



SAPinsider
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Innovation**

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**Proven Techniques to
Optimise the Accounts
Receivables Process**

Rohana Gunawardena
Director – SAP Practice, Exium Inc.



What We'll Cover

Introduction

SAP Cash Application

Tracing Clearing Documents

Simplify Document Display With Enhanced Number Ranges

Detecting SD to FI Invoice Transfer Errors

Using Special G/L Indicators Effectively

Converting SAP Negative Sign for Excel

Wrap-up

Introduction

Rohana Gunawardena

Rohana Gunawardena heads the SAP practice division at Exium Inc.

Rohana has been working with SAP since 1992

Rohana is a Fellow of the Institute of Chartered Accountants in England & Wales.



Presentation Objectives

Cover little-known tips and tricks that will help you become a more effective FI-AR analyst

Help you to address common FI-AR problems that occur at many SAP sites

SAP Cash Application

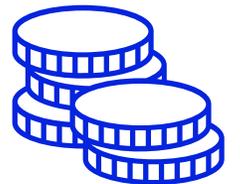
SAP Cash Application - Overview

SAP Cash Application is an Artificial Intelligence/Machine Learning Service (“model”) provided by SAP that is comprised of five separate microservices that can automatically process particular FI AR/AP business processes.

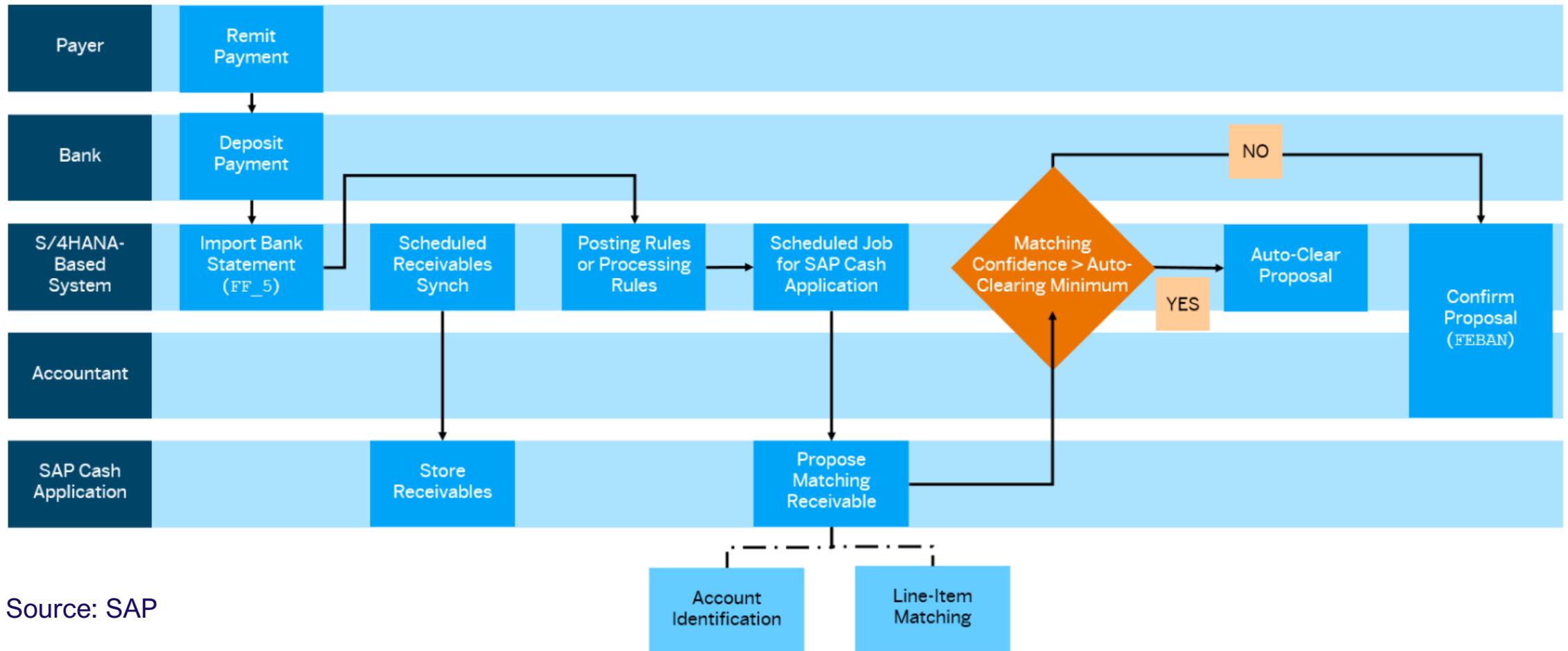
- Customer Account Identification
- Receivables Line-Item Matching
- Payables Line-Item Matching
- Receivables Line-Item Matching for Lockbox
- Payment Advice Extraction

SAP Cash Application is based on historical data and processes that customers currently use for processing electronic bank statements for reconciling their bank balances and lockbox process (US).

SAP Cash Application can make proposals and even more importantly, clear matching invoices.

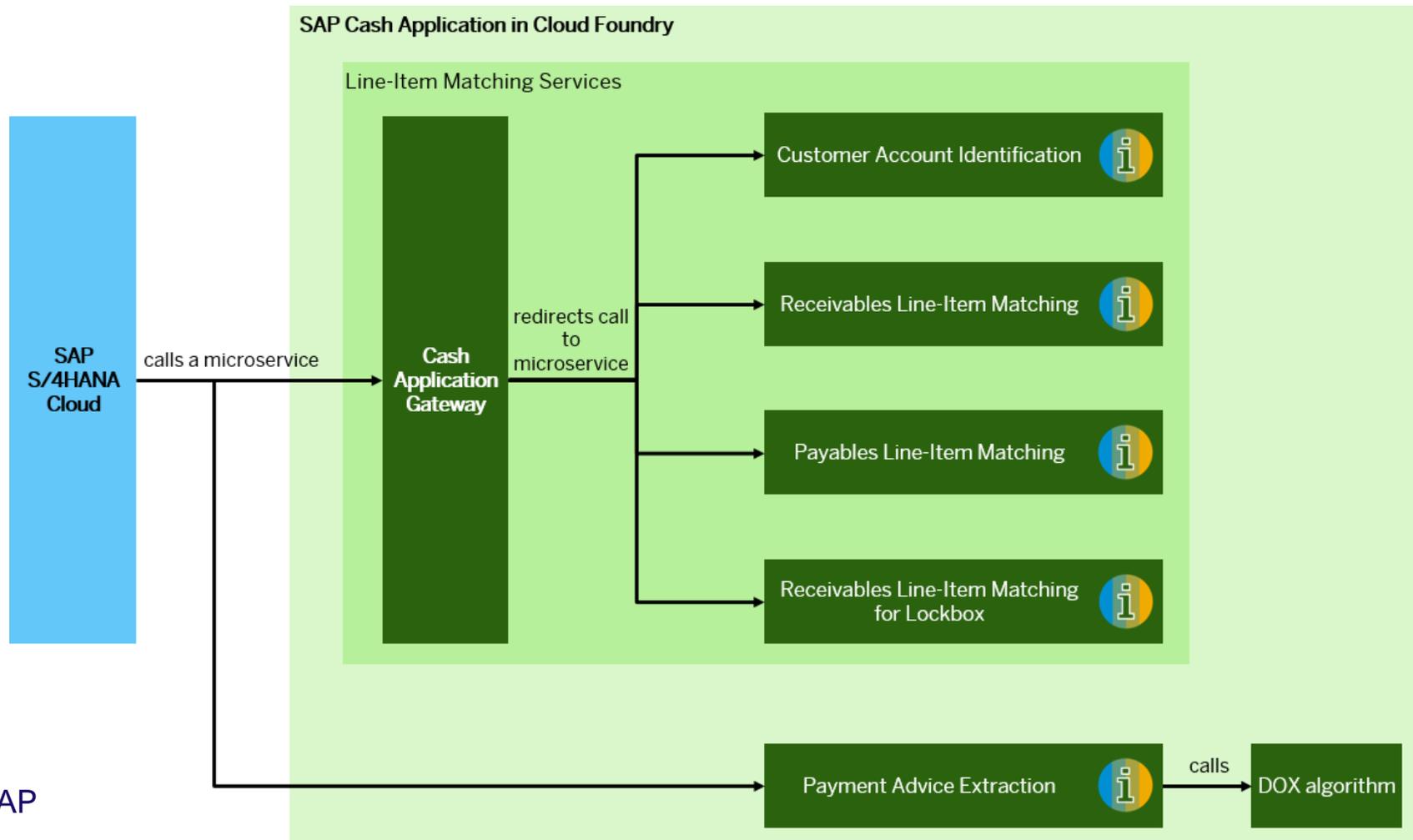


SAP Cash Application - Process



Source: SAP

SAP Cash Application - Microservices



Source: SAP

SAP Cash Application - Benefits

Powered by SAP AI to create Machine Learning rules

Covers gaps where existing matching rules can't find a match

Can process large volumes of open items

Can handle scenarios with incomplete or missing data

e.g. partial account number

Can process payments with a high degree of complexity

e.g. matching single payment for multiple customers invoices

Can extract Payment Advice details that can be used for matching

Can country- and region-specific settings

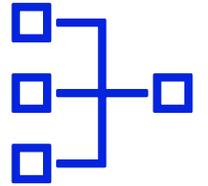


SAP Cash Application – Implementation Steps

- Validate Prerequisites
- Setup SAP Business Technology Platform Global and Subaccount
- Create SAP BTP Cockpit Service Instance and Key
- Activate Machine Learning in IMG
- Create RFC Destinations
- Send Training Data to SAP Cash Application/BTP Model Manager from SAP GUI
- Activate Model in BTP Model Manager
- Send Open Items to Cash App
- Inference Cash Application to receive results



SAP Cash Application – Activate Machine Learning in IMG



- > Personnel Management
- > Time Management
- > Payroll
- > Enterprise Contract Management
- > Training and Event Management
- > Service
- > Explosives Management for SCM Extended Warehouse Management
- > Joint Venture Accounting
- ▼ **Integration with Other SAP Components**
 - > Business Network Integration
 - > Business Network Integration
 - > Integration with SAP Cloud for Customer
 - > Integration for Purchasing
 - > SAP Localization Hub, tax service
 - > Advanced Planning and Optimization
 - > Integration with Governance, Risk and Compliance
 - ▼ **Machine Learning Integration**
 - ▼ **SAP Cash Application**
 - 🔗 ⌚ **Basic Settings**
 - 🔗 ⌚ Set Target Accuracy at Company-Code Level
 - > Manage Payment Advices SAP Fiori App

Transaction SPRO

Basic Settings of SAP Cash Application

Machine Learning Enabled?

Target Accuracy for Proposal (%): 80.0000

Target Auto-Clear Accuracy (%): 100.00

Training Period (in months): 6

Data Upload Limit (in MB): 100MB

Polling Settings

Number of Open Bank Statement Items (per batch): 100

Number of Attempts: 12 attempts

Time Delay (in minutes): 5 minutes

SAP Cash Application – Send Training Data to SAP Cash App

The Machine Learning model needs to be trained using your historic AR cash application data.

This will also create a “model” in the Model Manager in SAP BTP3

Use transaction SE38 run following 3 programs in sequence:

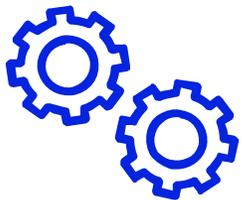
1. ML_CASH_APP_JOB_STATUS_DP
2. ML_CASH_APP_DATA_POST
3. ML_CASH_APP_JOB_STATUS_DP

The image displays three screenshots of the SAP SE38 transaction interface, illustrating the configuration steps for running the ML_CASH_APP_JOB_STATUS_DP program.

Top Screenshot (Program ML_CASH_APP_JOB_STATUS_DP): Shows the 'Processing Type' section with 'In progress' selected. The 'Activation scope (cannot be changed)' section has 'Incoming' selected.

Middle Screenshot (Post open invoice or training data in CSV to CAI server): Shows the 'Type of Data' section with 'Incoming Payment' selected. The 'Type of Data' section has 'Training Data' selected. The 'Selections for Open Invoice Data' section includes fields for Company Code, Document Number, Fiscal Year, Posting Date, and Customer.

Bottom Screenshot (Program ML_CASH_APP_JOB_STATUS_DP): Shows the 'Processing Type' section with 'Complete' selected. The 'Activation scope (cannot be changed)' section has 'Incoming' selected.



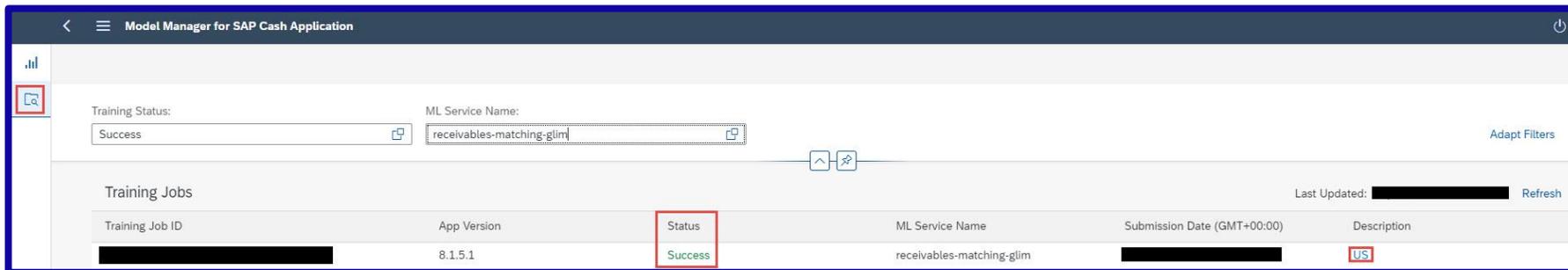
SAP Cash Application – Activate Model in BTP Model Manager

Using your SAP BTP account open the SAP Cash Application app.

Here you will find the Model Manager to view the Training Job Statuses and to Activate the ML Model.

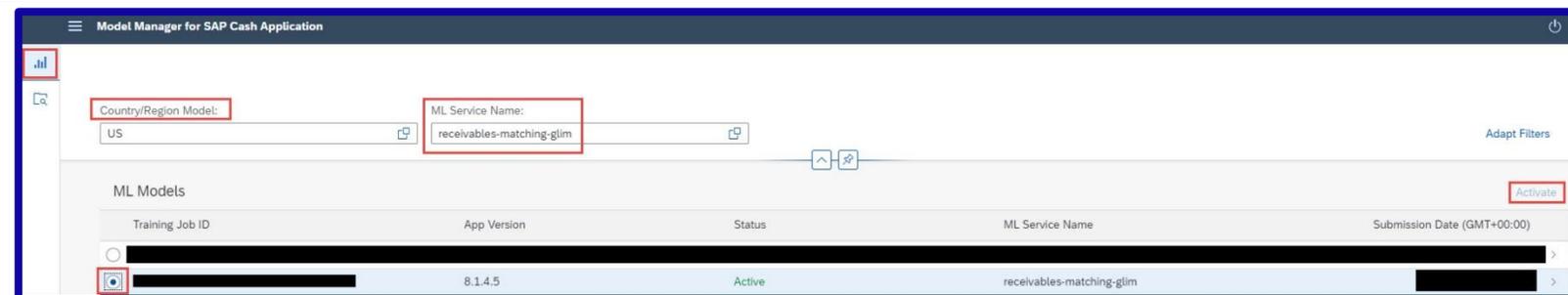
First select the Training Runs tab on the left side of the window confirm Success status

Activate your model, be sure that you are in the ML Models tab.



The screenshot shows the 'Model Manager for SAP Cash Application' interface. The 'Training Status' dropdown is set to 'Success'. The 'ML Service Name' is 'receivables-matching-glim'. The 'Training Jobs' table is displayed with the following data:

Training Job ID	App Version	Status	ML Service Name	Submission Date (GMT+00:00)	Description
[REDACTED]	8.1.5.1	Success	receivables-matching-glim	[REDACTED]	US



The screenshot shows the 'Model Manager for SAP Cash Application' interface. The 'Country/Region Model' dropdown is set to 'US'. The 'ML Service Name' is 'receivables-matching-glim'. The 'ML Models' table is displayed with the following data:

Training Job ID	App Version	Status	ML Service Name	Submission Date (GMT+00:00)
[REDACTED]	8.1.4.5	Active	receivables-matching-glim	[REDACTED]

SAP Cash Application – Send Open Items to Cash Application

Before running Inference on the model, we need to make sure that the model has all current Open Items.

Using transaction SE38 run program ML_CASH_APP_DATA_POST

Choose Incoming Payment and Open Invoices radio buttons

Selections for Open Invoice Data are optional

The screenshot displays the SAP configuration interface for the program ML_CASH_APP_DATA_POST. At the top, the title bar reads "Post open invoice or training data in CSV to CAI server". Below this, there are navigation options: "Save as Variant...", "Get Variant...", and "More".

The main configuration area is divided into sections:

- Type of Data:** This section contains two radio button options. The first is "Incoming Payment:" which is selected (indicated by a filled circle) and highlighted with a red box. The second is "Outgoing Payment:" which is unselected (indicated by an empty circle).
- Type of Data:** This section contains two radio button options. The first is "Open Invoice Data:" which is selected (indicated by a filled circle) and highlighted with a red box. The second is "Training Data:" which is unselected (indicated by an empty circle).
- Selections for Open Invoice Data:** This section is highlighted with a red box and contains five rows of input fields, each with a "to:" field and a search icon (magnifying glass):
 - Company Code: [] to: []
 - Document Number: [] to: []
 - Fiscal Year: [] to: []
 - Posting Date: [] to: []
 - Customer: [] to: []

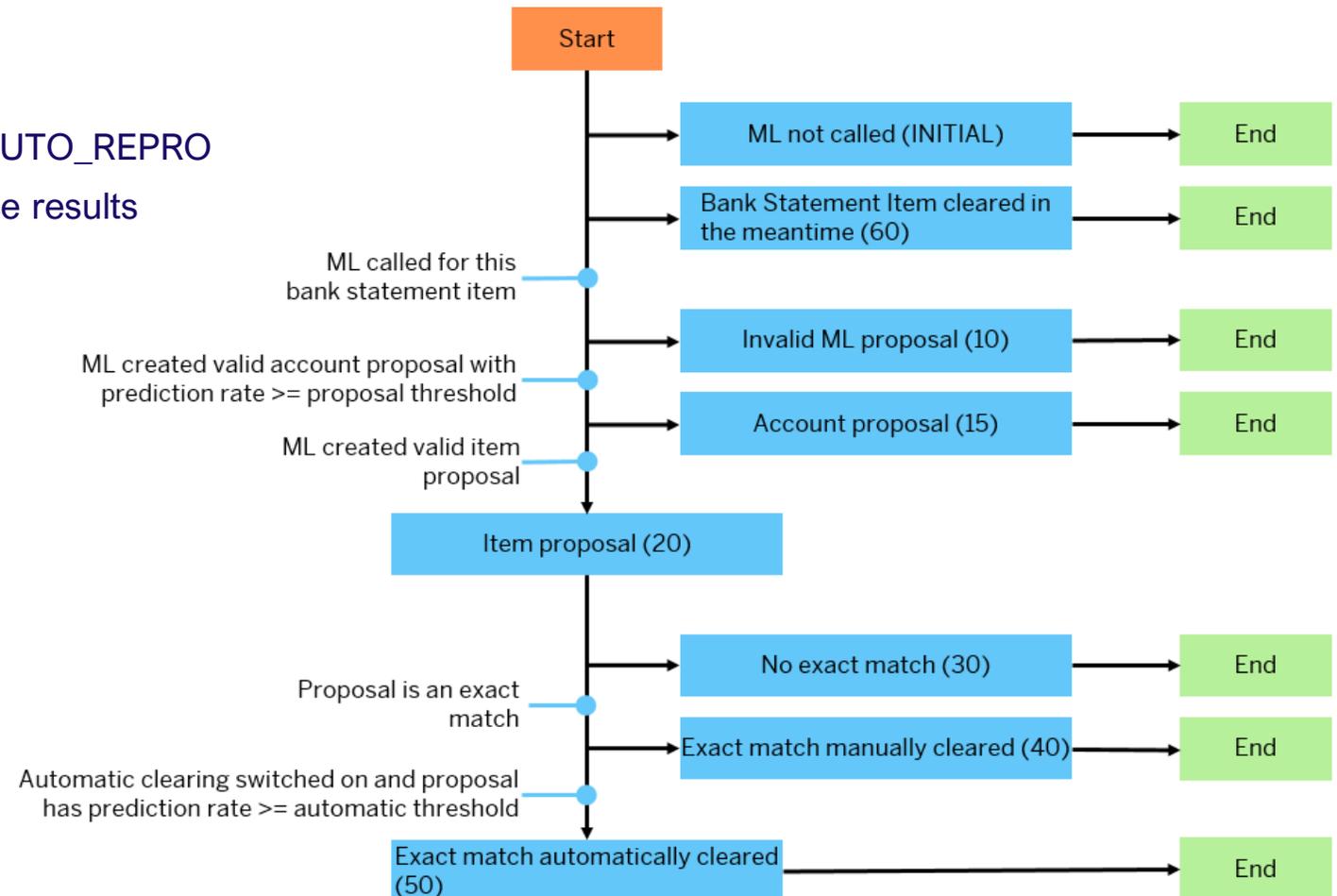
SAP Cash Application – Send Open Bank Statements for Inference

Using transaction SE38 run program RFEBKA_AUTO_REPRO

Using transaction FEB_BSPROC review Inference results

There are several possible outcomes:

- The inference result isn't complete
- The inference job runs and the inference result returns no proposal.
- The inference job runs and the inference result returns a proposal. Will auto-clearing parameter based on configuration



Source: SAP

Tracing Clearing Documents

Display Document: Line Item 3

Customer 8004 GLOBAL WARMERS (JV PARTNER) G/L acct 12200200
 Company code 1710 Street
 Company Code 1710 City Doc. No. 1300000002

Line Item 3 / Cash Calls Due / 2A K
 Amount 4,000,000.00 USD

Additional Data

Due on	04/01/2023	Bus. Area	
Pmnt block		Pmnt/c amnt	0.00
Payment cur.		CD Amount	0.00
Payt Method		Network	
Payment Ref.		Cost Center	
Disc.perc.	0.000	Profit Ctr	
Order		WBS Element	
Asset			
Purch.Doc.	0 0	Collect Inv.	0
Sales Doc.	0 0		
Fnds res.	0		
Contract			
Clearing	04/05/2023 / 1400009437		
Assignment			
Text	JV2001 Cash Call April 2023		

Tracing Clearing Documents — Forwards

Tracing a clearing document forward is simple – just double-click on the clearing document number

Display Document: Data Entry View

Display Currency General Ledger View

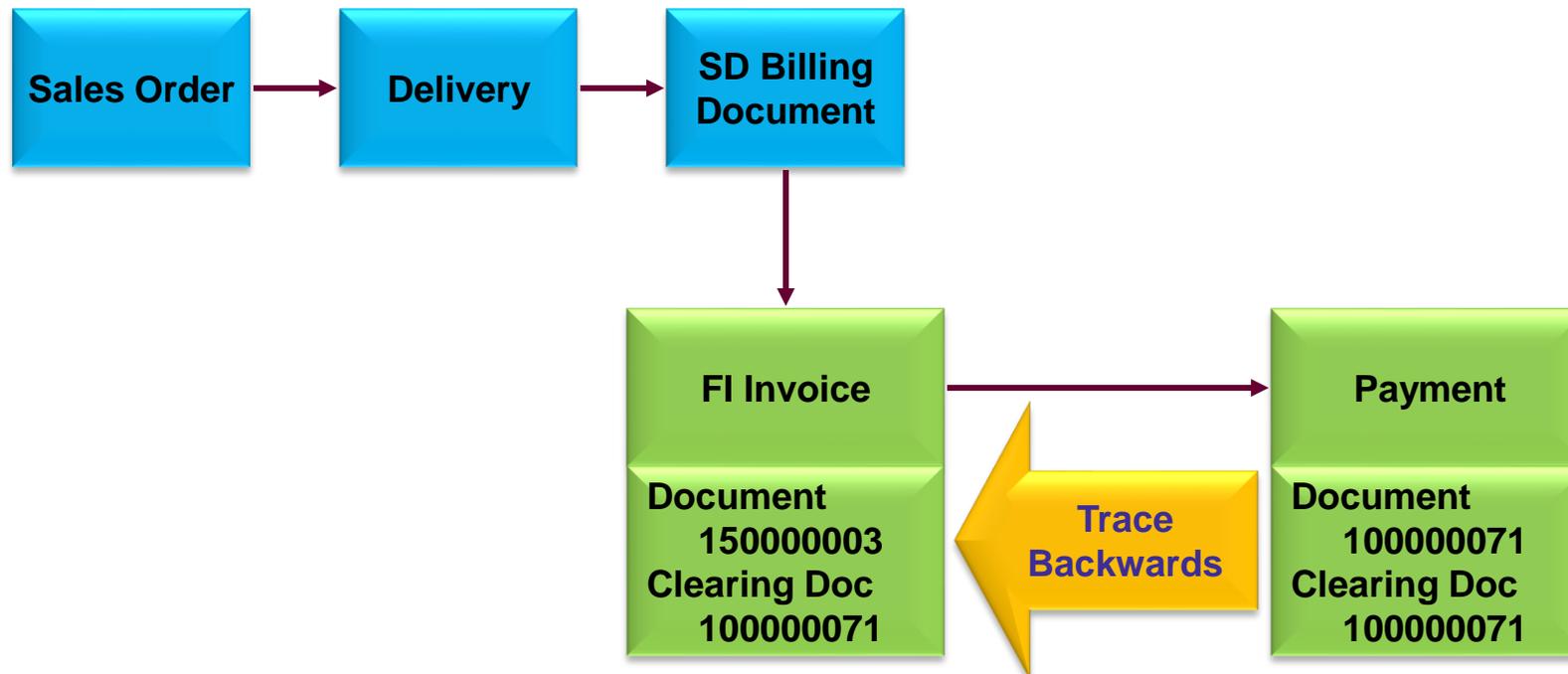
Data Entry View

Document Number	1400009437	Company Code	1710	Fiscal Year	2023
Document Date	04/05/2023	Posting Date	04/05/2023	Period	4
Reference	JV CASH CALL	Cross-Comp.No.			
Currency	USD	Texts Exist	<input type="checkbox"/>	Ledger Group	

CoCd	Item	Account	SGDescription	Loc.curr.amount	LCurr	Amount	Curr.
1710	1	11001000	Bank1 Main Account	4,000,000.00	USD	4,000,000.00	USD
	2	8004	K GLOBAL WARMERS (JV PAR...	4,000,000.00-	USD	4,000,000.00-	USD

Tracing Clearing Documents - Backwards

What if you want to go backwards? (i.e., the document number and the clearing document number are the same and you are viewing the document that performed the clearing)



Tracing Clearing Documents — Backwards

If you double-click on the clearing document number, you stay in the same screen



Display Document: Line Item 2

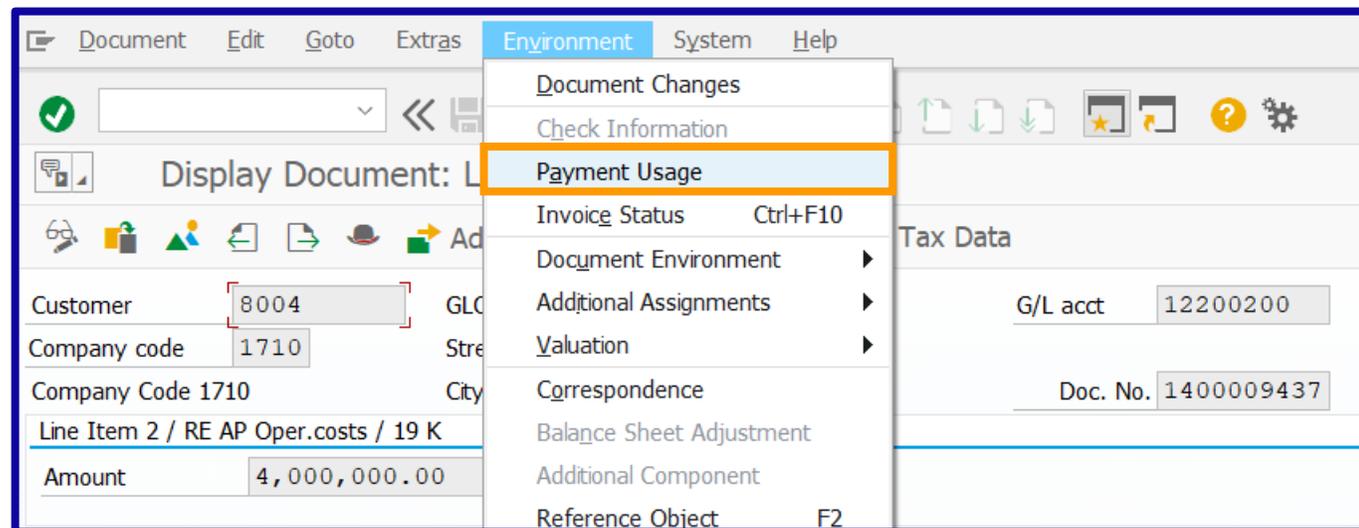
Additional Data Withholding Tax Data

Customer	8004	GLOBAL WARMERS (JV PARTNER)	G/L acct	12200200
Company code	1710	Street		
Company Code 1710		City		Doc. No. 1400009437
Line Item 2 / RE AP Oper.costs / 19 K				
Amount	4,000,000.00	USD		
Additional Data				
Due on	04/05/2023	Bus. Area		
Pmnt block		Flow Type		
Payt Method				
Disc.perc.	0.000	CD Amount	0.00	USD
Order		Network		/
Asset		Cost Center		
Purch.Doc.		Profit Ctr		
Sales Doc.		WBS Element		
Contract		Collect.Inv.	0	
Clearing	04/05/2023 /		1400009437	
Assignment		Dwn pmnt tr.		/ / 000
Text	JV CASH CALL			Long Text

Tracing Clearing Documents — Reverse Search

What if you want to go backwards (i.e., the document number and the clearing document number are the same and you are viewing the document that performed the clearing)?

From the Overview screen, choose Environment → Payment Usage





Tracing Clearing Documents — Clearing Document List

A list of clearing line items will be displayed

You can double-click on the item to see the line item detail

Cleared Line Items for Document 1710 1400009437 2023

Customer 8004
Company Code 1710
Name GLOBAL WARMERS (JV PARTNER)
City City

St	Assignment	DocumentNo	Typ	Doc..Date	S	DD	Local CrCY Amt	LCurr	Clrng doc.	Text
<input type="checkbox"/>		1300000002	JV	04/01/2023	K		4,000,000.00	USD	1400009437	JV2001 Cash Call April 2023
<input type="checkbox"/>		1400009437	DZ	04/05/2023	K		4,000,000.00-	USD	1400009437	JV CASH CALL
*							0.00	USD		
** Account 8004							0.00	USD		

Simplify Document Display With Enhanced Number Ranges

Enhanced Number Ranges — Issue

Sometimes, when trying to display a FI document you will get a pop up to select the fiscal year

The screenshot shows the 'Display Document: Initial Screen' interface. It includes a 'Document List' icon, 'First Item' navigation, and 'Editing Options'. A 'Keys for Entry View' table is visible, with the 'Fiscal Year' field currently empty. A 'Choose year' dialog box is open, displaying a list of years from 2016 to 2024. The year 2024 is highlighted, and its 'Archived' checkbox is unchecked. The year 2016 is checked. At the bottom of the dialog are 'Choose' and 'Cancel' buttons.

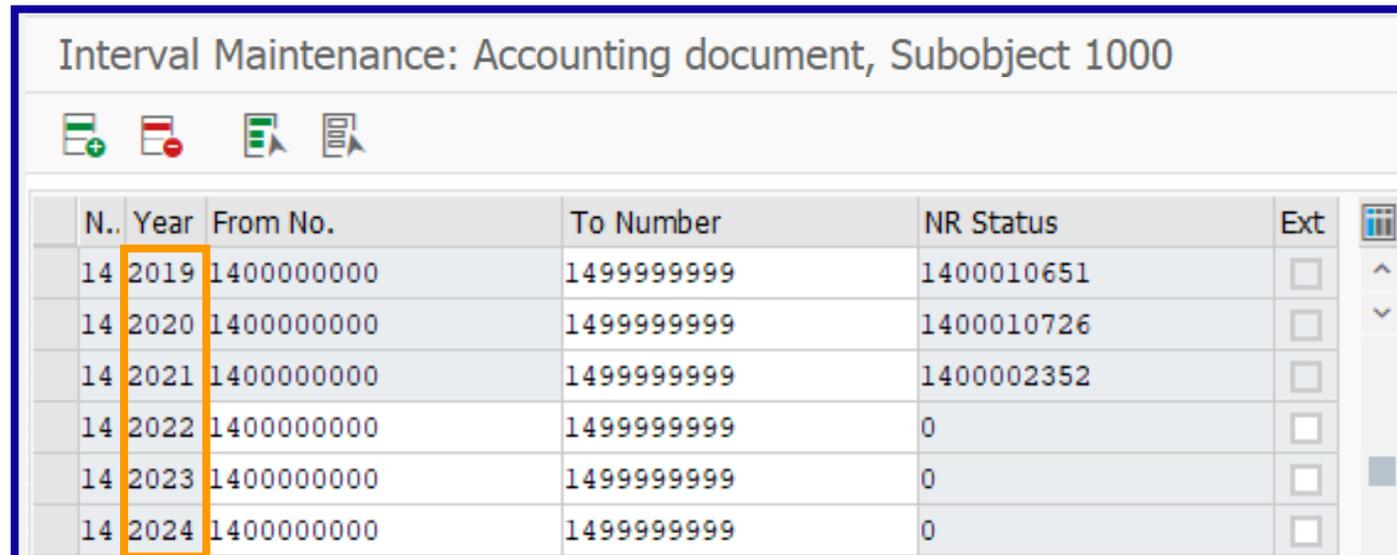
Year	Archived
2024	<input type="checkbox"/>
2023	<input type="checkbox"/>
2022	<input type="checkbox"/>
2021	<input type="checkbox"/>
2020	<input type="checkbox"/>
2019	<input type="checkbox"/>
2018	<input type="checkbox"/>
2017	<input type="checkbox"/>
2016	<input checked="" type="checkbox"/>

Enhanced Number Ranges — Cause

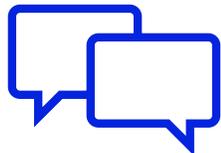
You get this pop-up because document number 1400000000 occurs in multiple fiscal years for company code 1000

This is due to FI number range configuration, transaction FBN1, using the same number range each year

Interval Maintenance: Accounting document, Subobject 1000



N.	Year	From No.	To Number	NR Status	Ext
14	2019	1400000000	1499999999	1400010651	<input type="checkbox"/>
14	2020	1400000000	1499999999	1400010726	<input type="checkbox"/>
14	2021	1400000000	1499999999	1400002352	<input type="checkbox"/>
14	2022	1400000000	1499999999	0	<input type="checkbox"/>
14	2023	1400000000	1499999999	0	<input type="checkbox"/>
14	2024	1400000000	1499999999	0	<input type="checkbox"/>



Enhanced Number Ranges — Solution

There are two possible solutions:

1. Use two digits within the number range to signify the year
2. Use a year independent number range





Enhanced Number Ranges — Two Digits for Year

Configure the number range with a two-digit year in FBN1

With this setting, you will never get the fiscal year pop up, since the document number will belong to a unique fiscal year
One disadvantage is that you restrict the size of your number range, in this example, to only 1,000,000 numbers per year

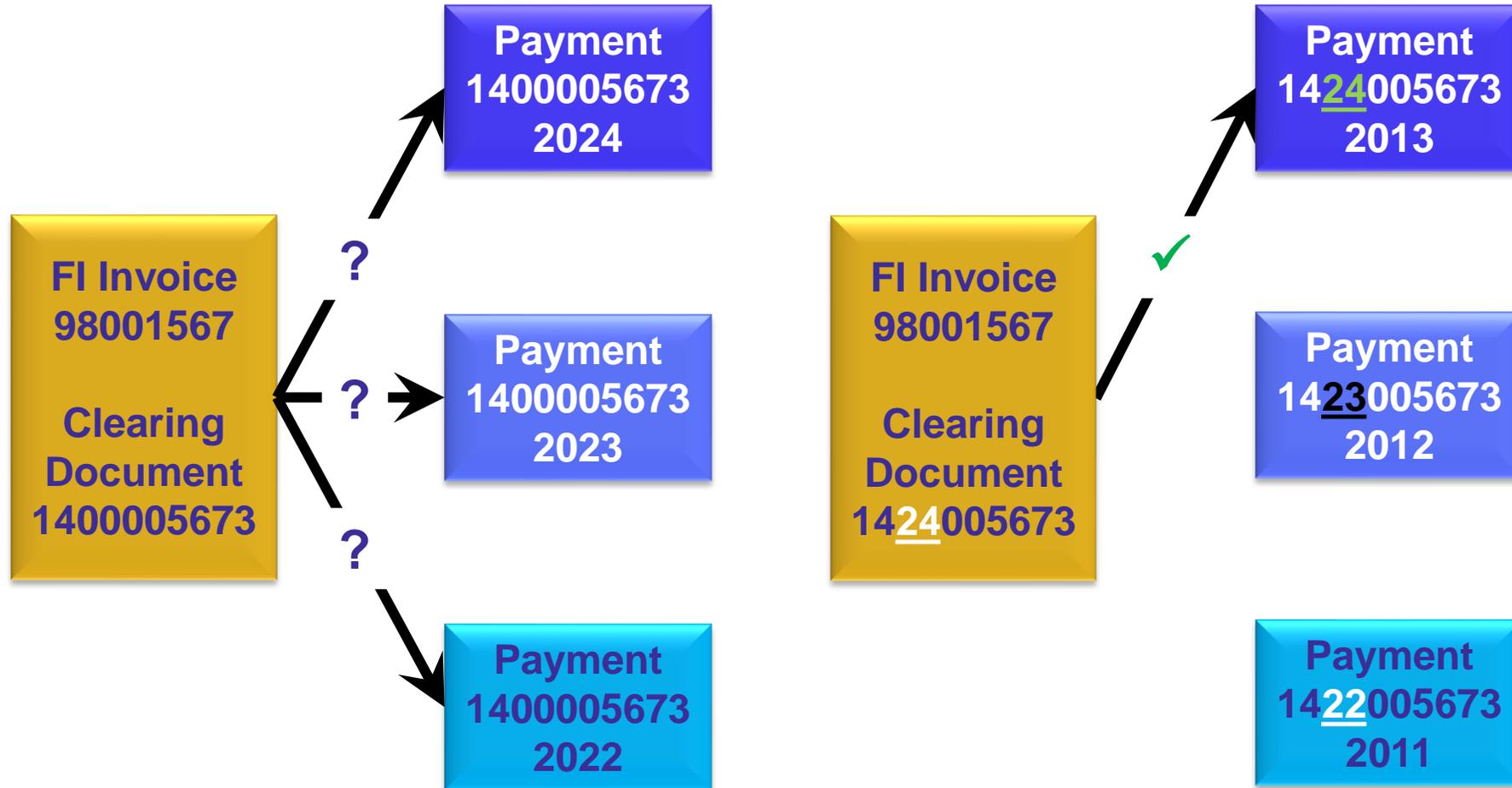
Interval Maintenance: Accounting document, Subobject 1000						
No	Year	From No.	To Number	NR Status	Ext	
14	2019	1419000000	1419999999	0	<input type="checkbox"/>	
14	2020	1420000000	1420999999	0	<input type="checkbox"/>	
14	2021	1421000000	1421999999	0	<input type="checkbox"/>	
14	2022	1422000000	1422999999	0	<input type="checkbox"/>	
14	2023	1423000000	1423999999	0	<input type="checkbox"/>	
14	2024	1424000000	1424999999	0	<input type="checkbox"/>	



Normal Number Ranges

Enhanced Number Ranges

Enhanced Number Ranges — Mapping



Enhanced Number Ranges — Single Cross Year Number Range

Configure number range with year 9999

Number sequence continues regardless of year

No document numbers duplicated in different years

Interval Maintenance: Accounting document, Subobject 1000

No	Year	From No.	To Number	NR Status	Ext
12	9999	1200000000	1299999999	0	<input type="checkbox"/>
13	9999	1300000000	1399999999	0	<input type="checkbox"/>
14	9999	1400000000	1499999999	0	<input type="checkbox"/>
15	9999	1500000000	1599999999	0	<input type="checkbox"/>

You do not need to set up number ranges each year with this option



Solution



Enhanced Number Ranges — Change Fiscal Year

Many account settings that appear to be set at go-live can be changed post go-live with conversion services

Fiscal year

For example, change periods, new start date

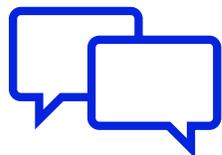
Chart of accounts reorganization

For example, four-digit to six-digit CoA

Group currency activation

The change will require a conversion project

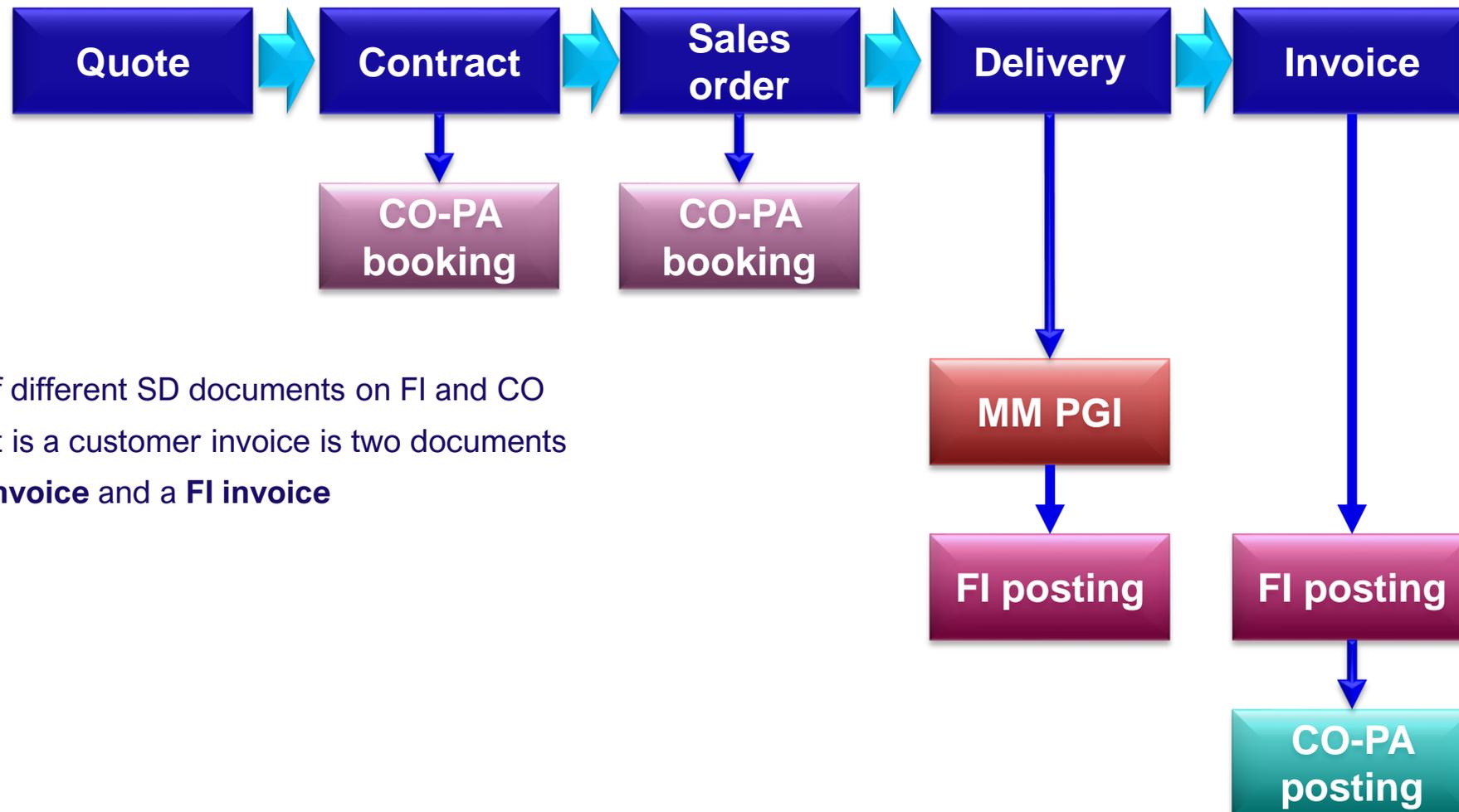
But is much cheaper and quicker than re-implementing SAP



You need to call SAP or a specialist consulting firm to make the change for you

Detecting SD to FI Invoice Transfer Errors

SD to FI Invoice Transfer Errors - Introduction



SD to FI Invoice Transfer Errors - Overview

An invoice is actually two documents:

- SD billing document

- FI invoice

Document Flow

Status Overview Display Document Service Documents Additional Links

Business Partner USCU_L10 CostClub

Document	On	Status
Standard Order 0000030589	02/02/2017	Completed
Outbound Delivery 0080019325	02/02/2017	Completed
Invoice 0090015888	02/02/2017	Completed
Accounting Document 0090015888	02/02/2017	Cleared

To ensure integrity of the revenue stream, both documents must be created correctly

- Customer non-payment monitoring uses the FI invoice

- AR aging report

- Payment is matched to the FI invoice

- Customer invoicing is based on the SD billing document

- Adobe Forms or SAPscript invoice printing

- Electronic Data Interchange (EDI) invoice transmission



SD to FI Invoice Transfer Errors – Billing Batch Job Log

Creation of the SD billing document is monitored via the SD billing log, transaction V.21

Log of Collective Run

No. of collective run

Number of Collective Run to

Type of Coll. Run

Shipping Point to

Started By to

On to

List selection

With Notes
 With Created Documents
 Without Cancelled Runs

Log of Collective Run

Documents

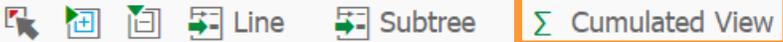
Group	Created by	Created on	No.	Err.
1000000001	CONTROLLER	02/05/2016	4	
1000000006	JONESD	03/21/2016	13	
1000000007	JONESD	03/21/2016	12	
1000000008	JONESD	03/21/2016	13	
1000000009	JONESD	03/21/2016	12	
1000000010	JONESD	03/22/2016	13	
1000000011	JONESD	03/22/2016	13	

Click on the Notes button to see the detail

SD to FI Invoice Transfer Errors – Cumulated View

If there are many errors in the notes view, click on Cumulated view for a summary by error type

Log of Collective Run


Line Subtree **Σ Cumulated View**

Error Log for coll. run 1000000056

0080003465	000010	Order	0000004230	is blocked for billing.
0080003687	000010	Order	0000004279	is blocked for billing.
0080003966	000010	Order	0000004648	is blocked for billing.
0080003967	000010	Order	0000004649	is blocked for billing.
0080003968	000010	Order	0000004650	is blocked for billing.
0080003975	000010	Order	0000004662	is blocked for billing.
0080007416	000010	Order	0000008186	is blocked for billing.
0080007417	000010	Order	0000008187	is blocked for billing.
0080018460	000010	Order	0000029664	is blocked for billing.
0080018472	000010	Order	0000029674	is blocked for billing.
0080018476	000010	Order	0000029720	is blocked for billing.

Log of Collective Run

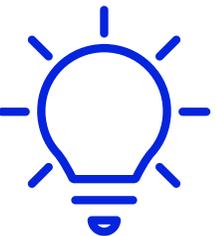

Line Subtree **▲ Individual view**

Error Log for coll. run 1000000056 (cumulative view)

```

└─┬─ Σ = 11 VF 064 <VAR1> <VAR2> is blocked for billing.

```



SD to FI Invoice Transfer Errors – Missing FI Invoice

An SD billing document can be created, but an FI invoice is not

In this case the error will show once in the billing error log but will not repeat, as the SD billing document is complete

Fiscal period is closed

Missing revenue account determination

If the SD billing document could not be created at all, this will appear in every run of the billing log until the SD billing document is created

SD doc flow should be as follows:

▼  ➔ Invoice 0090015888	02/02/2017 Completed
▪  Accounting Document 0090015888	02/02/2017 Cleared

SD to FI Invoice Transfer Errors – Detect Missing FI Invoices

Missing FI invoices for SD billing documents can be detected with transaction VFX3



Release Billing Documents for Accounting

DisplayVariants

Payer to

Organizational Data

Sales Organization

Creation Data

Created By to

Created On to

Document Info

SD Document to

Billing Type to

Billing Category to

Incomplete due to

- Accounting Block
- Error in accounting interface
- Pricing Error
- Foreign Trade data
- Error in Authorization

Output Data for Batch Processing

- List Display
- Issue collective processing log

SD to FI Invoice Transfer Errors - Interface Error Details

The report lists the SD billing documents and shows details of the interface errors

For more detailed information on FI/CO interface errors, select the line item and click on the “release to accounting” button

Messages will be output to the notes log

Release Billing Documents for Accounting



SOrg.	Payer	BlCat	Billing date	BillT	Created	Created on	Sold-to party	Billing Doc.	PsSt	S	Char	Billing Type	Name of the payer	Name of sold-to party	Incompl. due to	Stat
1710	L_17100009	L	03/24/2016	F2	C5242351	03/24/2016	L_17100009	90000308			Delivery-related billing document	Invoice	Move by Bike	Move by Bike	FI/CO interface	
1710	17100001	L	04/21/2016	S1	C5197861	04/21/2016	17100001	90000542			Delivery-related billing document	Cancel. Invoice (S1)	Domestic US Customer 1	Domestic US Customer 1	FI/CO interface	
1710	17100001	L	04/21/2016	S1	C5197861	04/21/2016	17100001	90000544			Delivery-related billing document	Cancel. Invoice (S1)	Domestic US Customer 1	Domestic US Customer 1	FI/CO interface	
1710	17100001	L	04/21/2016	S1	C5197861	04/21/2016	17100001	90000546			Delivery-related billing document	Cancel. Invoice (S1)	Domestic US Customer 1	Domestic US Customer 1	FI/CO interface	
1710	17100001	L	04/21/2016	S1	C5197861	04/21/2016	17100001	90000548			Delivery-related billing document	Cancel. Invoice (S1)	Domestic US Customer 1	Domestic US Customer 1	FI/CO interface	
1710	17100001	L	04/27/2016	S1	INTSALES	04/27/2016	17100001	90000578			Delivery-related billing document	Cancel. Invoice (S1)	Domestic US Customer 1	Domestic US Customer 1	FI/CO interface	
1710	17100001	L	04/27/2016	S1	INTSALES	04/27/2016	17100001	90000580			Delivery-related billing document	Cancel. Invoice (S1)	Domestic US Customer 1	Domestic US Customer 1	FI/CO interface	
1710	17100001	L	04/27/2016	S1	C5197861	04/27/2016	17100001	90000582			Delivery-related billing document	Cancel. Invoice (S1)	Domestic US Customer 1	Domestic US Customer 1	FI/CO interface	
1710	17100001	L	04/27/2016	S1	C5197861	04/27/2016	17100001	90000584			Delivery-related billing document	Cancel. Invoice (S1)	Domestic US Customer 1	Domestic US Customer 1	FI/CO interface	
1710	17100001	L	04/27/2016	S1	C5197861	04/27/2016	17100001	90000586			Delivery-related billing document	Cancel. Invoice (S1)	Domestic US Customer 1	Domestic US Customer 1	FI/CO interface	
1710	17100001	L	04/27/2016	S1	C5197861	04/27/2016	17100001	90000588			Delivery-related billing document	Cancel. Invoice (S1)	Domestic US Customer 1	Domestic US Customer 1	FI/CO interface	
1710	17100001	L	04/27/2016	S1	C5197861	04/27/2016	17100001	90000590			Delivery-related billing document	Cancel. Invoice (S1)	Domestic US Customer 1	Domestic US Customer 1	FI/CO interface	
1710	17100001	L	04/27/2016	S1	C5197861	04/27/2016	17100001	90000592			Delivery-related billing document	Cancel. Invoice (S1)	Domestic US Customer 1	Domestic US Customer 1	FI/CO interface	

✓ Please check the notes in the log



SD to FI Invoice Transfer Errors - Release to Accounting Messages

After pressing the “Release to accounting” button the detailed error message be shown in the note log

Release Billing Documents for Accounting												
SOrg.	Payer	BlCat	Billing date	BillT	Created	Created on	Sold-to party	Billing Doc.	PsSt	S	Char	Billing Type
1710	L_17100009	L	03/24/2016	F2	C5242351	03/24/2016	L_17100009	90000308			Delivery-related billing document	Invoice

This is the same error messages that will be shown if you go to VF02 and select “Release to accounting”

Release Billing Documents for Accounting	
Error Log	
	0090000592 000000 You are not allowed to enter a tax jurisdiction code for company code 1710



SD to FI Invoice Transfer Errors - Most Common Error Messages

Billing date in closed fiscal period

The billing date defaults to the delivery date, which could be in a closed fiscal period

```

Error Log
├─ [ ] 007124645 000000 Document 0007124645 saved (no accounting document generated)
└─ [ ] 007124645 000000 Posting period 011 2024 is not open
  
```

G/L Account is blocked

Also, errors in revenue account determination does not select a G/L account

```

Error Log
├─ [ ] 0097550861 000000 Document 0097550861 saved (no accounting document generated)
└─ [ ] 0097550861 000000 Account 10011095 is blocked for posting
  
```

Pricing error

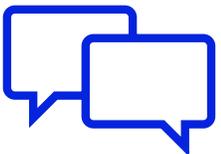
Usually impacts revenue account determination

```

Error Log
├─ [ ] 0080032549 000000 Document 0080032549 has been saved (pricing error)
  
```

In all these cases, the SD billing document is created

But no FI document is created





SD to FI Invoice Transfer Errors - Error Correction

You will need to update the SD document using VF02
 If the FI document has not posted, a few fields are still open for change

Billing date, customer account assignment, material account assignment group, tax fields, etc.

Billing Invoice 90000308 (F2) Change : Header Data

Billing Items Accounting Output

F2 Invoice 90000308
 Payer I_17100009 Move by Bike / 25500 W. Southern Ave / Buckeye AZ 85326
 Created by C5242351 Created on 03/24/2016 Time 06:34:52

Header Detail Header Partners Conditions Header Texts

Accounting Data

Billing date	03/24/2016	Document currency	USD
Company Code	1710	Set Exchange Rt	<input type="checkbox"/>
Reference	0090000308	Exchg. Rate Acctg.	1.00000
Assignment		Payment Method	
Trading partner		Dunning Area	
Fixed Value Date		Dunning Key	
Addit. Value Days	0	Dunning Block	Not blocked
Account AssignmentGp	01 Domestic Revenues		
Posting Status	Error in Accounting Interface		

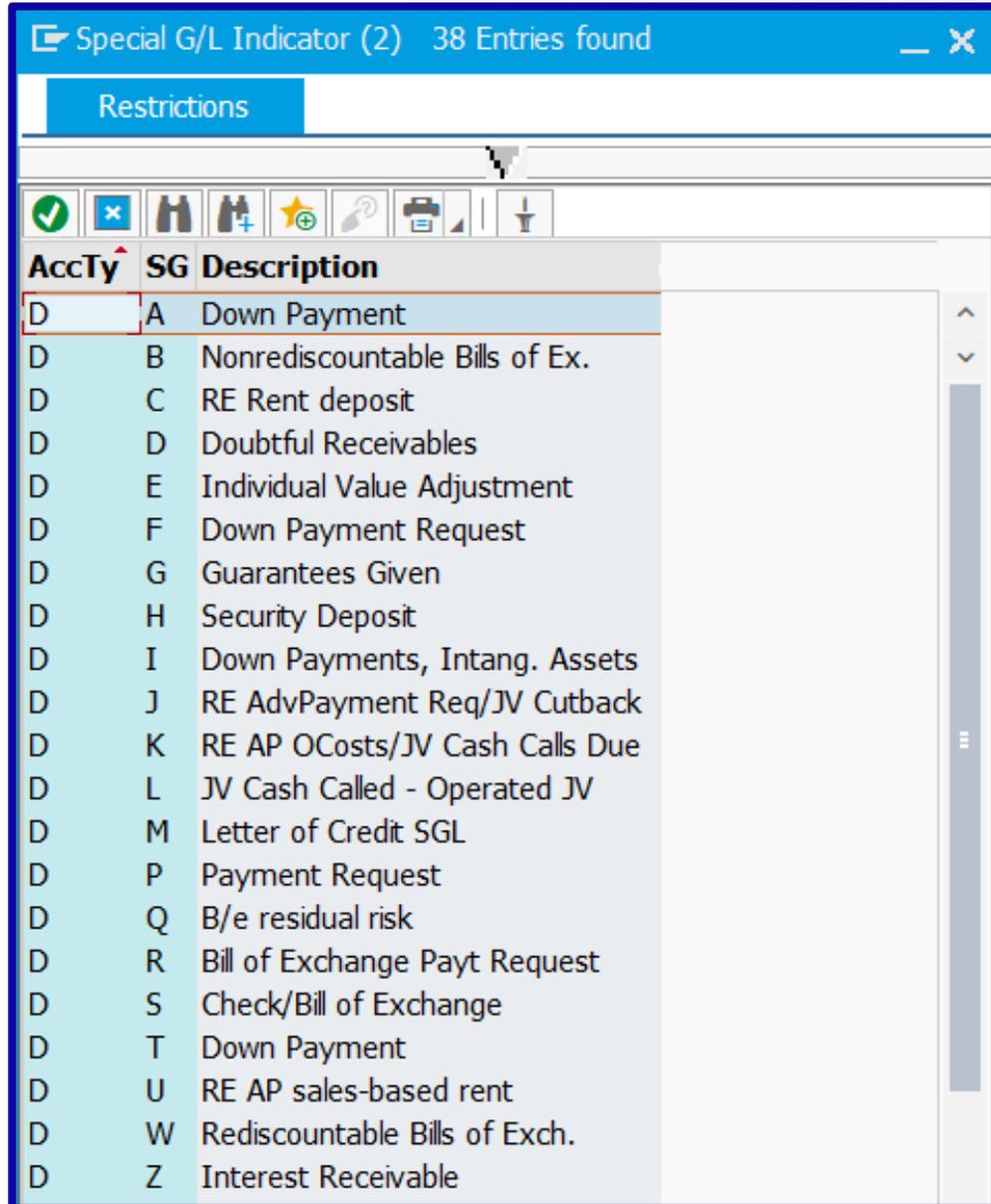
Taxes

Destination Country	US	Region	AZ
TaxClass1-Cust.	1	County code	
VAT Registration No.		City code	
Country Sls Tax No.	US		
Origin Sls. Tax No.	A	Ship-to party	
		EU Triangular Deal	<input type="checkbox"/>

Using Special G/L Indicators Effectively

Special G/L Indicator (2) 38 Entries found

Restrictions



AccTy	SG	Description
D	A	Down Payment
D	B	Nonrediscountable Bills of Ex.
D	C	RE Rent deposit
D	D	Doubtful Receivables
D	E	Individual Value Adjustment
D	F	Down Payment Request
D	G	Guarantees Given
D	H	Security Deposit
D	I	Down Payments, Intang. Assets
D	J	RE AdvPayment Req/JV Cutback
D	K	RE AP OCosts/JV Cash Calls Due
D	L	JV Cash Called - Operated JV
D	M	Letter of Credit SGL
D	P	Payment Request
D	Q	B/e residual risk
D	R	Bill of Exchange Payt Request
D	S	Check/Bill of Exchange
D	T	Down Payment
D	U	RE AP sales-based rent
D	W	Rediscountable Bills of Exch.
D	Z	Interest Receivable

Using Special G/L Indicators Effectively - Introduction

What does a Special G/L Indicator do?

From a business perspective, separates customer payments that are not regular invoice payments

- Down payments

- Bill of exchange

- Guarantee

- Security deposit

- Letter of credit

Allows G/L posting to go to a different reconciliation account

e.g. a Down Payment is really a liability, not an asset like regular AR

Using Special G/L Indicators Effectively— Recon Account

Business Partner	8005	CLIMATE CHANGERS INTL (JV PARTNER) / Los Devilos 9
Display in BP role	FLCU00 Customer (Fin.Accounting)	
Company Code		
Company Code	1710	Company Code 1710
Customer	8005	
Vendor	8005	
Customer: Account Management Customer: Payment Transactions Customer: Correspondence Customer: Insurance		
Account Management		
Reconciliation acct	12200000	Trade Receivables - JV
Head office		

Segregates receivables by reconciliation account

Compare customer master to line item detail

Display Document: Line Item 2			
Customer		8005	CLIMATE CHANGERS INTL (JV PARTNER)
Company code		1710	Street
Company Code 1710		Los Devilos	Doc. No. 1400009441
Line Item 2 / RE AP Oper.costs / 19 K			
Amount	15,000,000.00	USD	G/L acct 12200200



Using Special G/L Indicators Effectively— Data Entry

Use posting key 09 and 19 with Special G/L Indicators

First line item					
PstKy	19	Account	8005	SGL Ind	κ TType

Certain special G/L indicators have related transaction codes

Down payments F-29, F-37, F-39

Bill of exchange F-20, F-33, F-34, F-35, F-36, FBW1, FBW2
FBW5

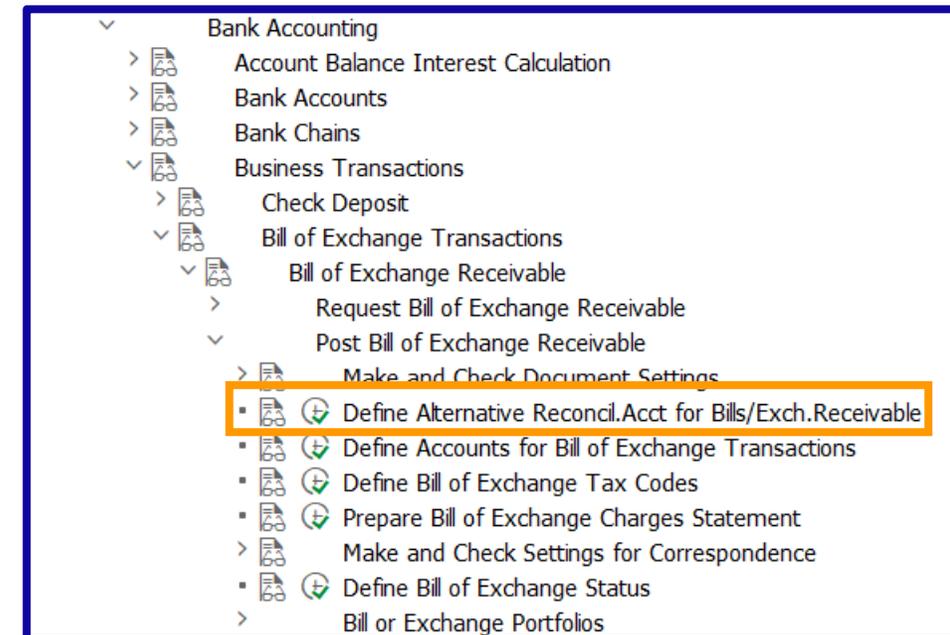
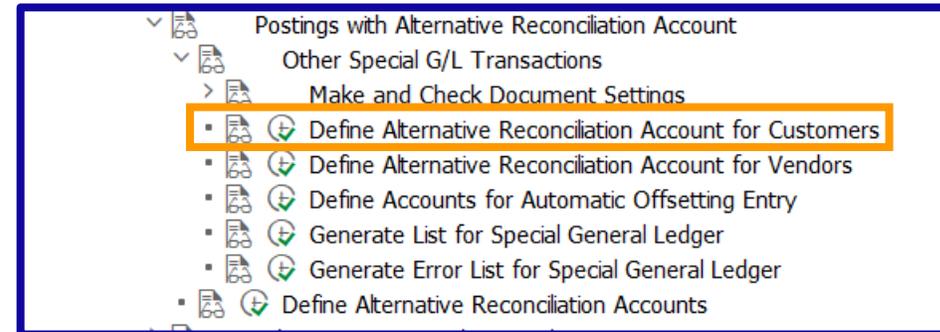
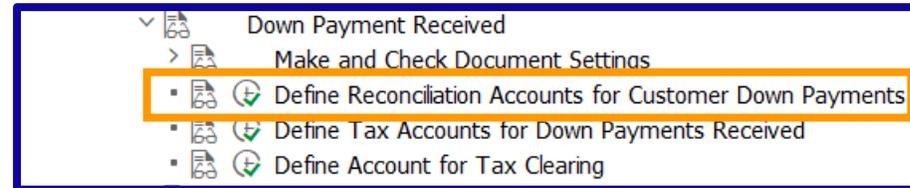
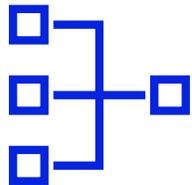


**Cannot clear down payments using regular F-03.
Must use F-39, but can create using regular FB01.**

Using Special G/L Indicators Effectively— Configuration

There are three configuration transactions

- OBXR Down payment related
- OBXY All other Special G/L indicators
- OBYN Bill of exchange related



Using Special G/L Indicators Effectively—Accounts



Use configuration to assign alternate reconciliation accounts

Maintain Accounting Configuration : Special G/L - List

Acct type	Sp.G/LInd.	Name	Description
D	D	Dbt rec	Doubtful Receivables
D	E	IVA	Individual Value Adjustment
D	H	Securit	Security Deposit
D	I	DP, IA	Down Payments, Intang. Assets
D	L	JV CCld	JV Cash Called - Operated JV
D	M	LC SGL	Letter of Credit SGL
D	P	PmntReq	Payment Request

Maintain Accounting Configuration : Special G/L - Accounts

Properties

Chart of Accounts: YCOA Standard Chart of Accounts

Account type: D Customer

Special G/L Ind.: L JV Cash Called - Operated JV

Account assignment

Recon. acct	Special G/L account	Planning level
12200000	12200100	

Maintain Accounting Configuration : Special G/L - Properties

Accounts

Account type: D Customer

Special G/L Ind.: L JV Cash Called - Operated JV

Properties

Noted Item:

Rel.to Credit Limit:

Commitments Warning:

Target Sp.G/L Ind.:

Special G/L transaction types

Down payment/Down payment request

Bill of exchange/Bill request

Others

Posting Key

Debit		Credit	
09	JV Cash Called Oper	19	JV Cash Called Oper
2A	Cash Called	3A	Cash Called
2B		3B	
2C	Res Cash Due Rev	3C	Res Cash Due
2D			

Maintain Accounting Configuration : Special G/L - Properties

Accounts

Account type Customer
 Special G/L Ind. Client Funds

Properties	Special G/L transaction types
Noted Item <input type="checkbox"/>	<input type="radio"/> Down payment/Down payment request
Rel.to Credit Limit <input type="checkbox"/>	<input type="radio"/> Bill of exchange/Bill request
Commitments Warning <input type="checkbox"/>	<input checked="" type="radio"/> Others
Target Sp.G/L Ind. <input type="text"/>	

Posting Key

Debit		Credit	
<input type="text" value="09"/>	<input type="text" value="Client Funds"/>	<input type="text" value="19"/>	<input type="text" value="Clients Funds"/>
<input type="text" value="2A"/>	<input type="text"/>	<input type="text" value="3A"/>	<input type="text"/>
<input type="text" value="2B"/>	<input type="text"/>	<input type="text" value="3B"/>	<input type="text"/>
<input type="text" value="2C"/>	<input type="text"/>	<input type="text" value="3C"/>	<input type="text"/>
<input type="text" value="2D"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

Using Special G/L Indicators Effectively— Custom Codes

Can define custom Special G/L Indicators
 Use numbers 0-9 for customer entries



See Rohana Gunawardena, “What’s So Special About Special G/L Indicators” (*SAPtips*, June 2003).

Using Special G/L Indicators Effectively— Screen

Certain special G/L indicators have special screens

Customer	2500	Adecom SA	G/L Acc	413000
Company Code	2200	ZI Les Echarmeaux		
BestRun France		Montgeron	Doc. no.	100000005
Line Item 1 / Reverse b/e recvble / 19 W				
Amount	6,415.92	FRF	Amount in LC	978.10 EUR
Bill of exchange details				
Due on	06/30/1998	<input type="checkbox"/> Demand bl	Bill/ex.status	<input type="checkbox"/> Plan.usage
Issue date	06/30/1998	<input type="checkbox"/> Accepted	Bill protest ID	<input type="checkbox"/> Pmt Method
			Clearing date	06/18/1997 / 100000005
Drawer	IDES France	Paris		
Drawee	Adecom SA	Longjumeau		
Bank Key	5102903000	Bank Ctry	FR	
Bank Account	23155462310	Control key	77	
Bank name	Caisse d'Epargne			
Additional Data				
Assignment	16000000021997	Bus. Area	7220	Trdg part.BA
Text				



Converting SAP Negative Sign for Excel

Convert SAP Negative Sign for Excel — Introduction

A common problem users have is importing SAP data into Excel and finding that the negative sign at the end is converted to text, not a number

SAP stores the character representation of a negative number with a trailing minus sign, while Excel expects negative numbers to be preceded by the minus sign

The attached Excel macro goes through the selected range and converts any text with a negative sign at the end to a negative number

2,345.66- → -2,345.66



Convert SAP Negative Sign for Excel — Example



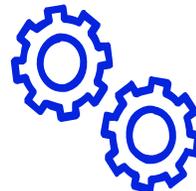
	A	B	C	D	E	F	G	H
1	DocumentNo	BusA Type	Doc..Date	PK	Amount in Local Crcy	LCurr	Tx Clrng doc.	Text
2	1300000014	JV	4/30/2023	2A	6,600,000.00	USD		
3	1300000015	JV	4/30/2023	2A	500,000.00	USD		
4	1300000016	JV	4/30/2023	2A	3,500,000.00	USD		
5	1300000017	JV	4/30/2023	2A	4,400,000.00	USD		
6	1300000018	JV	4/30/2023	2A	500,000.00	USD		
7	1300000019	JV	4/30/2023	2A	1,500,000.00	USD		
8	1300000000	JV	4/1/2023	3A	12,000,000.00-	USD	1300000001	JV2001 Cash Call April 2023
9	1300000000	JV	4/1/2023	3A	8,000,000.00-	USD	1300000001	JV2001 Cash Call April 2023
10	1300000001	JV	4/1/2023	2A	12,000,000.00	USD	1300000001	JV2001 Cash Call April 2023
11	1300000001	JV	4/1/2023	2A	8,000,000.00	USD	1300000001	JV2001 Cash Call April 2023
12	1300000004	JV	4/29/2023	3A	5,000,000.00-	USD	1300000006	
13	1300000005	JV	4/30/2023	2A	5,500,000.00	USD	1300000006	JV Cutback Document
14	1300000006	JV	4/30/2023	19	5,500,000.00-	USD	1300000006	
15	1300000006	JV	4/30/2023	9	5,000,000.00	USD	1300000006	
16	1300000004	JV	4/29/2023	3A	5,000,000.00-	USD	1300000007	
17	1300000005	JV	4/30/2023	2A	5,500,000.00	USD	1300000007	JV Cutback Document
18	1300000007	JV	4/30/2023	19	5,500,000.00-	USD	1300000007	
19	1300000007	JV	4/30/2023	9	5,000,000.00	USD	1300000007	
20	1300000002	JV	4/1/2023	3A	6,000,000.00-	USD	1300000008	JV2001 Cash Call April 2023
21	1300000003	JV	4/30/2023	2A	12,600,000.00	USD	1300000008	JV Cutback Document
22	1300000008	JV	4/30/2023	19	12,600,000.00-	USD	1300000008	
23	1300000008	JV	4/30/2023	9	6,000,000.00	USD	1300000008	
24	1300000006	JV	4/30/2023	2A	500,000.00	USD	1300000009	
25	1300000009	JV	4/30/2023	19	500,000.00-	USD	1300000009	
26	1300000002	JV	4/1/2023	3A	4,000,000.00-	USD	1300000010	JV2001 Cash Call April 2023



	A	B	C	D	E	F	G	H
1	DocumentNo	BusA Type	Doc..Date	PK	Amount in Local Crcy	LCurr	Tx Clrng doc.	Text
2	1300000014	JV	4/30/2023	2A	6,600,000.00	USD		
3	1300000015	JV	4/30/2023	2A	500,000.00	USD		
4	1300000016	JV	4/30/2023	2A	3,500,000.00	USD		
5	1300000017	JV	4/30/2023	2A	4,400,000.00	USD		
6	1300000018	JV	4/30/2023	2A	500,000.00	USD		
7	1300000019	JV	4/30/2023	2A	1,500,000.00	USD		
8	1300000000	JV	4/1/2023	3A	-12,000,000.00	USD	1300000001	JV2001 Cash Call April 2023
9	1300000000	JV	4/1/2023	3A	-8,000,000.00	USD	1300000001	JV2001 Cash Call April 2023
10	1300000001	JV	4/1/2023	2A	12,000,000.00	USD	1300000001	JV2001 Cash Call April 2023
11	1300000001	JV	4/1/2023	2A	8,000,000.00	USD	1300000001	JV2001 Cash Call April 2023
12	1300000004	JV	4/29/2023	3A	-5,000,000.00	USD	1300000006	
13	1300000005	JV	4/30/2023	2A	5,500,000.00	USD	1300000006	JV Cutback Document
14	1300000006	JV	4/30/2023	19	-5,500,000.00	USD	1300000006	
15	1300000006	JV	4/30/2023	9	5,000,000.00	USD	1300000006	
16	1300000004	JV	4/29/2023	3A	-5,000,000.00	USD	1300000007	
17	1300000005	JV	4/30/2023	2A	5,500,000.00	USD	1300000007	JV Cutback Document
18	1300000007	JV	4/30/2023	19	-5,500,000.00	USD	1300000007	
19	1300000007	JV	4/30/2023	9	5,000,000.00	USD	1300000007	
20	1300000002	JV	4/1/2023	3A	-6,000,000.00	USD	1300000008	JV2001 Cash Call April 2023
21	1300000003	JV	4/30/2023	2A	12,600,000.00	USD	1300000008	JV Cutback Document
22	1300000008	JV	4/30/2023	19	-12,600,000.00	USD	1300000008	
23	1300000008	JV	4/30/2023	9	6,000,000.00	USD	1300000008	
24	1300000006	JV	4/30/2023	2A	500,000.00	USD	1300000009	
25	1300000009	JV	4/30/2023	19	-500,000.00	USD	1300000009	
26	1300000002	JV	4/1/2023	3A	-4,000,000.00	USD	1300000010	JV2001 Cash Call April 2023

Convert SAP Negative Sign for Excel — Code

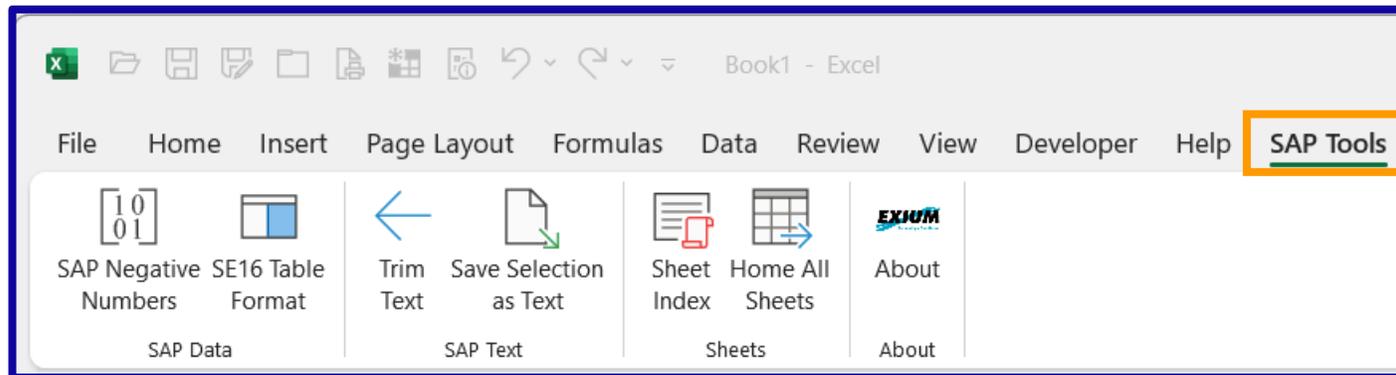
```
Sub ConvertSAPNegativeNumbers()  
'  
' ConvertSAPNegativeNumbers Macro  
' Macro recorded 2/2/2014 by Rohana K. Gunawardena  
'  
'  
  
    Dim NumText  
    Dim SignText  
    Dim xCell As Range  
  
    For Each xCell In Selection  
        If Application.IsText(ActiveCell) And Not IsEmpty(ActiveCell) Then  
            NumText = Left$(Trim(ActiveCell), Len(Trim(ActiveCell)) - 1)  
            SignText = Right$(Trim(ActiveCell), 1)  
            If IsNumeric(NumText) And SignText = "-" Then  
                xCell = -Cdbl(NumText)  
            End If  
        End If  
    Next xCell  
End Sub ' ConvertSAPNegativeNumbers
```



Can use code on its own if you are familiar with Excel macros

Convert SAP Negative Sign for Excel — Add-In

Functionality is available as an Excel Add-In with installation instructions



Excel Add-In is available for download at
<http://sapinsider.org/>

Wrap-Up

Where to Find More Information — SAP Help

SAP Help – AR

https://help.sap.com/docs/SAP_S4HANA_ON-PREMISE/3cb1182b4a184bdd93f8d62e3f1f0741/4d3818c3010c2303e1000000a15822b.html

The screenshot shows the SAP Help Portal interface. At the top, there is a navigation bar with the SAP logo and 'Help Portal (Documentation)'. Below this, there are links for 'Browse by Product', 'SAP Learning Journeys', 'What's New', and 'Explore SAP'. The main content area is titled 'Financial Operations' and includes a search bar and a dropdown menu for 'This document'. The left sidebar shows a navigation tree with 'Accounts Receivable (FI-AR) and Accounts Payable (FI-AP)' selected. The main content area displays the title 'Accounts Receivable (FI-AR) and Accounts Payable (FI-AP)' and provides detailed information about the application components, including their roles in accounting, payment management, and reporting. A 'Was this page helpful?' survey is visible on the right side.

Financial Operations 2023 Latest English

This document Search in this document

Favorite Download PDF Share

Accounts Receivable (FI-AR) and Accounts Payable (FI-AP)

The **Accounts Payable** application component records and administers accounting data for all vendors. It is also an integral part of the purchasing system, where deliveries and invoices are managed according to vendors. The system automatically makes postings in response to the operative transactions. In the same way, the system supplies the Cash Management application component with figures from invoices in order to optimize liquidity planning.

Payables are paid with the payment program. The payment program supports all standard payment methods (such as checks and transfers) in printed form as well as in electronic form (data medium exchange on disk and electronic data interchange). This program also covers country-specific payment methods.

If necessary, dunning notices can be created for outstanding receivables (for example, to receive payment for a credit memo). The dunning program supports this function.

Postings made in Accounts Payable are simultaneously recorded in the general ledger where different G/L accounts are updated based on the transaction involved (such as payables and down payments). The system contains due date forecasts and other standard reports that you can use to help you monitor open items.

You can configure balance confirmations, account statements, and other notifications to suit your correspondence requirements. There are balance lists, journals, balance audit trails and other evaluations available for documenting transactions in Accounts Payable.

The **Accounts Receivable** application component records and administers accounting data of all customers. It is also an integral part of sales management.

Was this page helpful?



Where to Find More Information — IDES

IDES – Internet Demonstration and Evaluation System

https://help.sap.com/docs/SUPPORT_CONTENT/home/3361891883.html

Related SAP Notes:

2445594 IDES S/4 HANA 1610

174107 IDES: Available installations

The screenshot shows the SAP Help Portal interface. The breadcrumb trail is 'Home > Support Content > FAQ > IDES'. The page title is 'IDES' under the 'FAQ' section. The main content area includes a welcome message, a 'Frequently Asked Questions' section, and a detailed answer to 'What is SAP IDES (Internet Demonstration and Evaluation System)?'. The answer states that IDES systems are SAP-internal demo systems running in Walldorf, used to demonstrate and show the functionality of various SAP solutions to potential customers and prospects. It also mentions that IDES systems do not contain training data and that customer training based on IDES systems is not supported. The left sidebar shows a navigation menu with 'IDES' highlighted. The right sidebar contains 'On this page' links and a 'Was this page helpful?' feedback form.

* Requires login credentials to the SAP Service Marketplace



Where to Find More Information — SAP Experts

Rohana Gunawardena, “Which A/R Underpayment Option Should You Use: Partial Payment or Residual Item?” (*Financials Expert*, September 2003).

<https://sapinsider.org/Which-A-R-Underpayment-Option-Should-You-Use-Partial-Payment-or-Residual-Item>

Rohana Gunawardena, “Use Reconciliation Account Determination with a Special G/L Indicator for More Flexible Invoicing” (*Financials Expert*, July 2004).

<https://sapinsider.org/Use-Reconciliation-Account-Determination-with-a-Special-G-L-Indicator-for-More-Flexible-Invoicing>



Where to Find More Information — SAP Experts (cont.)

Rohana Gunawardena, “Secure Your Revenue Stream: Ensure That SD Billing Document Invoices Are Posted in FI” (*Financials Expert*, March 2006).

<https://sapinsider.org/Secure-Your-Revenue-Stream-Ensure-That-SD-Billing-Document-Invoices-Are-Posted-in-FI>

Rohana Gunawardena, “Tips for Tracking Clearing Transactions” (*Financials Expert*, June 2004).

<https://sapinsider.org/Tips-for-Tracking-Clearing-Transactions>



Where to Find More Information — SAP Experts (cont.)

Matt Christensen, “Streamline A/R Processes with Substitution User Exits” (*Financials Expert*, May 2004).

<https://sapinsider.org/streamline-a-r-processes-with-substitution-user-exits/>



Where to Find More Information — ERPtips

Rohana Gunawardena, “What’s So Special About Special G/L Indicators” (ERPtips, June 2003).



Take home available at <http://sapinsider.org/>
Log on with your conference registration email

Where to Find More Information — SAP Cash Application

What Is SAP Cash Application?

https://help.sap.com/docs/SAP_CASH_APPLICATION/76882b4bdf70467da9c68359d55b62d9/6da671563df64cf983947dbca148a163.html

Set Up SAP Cash Application

https://help.sap.com/docs/SAP_CASH_APPLICATION/60e4f6eb9b6a427db1963afb7e9791b5/1b2101a1dcab41e484016b0372f18bdf.html

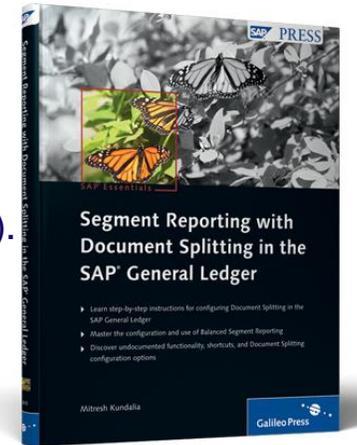
SAP S4HANA 1909 On-Prem Cash Application Implementation Guide - From a Technical Perspective

<https://community.sap.com/t5/financial-management-blogs-by-members/sap-s4hana-1909-on-prem-cash-application-implementation-guide-from-a/ba-p/13539181>

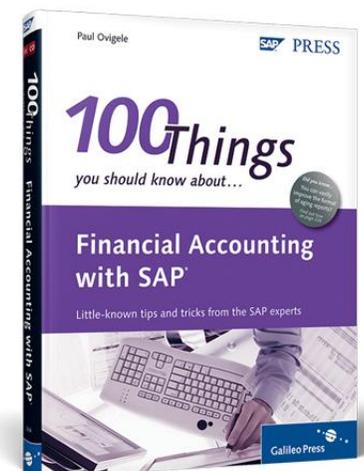


Where to Find More Information – SAP Press

Mitresh Kundalia, *Segment Reporting with Document Splitting in the SAP General Ledger* (SAP PRESS, 2009).
Great tips and tricks for document splitting



Paul Ovigele, *100 Things You Should Know About Financial Accounting with SAP* (SAP PRESS, 2011).
A large selection of GL tips and tricks



7 Key Points to Take Home

SAP Cash Application uses the power of AI and ML

Improve your cash application % and reduce manual effort

Improving the tracing of clearing documents is easier than expected

The payment usage option in document display

Number ranges can help clear document display

Setting Enhanced number ranges or cross-year ranges

Fiscal periods, number ranges and other fixed settings can be changed

Does require a special conversion project

7 Key Points to Take Home (cont.)

A customer invoice is actually two documents, the SD & FI invoices

Need to validate FI invoices exist for all SD invoices for AR visibility

Ensure you have a regular process to run transaction VFX3 for all sales orgs

Use VFX3 to detect SD invoices not transferred to FI

Certain AR business transactions need to be separated from regular trade AR

Use customer posting with special G/L indicators to post with different A/R reconciliation accounts

Thank you! Any questions?

Rohana Gunawardena
Exium Inc.
Rohana@Exium.com



Please remember to complete your session evaluation.

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