essential for banking

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Business Unit Capability of Swift Key Exchange

New Feature Description

Release 3.6

Module: Settlement

Related Documents

- Avaloq First Steps - Concept Description (doc. ID: 2352)

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Icons

Element	Description
	Notes provide additional information about a topic and call your attention to special cases.
	Tips offer suggestions to simplify a task or describe how to optimise your approach.
	Warnings inform you that errors, unsatisfactory output or other problems could occur if you do not follow the directions carefully.
	Examples illustrate previously mentioned functions or descriptions.

Typographic Conventions

Element	Description
Bold	Emphasised words, elements in the user interface, entries in database tables, source types
"Double quotation marks"	Exact user entries, user selected items
CAPITALS	Names of database tables, database columns, sources, data dictionaries, technical tasks
`Code`	Source code, functions, procedures, variables, base parameter names
Italics	File and folder names, paths, document references
Initial Letter Capitalised	Objects/transactions
[CAPITALS IN SQUARE BRACKETS]	Shortcuts, keyboard keys

Language Disclaimer

For improved readability, the documentation uses male pronouns for all persons. It does, however, address both male and female readers to the same extent.

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Version History

While the document ID of a parameterisation upgrade guide remains the same, the content is different in every release. This is because the document describes the parameterisation adaptations that are required between two specific releases. To preserve your existing parameterisation, read the entire document and make the necessary adaptations before you upgrade your system to a new release.

The table below only lists the versions of the document that contain content changes.

The sections below are new or updated:

Version / Date	Section	Description of the change
3.6v0 / 15 August 2012		This is a new document.

Table of Contents

Figures

Tables

1 Overview

Properties	
Issue ID	159256
Functional Area	Settlement
Component	SETTLE
Issue Title	SWIFT_KEY_XCHNG: make BU capable
Gap ID (Customer)	
Related Issues	
Related Changes	

2 Introduction

Certain SWIFT message types may only be exchanged if both the sender and the receiver of the messages have previously agreed to do so, i.e. if they have exchanged keys. This is usually done outside of the Avaloq Banking System using a SWIFT application. However, it is possible and may be useful to have the information as to whether or not keys have been exchanged stored within the Avaloq Banking System since e.g. settlement plan rules could be set up based on it.

However, there are situations where a SWIFT key could be shared with a particular business unit and not with the bank as a whole. The Avaloq Banking System does not so far support the possibility of sharing SWIFT keys with individual business units (BU).

Solution

As of release 3.6, the Avaloq Banking System provides the opportunity to associate a shared SWIFT key with a particular business unit, rather than with all business units of the bank. To provide this functionality, the **SWIFT Bilateral Key Exchange** mass entry form has been modified to include a **Business unit** field. In previous versions of the Avaloq Banking System it could be assumed that entries in the **Swift Key** field should be unique since a single entry is shared across all business units. By introducing the ability to limit keys to particular business units it is possible that entries in the **Swift Key** field will no longer be unique (e.g. BU1 and BU2 are "aware" of a key while BU3 is not).

In the case of multiple identical entries in the Swift Key field the information returned via the Historic Swift Key Exchange Report will be incomplete due to the grouping of data defined in the report datamart. In order to ensure correct functionality changes have been made to the report datamart to take into account the possibility of non-unique entries in the SWIFT key field.

Added Value

The new functionality provides support of limiting SWIFT key exchanges to particular business units.

The Avaloq Banking System documentation describes the system as seen in the default SmartClient (Complete Edition) and as it is configured in the Avaloq Model Bank (MDB). The documentation uses the SmartClient terminology and screenshots when describing the user interface elements.

Readers of this document should be aware that the user interface of the Avaloq Banking System is in continuous development. This means that there can be differences between the screenshots included in this document and what a user sees in the user interface. Users have the ability to define their own settings, which can also result in differences between the documentation screenshots and the user interface.

For more information about the SmartClient user interface, see *Avaloq First Steps - Concept Description (doc. ID: 2352).*

3 Impact of the New Feature

This section gives an overview of the parameterisation and business impact of the new or changed feature.

3.1 Impact

The table below gives an overview and estimate of the new feature's impact.

Criteria	Estimate
Regional relevance:	All Regions
Functionality can/must be used:	Optional The Bilateral SWIFT key exchange functionality is provided to allow the storage of additional information regarding the exchange of SWIFT keys. Although this information could be used elsewhere in the Avaloq Banking System, e.g. in the creation of rules, there is no requirement to do so.
Impact on existing technical requirements:	No
Dependencies on other systems/providers or on other modifications within the system:	No
Impact on business/bank operations: None.......bank processes are the same as the previous release Low.........bank processes are similar to the previous release Medium...bank processes require some mandatory changes High.........bank processes are new or very different from the previous release	None
Parameterisation upgrade impact: None.......parameterisation is the same as the previous release Low.........parameterisation is similar to the previous release Medium...parameterisation requires some mandatory changes High.........parameterisation is new or very different from the previous release	Low If there is customer-specific parameterisation of the Historic SWIFT Key Bilateral Exchange Report adjustment may be required.
Initial parameterisation effort in person days:	Low

Criteria	Estimate
None = 0, Low = 1, Medium = 2-5, High = 6-10, Very high > 10	
Migration steps for the new functionality:	None
Preconditions to be fulfilled for migration:	No
Impact on system performance:	No
Required training for end users in person days: None = 0, Low = 1, Medium = 2-3, High > 3	None
Required training for power users (key business users) in person days: None = 0, Low = 1, Medium = 2-3, High > 3	None
Required training for parameterisation specialists in person days: None = 0, Low = 1, Medium = 2-3, High > 3	None

Table 1: General impact of the new/modified functionality compared with Release 3.5

3.2 Impact if Optional Feature is Not Used

There is no impact if you do not use this feature.

4 Functional Overview

This section provides an overview of what you can do with the business type and with the application. It describes the features from a business perspective.

4.1 Business Unit Capable SWIFT Key Exchange

The ability of the Avaloq Banking System to store information about the exchange of SWIFT keys has been extended to allow keys to be associated with particular business units rather than being available to all business units. As with previous versions of the Avaloq Banking System this information can be used in the definition of rule sets e.g. Settlement Plans. Another option, possible when defining rules, has been made available with the introduction of this new business unit capability

5 New or Modified Avaloq Constructs

The following Avaloq constructs are new or were modified:

New or modified construct	Description	Details
Code Table: CODE_MASS_ENTRY_TEMPL	New BU_ID field (id table obj_bp_bu) to allow business unit information to be included when recording details of SWIFT key exchanges.	
Form: **SWIFT Bilateral Key Exchange**	New **Business unit** field added.	For more information see [Form: SWIFT Bilateral Key Exchange](#) on page 8.
DDIC: DTM_SWIFT_KEY_XCHNG_HIST	New BU_ID Field (id obj_bp_bu) that indicates which business unit this SWIFT key has been exchanged with. If null the key is shared with all business units.	
Report Datamart: TASK_SWIFT_KEY_XCHNG_HIST. DFLT	New BU (obj) entries added in consolidate section to allow access to business unit information in reports using this REP DTM. Group by section modified to resolve issue where non-unique SWIFT key entries result in incomplete data in the report.	
Report Screen: TASK_SWIFT_KEY_XCHNG_HIST. DFLT	New Business Unit Column. Modified data grouping to include business unit.	
Task: **Historic SWIFT Key Exchange Report** (task ID: 303)	Modified task.	For more information see [Task: Historic Swift Key](#)

New or modified construct	Description	Details
	Added Business Unit Field.	Exchange Report (Task ID: 303) on page 7.

Table 2: New or modified Avaloq constructs for Business Unit Capability of Swift Key Exchange

5.1 Task: Historic Swift Key Exchange Report (Task ID: 303)

The **Historic Swift Key Exchange Report** (task ID: 303) task may be used to display the current SWIFT key exchange data together with the history of modifications according to the entered restricting parameters. It also serves auditing purposes because it displays the user who modified the SWIFT key exchange data.

Parameter Descriptions

The table below describes the parameters of the task.

Parameter	Description	Data type
Layout	One default layout is available, i.e. **Swift Key Exchange Audit Trail (SCREEN)**.	References OBJ_TASK_LAYOUT_V
SWIFT Key	Restricts the results to the given SWIFT key. This is a list parameter. Wildcard characters are possible, e.g. UBS% will return data for all SWIFT keys starting with UBS.	Text
Timestamp From	Restricts the results to data either entered for the first time after the given timestamp or modifications entered after that timestamp.	Time
Timestamp To	Restricts the results to data either entered for the first time before the given timestamp or modifications entered before that timestamp.	Time
Valid Date	Restricts the results to data valid as per the given date.	Date
Business Unit	Restricts the results to orders from a specific business unit.	BP

Table 3: Parameter description for the Historic Swift Key Exchange Report (task ID: 303)

5.2 Form: SWIFT Bilateral Key Exchange

The **SWIFT Bilateral Key Exchange** form can be found in the Transactions menu using the **Classic Navigation**. It may be used to capture the fact that there has been a bilateral key exchange between an Avaloq bank and another bank. This information may then be used in the evaluation of settlement plan rules. New or modified entries are stored in the SWIFT_KEY_XCHNG and SWIFT_KEY_XCHNG_HIST tables.

Field Group: Data

This field group contains various fields which may be used as search restricting parameters to query existing bilateral key exchanges.

The table below describes the fields of the field group.

Field	Description	Data type
Cash Counterparty	Restricts the search results to bilateral key exchanges of the given cash counterparty.	Cash counterparty
Swift Key	Restricts the search results to bilateral key exchanges of the given SWIFT key.	Text

Table 4: Description of the Data field group

Field Group: SWIFT Bilateral Key Exchange

This field group displays the search results when the Search button is clicked. It may also be used to enter new bilateral key exchanges.

Field	Description	Data type
Delete	By selecting a given row, it will be flagged for deletion. Clicking on the **Delete** button then deletes the row. Subsequent clicking of the **Save Changes** button will update the database accordingly.	-
Swift Key	Indicates the SWIFT key for which a bilateral key exchange has taken place.	Text
Valid from	Start of the validity period of the key exchange.	Date
Valid to	End of the validity period of the key exchange.	Date

Field	Description	Data type
Business unit	Indicates the business unit that the key is specific to.	References OBJ_BP_BU_LOOKUP_V

Table 5: Description of the SWIFT Bilateral Key Exchange field group

6   MDB Examples

This section describes the parameterisation in the Model Bank that demonstrates the new functionality.

6.1   Entering SWIFT Key Exchange Information

This section describes how to enter SWIFT key exchange information into the Avaloq Banking System.

Prerequisite

None

Steps to Follow

1.   Open the **Bilateral SWIFT Key Exchange Mass Entry Form** (My Avaloq > Classic Navigation > Transactions > SWIFT Bilateral Key Exchange)

2.   Click the **Do** button to activate the form.

3.   Select an empty row and enter SWIFT key exchange information as follows:

     a.   Enter "20120101" in the **Valid from** field.

     b.   Enter "20130101" in the **Valid to** field.

     c.   Enter "swiftkeyone" in the **Swift key** field.

     d.   Enter "aaa" in the **Business unit** field or select "Avaloq Model Bank" from the drop down list in the same field.

4.   Select the next row and enter SWIFT key exchange information as follows:

     a.   Enter "20120101" in the **Valid from** field.

     b.   Enter "20130101" in the **Valid to** field.

     c.   Enter "swiftkeytwo" in the **Swift key** field.

     d.   Leave the **Business unit** field empty.

5.   Click the **Do** button to save the entries.

Result

The entries made in the **Bilateral SWIFT Key Exchange Mass Entry Form** are now saved to the Avaloq Banking System. "swiftkeyone" has been shared only with the Avaloq Model Bank while "swiftkeytwo" has been shared with every business unit in the Avaloq Banking System.

6.2   Modifying SWIFT Key Exchange Information

This section describes how to modify SWIFT Key Exchange information in the Avaloq Banking System.

Prerequisite

The instruction in the previous section "Entering SWIFT Key Exchange Information" should have been followed to ensure there is SWIFT key exchange information stored.

Steps to Follow

1. Open the **Bilateral SWIFT Key Exchnage Mass Entry Form**(My Avaloq > Classic Navigation > Transactions > Swift Bilateral Key Exchange)

2. Click the **Do** button to activate the form.

3. Click the **Search** button.

    Result

    With no search criteria specified all SWIFT key exchange information stored in the Avaloq Banking System is displayed in the mass entry form.

4. In the entry for "swiftkeyone" enter "20140101" in the **Valid to** field.

5. Click the **Do** button

Result

Any modifications made to entries in the **Bilateral SWIFT Key Exchange Mass Entry Form** are now saved in the Avaloq Banking System.

6.3 Generating a Report on Historic SWIFT Key Exchange Information

The Avaloq Banking System can be used to store SWIFT key exchange information. In addition to current information the Avaloq Banking System also records information on any changes made to the SWIFT key exchange information.

Prerequisite

There should be SWIFT key exchange information in the Avaloq Banking System or the report will contain no data.

Steps to Follow

1. Open the **Task and Reporting Desk**.

2. Enter "303" in the **Keywords** field and click the **Search** button.

3. Select the **"Historic Swift Key Exchange Report: .Default"** option from the **Search Result** section.

4. Click on the magnifying glass icon in the **Layout** field.

    Result

    The **"Swift Key Exchnage Audit Trail (SCREEN)"** layout will be selected.

5. Click the **Run** button.

Result

The Historic SWIFT Key Report is generated and displayed on the screen.

Figure 1: Historic Swift Key Exchange Report

The Invalidation User column in the Historic Swift Key Exchange Report shows the user who changed valid details and made them invalid. The Invalidation Timestamp column shows the time and date when the user made the details invalid.