SWIFT / SIC / SECOM / SEPA / TARGET2 2024

Customization Upgrade Guide
Release Independent
Area: Settlement

Latest version of this document

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Version History

Version / Date	Section	Description of the change
Release independent v1 / 27 September 2024		Updated with SIC and Target2 upgrade information.
Release independent v0 /10 September 2024		This is a new document.

Contents

1   Introduction

This area describes the required changes to prepare the upgrade of SWIFT, SIC, PostFinance, SECOM, SEPA and Target2 in November 2024.

Further Reading

For more information, read the following:

SWIFT Release 2024 - Business User Guide (doc. ID: 1420)	Provides information about the SWIFT Standards MT release in November 2024.
SIC Release 4.10 - November 2024 - Business User Guide (doc. ID: 2140)	Provides an overview of the changes in Avaloq Core regarding SIC Release 4.11.
Target2 Release – Business User Guide (doc ID: 6778)	Provides an overview of the changes in Avaloq Core in response to Target2 updates that take effect on 17 November 2024.

Table 1: Further reading

2   Customization Upgrade November 2024

2.1   Checklist for November 2024

This section serves as an overview for necessary upgrade steps in November 2024.

SWIFT

The table below provides a checklist of steps to be done before or after an upgrade.

Upgrade Step	Done
Before upgrade	
On the productive Avaloq Core, on the date the release upgrade is productive on the SWIFT FIN network, set the `netw_release_id` item of the `avq.msg.swift` base parameter to "swift$sss24".	[ ]
Check / adapt your CSS in accordance with the changes to the SWIFT messages listed in ["Upgrading SWIFT MT for November 2024" on page 10](#) . For more information, see *SWIFT Release 2024 - Business User Guide* (doc. ID: 1420).	[ ]
After upgrade	
Upload the Bank Directory Plus directory.	[ ]

Table 2: Migration checklist SWIFT (November 2024)

Target2

The table below provides a checklist of steps to be done before or after an upgrade.

Upgrade Step	Done
Before upgrade	
On the productive Avaloq Core, on the date the release upgrade is productive on the Target2 network, set the `netw_release_id` item of the `avq.msg.swift` base parameter to "swift$sss24". **This is optional**, but recommended so that any customizations made in the next step can be conditional based on it.	[ ]
Check / modify your customizations in accordance with the Target2 messages listed in ["Upgrading Target2 for November 2024" on page 20](#). For more information, see *Target2 Release 2024 – Business User Guide* (doc. ID: 6778).	[ ]

Table 3: Migration checklist Target2 (November 2024)

SIC

The table below provides a checklist of steps to be done before or after an upgrade.

Upgrade Step	Done
Before upgrade	
On the productive Avaloq Core, on the date the release upgrade is productive on the SIC network, set the `netw_release_id` item of the `avq.msg.swift` base parameter to "swift$sss24".	[ ]
Check / modify your customizations in accordance with the SIC messages listed in "Upgrading SIC for November 2024" on page 16. For more information, see *SIC Platform Release 4.11 - Business User Guide* (doc. ID: 2140).	[ ]

Table 4: Migration checklist SIC (November 2024)

3   SWIFT MT Customization Upgrade November 2024

3.1   SWIFT MT Changes for November 2024

The following sections describe the changes you must make to your SWIFT MT implementation for the SWIFT MT 2024 release.

For more information about kernel changes made to comply with the latest SWIFT specification, see *SWIFT Release 2024 - Business User Guide (doc. ID: 1420)*.

3.1.1 SWIFT MT Modified Avaloq Sources November 2024

The following sources were modified:

Network Structure SWIFT1

The following changes have been made to this source:

Tag	Field name	Field Format	New/modified
12F	Option or Forward Style	4!c	Modified name
14B	Adjustment Type	2!c	Modified name
14P	Averaging Method	4!c	New
14Q	Averaging Date Disruption Consequence	4!c	New
14R	Averaging Date Business Day Convention	4!c	New
16D	Maximum Days of Postponement	2n	New
16W	Maximum Days of Postponement	4!c	New
19C	Adjustment Factor	[1!s]/15d	Modified name

Network Structure SWIFT2

The following changes have been made to this source:

Tag	Field name	Field format	New/modified
22U	Unique Product Identifier	12a	Modified name, format
22Z	Unique Product Identifier	12a	Modified name, format
29Q	Valuation Business Days	4!c	New
29W	Expiration or Valuation Location and Time	4!c	New

Network Structure SWIFT3

The following changes have been made to this source:

Tag	Field name	Field format	New/modified
30K	Forward Rate or Strike Price Averaging Period	8!n//8!n	New
32B	Put currency and Amount or Party A Sold Currency and Amount	3!a/15d	Modified name
33B	Call Currency and Amount or Party A Bought Currency and Amount	3!a/15d	Modified name
36	Strike Price or Forward Rate	12d	Modified name

3.2   Upgrading SWIFT MT for November 2024

To keep up to date with the SWIFT MT 2024 release upgrade, complete the following steps.

The `netw_release_id` item of the `avq.msg.swift` base parameter defines the currently valid release for SWIFT and SIC. This item must be set at the date of a release upgrade. If this base parameter is not set, or is set with the value from a previous release, the implementation assumes the lowest possible or previous release for a given stream.

The `netw_release_id` base parameter item of the `avq.msg.sic` base parameter is no longer used and does not need to be updated. Instead, the `netw_release_id` item of the `avq.msg.swift` base parameter is used for all S4 releases.

> The changes for the 2024 release can be installed *before* the actual release date.
>
> Message structures are extended to support the old and new releases. Outgoing message handlers are capable of completing the messages in both the old *and* new formats for each network.
>
> The decision of which version to use is specified in the `netw_release_id` item of the `avq.msg.swift` base parameter.

3.2.1   Prerequisite

Before testing the changes delivered for SWIFT Standards MT Release November 2024, you must set the `netw_release_id` item of the `avq.msg.swift` base parameter to "swift$sss24" on the testing environment. When moving the change to production, you must also ensure that this value is set.

3.2.2   Steps to Follow

1. On the productive Avaloq Core, on the date the release upgrade is productive on the SWIFT FIN network, set the `netw_release_id` item of the `avq.msg.swift` base parameter to "swift$sss24".

2. Check your CSS for the following messages types. Some fields and options have been removed or replaced by new fields and options. For information about the changes that have been delivered, ensure you read *SWIFT Release 2024 - Business User Guide (doc. ID: 1420)*.

   - MT300
   - MT304
   - MT305
   - MT306
   - MT340
   - MT341
   - MT360
   - MT361
   - MT564
   - MT566

- MT567
- MT600
- MT601
- MT620

3.2.3   Result

The SWIFT MT implementation is up to date.

4 SIC Customization Upgrade November 2024

4.1 SIC Changes for November 2024

The information below describes the changes you need to make to your SIC/euroSIC implementation for the SIC 4.11 release in November 2024. These updates are required due to changes to the kernel code implemented by Avaloq, in accordance with the latest SIC specifications. Review any existing customization for the related message types to ensure that your implementation is valid for the 2024 specification.

For more information about about kernel changes made to comply with the latest SIC specification, see *SIC Release 4.11 - November 2024 - Business User Guide* (doc. ID: 2140).

4.1.1 Adjustments to reclaims from the "Bank and third-party system payments (pacs.009)" message

With effect from Release 4.11 on 15th November 2024, participants handling bank and third-party-system payments (pacs.009) will be able to send and receive return requests (camt.056) in relation to these payments. Participants will also be able to send and receive either a payment return (pacs.004) or a return request rejection (camt.029) as a response to the return request. In addition, participants will be able to receive status requests (pacs.028) in relation to return requests.

camt.056 with pacs.009

Avaloq has implemented the following changes:

- A new MX.CAMT056_V08_SIC_04 (MSG BDL STRUCT) source based on MX.CAMT.056.001.08.CH.04.XSD (XSD), which groups together all the new msg structs (one per block):
  - MX.CAMT056N_V08_04 (MSG STRUCT)
  - MX.CAMT056N_V08_SIC_ASGN_04 (MSG STRUCT)
  - MX.CAMT056N_V08_SIC_CTRL_04 (MSG STRUCT)
  - MX.CAMT056N_V08_SIC_TRX_04 (MSG STRUCT)
  - MX.CAMT056N_V08_04 (MSG STRUCT)
- Other new sources:
  - MX_CAMT_056_001_08_CH_04_XSD (NETW STRUCT)
  - MX.CAMT056_V08_SIC_04.EUSIC.OUT (MSG BDL OUT)
  - MX.CAMT056_V08_SIC_04.SIC.OUT (MSG BDL OUT)
  - MX.CAMT056_V08_SIC_04.IN (MSG BDL IN)
- Existing sources have been modified to support the new meta_msg_struct:
  - MX_CAMT056N_TRX_IN (SCRIPT PACKAGE)
  - MX_CAMT056N_TRX (SCRIPT PACKAGE)
  - MX_CAMT056N_SIC_TRX (SCRIPT PACKAGE)
  - MX.CAMT056N_SIC_TRX (MSG OUT)
  - MX.CAMT056N_SIC_TRX.XB (MSG OUT)

Impact on customization

- A new row has been added in CODE_FILE_UPL_TYPE (CODE TAB), associated with the newly created msg bundle with intl_id = mx_camt056_v8_sic_04. If you manage message upload via external files, customize the following sources:
  - CODE_FILE_UPL_TYPE_CONFIG (CODE TAB)
  - CODE_ORDER_TYPE.RUN (CODE TAB)
- Update the message out delivery rules by adding the new meta msg bundles, mx_camt056_v08_sic_04_ sic_out and mx_camt056_v08_sic_04_eusic_out.

camt.056 with pacs.009 trigger from Settlement

Avaloq has implemented the following changes:

- TASK_SETTLE_RETURN has been extended with SIC messages to support the sending of camt.056 SIC messages that can be triggered from SETTLE:
  - netw_struct.mx.msg_out.pacs008n_sic
  - netw_struct.mx.msg_out.pacs008n_sic_xb
  - netw_struct.mx.msg_out.pacs008n_sic_fast
  - netw_struct.mx.msg_out.pacs009n_sic_cmp
  - netw_struct.mx.msg_out.pacs009n_sic_cov
  - netw_struct.mx.msg_out.pacs009n_sic_f2f
  - netw_struct.mx.msg_out.pacs009n_sic_f2f_xb
- camt.056 SIC and SIC XB msg out handlers have been extended to support sending directly from SETTLE as well as PAY.

Impact on customization

No additional customization is required – existing configuration of camt.056 SIC and camt.056 SIC XB outgoing messages is already sufficient.

camt.029 with pacs.009

Avaloq has implemented the following changes:

- A new MX.CAMT029_V09_SIC_03 (MSG BDL STRUCT) source based on MX.CAMT.029.001.09.CH.03.XSD (XSD), which groups together all the new msg structs (one per block):
  - MX.CAMT029N_V09_SIC_ASSGNMT_03 (MSG STRUCT)
  - MX.CAMT029N_V09_SIC_CLM_NON_RCT_DTLS_03 (MSG STRUCT)
  - MX.CAMT029N_V09_SIC_MOD_DTLS_03 (MSG STRUCT)
  - MX.CAMT029N_V09_SIC_RSLTN_RLTD_INF_03 (MSG STRUCT)
  - MX.CAMT029N_V09_SIC_RSLVD_CASE_03 (MSG STRUCT)
  - MX.CAMT029N_V09_SIC_STS_03 (MSG STRUCT)
  - MX.CAMT029N_V09_SIC_TRX_03 (MSG STRUCT)

- Other new sources:
    - MX_CAMT_029_001_09_CH_03_XSD (NETW STRUCT)
    - MX.CAMT029_V09_SIC_03.IN (MSG BDL IN)
    - MX.CAMT029_V09_SIC_MOD_DTLS (MSG STRUCT)
    - MX.CAMT029_V09_SIC_03.EUSIC.OUT (MSG BDL OUT)
    - MX.CAMT029_V09_SIC_03.SIC.OUT (MSG BDL OUT)
- Existing sources have been modified to support the new meta_msg_struct:
    - MX_CAMT029N_SIC_INQ_IN (SCRIPT PACKAGE)
    - MX_CAMT029N_SIC_TRX_IN (SCRIPT PACKAGE)
    - MX_CAMT029N_TRX_IN (SCRIPT PACKAGE)
    - MX.CAMT029N_SIC_TRX (MSG OUT)
    - MX.CAMT029N_SIC_TRX.XB (MSG OUT)
    - MX_CAMT029_VALID (SCRIPT PACKAGE)
    - MX_CAMT029N_SIC_INQ (SCRIPT PACKAGE)
    - MX_CAMT029N_SIC_TRX (SCRIPT PACKAGE)
    - MX_CAMT029N_TRX (SCRIPT PACKAGE)
- New generic handlers have been added:
    - MX.CAMT029N_V09_SIC_MOD_DTLS (MSG OUT)
    - MX.CAMT029N_V09_SIC_TRX (MSG OUT)
    - MX.CAMT029N_V09_SIC_TRX.XB (MSG OUT)
    - MX.CAMT029N_V09_SIC_MOD_DTLS.IN (MSG IN)
    - MX.CAMT029N_V09_SIC_TRX.IN (MSG IN)
- New procedures added to MX_CAMT029N_SIC_BDL_OUT_CSS (SCRIPT PACKAGE) for NOV 24+ version
    - `pay_in q#ovr_assgnr_v09`
    - `pay_inq#ovr_assgne_v09`

Impact on customization

- A new row has been added in CODE_FILE_UPL_TYPE (CODE TAB), associated with the newly created msg bundle with intl_id = mx_camt029_v9_sic_03. If you manage message upload via external files, customize the following sources:
    - CODE_FILE_UPL_TYPE_CONFIG (CODE TAB)
    - CODE_ORDER_TYPE.RUN (CODE TAB)
- Update the message out delivery rules by adding the new meta msg bundles, mx_camt029_v09_sic_03_sic_out and mx_camt029_v09_sic_03_eusic_out.

pacs.004 with pacs.009

Avaloq has implemented the following changes:

Existing sources have been modified to support the pacs.009 message.

- PAY_INQ (SCRIPT PACKAGE)
- MX.PACS004N_TRX.SIC.IN (MSG IN)

Impact on customization

No additional customization is required.

4.1.2   Standardisation of the handling of returns across all services

Participants can now use a new return reason code, "CUST", in the element `RtrRsnInf/Rsn/Cd` in the Payment Return (pacs.004) message. This new code represents the case where the return is at the request of the creditor. This is valid for payment returns of type CSTRTN.

Avaloq has implemented the changes below, and there is no impact on customization.

pacs.004

For an outgoing pacs.004, a new value ("CUST") has been added to `TxInf/RtrRsnInf/Rsn/Cd`. This can only be used when the original payment is a customer payment (CSTRTN), for pacs.008 and pacs.009 SIC messages.

camt.053

An existing source has been modified to meet the new requirements:

- MX_CAMT053_CH_V08 (SCRIPT PACKAGE)

4.1.3   Adjustments to the Implementation Guidelines for Cash management - use of "Additional Entry Information" and "Account Service Reference"

Avaloq has implemented changes so that the following elements will be populated in the outgoing camt.053 message if populated in the order:

- "Additional Entry Information" (`BkToCstmrStmt/Stmt/Ntry/AddtlNtryInf`)
- "Account Servicer Reference"
  (`BkToCstmrStmt/Stmt/Ntry/NtryDtls/TxDtls/Refs/AcctSvcrRef`)

There is no impact on customization.

4.1.4   Standardisation of the amount split for all participants

Participants can now manually split payments that are greater than CHF 100 million (SIC RTGS) or EUR 50 million (euroSIC) into multiple partial payments. This can be achieved using the "Reduce Settlement" context action (see *Settlement - Customization Guide* (Doc ID: 2631)) on the Settlement order, where the original transaction message is on hold. The amount entered on the new settlement order reduces the original settlement order amount automatically by this value, and any subsequent requests to reduce settlement has the same effect.

To identify that these partial payments come from a specific original transaction, Avaloq has implemented changes so that the `.../PmtTpInf/SvcLvl/Cd` element in individual outgoing payments now includes the value "SPLI", indicating that it is a partial payment.

> ℹ️ The UETR value in each of these partial payments are unique to each partial payment.

There is no impact on customization.

4.2   Upgrading SIC for November 2024

To keep up to date with the SIC 2024 release upgrade, complete the following steps.

Avaloq has implemented some changes to the kernel code. The following changes *must* be made to keep customization in line with these changes.

The `netw_release_id` item of the `avq.msg.swift` base parameter defines the currently valid release for SWIFT and SIC. This item must be set at the date of a release upgrade. If this base parameter is not set, or is set with the value from a previous release, the implementation assumes the lowest possible or previous release for a given stream.

The `netw_release_id` base parameter item of the `avq.msg.sic` base parameter is no longer used and does not need to be updated. Instead, the `netw_release_id` item of the `avq.msg.swift` base parameter is used for all S4 releases.

> The changes for the 2024 release can be installed *before* the actual release date.
>
> Message structures are extended to support the old and new releases. Outgoing message handlers are capable of completing the messages in both the old *and* new formats for each network.
>
> The decision of which version to use is specified in the `netw_release_id` item of the `avq.msg.swift` base parameter.

4.2.1   Prerequisite

Before testing the changes delivered for SIC Standards Release 4.11 (November 2024), you must set the `netw_release_id` item of the `avq.msg.swift` base parameter to "swift$sss24" on the testing environment. When moving the change to production, you must also ensure that this value is set.

4.2.2   Steps to Follow

1. On the productive Avaloq Core, on the date the release upgrade is productive on the SIC network, set the `netw_release_id` item of the `avq.msg.swift` base parameter to "swift$sss24".

2. Review and, if required, modify your customizations related to the following message types:
   - pacs.009
   - pacs.004
   - camt.056
   - camt.029

4.2.3   Result

The SIC[4] implementation is up-to-date.

5 SECOM Customization Upgrade November 2024

No kernel changes are delivered for the SECOM network. Changes from SWIFT MT are also inherited in SECOM messages, so to keep your system current for the SECOM November 2024 update, review the and modify the relevant customization sources if required.

6   SEPA Customization Upgrade November 2024

No changes have been announced for SEPA for November 2024 and therefore no kernel changes are delivered for SEPA message types.

7   Target2 Customization Upgrade November 2024

7.1   Target2 Changes for November 2024

The information below describes the changes you need to make to your Target2 implementation for the 2024 release in November 2024. These updates are required due to changes to the kernel code implemented by Avaloq, in accordance with the latest Target2 specifications. Review any existing customization for the related message types to ensure that your implementation is valid for the 2024 specification.

Avaloq has delivered a modified version of the existing XSD, allowing parallel support for current and future Target2 releases.

> The kernel changes for Target2 are not guarded by a base parameter, but we do recommend that any customizations you make based on the information below include the condition that the value of the `avq.msg.swift$netw_release_id` base parameter item is "swift$sss24" or higher. For example:
>
> ```
> if netw_release.is_greater_or_eql(code_netw_release.swift$sss24)then...
> ```

For more information about kernel changes made to comply with the latest Target2 specification, see *Target2 Release 2024 – Business User Guide* (doc. ID: 6778).

7.1.1   pacs.008

Avaloq has implemented modifications to the message structure to ensure that:

- Unstructured address (`AdrLine` tag in the postal address) is enabled for previous agent 2, previous agent 3, intermediary agent 2 and intermediary agent 3 (`PrvsInstgAgt2`, `PrvsInstgAgt3`, `IntrmyAgt2`, `IntrmyAgt3`) tags.
- The town (`TwnNm`) and country (`Ctry`) subfields of the tags above are optional (which in the previous version were mandatory).

Impact on customization

- The `SLEV` option on charge bearer (`ChrgBr` tag) is no longer allowed to be transmitted.
  - You must modify your order validation or settlement plan rules to prevent pacs.008 TGT2 messages being sent out with the `SLEV` code. This is necessary because the kernel logic just copies whatever is on the payment order into the message.
- Remittance location details (`RmtLctnDtls` tag) is limited to a maximum of two occurrences (previously unbounded).
  - If you populate messages with this information, we recommend putting an order validation in place to prevent more than two occurrences after TGT2 release 2024.
- Debtor contact details (`Dbtr/.../CtctDtls` tag) is no longer allowed to be transmitted.
  - If you populate messages with this information, we recommend modifying the logic to prevent it being included in the message after TGT2 release 2024.

7.1.2   pacs.009

Avaloq has implemented modifications to the message structure to ensure that:

- Unstructured address (`AdrLine` tag in the postal address) is enabled for previous agent 2, previous agent 3, intermediary agent 2 and intermediary agent 3 (`PrvsInstgAgt2`, `PrvsInstgAgt3`, `IntrmyAgt2`, `IntrmyAgt3`) tags.
- The town (`TwnNm`) and country (`Ctry`) subfields of the tags above are optional (which in the previous version were mandatory).

Impact on customization

- Debtor contact details (`Dbtr/.../CtctDtls` tag) is no longer allowed to be transmitted.
    - If you populate messages with this information, we recommend modifying the logic to prevent it being included in the message after TGT2 release 2024.
- Code of the instruction for creditor agent (`InstrForCdtrAgt/Cd` tag) is no longer allowed to be transmitted.
    - If you populate messages with this information, we recommend modifying the logic to prevent it being included in the message after TGT2 release 2024.

7.1.3   pacs.004

Avaloq has implemented modifications to the message structure to ensure that:

- Unstructured address (`AdrLine` tag in the postal address) is enabled for previous agent 2, previous agent 3, intermediary agent 2 and intermediary agent 3 (`PrvsInstgAgt2`, `PrvsInstgAgt3`, `IntrmyAgt2`, `IntrmyAgt3`) tags.
- The town (`TwnNm`) and country (`Ctry`) subfields of the tags above are optional (which in the previous version were mandatory).

Impact on customization

- The `SLEV` and `DEBT` options on charge bearer (`ChrgBr` tag) are no longer allowed to be transmitted.
    - You must modify your order validation or settlement plan rules to prevent pacs.008 TGT2 messages being sent out with the `SLEV` or `DEBT` codes. This is necessary because the kernel logic just copies whatever is on the payment order into the message.
- Debtor contact details (`Dbtr/.../CtctDtls` tag) is no longer allowed to be transmitted.
    - If you populate messages with this information, we recommend modifying the logic to prevent it being included in the message after TGT2 release 2024.

7.2   Upgrading Target2 for November 2024

To keep up to date with the Target2 2024 release upgrade, complete the following steps.

Avaloq has implemented some changes to the kernel code. The following changes *must* be made to keep customization in line with these changes.

The `netw_release_id` item of the `avq.msg.swift` base parameter defines the currently valid release for SWIFT and SIC. The latest kernel changes for Target2 are **not** dependent on this item, but we do recommend setting it and making any related customizations conditional on its value being "swift$sss24".

7.2.1 Prerequisite

If you want to make customization changes conditional based on its value, you must set the `netw_release_id` item of the `avq.msg.swift` base parameter to "swift$sss24" on the testing environment. When moving the change to production, you must also ensure that this value is set.

7.2.2 Steps to Follow

1. On the productive Avaloq Core, on the date the release upgrade is productive on the SIC network, set the `netw_release_id` item of the `avq.msg.swift` base parameter to "swift$sss24". Again, this is optional but recommended so that you can make the customizations below conditional based on it.

2. Review and, if required, modify your customizations related to the following message types:
   - pacs.008
   - pacs.009
   - pacs.004

   Optionally, for these customizations include a condition based on the release ID set in **Step 1**. For example:

   ```
   if netw_release.is_greater_or_eql(code_netw_release.swift$sss24)then...
   ```

7.2.3 Result

The Target2 implementation is up-to-date.