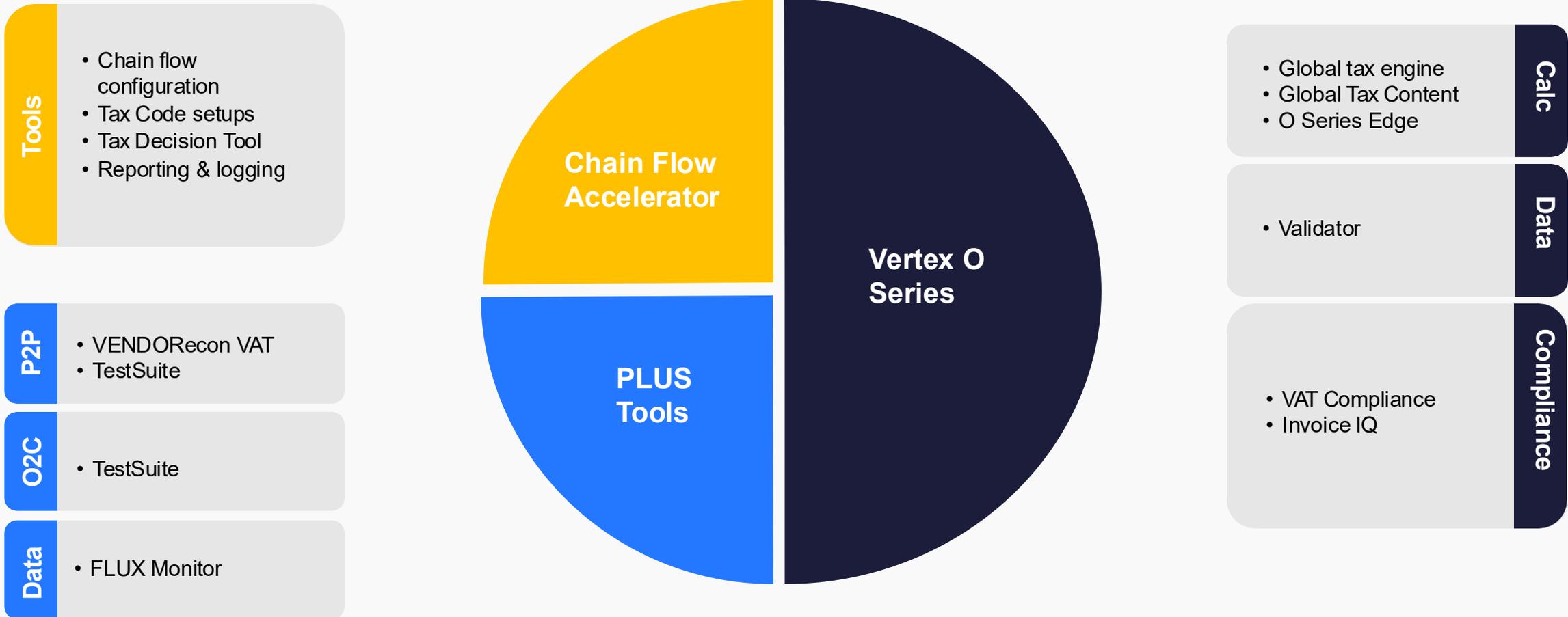
TaxAssist, Mappings, Configuration

Reporting

Certified SAP Integration

TJC conversion
Controlled integration
Real-time AP Balancing
SAP Reporting & Recon
Analytics & Corrections
Use Tax Adjustments
Use Tax on Inventory
Use Tax on P-Card
Tax Comparisons
Data Change Monitoring
Automated Testing
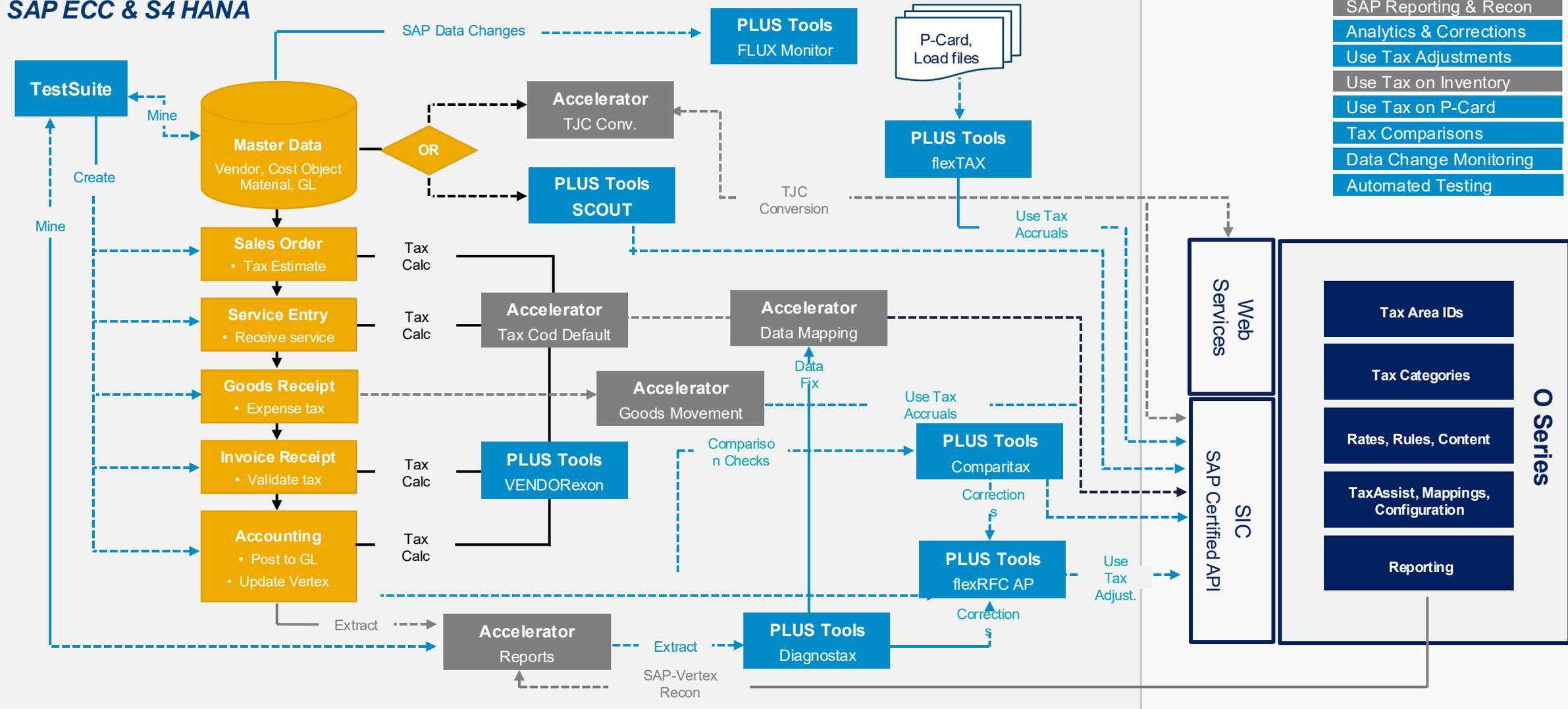
Indirect Tax Solution for SAP VAT Customers

Tools
- Chain flow configuration
- Tax Code setups
- Tax Decision Tool
- Reporting & logging

P2P
- VENDORecon VAT
- TestSuite

O2C
- TestSuite

Data
- FLUX Monitor

Chain Flow Accelerator

PLUS Tools

Vertex O Series

Calc
- Global tax engine
- Global Tax Content
- O Series Edge

Data
- Validator

Compliance
- VAT Compliance
- Invoice IQ

What is Vertex TestSuite?

- Vertex TestSuite is a test automation program purpose-built for Tax testing

- Vertex TestSuite is installed in SAP ECC or S4 HANA and helps you:

SCRIPT
EXECUTE
ANALYZE
TROUBLESHOOT
DOCUMENT

- Mine SAP transactions & data to build test scripts with actual SAP data Automatically create SAP documents such as POs, Sales Orders, Invoices Compare actual and expected tax results.

- Easy access to Accelerator, SIC and messaging logs.

- Store test script, document and tax results in a comprehensive report.

- Vertex TestSuite enables you run thousands of test cases, so you can validate:

SAP Master Data	Accelerator Tax Code	Vertex Calculation	Diagnostax	SAP GL Posting	Vertex Reports
SAP Doc Creation	Accelerator Data Pass	SIC	VENDORecon (+VAT)	Drop Shipment	Accelerator Reports

Vertex TestSuite Empowers you to Close the Testing Gap!

> Auritas

Tests use actual SAP data	Mines actual SAP data and runs that data through actual system processes.
End-to-end tax testing	Test cases process through Vertex, Accelerator, PLUS Tools, and Reporting.
Complete data coverage	Test cases can be built to cover all geographic regions, products, and services.
Find system errors	Find and fix errors before you go to production.
Self-service testing	Tax teams can build and run tests without help from their technical team.
Testing documentation	TestSuite maintains a history of test documentation.
Regression testing	Re-run regression tests in minutes — not days or weeks.
Incredible time savings	TestSuite can potentially save your team thousands of hours of work.

Thank you.