Fattura Elettronica con SAP – Ieri Oggi e Domani

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Silvia Populin, Presale Expert, SAP Italia

28 Ottobre 2019
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Agenda

SAP Document Compliance

- Roadmap
- Solution Overview
- Prerequisite
- Process Flow

SAP Invoice Management by Open Text

SAP S/4HANA for Good and Invoice Receipt Reconciliation
SAP Document Compliance Roadmap
Digital Compliance – Country* Specific Requirements

*The term "country" is used for convenience only and does not necessarily infer the existence of a nation state.
SAP Document Compliance
Scenarios for Latin America (Available / Planned*)

- **Argentina**
  - Customer Invoice
  - Vendor Invoice
  - Consumer Invoice (Boleta)
  - Ledgers

- **Brazil**
  - Customer Invoice
  - Vendor Invoice (DTE elinvoice)
  - Delivery Note

- **Chile**
  - Customer Invoice
  - Vendor Invoice (DTE elinvoice)
  - Consumer Invoice (Boleta)

- **Colombia**
  - Customer Invoice
  - Vendor Invoice
  - Tax Collection Certificate

- **Mexico**
  - Payment Receipt
  - Consumer Invoice (Boleta)
  - Withholding Tax Certificate

- **Peru**
  - Customer Invoice (Peruvian elinvoice)

* Planned: This is the current state of planning and may be changed by SAP at any time without notice.
SAP Document Compliance
Europe and Other Scenarios (Available / Planned*)

Belgium: Customer Invoice
Germany: Customer Invoice
Netherlands: Customer Invoice
Norway: Customer Invoice
Sweden: Customer Invoice
Spain: Customer Invoice (FACTURAE)
Portugal: Transport Registration
Hungary: Customer Invoice
Italy: Customer Invoice

Turkey: Customer Invoice
Thailand: Vendor Invoice
Taiwan: Customer Invoice
Australia / New Zealand: Vendor Invoice
Singapore: VAT Register Books (SII Reporting)
South Korea: Orders with NSO

Australia / New Zealand: Customer Invoice

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* Planned: This is the current state of planning and may be changed by SAP at any time without notice.
Road Map

Italy Legislation + SAP Suite

1. PA Format
   - SAP E-Document
   - E-Invoice PA Central

2. SAP eDocument Framework
   - SAP Document Compliance
   - E-Invoice PA Local
   - B2B
     - E-invoice
     - 1 January 2019

3. Ingestion and Recognition
   - Verification and Exception Handling
   - Analytics
   - Invoice Approval

4. To be defined
   - SAP Invoice Management
   - E-Order
     - 1st October
     - PA (Healthy Sector)

2014 2015 2019 2020
SAP Document Compliance
Solution Overview
SAP Document Compliance

Key Benefits

End to End Solution

• Full integration with ERP
• Maintenance of legal changes across all components in one hand

Simplified Implementation

• Pre-packaged content and integration flows
• Common architecture across countries and processes

Simplified Operations

• One user interface
  One platform
  One provider
• Business monitoring and error handling from ERP
SAP Document Compliance

Capabilities

Provides configurable, pre-packaged content and process orchestration capabilities for compliance with e-document regulations in multiple countries

It allows you to

❖ Create electronic documents in legally required XML format.
❖ Orchestrate the communication with the authorities as well as other document receivers
❖ Configure and customize country-specific fields
❖ Monitor communication, trace source documents and handle exceptions directly in SAP ERP and SAP S/4HANA
SAP Cloud Platform
Integration

Allows you to easily exchange data in real-time, integrating processes and data between cloud apps, 3rd party applications and on-premise solutions

It allows you to

❑ Access a deep catalog of integration flows
❑ Integrate both processes and data through unified technology engineered for the cloud
❑ Get an integration service that is secure, reliable and delivered and managed by SAP in SAP’s secure data centers across the globe
❑ Lower TCO with an affordable, pay-as-you-go subscription model and minimal up-front investment
Note number is 2583309: it includes documentation that explain in detail the procedure required by Sogei to register the web services channel.

Channel registration with SDI is a mandatory prerequisite to start SCPI.

Before using the channel in production SDI asks to perform a list of test, only when all test are executed you can get official «codice destinatario» to be used in production to exchange invoices.
SAP Document Compliance - Solution Architecture

**Suite**
- Country Format Mapping
- Business Monitoring

**SAP Document Compliance, on premise edition**
- Chile
- Peru
- Italy
- Germany
- Netherlands
- Belgium
- Turkey

**SAP Cloud Platform Integration**
- DTE
- Peruvian UBL
- E-Invoice

**Digital Compliance Service**
- xRechnung
- EU-UBL

**3rd Party**
- UBL TR

**Recipient**
- SII
- SUNAT
- SDI
- Business Partner
- Business Partner
- TRA

- Communication
- Authentication/Digital Signature

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SAP Document Compliance Solution Prerequisite
### Master Data
#### Configuration – Customer Master

- IPA code for B2G
- Codice destinatario for B2B

![Image of Customer Master Configuration]

**Address**

<table>
<thead>
<tr>
<th>Location No. 1</th>
<th>Location No. 2</th>
<th>Check digit</th>
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**Industry**

- Train station
- Express station

**Tax Information**

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<th>Tax Number 4</th>
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<td>WSBUKP</td>
<td></td>
<td></td>
<td></td>
<td></td>
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</table>

**Fiscal address**

- County Code
- City code

**Payment Transactions**

- VAT Reg. No.
- Tax Jur.
- SubTrib group

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**PEC**

**e-mail address**

<table>
<thead>
<tr>
<th>Address</th>
<th>Address Overview</th>
<th>Identification</th>
<th>Control</th>
<th>Payment Transactions</th>
<th>Status</th>
<th>Where-Used List</th>
<th>Additional Texts</th>
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**Communication**

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<td></td>
</tr>
<tr>
<td>Fax</td>
<td></td>
<td>Extension</td>
</tr>
<tr>
<td>E-Mail</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Data line</td>
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</tr>
<tr>
<td>Telebox</td>
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<td></td>
</tr>
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Dependent -> Independent...
PEC e-mail address

Provide the email address with the term ‘PEC’ under ‘Notes’:

Email Address: Fatturazione_elettronica.sapitalia@legalmail.it
Notes: PEC
Valid From: 23.07.2018
Valid To: 31.12.9999
SAP Document Compliance - Customizing

Customizing Documentation for SAP eDocument SAP Note 2170013

Main note 2001016

Troubleshooting Guide (SAP Note 2696897) in the SAP eDocument product page

Installation Guide for SAP eDocument (framework) – attached to SAP Note 2684734
# SAP Document Compliance - BADI Enhancements

## BAdI Implementations

<table>
<thead>
<tr>
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<th>Active (Impl)</th>
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<td>ZEDOC_ADAPTOR_PE_CI</td>
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<tr>
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<td>ZEDOC_ADAPTOR_CL_CI</td>
<td>Edoc Adaptor for Chile</td>
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<td>ZEI_EDOC_ADAPTOR_HU</td>
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<td>adaptor way</td>
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Maintain additional parameters for company code V_T001L (1/2)

Maintain additional parameters for company code V_T001L (2/2)


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<td>Fattura Companies Shareholders</td>
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<td>ISTLIQ</td>
<td>Fattura Liquidation Indicator</td>
<td>LN</td>
</tr>
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<td>IUFFIC</td>
<td>Fattura Province Reg. Office</td>
<td>MB</td>
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<td>LWTKRS</td>
<td>Tax Rate for Country Currency</td>
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<td>PNOWIA</td>
<td>Plants Abroad Not Required</td>
<td>X</td>
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<td>PTAXCK</td>
<td>Tax without Rounding Tolerance</td>
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<td>P_KDTZ</td>
<td>Generate KDT Item when Paying</td>
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<td>Tax number</td>
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<td>RB: Identification</td>
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<td>SAP006</td>
<td>RB: Code</td>
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<tr>
<td>SAP007</td>
<td>RB: Company name</td>
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<tr>
<td>SAP008</td>
<td>RB: Province</td>
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<tr>
<td>SAP009</td>
<td>RB: Authorization</td>
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<tr>
<td>SAP010</td>
<td>RB: Date of authorization</td>
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<td>Exceptional Event For CU Decl.</td>
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<td>TAXPRC</td>
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Mapping value for XML file
Transaction /AIF/MAP

Maintenance of value mappings

<table>
<thead>
<tr>
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<td>Value mapping Tipo Documento</td>
</tr>
<tr>
<td>GET_DOCUMENT_TYPE</td>
<td>Value mapping Tipo Documento</td>
</tr>
<tr>
<td>GET_NATURA_CODE</td>
<td>Value mapping Natura code</td>
</tr>
<tr>
<td>GET_PAYM_TERMS</td>
<td>Value mapping Modalita Pagamento</td>
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</table>
## Mapping values for XML file

### GET_DOCUMENT_TYPE

<table>
<thead>
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<th>Index External Value</th>
<th>Document Type</th>
<th>Default</th>
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<tr>
<td>1</td>
<td>*</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>TD01</td>
<td>DR</td>
</tr>
<tr>
<td>3</td>
<td>TD01</td>
<td>RV</td>
</tr>
<tr>
<td>4</td>
<td>TD01</td>
<td>SA</td>
</tr>
<tr>
<td>5</td>
<td>TD01</td>
<td>W1</td>
</tr>
<tr>
<td>6</td>
<td>TD04</td>
<td>DG</td>
</tr>
</tbody>
</table>

---

<TipoDocumento> (document type)

- **TD01**: invoice
- **TD02**: advance/down payment on invoice
- **TD03**: advance/down payment on fee
- **TD04**: credit note
- **TD05**: debit note
- **TD06**: fee
- **TD20**: self invoicing
### Mapping values for XML file

**GET_NATURA_CODE**

#### Display Value Mappings

<table>
<thead>
<tr>
<th>Index External Value</th>
<th>Tax Code</th>
<th>Default</th>
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</thead>
<tbody>
<tr>
<td>1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2 N1</td>
<td>VA</td>
<td></td>
</tr>
<tr>
<td>3 N2</td>
<td>VE</td>
<td></td>
</tr>
<tr>
<td>4 N3</td>
<td>VD</td>
<td></td>
</tr>
<tr>
<td>5 N4</td>
<td>VB</td>
<td></td>
</tr>
</tbody>
</table>

**<Natura>** (nature)

| N1 | excluded pursuant to Art. 15 |
| N2 | not subject                 |
| N3 | not taxable                 |
| N4 | exempt                      |
| N5 | margin regime               |
| N6 | reverse charge              |
| N7 | VAT paid in other EU countries (distance sales pursuant to Art. 40, section 3 and 4 and Art. 41, section 1 letter b, Decree 331/93, telecommunications, tele-broadcasting and electronic services provision pursuant to Art. 7-sexies letter f, g, art. 74-sexies Italian Presidential) |
Mapping values for XML file

GET_PAYMENT_TERMS

Display Value Mappings

<table>
<thead>
<tr>
<th>Namespace</th>
<th>Value Mapping Name</th>
<th>Value mapping Modalita Pagamento</th>
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<td>GET_PAYMENT_TERMS</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Database Type</th>
<th>Value Mapping Type</th>
<th>Sending System</th>
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<tbody>
<tr>
<td>M</td>
<td>Master Data</td>
<td></td>
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<tr>
<td>S</td>
<td>Single value mapping</td>
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</table>

<table>
<thead>
<tr>
<th>Index</th>
<th>External Value</th>
<th>Payt Method</th>
<th>Default</th>
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<tbody>
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<td>1</td>
<td>MP01</td>
<td>*</td>
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</table>

<ModalitaPagamento> (Payment Method)

- MP01: cash
- MP02: cheque
- MP03: banker's draft
- MP04: cash at Treasury
- MP05: bank transfer
- MP06: money order
- MP07: pre-compiled bank payment slip
- MP08: payment card
- MP09: direct debit
- MP10: utilities direct debit
- MP11: fast direct debit
- MP12: collection order
- MP13: payment by notice
- MP14: tax office quittance
- MP15: transfer on special accounting accounts
- MP16: order for direct payment from bank account
- MP17: order for direct payment from post office account
- MP18: bulletin postal account
SAP Document Compliance
Process Flow
SAP Document Compliance – Customer Invoice (Outgoing)

1. Post SD/FI Document
2. Create eDocument
3. Submit eDocument
4. Invoice UBL XML
   - Data Reception
   - Validations
   - Duplicate Check
5. XML Completion
   - Digital Signature *
   - Store Notification**
6. Process
7. Send Notification
8. Send to Receiver
9. Process

- *Digital signature with local third party. Included in the contract no separate license needed
- **Invoice and notification are held in a data store until picked up, the recipient delete the entries from the data store after successful receipt
SAP Document Compliance – Invoices from External Billing System

SAP Document Compliance

Receive XML form external system

Process XML received in the cockpit as additional scenario

SAP Notes:

2725762 - eDocument Italy: External Outgoing eInvoice Prerequisite Objects for SAP Note 2718331
2718331 - eDocument Italy: External Outgoing eInvoice
2736303 - eDocument Italy: External Outgoing eInvoice Corrections
2698654 - eDocument Italy: External Outgoing eInvoice Documents - AIF Setup
2688343 - eDocument Italy: Enhancements implementation
SAP Document Compliance – Outgoing Cockpit

- Submit / Resubmit
- Display file
- Selection variants including filter by source data
- Generic information about the Cockpit
- Central monitor for all scenarios
- Only authorized processes are displayed
- Batch & List handling

- Send to customer
- Accept/Reject
- Cancel/Delete
- Information about the selected process
- Display eDocument history
- Application Log
- PDF generation (XML-based)
- E-mail communication with customer
- Navigate back to source document
- Navigate to interface monitor
SAP Document Compliance - Signing of Document in the Cloud

SCPI

Main iFlow
- Checks
  - Determine Service Provider
  - Send signed document to SdI
  - Customer iFlow
  - Aruba iFlow

Alternative Service Provider

Aruba

E-invoice
SAP Document Compliance – Vendor Invoice (Incoming)

SAP ECC /S4HANA

SAP Cloud Platform Integration

Sdl

Sender Service Provider

Sender

1. Submit eDoc
2. Send to SdI
3. Process
4. Get Invoices
   - Create eDocument
5. Delete Request
   - Delete Confirmation
6. Process Notification: only accept. Rejections not allowed: request credit note to customer through email. Only for B2B

Get Invoices
Create eDocument
Delete Invoice in Cloud
Accept / Reject Notification (request credit note to the customer)
Get Invoice Notification
Delete Notification

Get Invoice
FatturaPA

Process Invoice Request
Send Acknowledgement

Validations
Store Data

Delete Invoice
Confirm Deletion

Delete Confirmation

Process Notification
Return Notifications
Delete Notifications
Confirm Deletion

Process Acknowledgement

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SAP Document Compliance
Inbound Invoice Processing with SAP Invoice Management by Open Text

SAP ECC – SAP S/4HANA

Get Invoice
Create eDocument
Trigger Invoice Management
Accept / Reject Notification

Invoice matching, verification and approval

SAP Cloud Platform Integration

Validations
Store Data

FatturaPA

Send Invoice

1

FatturaPA

Get Invoice
Process Invoice Request

2

Process Notification:
For B2G: Accept / reject generates a notification
For B2B: Only reject is possible, this generates an email.

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SAP Document Compliance

SAP Invoice Management by Open Text Integration

Create Incoming Invoice

Status returned from SAP IM by OT is automatically updated in Cockpit

SAP Notes:

2777052  eDocument: Prerequisites for SAP Note 2765690
2765690  eDocument Framework (21)
2771424  eDocument Italy: Enhancements for Incoming Invoices

Integration is part of SAP invoice management for SAP S/4HANA by OpenText 16.3.3 and SAP invoice management for SAP S/4HANA by OpenText 7.5 SP.
SAP Document Compliance - Incoming Cockpit

- Sends the incoming invoice to SAP IM by OT
- Can be planned as a background job

- Accept/Reject actions are automatically triggered after SAP IM by OT processing
  - B2G – Messages to Tax Authorities
  - B2B – Rejection Mail

Status returned from SAP IM by OT is automatically updated in Cockpit
SAP Document Compliance - Incoming Invoice Cockpit

Sends the incoming invoice to SAP IM by OT
Can be planned as a background job

Accept/Reject actions are automatically triggered after SAP IM by OT processing

B2G – Messages to Tax Authorities
B2B – Rejection Mail

Status returned from SAP IM by OT is automatically updated in Cockpit
Inbound Invoice Processing via SAP Invoice Management by Open Text

End to end process for our Customers
SAP Document Compliance – Archiving (Conservazione Sostitutiva)

- SAP ECC – SAP S/4HANA
- Select finalized Invoices + notifications *
- Send to Service provider defined in Customer BAdI

- Extract report to select invoices and notifications
- A BAdI will be called in this process step, planned as background job, in the backend
- Prerequisites of Archiving BAdI for Italy - SAP Notes 2828767 and 2810826
- Notes of Archiving BAdI for Italy
  - 2832913 - eDocument Italy: Prerequisite for SAP Note 2814431
  - 2814431 - eDocument Italy: Enhancements
- Conservazione sostitutiva can be delegated to SDI at no cost

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Relevant Scenarios:
- Customer Invoice
- Vendor Invoice

Background:
- B2G e-invoicing (invoices to the public administration) through the central platform SdI is mandatory since 2014.
- The obligation was extended to B2B (all invoices) in **Jan 2019**

Components:
- SAP Document Compliance, on-premise edition
- SAP Cloud Platform Integration (3 connections)
- SAP Cloud Platform Custom Domain
- SAP Invoice Management, on-premise edition

Solution Availability:
- Available for SAP ECC, SAP S/4HANA and SAP S/4HANA Cloud

Contacts
- LPM: Michela Palmiero, Angela Cubillos
SAP Invoice Management
By Open Text
Solution Overview
Invoice Management involves almost every role in your organization

Finance & Procurement
- Accounts Payable Professional
- Tax Professional
- Master Data Analyst
- Treasury Professional
- Buyer
- Category manager
- …

Strategy & Operations
- CXO
- Shared Services Manager
- Accounts Payable Manager
- Internal Auditor
- Workflow Administrator
- System Administrator

Lines of Business
- Receiving
- Warehouse Clerk
- Approver
- Cost Center Owner
- Project Manager / Owner

Business Partners
- Supplier
- Freight provider
- Bank
- External Auditor
- Legal Expert

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SAP Invoice Management by Open Text

**Capabilities**

- End-to-end invoice data visibility helps streamline regulatory compliance
- Automated invoice management helps replace error-prone manual processes
- Helps the organization handle high-volume activities, and reduces the cost per invoice
- Enables optimal payment scheduling

**Benefits**

- Automatically routes invoices to the right person for resolution, approval, and payment
- Stakeholders can quickly access appropriate invoice information
- Transforms invoice management to a people-driven business

20-50% Lower cost per invoice reconciled*

*SAP Benchmark
SAP Invoice Management by Open Text
Digital, integrated, and automated invoice processing
Receive invoices via e-mail, upload, or download

- No invoices lost in private mailboxes
- Simple way to forward to AP
- No complex supplier on-boarding
- Simple solution for any supplier
- No need to print
- Simple collaboration with suppliers

Global e-invoicing mandates drive adoption

XML is the standard for e-invoicing

Source: Billentis, 2017

Market maturity for electronic invoices/bills

Leader
Average
Developing
Laggards
Eliminate paper as early as possible

- No invoices lost
- Instant access from everywhere
- No copies, no internal mails
- Simple collaboration
- No delays, no lost discounts
- Single and secure source of the truth

Directly connected to scanner
Sophisticated document separation and grouping
Powerful image processing
Archiving and process triggering with one click
Add intelligence to invoice processing

**Pre-processing & text recognition**
Split an image into invoice and attachment

**Classification**
Identify document type

**Extraction**
Search for relevant information on the document

**Interpretation**
Enhance extracted data with context information

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**Invoice**
- **Date:** Jan 21, 2019
- **Amount:** $332.29
- **Order-Nr:** X-44277
- **Supplier:** Mueller & Friends

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**Other**
- **Date:** Jan 21, 2019
- **Amount:** $332.29
- **Order-Nr:** X-44277
- **Supplier:** Mueller & Friends

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**Credit Note**
- **Date:** Jan 21, 2019
- **Amount:** $332.29 USD
- **Order-Nr:** X-44277
- **Supplier:** Mueller & Friends

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**Down payment**
- **Date:** Jan 21, 2019
- **Amount:** $332.29 USD
- **Order-Nr:** X-44277
- **Supplier:** Mueller & Friends

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**Other**
- **Date:** Jan 21, 2019
- **Amount:** $332.29 USD
- **Order-Nr:** X-44277
- **Supplier:** Mueller & Friends

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Verification and exception handling - Purchase Order and Not Purchase Order

Easy to understand processes run as automatically as appropriate

Users are guided to the right actions at the right time

Exceptions are resolved with minimal clicks
Simple disputes: Return invoices and attach all documents
Supplier self-service keeps suppliers and internal staff informed

- Simple and secure user experience
- Displays exactly what you intend to share
- Eliminates calls and distractions
- Improves supplier relationship
One approval logic – always the right user interface
SAP S/4HANA for Good and Invoice Receipt Reconciliation
SAP S/4HANA Cloud for Goods and Invoice Receipt Reconciliation
Efficiently clear your open balances on the GR/IR accounts

Enables intelligent processing of the reconciliation of your invoice and goods receipts:

✓ Increases accuracy of your financial statement
✓ Accelerate your financial close while ensuring compliance with your corporate rules
✓ Enables real-time insights into open goods and invoice receipts for accounting and procurement organizations
SAP S/4HANA for Good and Invoice Receipt Reconciliation
More Efficient Clearing with Machine Learning

✓ Intelligent recommendations simplify and accelerate the reconciliation process
✓ Fewer human interactions reduce the effort for non-value adding activities
✓ ML learns from the accountant’s decisions
✓ Reduction of open items
✓ Faster *period end closing* with higher precision (write-offs)
Thank you

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