

Foreign Exchange

Customization Upgrade Guide Release 5.4 Area: FX & Money Market

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Version History

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

The sections below are new or updated:

Version / Date	Section	Description of the change
5.4v0 / 20 April 2022		This is a new document.

Contents

1 Introduction	5
2 Upgrade steps	6
2.1 Base parameter item: map_maturity_to_val_date	6
2.2 Switching map_maturity_to_val_date from "+" to "-" (optional)	6

1 Introduction

This document describes the changes necessary to keep the existing functionality of components in the FX & Money Market area after an upgrade of the system to Release 5.4.

This document is for customization specialists.

2 Upgrade steps

2.1 Base parameter item: map_maturity_to_val_date

In Release 5.4 the default value of the map_maturity_to_val_date item of the avq.doc.fxtr base parameter has changed from "+" to "-". This is to align with the desired behaviour going forward for new clients. For a description of the item, see FX Trade - Customization Guide (doc ID: 2131).

If you haven't explicitly set this base parameter item to "+" or "-" in your customization (therefore relying on the default value), you must now **explicitly set the value to "+"** in Release 5.4 to keep the current behaviour of mapping the maturity date to doc.val date in the FXTR business type.

If you previously had map maturity to val date set to "+" and are switching to "-", you must:

- Check your customization to ensure that the maturity date of FXTR orders is always identified by doc_fxtr.maturity date and not by doc.val date
- Perform a mandatory data migration of existing forex forward orders

For more on these steps, see "Switching map_maturity_to_val_date from "+" to "-" (optional)" below.

If you already have map_maturity_to_val_date set to "-" on your current release, this change does not affect you.

2.2 Switching map_maturity_to_val_date from "+" to "-" (optional)

This section is only relevant if you previously had map_maturity_to_val_date set to "+" and want to change to "-". If you want to continue using the previous logic, just make sure map_maturity_to_val_date is set to "+" in your customization.

The following table gives examples of how dates are set depending on the setting of the base parameter item (Opening Order FX Forward on 07.07.2017 with Maturity 09.08.2017):

Field	Base par item = "+"	Base par item = "-"
doc_fxtr.trx_date	07.07.2021	07.07.2021
doc_fxtr.spot_date	09.07.2021	09.07.2021
doc_fxtr.val_date	09.08.2021	07.07.2021
doc_fxtr.maturity_date	09.08.2021 or NULL (depends on customization)	09.08.2017

If you are switching map maturity to val date from "+" to "-", follow the steps described below.

Check customization

If you have created your own forms, or you generate FX trades from messages, make sure you set the maturity of the FXTR order in doc_fxtr.maturity_date. When consuming the maturity date in customization, make sure it is always identified by doc fxtr.maturity date and not by doc.val date.

Migrate existing orders

Migrate existing FXTR orders to update the dates as they would have been set with the new base parameter value. Not doing this could lead to errors in areas like asset evaluation.

To migrate existing orders:

1. Read the current last pillar date

Run the following query with your specific bu_ids:

```
SELECT last pillar FROM base WHERE bu id = :bu id
```

You will need this date in step 4. If the last_pillar date is not set (the query returns null), you can skip steps 2 and 4 below

2. Run the Base Utility task (task ID: 802)



You can skip this step if the query in step 1 returned null.

Source: TASK_BASE_UTIL

Set the **Pillar Date** parameter to a value like "-1yv". It is important that you go further back in history than the minimum maturity date you will set in step **3** below.

Do not set any of the other parameters for the task.

3. Run a migration script

In the script below, enter the minimum maturity date (c_maturity_date) and additional order type groups (if you use others to open FXTR orders) to select the required FXTR orders.

Note that BGP 928 must be up and running to do the bookings.



You can first run the script without any modifications by commenting out the following part:

This allows you to check the log entries with the affected asset_ids. When you are happy, you can undo the comments and run the script.

The migration script:

```
declare
                                      constant date := to date('xx.xx.xxxx', 'dd.mm.yyyy'); --
 c maturity date
minimal Maturity Date that is updated
 c vbda activ on instn
                                     constant boolean := be#.vbda#is activ on instn;
                                             date;
 1 new book date
 l bu id
begin
 install#.log#write('Start val date migration script');
 install#.log#write(' Migrates trades, which have maturity later or equal >'||c maturity
date||'<');
 session#.open_session;
 for c in (
   select dc.id doc id
```

```
,dc.val_date old_val_date
,dc.trx_date new_val_date
          .ev.id
                  evt id
          ,ev.book date
          ,ev.done_date
          ,dc.bp_imed_id bu_id
         ,oa.obj_id
                        asset id
    from doc
              dc
       ,obj_asset oa
        ,evt3
    where dc.order\_type\_grp\_id in ( def\_order\_type\_grp\_fxtr.ofx
                                   ,def order type grp fxtr.opn nov in
                                   ,def_order_type_grp_fxtr.opn_ndf
                                   ,def_order_type_grp_fxtr.opn_ndf_nov_in
                                   ,def_order_type_grp_fxtr.opn_trsy_swap
                                   ) - If you use additional order type groups for opening FXTR orders
add them to this list
     and oa.obj_id = dc.asset_id
and dc.val_date = oa.maturity_date
and oa.maturity_date >= c_maturity_date
     and ev.doc_id = dc.id
                             > 0
     and ev.id and ev.pko_id
     and ev.id
                               = def be pko.tech
      and ev.evt status id != def evt status.sim
     and not exists (select null from evt3 where id = -ev.id)
   order by dc.bp imed id
 ) loop
   if l bu id is null
     or l_bu_id != c.bu_id
     session#.open session(i bu id => c.bu id);
     l bu id := c.bu id;
   end if:
   if c vbda activ on instn then
     l new book date := greatest(c.done date, c.new val date);
   install#.log#write(' Asset >'||c.asset_id||'< : Moving value date of order #' || c.doc_id || '</pre>
from ' || c.old_val_date || ' to '|| c.new_val_date ||', moving book date from ' || c.book_date || '
to ' || 1 new book date);
   update doc fxtr
   set maturity date = c.old val date
   where doc id = c.doc id;
   be#.evt#move(
                    => c.evt id
    ,i_new_book_date => l_new_book date
    ,i new val date => c.new val date
   );
 end loop;
 install#.log#write('End val date migration script');
```

4. Rerun the Base Utility task (task ID: 802)



You can skip this step if the query in step 1 returned null.

Enter the pillar date that you obtained in step 1 and rerun the task to set the system back to its original state.

5. Run the Evaluation of Financial Products task (task ID: 1848)

Source: TASK_EVAL

Run this task for the FXTR asset class with the appropriate scenario ("std" is used on the MDB). Check for errors of type "the capital is already redeemed".

If these errors occur, check the order type group of the related orders and add this order type group to the script in step 3. Then redo steps 1–5 and check the log entries again.

6. Recalculate desired offline pillars

For all online pillars of date type "value date" or "book date", the incremental recalculation is automatically triggered due to the value and book date modification of the FXTR orders.

For the offline pillars – like the balance pillar using book date – you must decide if you want to recalculate them or not. For example, you probably would *not* want to recalculate a year-end (book date) balance pillar, because the balance sheet has already been published.

The veri date—based balance pillar is not affected: all pillars (online and offline) that use date types other than "value date" or "book date" (e.g. "veri date") **are not affected by the migration** and will not change.



Lot accounting: FXTR only has a "position accrual" lot, which is affected in the same way as the position in a "book date" balance pillar: it will appear or disappear in line with the position bookings.