

One Exposure from Operations: Customizing and Data Setup

May 2016

Product Version / LoB:

SAP S/4HANA Finance 1605

E2E Solution/Solution Capability:
Cash and Liquidity Management



Objectives



At the end of this presentation, you will be able to:

- Explain how One Exposure from Operations is configured and activated

Agenda

- **Customizing and Data Setup**
 - **Integration of Source Applications**
 - **Activation of Integration**
 - **Migration of Data**
 - **Initialization of Data**
 - **Bank Balance Upload**
 - **Distributed Cash Management**
 - **Liquidity Planner**

Agenda

- **Customizing and Data Setup**
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One Exposure from Operations Setup

Customizing

Integration of Source Applications - Activation

The screenshot displays the SAP Cash and Liquidity Management menu structure. The 'Cash Management' folder is expanded, showing 'Data Setup' with sub-options 'Activate Individual Source Applications' and 'Activate Multiple Source Applications'. A table lists source applications with their CoCd and Active status. A dialog box titled 'Activate Multiple Source Applications' is open, showing 'Action' (Activate/Deactivate) and 'Selection' (Company Code and Application) fields.

Src. Appl.	CoCd	Active
One Exposure	0001	Active
Financial Operatio...	0001	Active
Treasury and Risk ...	0001	Active
Customer and Mortg...	0001	Active
Contract Accounts ...	0001	Active
Sales And Distribu...	0001	Active
Materials Managem...	0001	Active

Activate Multiple Source Applications

Action

Activate
 Deactivate

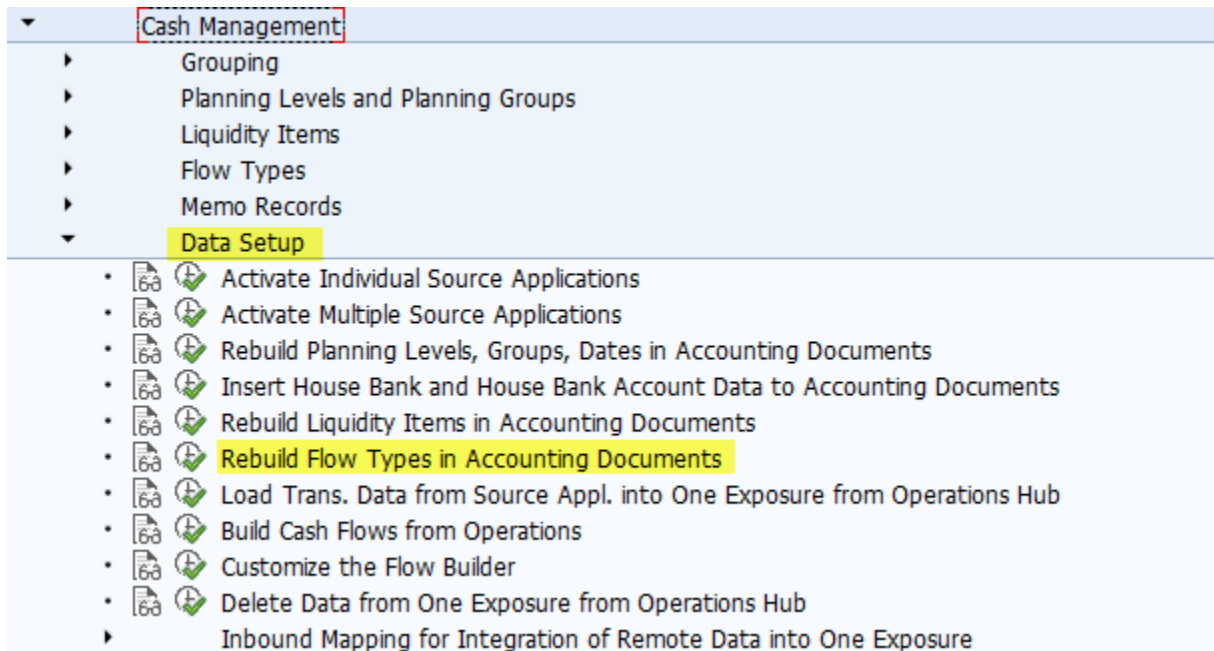
Selection

Company Code [] to []
Application FI to []

Activate Integration of Source Applications into the One Exposure from Operations Hub

- IMG activity [individual activation]
- Transaction FQM_ACTIVATE [mass activation]

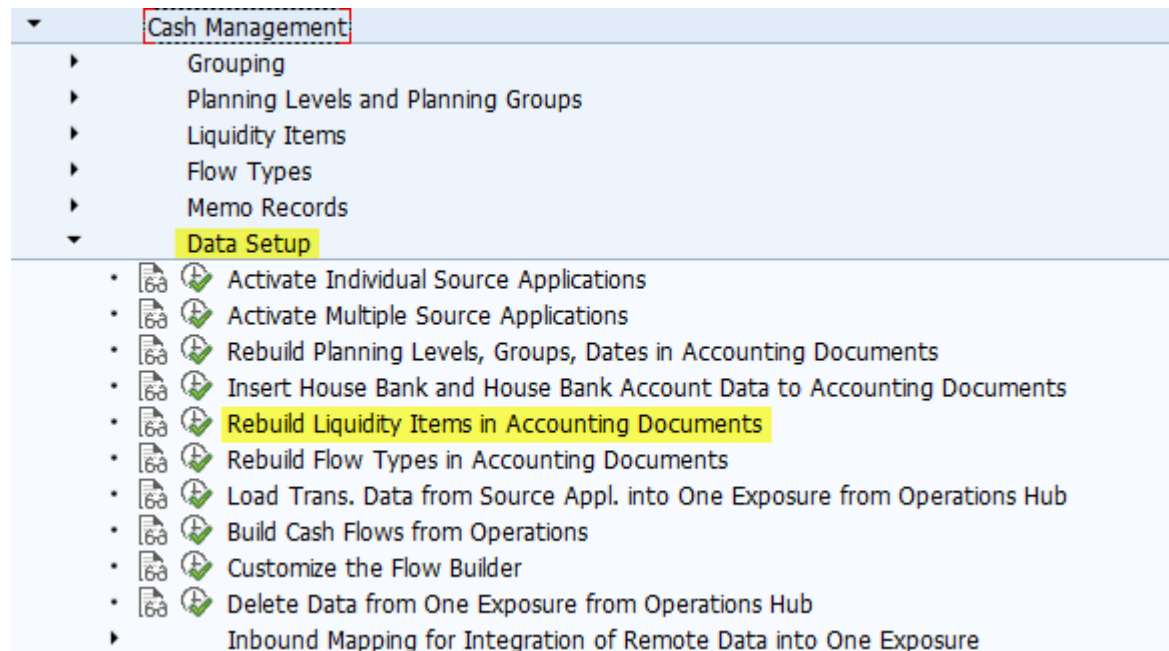
Integration of Source Applications - Migration Step 'Rebuild Flow Types'



Rebuild Flow Types in Accounting Documents

- IMG activity / transaction FQM_UPD_FLOW_TYPE
- Derive and rebuild flow types for line items that have already been posted to ledgers
- To be repeated each time an additional company code is activated for the source application Financial Operations

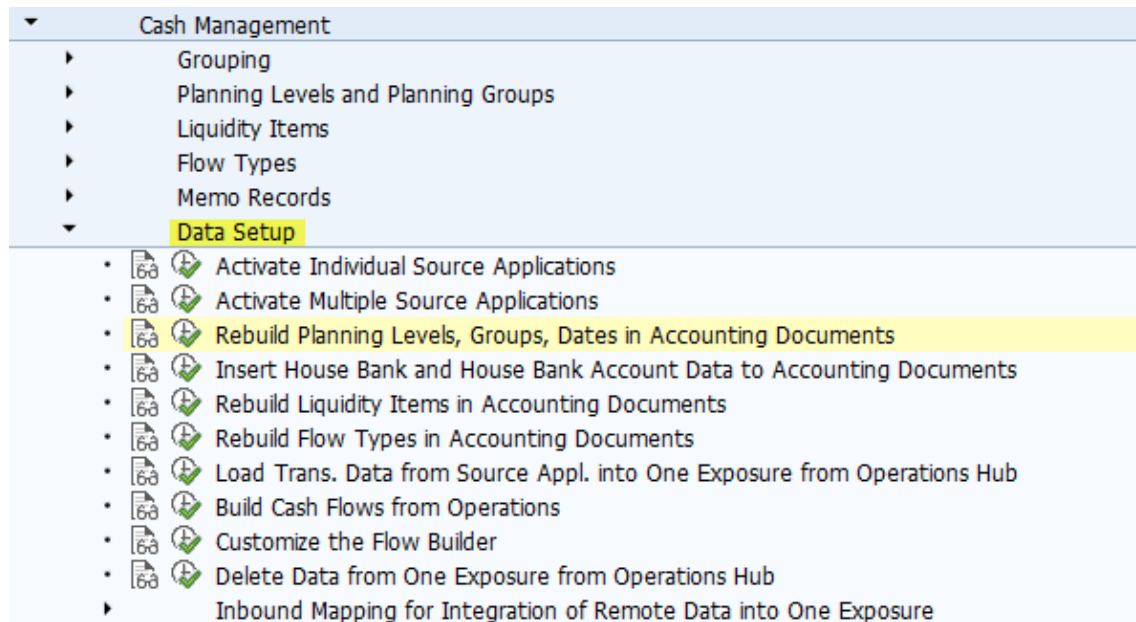
Integration of Financial Operations - Migration Step 'Rebuild Liquidity Items'



Rebuild Liquidity Items in Accounting Documents

- IMG activity / transaction FCLM_UPDATE_LQITEM
- Derive and rebuild liquidity item for line items that have already been posted to ledgers
- To be repeated each time an additional company code is activated for source application Financial Operations

Integration of Financial Operations - Migration Step 'Rebuild Planning Levels ...'



Rebuild Planning Levels, Groups, Dates in Accounting Documents

- IMG activity / transaction FCLM_PLANNING_FQM
- Derive and rebuild planning level, planning group, and planning date for line items that have already been posted to ledgers
- To be repeated each time an additional company code is activated for source application Financial Operations

One Exposure from Operations Setup

Customizing or Application

Integration of Source Applications - Initialization

The screenshot shows the SAP Data Setup menu on the left and the 'Load Transaction Data' configuration dialog on the right. The menu item 'Load Trans. Data from Source Appl. into One Exposure from Ope' is highlighted. The dialog has the following sections:

- Load Transaction Data**: Contains a refresh icon and a 'Mode' section with two radio buttons: 'Load Transaction Data' (selected) and 'Reload Transaction Data'.
- Technical Settings**: Contains a checked 'Test Run' checkbox, an unchecked 'Parallel Processing of Tasks' checkbox, and a 'Number of Tasks' spinner set to 5.
- Filter**: Contains a 'General Parameters' section with two rows of input fields: 'Company Code' and 'Source Application', each with a 'to' field and an empty input box.

Load Transaction Data

- Transaction FQM_INITIALIZE
- Load transaction data from a source application into the One Exposure from Operations hub so that the data is available for reporting
- Errors during data upload are documented in the application log [transaction FQM_APPLICATION_LOG]

One Exposure from Operations Setup

Application

Integration of Source Applications - Application Log

The screenshot shows the SAP application log configuration interface. On the left, a navigation tree is expanded to 'One Exposure from Operations', with 'Display Application Logs' highlighted. The main window is titled 'Display Application Logs of One Exposure from Operations'. It contains a 'Date/Time' section with 'Date/Time from' and 'Date/Time to' fields, each with a time picker set to '00:00:00'. Below this is a 'Source Application' section with three rows: 'Source Application' (with 'SDCM' selected), 'Source Document ID', and 'Source Transaction'. Each row has a 'to' field and a search icon.

Load Transaction Data

- Transaction FQM_APPLICATION_LOG
- Collection of messages, exceptions and errors that occurred during the upload of data from a source application into the One Exposure from Operations hub
- Review, evaluation, correction and data reload (FQM_INITIALIZE) by system administrator

Integration of Source Applications – Build Cash Flows from Operations

The image shows a screenshot of the SAP Data Setup menu and the Flow Builder dialog box. The Data Setup menu is on the left, with 'Build Cash Flows from Operations' highlighted. The Flow Builder dialog box is on the right, showing the 'Control Parameters' section with 'Running Type' set to 'Mass Run', 'Source Application' set to 'Financial Accounting', and 'Test Run' checked. The 'Processing Options of FI' section shows 'Max. Steps of Chain Tracing' set to 4. The 'Selection Criteria of FI Doc.' section shows fields for Company Code, Fiscal Year, Document Number, and Line Item, each with a 'to' field and a search icon.

Build Cash Flows from Operations

- IMG activity / transaction FCLM_FLOW_BUILDER [FI Flow Builder]
- Derive cash flows from accounting document line items (Financial Operations) and purchasing documents from MM by loading accounting transactions from the corresponding database tables to One Exposure
- Derive cash flows from purchasing documents (purchase requisitions, purchase orders)

Integration of Source Applications – Customize FI Flow Builder

The image shows a screenshot of the SAP Data Setup menu and the Flow Builder Configuration dialog. The menu is expanded to show the 'Customize the Flow Builder' option. The dialog is titled 'Flow Builder Configuration' and contains the following options:

- Check Background Job Logs
- Schedule Background Job
- Delete Flows Derived from FI
- Change Default Loading Class

The 'Background Job Parameters' section includes:

- Trigger Job Automatically
- Job Delay (in Sec.)
- Variant for FI Flow Builder
- Background User
- Record Details in Job Logs

Customize FI Flow Builder

- IMG activity / transaction FCLM_FB_UTIL
- This activity consists of several tools and settings for the FI Flow Builder (FCLM_FLOW_BUIDLER)
e.g.
 - Check and schedule background jobs
 - Delete flows

Deletion of Source Application Data

The screenshot shows the SAP Cash Management Data Setup menu on the left and a dialog box on the right. The dialog box is titled "Delete Data from One Exposure from Operations Hub" and contains the following fields and options:

- Source Application:** SDCM
- Company Code:** 0001
- Test Run
- Message Logging:**
 - Display Log
 - Persist Log

Delete Data from One Exposure from Operations Hub

- IMG activity / transaction FQM_DELETE
- Delete data from One Exposure per company code and source application
- To be done if a new initial starting point shall be used within a implementation project

Agenda

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One Exposure from Operations Setup

Application

Bank Balance Upload – Maintenance of Connectivity Path Information

The screenshot displays the SAP Business Client interface for Bank Account Management. The left sidebar shows the navigation menu with 'Bank Account Management' selected. The main area shows a list of bank accounts with the following data:

Account Number	Description	Bank	Bank Name	Bank...	Bank Co...	Co...
10000188	Excellium by Heinz	10000010	Deutsche Bank AG	DE	Germany	0001
10000189	Phantastica by Heinz	10000010	Deutsche Bank AG	DE	Germany	0001

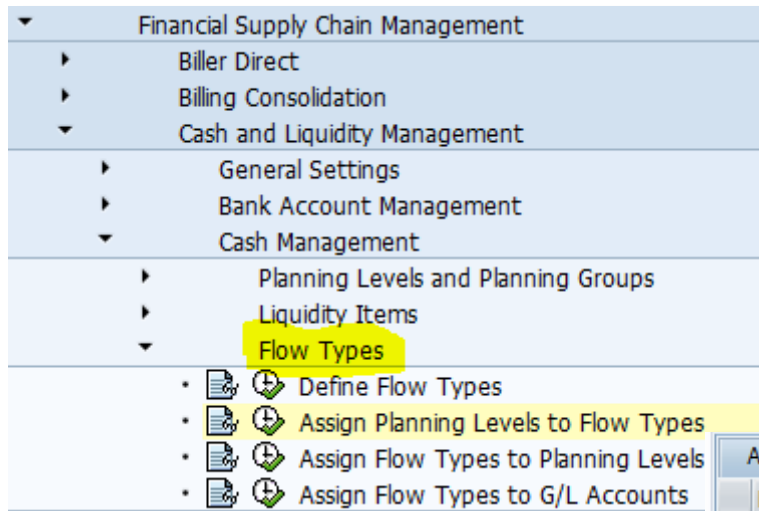
Below the table, the details for Bank Account 10000188, Excellium by Heinz, Deutsche Bank AG are shown. The 'Connectivity Path' tab is active, displaying the following information:

ID Category	Remote System	Company Code	House Bank	House Bank Acct ID	Additional ID
Remote System: G/L Account	LOCALXML	0001			100000180

Maintain Connectivity Path Information for Bank Account(s) in Bank Account Master

- Activity 'Manage Bank Accounts' in Bank Account Management (in NWBC)
- Maintain connectivity path information for the bank account master (e.g. ID Category 'Remote System: G/L Account')

Bank Balance Upload - Assign Planning Levels to Flow Types



Flow Type	Level	Short text
900102 Bank Cash Balance Increase	F0	Bank
900103 Bank Cash Balance Decrease	F0	FI Bank

Assign Planning Levels to Flow Types

- IMG activity
- Assign planning levels to flow types so that the bank cash balance changes can be evaluated according to planning levels in the Cash Position

One Exposure from Operations Setup

Application

Bank Balance Upload – Import Bank Cash Balances

The screenshot shows the SAP S/4HANA interface. On the left, the navigation tree is expanded to 'One Exposure from Operations', with 'Import Bank Cash Balances' highlighted. The main window displays the 'Import Bank Cash Balances' dialog, which includes an 'Input File' section with a 'File Name' field and an 'Update Control' section with a 'Test' checkbox checked. Below the dialog, the 'Display logs' window is open, showing a table of log entries. The table has columns for Date/Time/User, Nu..., External..., Object text, Sub-object text, Transac..., Program, Mode, and Log number. The log entries show a successful upload on 05.05.2015 at 15:29:57, followed by a 'Problem class Very Important' message. Below the log table, there is a toolbar with various icons and a table with columns for Message Text, Row, Value Date, Bank Account, IBAN, Balance, and Currency. The messages in this table are 'Check was successful' and 'Bank cash balances updated'.

Date/Time/User	Nu...	External...	Object text	Sub-object text	Transac...	Program	Mode	Log number
05.05.2015 15:29:57 D002264	2		Corporate Fina...	TRU	FQM21	FQME_BA...	Dialog pro...	\$000001
• Problem class Very Important								

T...	Message Text	Row	Value Date	Bank Account	IBAN	Balance	Currency
✓	Check was successful	1	04.07.2014	1000000268		10000	EUR
✓	Bank cash balances updated						

Import Bank Cash Balances into the One Exposure from Operations Hub

- Activity 'Import Bank Cash Balances' / Transaction FQM21
- Upload bank cash balances (in Microsoft Excel format) into the One Exposure from Operations hub
- Check the upload protocol

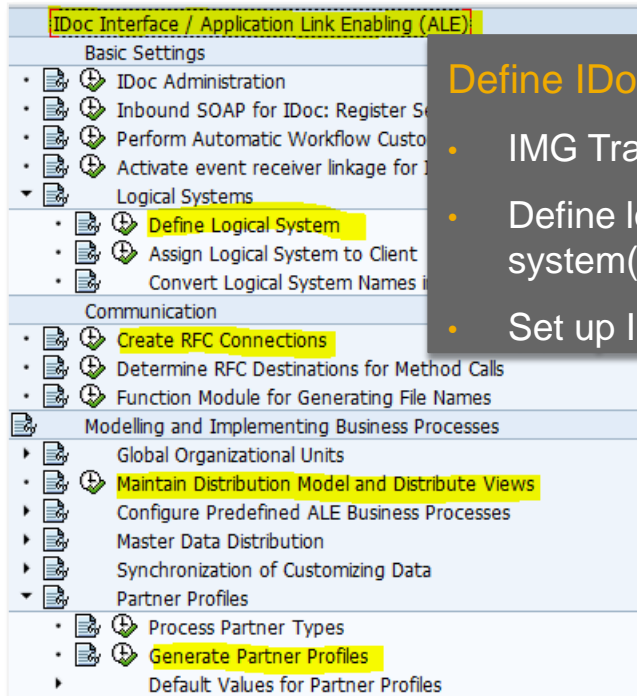
Agenda

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 - Liquidity Planner

One Exposure from Operations Setup

Customizing

Distributed Cash Management – IDoc and Connectivity Path Configuration



Define IDoc Interface

- IMG Transaction : SALE
- Define logical systems and RFC connections in central system and remote system(s)
- Set up IDoc integration based on message types CMSEND and CMREQU

Maintain Connectivity Path Information

- Activity 'Manage Bank Accounts' in Bank Account Management (in NWBC) in central system
- Maintain connectivity path information for the bank account master (ID Category 'Remote System: G/L Account') and all relevant G/L accounts of remote system(s)

The screenshot shows the 'Connectivity Path' configuration table in SAP. The table has the following columns: ID Category, Remote System, Company Code, House Bank, House Bank Acct ID, and Additional ID. The table contains three rows of data.

ID Category	Remote System	Company Code	House Bank	House Bank Acct ID	Additional ID
Remote System: G/L A...	QI3CLNT002	0001			0000113100
Remote System: G/L A...	QI3CLNT002	0001			0000113105
Remote System: G/L A...	QI3CLNT002	0001			0000113102

One Exposure from Operations Setup

Customizing

Distributed Cash Management – Inbound Mapping for Integration

The screenshot displays the SAP Cash Management Data Setup menu. The menu items are as follows:

- Activate Individual Source Applications
- Activate Multiple Source Applications
- Rebuild Planning Levels, Groups, Dates in Accounting Documents
- Insert House Bank and House Bank Account Data to Accounting Documents
- Rebuild Liquidity Items in Accounting Documents
- Rebuild Flow Types in Accounting Documents
- Load Trans. Data from Source Appl. into One Exposure from Operations Hub
- Build Cash Flows from Operations
- Customize the Flow Builder
- Delete Data from One Exposure from Operations Hub
- Inbound Mapping for Integration of Remote Data into One Exposure**
 - Convert Company Codes
 - Convert Sender Planning Groups
 - Convert Sender Planning Levels
 - Convert Sender Business Areas
 - Assign Time Zones to Subsystems
 - Check Settings

Four pop-up windows are overlaid on the menu, each showing a table configuration:

- Change View "Define TR-CM Subsystems and Convert Company Codes":**

Subsystem	Company code (subsystem)	Company code (central)
ER9CLNT001	*	
- Change View "Convert Sender Group": Overview**

Subsystem	Group (Subsystem)	Group (Central)
QI3CLNT002	*	A1
- Change View "Convert Sender Level": Overview**

Subsystem	Level (subsystem)	Level (central)
ER9CLNT500	S1	M1
- Change View "Convert Sender Business Area": Overview**

Subsystem	Business area (subsystem)	Business area (central)
QI3CLNT002	*	0001

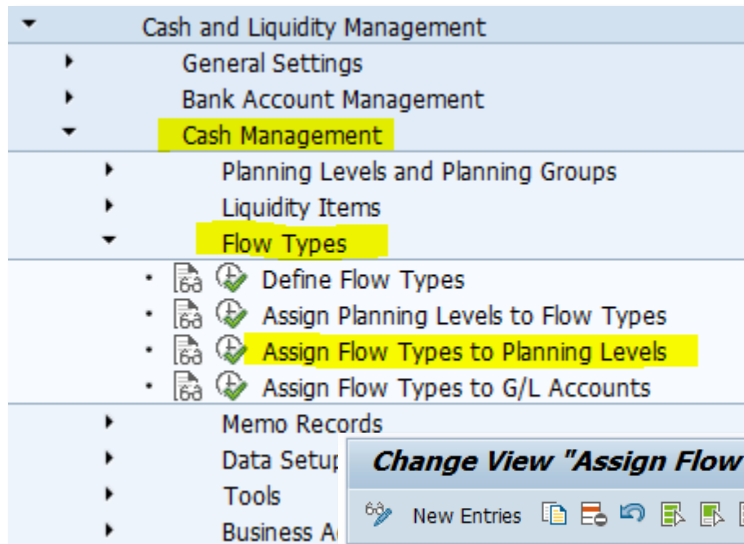
Conversion of Company Codes, Planning Groups, Planning Levels, and Business Areas

- IMG activities in central system
- Convert company codes, planning groups, planning levels, and business areas of the *remote* system in the central system

One Exposure from Operations Setup

Customizing

Distributed Cash Management - Assign Flow Types to Planning Levels



Change View "Assign Flow Type to Planning Level": Overview

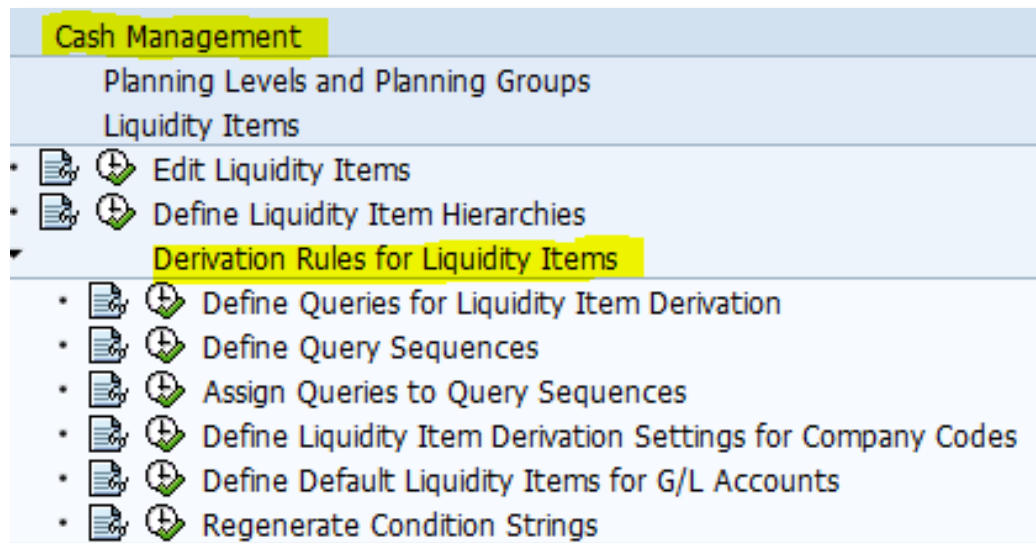
New Entries

Assign Flow Type to Planning Level					
Level	Level Description	Flow Type: Increase	Flow Type Description	Flow Type: Decrease	Flow Type Description
F0	FI Banks	900108	Cash Balance Increase (IDOC)	900109	Cash Balance Decrease (IDOC)

Assign Flow Types to Planning Levels

- IMG activity in central system
- Assign flow types to planning levels to differentiate confirmed cash when evaluating the Cash Position

Distributed Cash Management – Define Derivation Rules for Liquidity Items



Define Derivation Rules for Liquidity Items

- IMG activity in central system
- Define queries and query sequences with Origin X as [= One Exposure]

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One Exposure from Operations Setup

Configuration

SAP Liquidity Planner - Configuration of Web Service in Central System

The screenshot displays the SAP Web Service Configuration interface. On the left, a search panel shows the search criteria: Object Type is 'Service Definition', Object Name contains 'FQM*'. The search result table lists the service definition 'FQM_WS_DISTRIBUTE'. On the right, the configuration details for this service definition are shown, including transport guarantee, security settings, and authentication options.

Web Service Configuration (Q91;006)

Design Time Object Search | Configuration Search

Search Criteria

Object Type is Service Definition

Object Name contains FQM*

Maximum Number of Results: 100

Search Clear Values Reset Search Criteria

Search Result

Internal Name	Type	Name
FQM_WS_DISTRIBUTE	Service Definition	FQM_WS_DISTRIBUTE

Web Service Configuration (Q91;006)

Configuration: Service Definition 'FQM_WS_DISTRIBUTE', Service 'FQM_WS_DISTRIBUTE', Binding 'fqm_ws_distribute'

Save Edit

Provider Security | Transport Settings | Message Attachments | Identifiable Business Context | Operation Settings | Administrative Information

Transport Guarantee

Transport Level: None

Transport Level Security

None (http)

SSL (https)

Message Level Security

None

Symmetric Message Signature and Encryption

Asymmetric Message Signature

Asymmetric Message Signature and Encryption

Secure Conversation

Extended Signature and Header Protection

Authentication Settings

Authentication Level: Basic

Authentication Method

No Authentication

Transport Channel Authentication

User ID/Password

X.509 SSL Client Certificate

Web Service Configuration

- System Administration task using transaction SOAMANAGER
- Configure a Web service based on the service definition FQM_WS_DISTRIBUTE

One Exposure from Operations Setup

Configuration

SAP Liquidity Planner - Configuration of Logical Port in Remote System

Details of Consumer Proxy: CO_FQM_WS_DISTRIBUTE

Overview | Configurations | Details

Define Logical Ports

Create | Set Log.Port Default | Activate | Deactivate | Delete

Actions	Logical Port
	LP_FQM_WS_DISTRIBUTE_Q91_006

Web Service Configuration (QI3;002)

Configuration: Consumer Proxy 'CO_FQM_WS_DISTRIBUTE', Logical Port 'LP_FQM_WS_DISTRIBUTE_Q91_006'

Save | Edit | Ping Web Service

Consumer Security | Messaging | Transport Settings | Message Attachments | Identifiable Business Context | Operation Settings | Administrative

Configuration of Consumer Settings additional to WSDL Document LP=LP_FQM_WS_DISTRIBUTE_Q91_006

User ID/Password

User Name: FQM_WEBSERV
Password:

Properties from WSDL Document

Authentication

Authentication Method

Web Service Configuration (QI3;002)

Configuration: Consumer Proxy 'CO_FQM_WS_DISTRIBUTE', Logical Port 'LP_FQM_WS_DISTRIBUTE_Q91_006'

Save | Edit | Ping Web Service

Consumer Security | Messaging | Transport Settings | Message Attachments | Identifiable Business Context | C

Transport Binding

* URL Access Path:	/sap/bc/srt/rfc/sap/fqm_ws_distribute/006/fqm_ws_distribute/fqm_ws_distribute
Computer Name of Access URL:	ldai1q91.wdf.sap.corp
Port Number of Access URL:	44300
URL Protocol Information:	HTTPS

Definition of Logical Port

- System Administration task using transaction SOAMANAGER
- Configure a logical port based on the consumer proxy CO_FQM_WS_DISTRIBUTE

One Exposure from Operations Setup

Customizing

SAP Liquidity Planner - Conversion of Company Codes and Business Areas in Central System

The screenshot displays the SAP Liquidity Planner interface. On the left is a navigation tree under 'Cash Management' with 'Data Setup' expanded. The main area shows two configuration windows:

Change View "Define TR-CM Subsystems and Convert Company Codes"

Subsystem	Company code (subsystem)	Company code (central)
QI3CLNT002	ZL04	CM04
QI3CLNT002	ZL20	CM20
QV5CLNT002	0001	1000

Change View "Convert Sender Business Area": Overview

Subsystem	Business area (subsystem)	Business area (central)
QI3CLNT002	*	1500
QV5CLNT002	*	

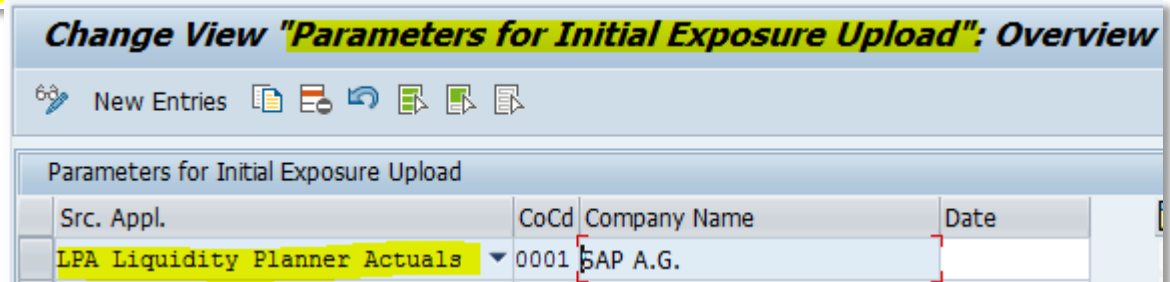
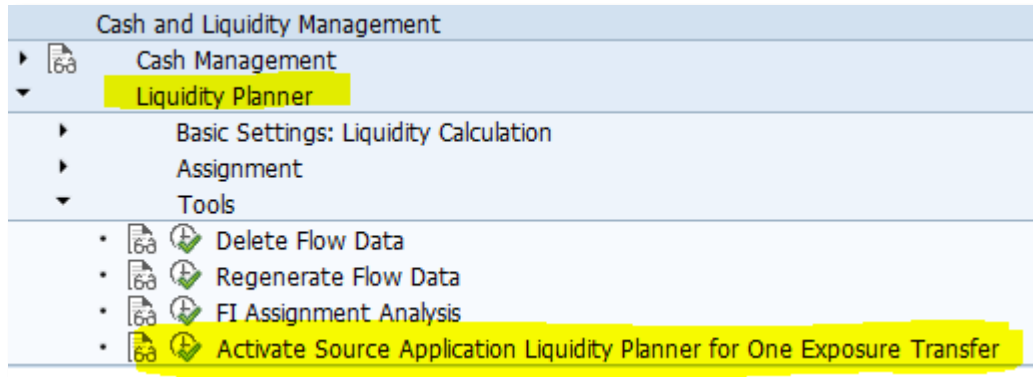
Conversion of Company Codes and Business Areas

- IMG activities in central system
- Convert company codes and business areas of the **remote** system in the **central** system

One Exposure from Operations Setup

Customizing

SAP Liquidity Planner - Define Parameters for Upload in Remote System



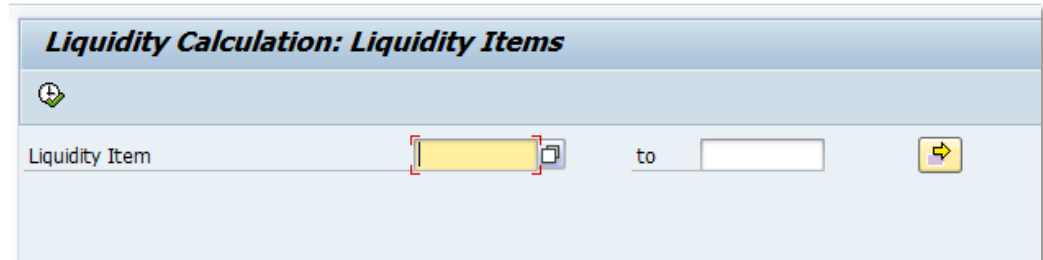
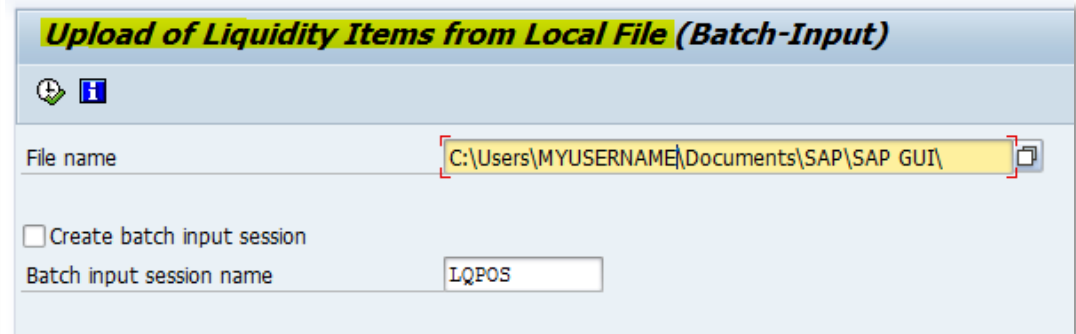
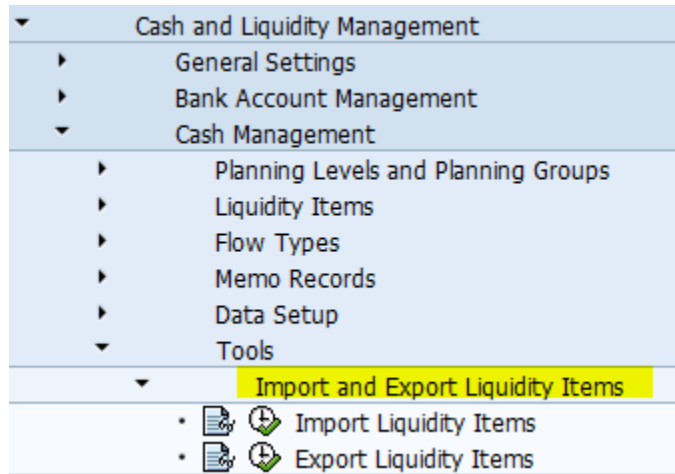
Define Parameters for Initial and Periodic Upload to the One Exposure from Operations Hub

- IMG activity in remote system
- Define source application, company code and payment date (optional) to control data upload into the One Exposure from Operations hub

One Exposure from Operations Setup

Customizing

SAP Liquidity Planner - Import and Export Liquidity Items



Define Liquidity Items

- IMG activity in central system
- Ensure that the liquidity item values that are transferred into the One Exposure from Operations hub exist in both systems (remote and central)

One Exposure from Operations Setup

Application

SAP Liquidity Planner - Run Upload in Remote System

The screenshot displays the SAP Liquidity Planner interface. On the left, the SAP Menu tree is visible, with the path: SAP Menu > Accounting > Financial Supply Chain Management > Cash and Liquidity Management > Liquidity Planner. The 'Liquidity Planner' folder is expanded, showing sub-items: Assignment, Transfer, Settings, One Exposure Update (with sub-items: Initial and Periodic Update, Selective Update, Delete), and Information System.

Two dialog boxes are overlaid on the interface:

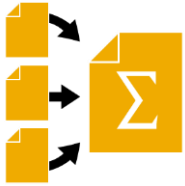
- Initial and Periodic Upload to One Exposure from Operations Hub:** This dialog has a title bar with the same text. It contains a 'Logical Port' field with the value 'LP_FQM_WS_DISTRIBUTE', a checked 'Test Run' checkbox, and an unchecked 'Skip Company Code Sel. Screen' checkbox. Below these is a 'Message Logging' section with a checked 'Display Log' checkbox and an unchecked 'Persist Log' checkbox.
- One Exposure Upload for LQ Items:** This dialog has a title bar with the same text. It features a toolbar with icons for Transfer, Refresh, Print, and other actions. Below the toolbar is a table with the following data:

Transfer	Src. Appl.	CoCode	Trans.Date	Exec.Date	Exec.Time
Periodic	LPA	ZL20	01.01.2012	24.11.2015	08:18:11
Periodic	LPA	ZL04	01.01.2012	14.01.2016	09:49:18
Periodic	LPA	0001	01.01.2013	19.08.2015	10:45:28
Periodic	LPA	BUV	01.01.2015	01.07.2015	16:48:30
Periodic	LPA	ZAPP	01.01.2015	01.07.2015	16:48:39
Periodic	LPA	KP01	01.01.2015	12.11.2015	16:15:25
Initial	LPA	SA03	01.01.2013		00:00:00

Run Initial and Periodic Upload to the One Exposure from Operations Hub

- Activity in remote system (transaction FQM_TRANSFER)
- Run data upload into the One Exposure from Operations hub (initial and periodic update)

Lesson Summary



You should now be able to

- Explain how to set up One Exposure from Operations

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