

Report AnaCredit

Methodology used for the comparison between "AnaCredit" and S 1.1/ S 1.5 (BSI/MIR) reports from 2023/12 onwards

Version 4.23



Summary of versions

Version	Date	Comments
1.0.0	30 November 2020	Initial Version
1.0.1	23 February 2021	Update of the definitions of the aggregates Minor update on the "Maturity" calculation
1.0.2	5 August 2021	The flag STTLD_FLG has been added to the BSI instruments identification flags
1.0.3	14 March 2022	Minor general update
1.0.4	1 June 2022	Update of the DQI calculation of the BSI comparison
2.0	22 June 2022	Update of the DQI calculation of the BSI comparison
3.0	13 November 2023	Small updates and introduction of flag "DBTR_RIAD_FND" Introduction of new MIR comparison Update of the DQI calculation
3.1	5 February 2024	Minor update on IS_FRBRN_UNDR_MRKT_CNDTNS Update of the deadline for any corrections
3.2	28 February 2024	Minor update on IS_FRBRN_UNDR_MRKT_CNDTNS
4.0	27 January 2025	Update of MIR comparison scope, DQI thresholds and DQI calculations Update on the table of the items on the MIR comparison Update of the calculation of the BSI_AGGRGBL_BLNC and IMIR_AGGRGBL_BLNC_NEW_BSNSS Update on the following flags: MTRTY, RCGNTN_FLG, STTLD_FLG, IS_BSI_INSTRMNT, IS_PRTLY_TRNSFRD, APPLCBLTY_PRTLLY_TRNSFRRD, IMPRMNT_FLG, FR_VL_FLG, ACQSTN_PRC_FLG, DQ_FLG, IMIR_AMNT_CTGRY, IS_RVLVNG, IS_FRBRN_UNDR_MRKT_CNDTNS, NOT_BD_LN_FLG, IS_NOT_FRBRNC_BLW_MRKT_CNDTNS, IS_IMIR_ONA_INSTRMNT, IS_IMIR_NB_INSTRMNT
4.1	31 March 2025	Update of the following flags: NON_TRDTNLLY_SEC_FLG, IMPRMNT_FLG, FR_VL_FLG, ACQSTN_PRC_FLG, DQ_FLG
4.2	30 April 2025	Precision of deadlines
4.3	30 May 2025	Update on the following flags: INTR CMPNY FLG, IS PRTLY TRNSFRD, DQ FLG, IS_INCPTD, IS_IMIR_NEW_BSNSS, IS_IMIR_ONA_INSTRMNT, IS_IMIR_NB_INSTRMNT, IMIR_INSTRMNT_BLNC_NEW_BSNSS Creation of new flags for better data quality issue identification: IS_INCPTD_LST_MNTH, IS_RNGTTD_LST_MNTH, IS_NOT_FCTRNG, IS_ONA_PSTV, IS_OBSA_PSTV, IS_UNSD_CRDT_LN Renaming of flags: IS_FRBRN_UNDR_MRKT_CNDTNS to IS_RNGTTD

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1 Introduction

The European Central Bank (ECB) and the national central banks (NCB) have introduced a quarterly comparison report between AnaCredit and the balance sheet items report (BSI / S 1.1). The main objective of these reports consists in evaluating the consistency between the reports and in verifying the completeness of AnaCredit data.

From 2021, the comparison report applies to all reporting agents reporting BSI data to the BCL. Moreover, from December 2023, a new comparison report between AnaCredit and interest rate data (MIR / S 1.5) has been put in place as well¹.

In this context, the BCL wishes to inform its reporting agents of any inconsistencies detected in order to anticipate their corrections. It is important to note that the ECB relies on the reference data of the RIAD database for the classification of counterparties. It is therefore conceivable that DQIs considered acceptable at the BCL are not acceptable at the ECB. This discrepancy could possibly require a resubmission of the reporting agent.

2 Methodology

2.1 Basic principles

The comparison between AnaCredit and BSI reports comprises fourteen items ("aggregates") and one total item ("Total EA loans"). As for the comparison with MIR data, the three summary items have to be corrected from December 2023 onwards, while 43 sub-aggregates have to be corrected from March 2025 onwards. Data quality checks via data quality indicators (DQIs) on each of the items for the BSI comparison are applied from the reference month of March 2021 onwards.

The level of consistency of AnaCredit reports compared to BSI / S 1.1 and MIR / S 1.5 reports is assessed based on a DQI calculated by the BCL. The table below summarizes the qualitative requirements according to the reference periods.

Items	From December 2023	
BSI item "Total EA loans"	DQI < 0,75%	
BSI items 1-12	DQI < 2,5%	
MIR Summary Items	DQI < 2,5%	
MIR Other Items	DQI < 3%	From 2025-03 onwards

¹ The comparison report between AnaCredit and MIR will only be sent to banks submitting the S 1.5 report in Luxembourg.

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The DQI is calculated as the amount affected divided by the total outstanding nominal amount of the observed agent. Please find below the calculations for the different DQIs:

$$BSI\ DQI\ for\ Volumes = \frac{abs(AnaCredit_Amount - BSI_Amount)}{Outstanding\ nominal\ amount\ of\ OA}$$

$$MIR\ DQI\ for\ Interest\ Rates = \frac{MAX_V*min\left(\frac{max(0,abs(AnaCredit_{IR} - MIR_{IR}) - T)}{0,01},1\right)}{Outstanding\ nominal\ amount\ of\ OA}$$

$$MIR\ DQI\ for\ Volumes = \frac{MIR_Amount_affected}{Outstanding\ nominal\ amount\ of\ OA}$$

, where MAX_V = max(AnaCredit_Amount, MIR_Amount)

IR=Interest rate

OA=Observed agent

Amount= respective aggregable balance amounts

T= discrepancy allowed due to methodological differences defined by the ECB

We would like to remind you that all attributes and acceptable values are described more in detail in manual part II.

Please note that the threshold of 25 kEUR applied in AnaCredit does not exist in S 1.1 reporting. Therefore, the amount reported in AnaCredit should never be greater than the amount shown in report S 1.1.

2.2 Comparison with BSI (S 1.1)

2.2.1 Calculation method

The aggregates calculated for the comparison of AnaCredit and BSI data are described in this chapter.

AnaCredit instruments are broken down based on the following attributes:

- Country (CNTRY), where:
 - CNTRY_OA = the country of residence of the observed agent
 - CNTRY_DBTR = the country of residence of the debtor
- Institutional sector (INSTTTNL_SCTR), where:



- INSTTTNL_SCTR_DBTR = the debtor's institutional sector
- Original maturity (MTRTY), where:

```
IF (CNTRY OA in {"LT", "GR"} AND TYP INSTRMNT IN {"Revolving credit other than overdrafts and credit card
debt", "Overdraft", "Credit card debt"}) OR (CNTRY OA = "AT" AND TYP INSTRMNT = "Credit card debt") OR
(CNTRY_OA = "PT" AND TYP_INSTRMNT = "Revolving credit other than overdrafts and credit card debt") THEN
MTRTY = "Up to 1 year";
ELSE IF NEVS_DT_LGL_FNL_MTRTY = "0" THEN DO;
      IF TYP INSTRMNT IN ("Revolving credit other than overdrafts and credit card debt", "Overdraft", "Credit
      card debt", "Credit lines other than revolving credit") OR (TYP_INSTRMNT = "Trade receivables" AND
      CNTRY_OA in {"CY", "FR", "IT", "AT"} ) OR (TYP_INSTRMNT = "Reverse repurchase agreements" AND
      CNTRY_OA = "AT") OR RPYMNT_RGHTS = "On demand or short notice" THEN MTRTY = "Up to 1 year";
      ELSE MTRTY = "Above 5 years";
      END:
ELSE DO:
      IF CNTRY_OA = "DE" THEN DO;
            ELSE IF DT_LGL_FNL_MTRTY - DT_STTLMNT < 1 year THEN MTRTY = "Up to 1 year";
            ELSE IF DT_LGL_FNL_MTRTY - DT_STTLMNT < 5 years THEN MTRTY = "Over 1 year and up to
            5 years";
            ELSE IF DT_LGL_FNL_MTRTY - DT_STTLMNT >= 5 years THEN MTRTY = "Above 5 years";
            ELSE MTRTY = "-":
      END:
      ELSE DO:
            ELSE IF DT_LGL_FNL_MTRTY - DT_STTLMNT <= 1 year THEN MTRTY = "Up to 1 year";
            ELSE IF DT_LGL_FNL_MTRTY - DT_STTLMNT <= 5 years THEN MTRTY = "Over 1 year and up
            to 5 years";
            ELSE IF DT_LGL_FNL_MTRTY - DT_STTLMNT > 5 years THEN MTRTY = "Above 5 years";
            ELSE MTRTY = "-";
      END;
END:
```

Type of instrument (TYP_INSTRMNT)

Similarly, the BSI sub-aggregates are aggregated taking into account the following variables:

- Country
- Currency
- Sector
- Maturity

The sum of BSI aggregable balance of instruments granted to counterparties resident in the euro area ("Total EA loans") corresponds to the sum of the 14 aggregates mentioned above minus aggregates 1.1 and 12.



Thus, the AnaCredit-BSI comparison will include the following 14 aggregates²:

lt avec	D	AnaCredit	S 1.1 (BSI) Item 1-002000				
Item	Description	Condition	Country	Currency	Sector	Maturity	
1.	Loans to domestic MFIs	CNTRY_DBTR = CNTRY_OA AND INSTTTNL_SCTR_DBTR IN {"S.121", "S.122", "S.123"}	LU	EUR XX2	31000 32100 32200 33000	I000-01A I01A-02A I02A-05A I05A-999	
1.1	Loans to domestic central banks	CNTRY_DBTR = CNTRY_OA AND INSTTTNL_SCTR_DBTR = "S.121"	LU	EUR XX2	31000	I000-01A I01A-02A I02A-05A I05A-999	
2.	Loans to domestic general government	CNTRY_DBTR = CNTRY_OA AND INSTTTNL_SCTR_DBTR IN {"S.1311", "S.1312", "S.1313", "S.1314"}	LU	EUR XX2	11000 12000	I000-01A I01A-02A I02A-05A I05A-999	
4.1	Loans to domestic NFCs, up to 1 year	CNTRY_DBTR. = CNTRY_OA AND INSTTTNL_SCTR_DBTR = "S11" AND MTRTY = "Up to 1 year"	LU	EUR XX2	21000	I000-01A	
4.2	Loans to domestic NFCs, over 1 year and up to 5 years	CNTRY_DBTR = CNTRY_OA AND INSTTTNL_SCTR_DBTR = "S11" AND MTRTY = "Over 1 year and up to 5 years"	LU	EUR XX2	21000	I01A-02A I02A-05A	

² Loans to debtors belonging to the institutional sector S.15 are excluded from the comparison.

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4.3	Loans to domestic NFCs, over 5 years	CNTRY_DBTR = CNTRY_OA AND INSTTTNL_SCTR_DBTR = "S11" AND MTRTY = "Above 5 years"	LU	EUR XX2	21000	I05A-999
5.	Loans to other euro area MFIs (excluding Luxembourg)	CNTRY_DBTR <> CNTRY_OA AND (CNTRY_DBTR IN {Euro area countries}) AND INSTTTNL_SCTR_DBTR IN {"S.121", "S.122", "S.123"}	Х3	EUR XX2	31000 32100 32200 33000	I000-01A I01A-02A I02A-05A I05A-999
6.	Loans to other euro area general government (excluding Luxembourg)	CNTRY_DBTR <> CNTRY_OA AND (CNTRY_DBTR IN {Euro area countries}) AND INSTTTNL_SCTR_DBTR IN {"S.1311", "S.1312", "S.1313", "S.1314"}	X3	EUR XX2	11000 12000	I000-01A I01A-02A I02A-05A I05A-999
8.1	Loans to other euro area NFCs (excluding Luxembourg), up to 1 year	CNTRY_DBTR <> CNTRY_OA AND CNTRY_DBTR IN {Euro area countries} AND INSTTTNL_SCTR_DBTR = "S.11" AND MTRTY = "Up to 1 year"	X3	EUR XX2	21000	I000-01A
8.2	Loans to other euro area NFCs (excluding Luxembourg), over 1 year and up to 5 years	CNTRY_DBTR <> CNTRY_OA AND CNTRY_DBTR IN {Euro area countries} AND INSTTTNL_SCTR_DBTR = "S.11" AND MTRTY = "Over 1 year and up to 5 years"	Х3	EUR XX2	21000	I01A-02A I02A-05A
8.3	Loans to other euro area NFCs (excluding Luxembourg), over 5 years	CNTRY_DBTR <> CNTRY_OA AND CNTRY_DBTR IN {Euro area countries} AND INSTTTNL_SCTR_DBTR = "S.11" AND MTRTY = "Above 5 years"	Х3	EUR XX2	21000	I05A-999

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9.	Loans to euro area OFIs and non- MMF investment funds	CNTRY_DBTR IN {Euro area countries} AND INSTTTNL_SCTR_DBTR IN {"S.124", "S.125", "S.126", "S.127"}	LU X3	EUR XX2	41000 42000 43000 44000	I000-01A I01A-02A I02A-05A I05A-999
10.	Loans to EA ICPFs (euro area insurance corporations and pension funds)	CNTRY_DBTR IN {Euro area countries} AND INSTTTNL_SCTR_DBTR IN {"S.128", "S.129"}	LU X3	EUR XX2	45000 46000	I000-01A I01A-02A I02A-05A I05A-999
12.	Loans to the rest of the world	CNTRY_DBTR NOT IN {Euro area countries}	X4	EUR XX2	11000 12000 21000 31000 32100 32200 33000 40000	I000-01A I01A-02A I02A-05A I05A-999

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2.2.2 Instruments excluded from BSI calculation

It is important to note that only instruments eligible for BSI and meeting a certain level of quality are considered in the calculation of aggregates. In this regard, flags have been created in order to i) identify BSI instruments and to ii) check the data quality. The methodology is described in detail below.

2.2.2.1 BSI instruments identification flags

Four flags are calculated to determine the eligibility of instruments for the calculation of BSI aggregates and they can take the value of:

- 1 (included for the calculation of BSI aggregates)
- 0 (excluded for the calculation of BSI aggregates)
- -1 (attribute missing)

Instruments for which at least one flag equals 0 or -1 are excluded from the calculation of the aggregates. These instruments are therefore listed in the excluded instruments sheet. The data should be checked and, if necessary, corrected.

• IS NOT FDCRY

Only non-fiduciary instruments are considered in the calculation of BSI aggregates.

```
IF FDCRY = "Non-fiduciary instrument" THEN IS_NOT_FDCRY = 1;
ELSE IF FDCRY = "Fiduciary instrument" THEN IS_NOT_FDCRY = 0;
ELSE IS_NOT_FDCRY = -1;
```

• RCGNTN FLG

Fully derecognized instruments are not considered in the calculation of BSI aggregates, except for "intra-company" instruments.

```
IF RCGNTN_STTS is Null THEN RCGNTN_FLG = -1;

ELSE IF RCGNTN_STTS in {"Entirely recognised", "Recognised to the extent of the institution's continuing involvement"} THEN RCGNTN_FLG = 1;

ELSE RCGNTN_FLG = 0;
```



• INTR CMPNY FLG

All "intra-company" instruments are included in the calculation of the BSI aggregates, including fully derecognized instruments.

IF HD OFFC UNDRT ID DBTR is not NULL AND HD OFFC UNDRT ID DBTR = HD OFFC UNDRY ID OA THEN INTR CMPNY FLG = 1;

ELSE INTR_CMPNY_FLG = 0;IF HD_OFFC_UNDRT_ID_DBTR is NULL AND HD OFFC UNDRT ID OA is NULL **THEN** INTR CMPNY FLG = 0;

ELSE IF HD_OFFC_UNDRT_ID_DBTR = HD_OFFC_UNDRT_ID_OA OR ENTTY_ID_DBTR = HD OFFC UNDRT ID OA OR HD OFFC UNDRT ID DBTR = ENTTY ID OA THEN

Where:

- HD_OFFC_UNDRT_ID_DBTR = debtor's head office identifier
- HD OFFC UNDRT ID OA = observed agent's head office identifier
- ENTTY_ID_DBTR = entity id of the debtor
- -ENTTY ID OA = entity id of the observed agent

• NON_TRDTNLLY_SEC_FLG

This flag on traditional securitisation does not apply to Luxembourgish observed agents.

```
IF CNTRY OA = "Ireland" AND TYP SCRTSTN = "Traditional securitisation" THEN
NON_TRDTNLLY_SEC_FLG = 0;
ELSE NON_TRDTNLLY_SEC_FLG = 1;
```

• STTLD FLG

Instruments, which have not been settled, are not considered in the calculation of BSI aggregates.

```
IF DT_STTLMNT is Null THEN STTLD_FLG = -1;
ELSE IF DT STTLMNT <= DT RFRNC AND NEVS DT STTLMNT <> "0" THEN
STTLD_FLG = 1;
ELSE STTLD_FLG = 0;
```

Finally, the flag on the BSI eligibility of an instrument in AnaCredit is calculated taking into account the results of the four flags described above:



```
IF IS_NOT_FDCRY = 1 AND NON_TRDTNLLY_SEC_FLG = 1 AND (RCGNTN_FLG = 1 OR
(RCGNTN_FLG = 0 AND INTR_CMPNY_FLG = 1) AND STTLD_FLG = 1 THEN
IS_BSI_INSTRMNT = 1;
ELSE IS_BSI_INSTRMNT = 0;
```

All instruments whose flag "IS_BSI_INSTRMNT" is equal to 1 are taken into account when calculating BSI aggregates. Conversely, instruments with a flag equal to 0 or -1 are excluded from the calculation. These are listed in the feedback "BSI_EXC_INSTRMNT".

2.2.2.2 Data quality flags

Similar to the BSI instrument identification flags described above, the data quality flags are first calculated individually before they are added to the global flag. The latter indicates whether the data quality of an instrument is sufficient to be included in the BSI aggregates. The data quality flags can take three values:

- 1 (the quality is good)
 No correction is expected.
- 0 (quality cannot be measured)
 It is up to the reporting agent to verify the data if a difference is noted in the DQI.
- -1 (an error was detected)

Instruments for which at least one flag equals 0 or -1 are excluded from the calculation of the aggregates. These instruments are therefore listed in the excluded instruments sheet. The data should be checked and, if necessary, corrected.

IS ACCNTNG RPRTD

This flag checks if accounting data has been reported.

```
IF INSTRMNT.INSTRMNT_ID EXISTS IN ACCORDING.INSTRMNT_ID THEN
IS_ACCORDING_RPRTD = 1;
ELSE IS_ACCORDING_RPRTD = -1;
```

• IS_PRTLY_TRNSFRD

This flag checks if the instrument has been partially transferred.



IF <u>NEVS</u>_OTSTNDNG_NMNL_AMNT is <u>not</u> Null OR <u>NEVS</u>_TRNSFRRD_AMNT is <u>not</u> Null OR OTSTNDNG_NMNL_AMNT < TRNSFRRD_AMNT THEN IS_PRTLY_TRNSFRD = -1;

ELSE IF OTSTNDNG_NMNL_AMNT = TRNSFRRD_AMNT **OR** TRNSFRRD_AMNT = 0 **THEN** IS PRTLY TRNSFRD = 0:

ELSE IF OTSTNDNG_NMNL_AMNT > TRNSFRRD_AMNT > 0 THEN IS_PRTLY_TRNSFRD = 1;

ELSE IS_PRTLY_TRNSFRD = 0-1;

APPLCBLTY_PRTLLY_TRNSFRRD

This flag checks if the partially transferred flag is applicable.

```
IF CNTRY_OA <> "ES" THEN APPLCBLTY_PRTLLY_TRNSFRRD = 1;
ELSE APPLCBLTY_PRTLLY_TRNSFRRD = 0;
```

• IMPRMNT FLG

This flag checks if the instrument has been impaired.

```
IF (CNTRY_OA= "FI" AND ACCMLTD_IMPRMNT is not NULL) OR (CNTRY_OA= "DE" AND ACCMLTD_IMPRMNT is not NULL AND IMPRMNT_ASSSSMNT_MTHD = "Individually assessed") THEN IMPRMNT_FLG = 1;

ELSE IMPRMNT_FLG = 0;
```

• FR_VL_FLG

This flag checks if a instrument has to be accounted for at fair value.

```
IF CNTRY_OA in {"DE","FI"} AND ACCMLTD_CHNGS_FV_CR is not NULL THEN
FR_VL_FLG = 1;
ELSE FR_VL_FLG = 0;
```

ACQSTN_PRC_FLG

This flag checks if the instrument has to transformed into the acquisition price.



IF (CNTRY_OA in {"AT","BE","DE","SI"} AND FV_CHNG_CR_BFR_PRCHS is not NULL) OR (CNTRY_OA = "IT" AND FV_CHNG_CR_BFR_PRCHS is not NULL AND DT_RFRNC < 202201)THEN ACQSTN_PRC_FLG = 1;

ELSE ACQSTN_PRC_FLG = 0;

• IS JNT LBLTY RPRTD ALL

This flag checks whether joint liabilities have been reported for each pair instrument-debtor.

```
IF JNT_LBLTY_AMNT is not NULL THEN IS_JNT_LBLTY_RPRTD_ALL_PRP = 1;
ELSE IS_JNT_LBLTY_RPRTD_ALL_PRP = -1;
```

The flag below checks that if no joint liability is reported, the number of debtors linked to the instrument is equal to 1. If this condition is not met (i.e. more than one debtor is linked to the instrument), then the flag is equal to -1.

```
IF min(IS_JNT_LBLTY_RPRTD_ALL_PRP) = 1 THEN IS_JNT_LBLTY_RPRTD_ALL = 1;
ELSE IF min(IS_JNT_LBLTY_RPRTD_ALL_PRP) = -1 AND NMBR_DBTRS = 1 THEN
IS_JNT_LBLTY_RPRTD_ALL = 0;
ELSE IS_JNT_LBLTY_RPRTD_ALL = -1;
```

Where:

- NMBR DBTRS = the number of debtors in an instrument
- IS_JNT_LBLTY_CMPLT

This flag checks if the sum of joint liability amount is greater or equal to the outstanding nominal amount for multi-debtor instruments.

```
IF NMBR_DBTRS > 1 AND IS_JNT_LBLTY_RPRTD_ALL =-1 THEN
IS_JNT_LBLTY_CMPLT = -1;
ELSE IF NMBR_DBTRS > 1 AND sum(JNT_LBLTY_AMNT) => OTSTNDNG_NMNL_AMNT
THEN IS_JNT_LBLTY_CMPLT = 1;
ELSE IF NMBR_DBTRS > 1 AND sum(JNT_LBLTY_AMNT) < OTSTNDNG_NMNL_AMNT
THEN IS_JNT_LBLTY_CMPLT = 0;</pre>
```

• IS_JNT_LBLTY_CN_ONA

This flag checks whether the maximum amount of all joint liabilities of an instrument is less than or equal to the outstanding nominal amount.



```
IF max(JNT_LBLTY_AMNT) <= OTSTNDNG_NMNL_AMNT THEN
IS_JNT_LBLTY_CN_ONA = 1;
ELSE IS_JNT_LBLTY_CN_ONA = -1;</pre>
```

IS_DBTR_NOT_THE_OA

This flag verifies that the observed agent³ is not the debtor of the instrument.

```
IF DBTR_RIAD <> OBSRVD_AGNT_CD THEN IS_DBTR_NOT_THE_OA = 1;
ELSE IS_DBTR_NOT_THE_OA = -1;
```

Where:

- DBTR RIAD = RIAD identifier of the debtor

• IS_INSTTTNL_SCTR_RPRTD

This flag checks whether the institutional sector of the debtor has been reported.

```
IF INSTTTNL_SCTR_DBTR is not NULL THEN IS_INSTTTNL_SCTR_RPRTD = 1;
ELSE IS_INSTTTNL_SCTR_RPRTD = -1;
```

Where:

- INSTTTNL_SCTR_DBTR = institutional sector of the debtor
- IS_DBTR_CNTRY_RPRTD

This flag checks whether the country of residence of the debtor has been reported.

```
IF CNTRY_DBTR is not NULL THEN IS_DBTR_CNTRY_RPRTD = 1;
ELSE IS_DBTR_CNTRY_RPRTD = -1;
```

Where:

CNTRY_DBTR = country of residence of the debtor

• IS DT LGL FNL MTRTY RPRTD

This flag checks whether the date of legal final maturity has been reported.

³ The attribute "OBSRVD_AGNT_CD" depicts the RIAD identifier of the observed agent.



```
IF DT_LGL_FNL_MTRTY is NULL AND NEVS_DT_LGL_FNL_MTRTY is NULL THEN IS_DT_LGL_FNL_MTRTY_RPRTD = -1;

ELSE IS_DT_LGL_FNL_MTRTY_RPRTD = 1;
```

Most of the flags described above are used to identify quality issues. If one of the below flags is equal to -1, the data quality for a specific instrument is insufficient and the instrument is excluded from the BSI calculation. The data quality is summarized in the following flag:

```
IF IS_ACCNTNG_RPRTD = -1
OR IS_JNT_LBLTY_RPRTD_ALL_= -1
OR IS_JNT_LBLTY_CMPLT = -1
OR IS_JNT_LBLTY_CN_ONA = -1
OR IS_DBTR_NOT_THE_OA = -1
OR IS_INSTTTNL_SCTR_RPRTD = -1
OR IS_DBTR_CNTRY_RPRTD = -1
OR IS_DT_LGL_FNL_MTRTY_RPRTD = -1 OR VLDTN_RLS = -1
THEN DQ_FLG = -1;
ELSE DQ_FLG = 1;
```

In addition to the flags calculated above, some validation rules are also provided in the form of flags (grouped under "VLDTN_RLS" in the box above). This is the result of data quality checks on attributes necessary for the mapping of a counterparty to RIAD. If one of these flags is equal to 1, then the counterparty cannot be associated with a counterparty in RIAD and the instruments linked to these counterparties are excluded from the calculation of the aggregates.

Finally, the feedback sheet "BSI_EXC_INSTRMNT" also contains the flag "DBTR_RIAD_FND", tells the reporting agent if a RIAD code has been found for the counterparty or not. In the case where no code was found, the reporting agent should verify the identification of the counterparty and in the case where no error is spotted contact sig@bcl.lu, with the concerned counterparty.



2.2.3 Solution indications

There are many sources of inconsistency between reports. Below are listed some recurring errors.

1 Insufficient data quality

Insufficient data quality is highlighted by the flags in chapter 2.2.2.2. Data with errors should be analysed first. As a first step, it is recommended to focus on instruments with a high outstanding nominal amount. In fact, the more the quality of an instrument with a high outstanding amount improves, the greater the impact on the DQI. It is for this reason that the instruments are sorted in descending order compared to the outstanding nominal amount in the feedback "BSI EXC INSTRMNT".

The most frequent quality deficiencies are as follows:

- Country not reported
- National identifier not reported
- National identifier type not reported and/or inconsistent national identifier
- The sum of the outstanding nominal amounts is equal to the sum of the transferred amounts

2 The portfolio is incomplete (non-reported instruments)

If the total BSI aggregable balance of instruments listed in the excluded instruments sheet does not explain the difference between BSI and AnaCredit aggregates, then it is very likely that part of the AnaCredit portfolio has not been reported.

However, inconsistencies can be detected without requiring corrections. These are mainly reporting agents whose portfolio contains a large number of instruments with an outstanding nominal amount of less than 25 kEUR.

We would also like to remind you that intra-group and interbank instruments as well as positions with the BCL must be reported in AnaCredit.

3 Some counterparties were broken down incorrectly (diverging institutional sector or country)

When inconsistencies detected at the level of the sub-aggregates are substantial while the totals are very similar, it is very likely that the classification of the counterparties is not correct (e.g. a non-financial corporation reported with an institutional sector "S.121").

Some instruments were broken down incorrectly (diverging maturities) 4

The maturity of the instruments is calculated by subtracting the settlement date (DT_STTLMNT) from the legal final maturity date (DT_LGL_FNL_MTRTY). If the maturity aggregates (sections 4.1, 4.2, 4.3, 8.1, 8.2 and 8.3) present inconsistencies, we encourage you to check the two corresponding attributes and align them with the deadlines calculated for the BSI report.



2.3 Comparison with MIR (S 1.5)

2.3.1 Calculation method

The AnaCredit-MIR comparison compares the average interest rates, weighted by the BSI aggregable balance⁴ for the stock positions, while also looking at the average interest rates for new business loans and its volumes (MIR_AGGRGBL_BLNC_NB⁵):

$$Interest\ Rate\ on\ stock\ postions = \frac{\Sigma (BSI_AGGRGBL_BLNC*\ ANNLSD_AGGRD_RT)}{\Sigma (BSI_AGGRGBL_BLNC)}$$

$$Interest \ Rate \ on \ new \ business = \frac{\varSigma(MIR_AGGRGBL_BLNC_NB * \ ANNLSD_AGGRD_RT)}{\varSigma(MIR_AGGRGBL_BLNC_NB)}$$

Volumes of new business = $\Sigma(MIR_AGGRGBL_BLNC_NB)$

These aggregates are limited to euro-denominated instruments, the debtors of which are non-financial corporations resident in the euro area. Instruments are broken down using the following elements:

- Type of instrument
- Repayment rights
- Maturity
- Amount category

- If the instrument is settled
- If the interest rate is reported
- If it a new business loan
- Initial rate fixation

•

⁴ In its simplest form, the BSI aggregable balance consists of the outstanding nominal amount. The detailed calculation of the aggregable balance can found in annex 4.3 of this document.

⁵ Calculation of IMIR_AGGRGBL_BLNC_NEW_BSNSS defined in annex 4.3 of this document.



The table below shows the 3 items, which are to be corrected from December 2023 onwards, and the 43 additional items, which are to be corrected from March 2025 onwards (From the S 1.5 Table we consider only the data types AMT and TCA / For AnaCredit we only consider instruments denominated in EUR):

		AnaCredit			S 1.5 (MIR)							
Item	Item Description	Condition	SSTAB	Country	Rubrique	Secteur	Initial maturity	Initial rate periode	Amount category			
1		CNTRY_DBTR IN {"Euro area"} AND INSTTTNL_SCTR_DBTR = "S.11" AND IS_IMIR_ONA_INSTRMNT = "1"	1E	X2	1-002000	21000	1000-01A 101A-05A 105A-999	FIT999-999	Total			
3		st rate: loans to AND INSTTTNL_SCTR_DBTR = "S.11"	3N	X2	1-002000	21000	1999-999	FIT000-03M FIT03M-01A FIT01A-03A FIT03A-05A FIT05A-10A FIT10A-999	AAA BBB CCC			
			3N	X2	1-CP2000 1-CD2000 1-RD2000	21000	1999-999	FIT999-999	Total			
4		CNTRY_DBTR IN {"Euro area"} AND INSTTTNL_SCTR_DBTR = "S.11" AND STTLD_FLG = "1" AND MTRTY = "Up to 1 year"	1E	X2	1-002000	21000	I000-01A	FIT999-999	Total			

AnaCredit	Methodology used for the comparison between "AnaCredit" and S 1.1/ S 1.5 (BSI/MIR) reports	19 / 42
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5	CNTRY_DBTR IN {"Euro area"} AND INSTITNL_SCTR_DBTR = "S.11" AND STTLD_FLG = "1" AND MTRTY = "Above 1 year and up to 5 years"	1E	X2	1-002000	21000	I01A-05A	FIT999-999	Total
6	CNTRY_DBTR IN {"Euro area"} AND INSTITNL_SCTR_DBTR = "S.11" AND STTLD_FLG = "1" AND MTRTY = "Above 5 years"	1E	X2	1-002000	21000	I05A-999	FIT999-999	Total
7 - 8	CNTRY_DBTR IN {"Euro area"} AND INSTTTNL_SCTR_DBTR = "S.11" AND IS_IMIR_NB_INSTRMNT = "1" AND IS_RVLVNG = "1"	3N	X2	1-CP2000 1-CD2000 1-RD2000	21000	1999-999	FIT999-999	Total
9 - 10	CNTRY_DBTR IN {"Euro area"} AND INSTTTNL_SCTR_DBTR = "S.11" AND IS_IMIR_NB_INSTRMNT = "1" AND IS_RVLVNG = "0"	3N	X2	1-002000	21000	1999-999	FIT000-03M FIT03M-01A FIT01A-03A FIT03A-05A FIT05A-10A FIT10A-999	AAA BBB CCC
11 - 12	CNTRY_DBTR IN {"Euro area"} AND INSTTTNL_SCTR_DBTR = "S.11" AND IS_IMIR_NB_INSTRMNT = "1" AND IS_RVLVNG = "0" AND IMIR_AMNT_CTGRY = "2"	3N	X2	1-002000	21000	1999-999	FIT000-03M FIT03M-01A FIT01A-03A FIT03A-05A FIT05A-10A FIT10A-999	AAA

AnaCredit	Methodology used for the comparison between "AnaCredit" and S 1.1/ S 1.5 (BSI/MIR) reports	20 / 42
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13 - 14	AND IS_IMIR_NB_INSTRMNT = "1"	3N	X2	1-002000	21000	1999-999	FIT000-03M FIT03M-01A FIT01A-03A FIT03A-05A FIT05A-10A FIT10A-999	ВВВ
15 - 16	CNTRY_DBTR IN {"Euro area"} AND INSTTTNL_SCTR_DBTR = "S.11" AND IS_IMIR_NB_INSTRMNT = "1" AND IS_RVLVNG = "0" AND IMIR_AMNT_CTGRY = "1"	3N	X2	1-002000	21000	1999-999	FIT000-03M FIT03M-01A FIT01A-03A FIT03A-05A FIT05A-10A FIT10A-999	CCC
17 - 18	AND IS_IMIR_NB_INSTRMINT = "1" AND IS_RVLVNG = "0"	3N	X2	1-002000	21000	1999-999	FIT000-03M	AAA
19 - 20	AND IS_IMIR_NB_INSTRMNT = "1"	3N	X2	1-002000	21000	1999-999	FIT03M-01A	AAA

AnaCredit	Methodology used for the comparison between "AnaCredit" and S 1.1/ S 1.5 (BSI/MIR)	21 / 42
	reports	,



21 - 22	CNTRY_DBTR IN {"Euro area"} AND INSTTTNL_SCTR_DBTR = "S.11" AND IS_IMIR_NB_INSTRMNT = "1" AND IS_RVLVNG = "0" AND IMIR_AMNT_CTGRY = "2" AND IMIR_AMNT_INTL_RT_FXTN = "R"	3N	X2	1-002000	21000	1999-999	FIT01A-03A	AAA
-	CNTRY_DBTR IN {"Euro area"} AND INSTITNL_SCTR_DBTR = "S.11" AND IS_IMIR_NB_INSTRMNT = "1" AND IS_RVLVNG = "0" AND IMIR_AMNT_CTGRY = "2" AND IMIR_AMNT_INTL_RT_FXTN = "S"	3N	X2	1-002000	21000	1999-999	FIT03A-05A	AAA
25 - 26	CNTRY_DBTR IN {"Euro area"} AND INSTITNL_SCTR_DBTR = "S.11" AND IS_IMIR_NB_INSTRMNT = "1" AND IS_RVLVNG = "0" AND IMIR_AMNT_CTGRY = "2" AND IMIR_AMNT_INTL_RT_FXTN = "0"	3N	X2	1-002000	21000	1999-999	FIT05A-10A	AAA
27 - 28	AND IS_IMIR_NB_INSTRMNT = "1"	3N	X2	1-002000	21000	1999-999	FIT10A-999	AAA

AnaCredit	Methodology used for the comparison between "AnaCredit" and S 1.1/ S 1.5 (BSI/MIR) reports	22 / 42
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29 - 30	and interest rate: loans to Euro area NFCs, other than revolving loans between EUR 0.25 mio	AND IS_IMIR_NB_INSTRMNT = "1"	3N	X2	1-002000	21000	1999-999	FIT000-03M	BBB
31 - 32	and interest rate: loans to Euro area NFCs, other than revolving loans between EUR 0.25 mio	AND IS_IMIR_NB_INSTRMINT = "T	3N	X2	1-002000	21000	1999-999	FIT03M-01A	ВВВ
33 - 34		CNTRY_DBTR IN {"Euro area"} AND INSTTTNL_SCTR_DBTR = "S.11" AND IS_IMIR_NB_INSTRMNT = "1" AND IS_RVLVNG = "0" AND IMIR_AMNT_CTGRY = "3" AND IMIR_AMNT_INTL_RT_FXTN = "R"	3N	X2	1-002000	21000	1999-999	FIT01A-03A	BBB
35 - 36	and interest rate: loans to Euro area NFCs, other than revolving loans between EUR 0.25 mio	AND IS_IMIR_NB_INSTRMNT = "1" AND IS_RVLVNG = "0"	3N	X2	1-002000	21000	1999-999	FIT03A-05A	ВВВ

AnaCredit	Methodology used for the comparison between "AnaCredit" and S 1.1/ S 1.5 (BSI/MIR) reports	23 / 42
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37 - 38	and interest rate: loans to Euro area NFCs, other than revolving loans between EUR 0.25 mio	AND IS_IMIR_NB_INSTRMNT = "1"	3N	X2	1-002000	21000	1999-999	FIT05A-10A	ВВВ
39 - 40		AND IS_IMIR_NB_INSTRMINT = "T"	3N	X2	1-002000	21000	1999-999	FIT10A-999	ВВВ
41 - 42		CNTRY_DBTR IN {"Euro area"} AND INSTTTNL_SCTR_DBTR = "S.11" AND IS_IMIR_NB_INSTRMNT = "1" AND IS_RVLVNG = "0" AND IMIR_AMNT_CTGRY = "1" AND IMIR_AMNT_INTL_RT_FXTN in {"D", "Q"}	3N	X2	1-002000	21000	1999-999	FIT000-03M FIT03M-01A	CCC
43 - 44		AND IS_IMIR_NB_INSTRMNT = "1"	3N	X2	1-002000	21000	1999-999	FIT01A-03A FIT03A-05A	CCC

AnaCredit	Methodology used for the comparison between "AnaCredit" and S 1.1/ S 1.5 (BSI/MIR) reports	24 / 42
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4		CNTRY_DBTR IN {"Euro area"}	3N	X2	1-002000	21000	1999-999	FIT05A-10A	ccc	1
		AND INSTITUL_SCTR_DBTR = "S.11" AND IS_IMIR_NB_INSTRMNT = "1"						FIT10A-999		-
4		AND IS RVLVNG = "0"								
į	initial rate fixation	AND IMIR_AMNT_CTGRY = "1"								
i		AND IMIR_AMNT_INTL_RT_FXTN = {"O", "P"}								



2.3.2 Instruments excluded from MIR

Similar to the BSI comparison, some of the instruments are not taken into account in the calculation of MIR weighted averages (in addition to the instruments already excluded from the three categories detailed above). The flags calculated in the BSI comparison are also applicable to the MIR comparison.

2.3.2.1 Classifications flags for the MIR comparison

Further variables are calculated below, in order to perform the aggregations.

IMIR_AMNT_CTGRY
 This variable is considering the MIR aggregable balance for the new business categories, in order to regroup three larger groups of loans according to their amount.

```
IF IMIR_INSTRMNT_BLNC_NEW_BSNSS is NULL THEN IMIR_AMNT_CTGRY = -1;

ELSE IF IMIR_INSTRMNT_BLNC_NEW_BSNSS <= 250'000 THEN IMIR_AMNT_CTGRY = 2;

ELSE IF IMIR_INSTRMNT_BLNC_NEW_BSNSS <= 1'000'000 THEN IMIR_AMNT_CTGRY = 3;

ELSE IMIR_AMNT_CTGRY = 1;
```

IS_RVLVNG
 This flag is going to find the instrument, which are revolving and as such, can be considered as new business aggregates.

```
IF TYP_INSTRMNT is NULL OR (TYP_INSTRMNT = "Deposits other than reverse repurchase agreements" AND RPYMNT_RGHTS is NULL) THEN IS_RVLVNG = -1;

ELSE IF TYP_INSTRMNT in {"Overdraft", "Credit card debit", "Revolving credit other than overdrafts and credit card debit"} OR (TYP_INSTRMNT = "Deposits other than reverse repurchase agreements" AND RPYMNT_RGHTS = "On demand or short notice") THEN IS_RVLVNG= 1;

ELSE IS_RVLVNG = 0;
```

IS_INCPTD
 This flag checks that the inception date has been reported and that it is not after the current reference date.

```
IF DT INCPTN is NULL OR DT INCPTN > DT RFRNC THEN IS INCPTD = -1;

ELSE IF NEVS_DT_INCPTN = "0" THEN IS INCPTD = 0;

ELSE IS_INCPTD=1; IF DT_INCPTN is NULL OR DT_INCPTN > DT_RFRNC THEN IS_INCPTD = -1;
```



IS INCPTD LST MNTH

This flag checks that the inception date has been reported and that it is not after the current reference date.

IF IS INCPTD = -1 THEN IS INCPTD LST MNTH = -1;

<u>ELSE IF IS_INCPTD = 1 AND DT_INCPTN > Previous_DT_RFRNC THEN IS_INCPTD_LST_MNTH = 1;</u>

ELSE IS INCPTD_LST_MNTH = 0;IF DT_INCPTN is NULL OR DT_INCPTN > DT_RFRNC THEN

IS_FRBRN_UIS_RNGTTDNDR_MRKT_CNDTNS

This flag identifies instruments, which are forborne.

IF (DT_FRBRNC_STTS is not Null AND DT_FRBRNC_STTS > DT_RFRNC) OR (DT_FRBRNC_STTS is not NULL AND FRBRNC_STTS is NULL) OR (DT_FRBRNC_STTS is NULL AND FRBRNC_STTS is not in \(\frac{\psi^*}{\text{(NULL, \(\text{8"8}\)} \)} \)) THEN \(\frac{\text{IS_RNGTTD}}{\text{IS_FRBRN_UNDR_MRKT_CNDTNS}} = -1;

ELSE IF (DT_FRBRNC_STTS is not Null AND DT_FRBRNC_STTS <= DT_RFRNC) AND FRBRNC_STTS in {"Forborne: totally or partially refinanced debt", "Forborne: instruments with other modified terms and conditions", "Renegotiated instrument without forbearance measures"} THEN IS RNGTTD IS FRBRN_UNDR_MRKT_CNDTNS = 1;

IS_RNGTTD_LST_MNTH

This flag identifies instruments, which are forborne during the last month.

IF IS_RNGTTD = -1 THEN IS_RNGTTD_LST_MNTH = -1;

ELSE IF IS RNGTTD = 1 **AND** DT FRBRNC STTS > Previous DT RFRNC **THEN** IS RNGTTD LST MNTH = 1;

ELSE IS RNGTTD LST MNTH = 0:IF IS RVLVNG = "1" OR (IS INCPTD = "1" AND

IS_IMIR_NEW_BSNSS

This flag represents the new business portfolio of a bank.

IF IS_RVLVNG = 1_"1"OR (IS_INCPTD_LST_MNTH = "1"1 OR AND Previous_Quarter_DT_RFRNC < DT_INCPTN) OR IS_RNGTTD_LST_MNTH = 1(IS_FRBRN_UNDR_MRKT_CNDTNS = "1" and Previous_Quarter_DT_RFRNC < DT_FRBRNC_STTS) THEN IS_IMIR_NEW_BSNSS = 1;

ELSE IF IS_RVLVNG = "-1" OR IS_INCPTD = -1 = "-1" OR IS_RNGTTD

IS_FRBRN_UNDR_MRKT_CNDTNS = -1 = "-1" OR DT_INCPTN > DT_FRBRNC_STTS THEN

IS_IMIR_NEW_BSNSS = -1;



IS_INTRST_RT_FLTNG
 This flag identifies the instruments with a variable interest rate. Furthermore, it is used for the flag of initial rate fixation period.

```
IF TYP_INTRST_RT = "Variable" THEN IS_INTRST_RT_FLTNG = 1;
ELSE IF TYP_INTRST_RT in {"Fixed", "Mixed"} or NEVS_TYP_INTRST_RT = "0" THEN
IS_INTRST_RT_FLTNG = 0;
ELSE IS_INTRST_RT_FLTNG = -1;
```

INTRST_RT_RST_SNC_INCPTN_MNTHS
 This flag identifies the number of months between either the date of legal final maturity and the date of inception or the next interest rate reset date and the date of inception. Furthermore, it is used for the flag of initial rate fixation period.

```
IF DT_INCPTN is NULL OR (DT_LGL_FNL_MTRTY is NULL AND DT_NXT_INTRST_RT_RST is NULL) THEN INTRST_RT_RST_SNC_INCPTN_MNTHS = NULL;

ELSE IF NEVS_DT_NXT_INTRST_RT_RST is NULL THEN
INTRST_RT_RST_SNC_INCPTN_MNTHS = MONTHS_BETWEEN (DT_NXT_INTRST_RT_RST, DT_INCPTN);

ELSE INTRST_RT_RST_SNC_INCPTN_MNTHS = MONTHS_BETWEEN (DT_LGL_FNL_MTRTY, DT_INCPTN);
```

INTL_RT_FXTN
 This flag identifies breakdowns expressed in terms of initial period of interest rate fixation for the aggregates of lending rate on new business.

```
IF IS_INTRST_RT_FLTNG=-1 OR (IS_INTRST_RT_FLTNG=0 AND INTRST_RT_SNC_INCPTN_MNTHS is NULL) THEN INTL_RT_FXTN="-1";

ELSE IF IS_INTRST_RT_FLTNG=1 THEN INTL_RT_FXTN="D";

ELSE IF INTRST_RT_RST_SNC_INCPTN_MNTHS <= 3 THEN INTL_RT_FXTN="D";

ELSE IF INTRST_RT_RST_SNC_INCPTN_MNTHS <= 12 THEN INTL_RT_FXTN="Q";

ELSE IF INTRST_RT_RST_SNC_INCPTN_MNTHS <= 36 THEN INTL_RT_FXTN="R";

ELSE IF INTRST_RT_RST_SNC_INCPTN_MNTHS <= 60 THEN INTL_RT_FXTN="S";

ELSE IF INTRST_RT_RST_SNC_INCPTN_MNTHS <= 120 THEN INTL_RT_FXTN="O";

ELSE IF INTRST_RT_RST_SNC_INCPTN_MNTHS >= 120 THEN INTL_RT_FXTN="O";
```



2.3.2.2 MIR instruments identification flags

Regarding the identification of instruments eligible for the MIR calculation, following additional flags must however be added:

NOT BD LN FLG

This flag identifies instruments, which are considered uncollectible. This is based on the default status of the counterparty or of the instrument respectively.

IF (CNTRY_OA = "ES" AND IMPRMNT_STTS is Null) OR (CNTRY_OA in {"AT", "FI"} AND PRFRMNG_STTS is Null) OR (CNTRY_OA = "PT" AND (FRBRNC_STTS is Null OR ARRS is Null)) OR (CNTRY_OA not in {"AT", "ES", "FI", "PT"} AND DFLT_STTS_INSTRMNT is Null AND ((CNTRY_OA not in {"EE", "FR", "GR", "IE", "LT", "LU", "MT", "NL", "SI", "SK"} AND DFLT_STTS_OF_MAIN_DBTR is Null) OR (CNTRY_OA in {"EE", "FR", "GR", "IE", "LT", "LU", "MT", "NL", "SI", "SK"} AND DFLT_STTS_OF_ANY_DBTR is Null))) THEN NOT_BD_LN_FLG = -1;

ELSE IF (CNTRY_OA = "ES" AND IMPRMNT_STTS in {"Stage 3 (IFRS)", "POCI (IFRS)"}) OR (CNTRY_OA in {"AT", "FI"} AND PRFRMNG_STTS = "Non-performing") OR (CNTRY_OA = "PT" AND (FRBRNC_STTS in {"Forborne: totally or partially refinanced debt", "Forborne: instruments with modified interest rate below market conditions", "Forborne: instruments with other modified terms and conditions", "Renegotiated instrument without forbearance measures"} OR ARRRS > 0)) OR (CNTRY_OA not in {"AT", "ES", "FI", "PT"} AND DFLT_STTS_INSTRMNT in {"Default because both unlikely to pay and more than 90/180 days past due", "Default because unlikely to pay", "Default because more than 90/180 days past due"} OR ((CNTRY_OA not in {"EE", "FR", "GR", "IE", "LT", "LU", "MT", "NL", "SI", "SK"} AND DFLT_STTS_OF_MAIN_DBTR in {"Default because both unlikely to pay and more than 90/180 days past due", "Default because unlikely to pay", "Default because more than 90/180 days past due"}) OR (CNTRY_OA in {"EE", "FR", "GR", "IE", "LT", "LU", "MT", "NL", "SI", "SK"} AND DFLT_STTS_OF_ANY_DBTR in {"Default because both unlikely to pay and more than 90/180 days past due", "Default because both unlikely to pay and more than 90/180 days past due", "Default because more than 90/180 days past due"}))))

ELSE NOT_BD_LN_FLG = 1;

IS_NOT_FRBRNC_BLW_MRKT_CNDTNS

This flag identifies instruments, which have interest rates on bad loans and on debt restructuring at rates below market conditions have to be excluded from the MIR comparison.

IF FRBRNC_STTS is Null THEN IS_NOT_FRBRNC_BLW_MRKT_CNDTNS = -1;

ELSE IF (CNTRY_OA = "GR" **AND** FRBRNC_STTS in {"Forborne: totally or partially refinanced debt", "Forborne: instruments with modified interest rate below market conditions", "Forborne: instruments with other modified terms and conditions"}) **OR** (CNTRY_OA <> "GR" **AND** FRBRNC_STTS = "Forborne: instruments with modified interest rate below market conditions") **THEN**IS NOT FRBRNC BLW MRKT CNDTNS = 0;

ELSE IS_NOT_FRBRNC_BLW_MRKT_CNDTNS = 1;



IS_NOT_FCTRNG

This flag identifies instruments, which should be excluded due to being a factoring instrument and where the country of the observed agent is Portugal.

IF FRBRNC STTS is Null THEN IS NOT FRBRNC BLW MRKT CNDTNS = -1;

ELSE IF (CNTRY_OA = "GR" AND FRBRNC_STTS in ("Forborne: totally or partially refinanced debt", "Forborne: instruments with modified interest rate below market conditions", "Forborne: instruments with other modified terms and conditions")) OR (CNTRY_OA <> "GR" AND FRBRNC_STTS = "Forborne: instruments with modified interest rate below market conditions") THEN IS_NOT_FRBRNC_BLW_MRKT_CNDTNS = 0;

IS ONA PSTV

This flag identifies instruments, where outstanding nominal amount is present and above 0.

IF OFFOTSTNDNG NMNL AMNT _BLNC_SHT_AMNT-> 0 THEN IS_OBSAONA_PSTV = 1;

ELSE IF OTSTNDNG_NMNL_AMNT_OFF_BLNC_SHT_AMNT = 0 THEN IS_OBSAONA_PSTV = 0;

ELSE IS_OBSAONA_PSTV = -1;

IS_OBSA_PSTV

This flag identifies instruments, where off-balance sheet amount is present and above 0.

IF OFF_BLNC_SHT_AMNT > 0 THEN IS_OBSA_PSTV = 1;
ELSE IF OFF_BLNC_SHT_AMNT = 0 THEN IS_OBSA_PSTV = 0;
ELSE IS_OBSA_PSTV = -1;

• IS UNSD CRDT LN

This flag identifies credit lines, which have not been settled yet.



IF RCGNTN FLG = 0 AND IS ONA PSTV = 0 AND IS OBSA PSTV = 1 THEN IS UNSD CRDT LN = 1;

ELSE IF RCGNTN_FLG <> -1 AND IS_ONA_PSTV <> -1 AND IS_OBSA_PSTV <> -1 THEN IS_UNSD_CRDT_LN = 0:

ELSE IS UNSD CRDT LN = -1; IF OFF_BLNC_SHT_AMNT > 0 THEN IS_OBSA_PSTV = 1;

Finally, two flags on the MIR eligibility for the outstanding amount categories and the new business categories of an AnaCredit instrument are calculated taking into account the flags mentioned earlier in this document:

• IS IMIR ONA INSTRMNT

IF IS_BSI_INSTRMNT = 1 AND IS_NOT_FCTRNG = 1 AND ((CNTRY_OA in {"CY", "MT", "NL"} AND IS_NOT_FRBRN_BLW_MRKT_CNDTNS = 1) OR (CNTRY_OA = "PT" AND NOT_BD_LN_FLG = 1 AND TYP_INSTRMNT <> "Trade receivables" AND (RCRS = "No Recourse" OR ANNLSD_AGRD_RT = 0)) OR (CNTRY_OA not in {"CY", "MT", "NL", "PT"} AND IS_NOT_FRBRN_BLW_MRKT_CNDTNS = 1 AND NOT_BD_LN_FLG = 1)) AND IS_INTRST_RT_RPRTD = 1 THEN IS_MIR_ONA_INSTRMNT = 1;

• IS IMIR NB INSTRMNT

ELSE IS_IMIR_ONA_INSTRMNT = 0;

IF (IS_BSI_INSTRMNT = 1 AND IS_RVLVNG = 1) OR (IS_RVLVNG = 0 AND IS_NOT_FDCRY = 1 AND IS_NOT_FCTRNG = 1 AND NON_TRDTNLLY_SEC_FLG = 1 AND (RCGNTN_FLG = 1 OR IS_UNSD_CRDT_LN = 1 (OTSTNDNG_NMNL_AMNT = 0 AND OFF_BLNC_SHT_AMNT>0) AND NOT_BD_LN_FLG = 1 AND IS_IMIR_NEW_BSNSS = 1 AND IS_INTRST_RT_RPRTD = 1 AND ((CNTRY_OA = "PT" OR (CNTRY_OA <> "PT" AND AND TYP_INSTRMNT <> "Trade receivables" AND (RCRS = "No Recourse" OR ANNLSD_AGRD_RT = 0 1) OR (CNTRY_OA not in ("PT") AND IS_NOT_FRBRN_BLW_MRKT_CNDTNS = 1)))) THEN

All the instruments whose flags "IS_MIR_ONA_INSTRMNT" or "IS_MIR_NB_INSTRMNT" is equal to 1 are taken into account when calculating the MIR weighted averages. Conversely, the instruments whose both flags equal to 0 or -1 are excluded from the calculation and listed in the "MIR_EXC_INSTRMNT" feedback.

2.3.2.3 Data quality flags

The data quality flags calculated during the BSI comparison (see chapter 2.2.2.2) also apply to the MIR comparison.

In addition, following flag is calculated for the MIR comparison:

• IS_INTRST_RT_RPRTD

This flag checks whether the interest rate has been reported.

AnaCredit	Methodology used for the comparison between "AnaCredit" and S 1.1/ S 1.5 (BSI/MIR)
Anaorcan	reports



```
IF ANNLSD_AGRD_RT is not NULL THEN IS_INTRST_RT_RPRTD = 1;
ELSE IF NEVS_ANNLSD_AGRD_RT = "0" THEN IS_INTRST_RT_RPRTD = 0;
ELSE IS_INTRST_RT_RPRTD = -1;
```

2.3.3 Solution indications

It is recommended to identify and then resolve any inconsistencies detected during the AnaCredit-BSI comparison before starting the AnaCredit-MIR comparison. There are many sources of inconsistency between reports. The flags on data quality defined in chapter 2.2.2.2 also apply to the MIR comparison. Among the most frequent quality deficiencies, the interest rate reported in percentage format and not in decimal format should be considered.

2.4 Reports

2.4.1 Feedbacks provided

During the AnaCredit-BSI-MIR comparison, one file is made available to reporting agents. This .xlsx file includes two worksheets:

- **BSI Overview** (overview of BSI DQI results)
- MIR Overview (overview of MIR DQI results)

The feedback file can also contain four additional worksheets, namely:

- BSI_EXC_INSTRMNT (list of instruments excluded from BSI calculation)
- BSI_INC_INSTRMNT (list of instruments included in the BSI calculation)
- MIR_EXC_INSTRMNT (list of instruments excluded from the MIR calculation)
- MIR_INC_INSTRMNT (list of instruments included in the MIR calculation)

In the meantime, the BCL will include these four spreadsheets but they will only contain the following attributes:

- OBSRVD_AGNT_CD,
- DT RFRNC,
- T1M MSG ID,
- T2M_MSG_ID,
- T2Q MSG ID,
- REF_MSG_ID,



- CNTRCT_ID,
- INSTRMNT ID,
- all flags described in chapters 2.2.2 and 2.3.2.

The two types of "Overview" and "Excluded" worksheets are described in more detail below.

2.4.1.1 Results of the calculation of aggregates / weights

The "Overview" sheet includes the aggregates / weighted averages calculated for AnaCredit and BSI / MIR as well as the DQIs calculated on the comparison.

An example of an BSI comparison table is available in Annex 4.2.1. In order to facilitate the interpretation of this table, the DQIs are coloured as follows:

- Green: the DQI is below the required threshold and no correction is expected
- Yellow: the DQI is above the required threshold. Correction is not required. However, reporting agents are strongly encouraged to correct these sub-aggregates in anticipation of more extensive requirements.
- Red: the DQI is above the required threshold. Correction is required

2.4.1.2 List of instruments excluded from the calculation of aggregates

The "Excluded" sheet lists all the instruments excluded from the calculation of aggregates / weighted averages based on the flags described above. An instrument is added to the list when at least one of the three flags DQ_FLG or IS_BSI_INSTRMNT / IS_MIR_ONA_INSTRMNT / IS_MIR_NB_INSTRMNT is equal to 0 or -1.

In addition to the aforementioned flags, the list includes attributes to better identify inconsistencies between AnaCredit and BSI / MIR:

- OBSRVD AGNT CD
- DT_RFRNC
- CNTRCT ID
- INSTRMNT_ID

The list is ordered as follows:

- 1 IS_BSI_INSTRMNT / IS_MIR_ONA_INSTRMNT / IS_MIR_NB_INSTRMNT , in descending order
- 2 DQ_FLG, in ascending order
- 3 BSI_AGGRGBL_BLNC, in descending order



Therefore, it is recommended to analyse the first observations in the list first, which are most likely to have the greatest impact on the aggregates. An example of the excluded instruments table can be found in Annex 4.2.

2.4.2 Communication frequency and delay

The comparison reports are sent quarterly, regardless of resubmissions sent by reporting agents. Ad hoc reports can be generated upon request from reporting agents.

2.4.3 **Revision deadlines**

Due to the implementation of the new non-compliance procedure at the ECB, the reporting agents have a maximum of 20 working days to correct any DQIs above the required threshold, starting from the date of the first feedback. For any feedback sent after, the reporting agent has the usual 5 days to correct remaining errors, as is the case for validation errors. In addition, before proceeding to a resubmission (regardless the type of report), reporting agents are asked to confirm by email the reports and the reference periods to be resubmitted. Please note that a modification or even a correction in report S 1.1 may also require modifications in the report S 2.5.

Future submissions should already take into account any inconsistencies detected.

3 Contact data at the BCL

For any question related to the AnaCredit report, please contact the AnaCredit team at the BCL (reporting.anacredit@bcl.lu).

For any question, which concerns more precisely referential data, please contact the referential data team at the BCL (sig@bcl.lu).



4 Annexes

4.1 Glossary

DQI	Data Quality Indicator
EA	Euro area
ECB	European central bank
BSI	Individual balance sheet items statistics (S 1.1 and S 2.5 reports in Luxembourg)
ICPFs	Insurance Corporations and Pension Funds
MIR	Individual MFI interest rate statistics (S 1.5 reports in Luxembourg)
MFI	Monetary and Financial Institutions
MMF	Money Market Funds
NCB	National central bank
NFC	Non-financial corporation
OFI	Other Financial Intermediaries



4.2 Examples of feedback reports

4.2.1 Example BSI / AnaCredit comparison ("Overview")

Observed Agent: LUB00XXX												
Ada (in million f)		202103			202106		202109					
Aggregates per report and per reference date (in million €)	AnaCredit	S1.1 Report	DQI	AnaCredit	S1.1 Report	DQI	AnaCredit	S1.1 Report	DQI			
1. Dom MFIs	380,00	380,00	100,00 %	380,00	380,00	100,00 %	80,00	380,00	21,05 %			
1.1 Dom central banks	300,00	300,00	100,00 %	300,00	300,00	100,00 %	0,00	300,00	0,00 %			
2. Dom General government												
4.1 Dom NFCs, up to 1 year												
4.2 Dom NFCs, over 1 year and up to 5 years	50,00	50,00	100,00 %	50,00	50,00	100,00 %	50,00	50,00	100,00 %			
4.3 Dom NFCs, over 5 years	250,00	262,00	95,42 %	250,00	262,00	95,42 %	0,00	262,00	0,00 %			
5. OEA MFIS												
6. OEA General government	0,00	0,05	100,00 %	0,00	0,05	100,00 %	0,00	0,05	100,00 %			
8.1 OEA NFCs, up to 1 year	0,00	0,05	100,00 %	0,00	0,05	100,00 %	0,00	0,05	100,00 %			
8.2 OEA NFCs, over 1 year and up to 5 years	7,50	9,00	83,33 %	7,50	6,00	125,00 %	7,50	6,00	125,00 %			
8.3 OEA NFCs, over 5 years												
9. EA OFIs and non-MMF investment funds												
10. EA ICPFs												
Total EA Loans	987,50	1 001,10	98,64 %	987,50	998,10	98,94 %	137,50	998,10	13,78 %			
12. RoW - Total Loans	20,00	20,00	100,00 %	20,00	20,00	100,00 %	20,00	20,00	100,00 %			

AnaCredit Methodology used for the comparison between "AnaCredit" and S 1.1/ S 1.5 (BSI/MIR) reports
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4.2.2 Example of list of excluded instruments in BSI calculation

Left-hand side of table:

ORGEN	D AGNIT CO	TIM TIM	THE TO	120 TA	INSC ID	MES ID CHIRC	ID Mystern	/sar lo	NO SE	Grift In	ile due	ANT RO	Market A.	S ALL	ACONT.	PRILY S	IN STRAIGHT	O ROY Mr. IS	MA CHICA	81) 81)	ONA THE LETTER STATE OF THE STA	OR COR	RRACI
LUB00XXX	202003	XX1	XX1	XX1	XX1	Contract8	Instrument8	1	1	0	1	1	1	1	0	0	0	1	1	1	1	1	1
LUB00XXX	202003	XX1	XX1	XX1	XX1	Contract10	Instrument10	1	1	0	1	0	0	1	0	0	0	1	1	1	1	1	1
LUB00XXX	202003	XX1	XX1	XX1	XX1	Contract7	Instrument7	-1	1	0	1	1	0	1	0	0	0	1	1	1	-1	1	1
LUB00XXX	202003	XX1	XX1	XX1	XX1	Contract9	Instrument9	0	1	0	1	1	0	1	0	0	0	1	1	1	1	1	1
LUB00XXX	202006	XX2	XX2	XX2	XX2	Contract8	Instrument8	1	1	0	1	1	1	1	0	0	0	1	1	1	1	1	1
LUB00XXX	202006	XX2	XX2	XX2	XX2	Contract10	Instrument10	1	1	0	1	0	0	1	0	0	0	1	1	1	1	1	1
LUB00XXX	202006	XX2	XX2	XX2	XX2	Contract7	Instrument7	-1	1	0	1	1	0	1	0	0	0	1	1	1	-1	1	1
LUB00XXX	202006	XX2	XX2	XX2	XX2	Contract9	Instrument9	0	1	0	1	1	0	1	0	0	0	1	1	1	1	1	1
LUB00XXX	202009	XX3	XX3	XX3	XX3	Contract8	Instrument8	1	1	0	1	1	1	1	0	0	0	1	1	1	1	1	1
LUB00XXX	202009	XX3	XX3	XX3	XX3	Contract10	Instrument10	1	1	0	1	0	0	1	0	0	0	1	1	1	1	1	1
LUB00XXX	202009	XX3	XX3	XX3	XX3	Contract7	Instrument7	-1	1	0	1	1	0	1	0	0	0	1	1	1	-1	1	1
LUB00XXX	202009	XX3	XX3	XX3	XX3	Contract9	Instrument9	0	1	0	1	1	0	1	0	0	0	1	1	1	1	1	1



Right-hand side of table:

SE LE	Skut S	PRILLY SON IS	TRAISE TRAISE	O Ref	ALL ALL LA	Deta Co	ONA ONA INSTITUTE	OR COR	A ROPE ST	Sept Sept Sept Sept Sept Sept Sept Sept	THE PART OF THE PA	Man C	A CONTRACTOR	laga C	nako c	Jane Ca	Source Co	and a company	Salka C	Sold Co	P ENT	MA PRINT	. 10 . 14 . 14 . 14	na co	on the second	DOGO AL	antio of	he se	To Chied less
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1	0	0	0	1	1	1	-1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	-1	1	
1	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
1	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	-1	-1	
1	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	-1	1	-1	1	
1	0	0	0	1	1	1	-1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	-1	1	l
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1	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	-1	-1	l
1	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	-1	1	-1	1	l
1	0	0	0	1	1	1	-1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	-1	1	l
1	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	l



4.2.3 Example of list of included instruments in BSI calculation

OBSR	NO VENTOD	FRANC	AMSO ID	1,MSG 10	MSG ID	was id	I D MASTER	MI ID	ifen
LUB00XXX	202003	XX1	XX1	XX1	XX1	Contract5	Instrument 5	Up to 1 year	1. Dom MFIs
LUB00XXX	202003	XX1	XX1	XX1	XX1	Contract1	Instrument 1	Above 5 years	1. Dom MFIs & 1.1 Dom central banks
LUB00XXX	202003	XX1	XX1	XX1	XX1	Contract3	Instrument 3	Above 1 year and up to 5 years	4.2 Dom NFCs, over 1 year and up to 5 years
LUB00XXX	202003	XX1	XX1	XX1	XX1	Contract11	Instrument11	Above 5 years	4.3 Dom NFCs, over 5 years
LUB00XXX	202003	XX1	XX1	XX1	XX1	Contract2	Instrument 2	Above 5 years	5. OEA MFIs
LUB00XXX	202003	XX1	XX1	XX1	XX1	Contract4	Instrument 4	Above 1 year and up to 5 years	8.2 OEA NFCs, over 1 year and up to 5 years
LUB00XXX	202003	XX1	XX1	XX1	XX1	Contract6	Instrument 6	Up to 1 year	12. RoW - Total Loans
LUB00XXX	202006	XX2	XX2	XX2	XX2	Contract5	Instrument 5	Up to 1 year	1. Dom MFIs
LUB00XXX	202006	XX2	XX2	XX2	XX2	Contract1	Instrument 1	Above 5 years	1. Dom MFIs & 1.1 Dom central banks
LUB00XXX	202006	XX2	XX2	XX2	XX2	Contract3	Instrument 3	Above 1 year and up to 5 years	4.2 Dom NFCs, over 1 year and up to 5 years
LUB00XXX	202006	XX2	XX2	XX2	XX2	Contract11	Instrument11	Above 5 years	4.3 Dom NFCs, over 5 years
LUB00XXX	202006	XX2	XX2	XX2	XX2	Contract2	Instrument 2	Above 5 years	5. OEA MFIs
LUB00XXX	202006	XX2	XX2	XX2	XX2	Contract4	Instrument 4	Above 1 year and up to 5 years	8.2 OEA NFCs, over 1 year and up to 5 years
LUB00XXX	202006	XX2	XX2	XX2	XX2	Contract6	Instrument 6	Up to 1 year	12. RoW - Total Loans
LUB00XXX	202009	XX3	XX3	XX3	XX3	Contract5	Instrument 5	Up to 1 year	1. Dom MFIs
LUB00XXX	202009	XX3	XX3	XX3	XX3	Contract3	Instrument 3	Above 1 year and up to 5 years	4.2 Dom NFCs, over 1 year and up to 5 years
LUB00XXX	202009	XX3	XX3	XX3	XX3	Contract2	Instrument 2	Above 5 years	5. OEA MFIs
LUB00XXX	202009	XX3	XX3	XX3	XX3	Contract4	Instrument 4	Above 1 year and up to 5 years	8.2 OEA NFCs, over 1 year and up to 5 years
LUB00XXX	202009	XX3	XX3	XX3	XX3	Contract6	Instrument 6	Up to 1 year	12. RoW - Total Loans

AnaCredit	Methodology used for the comparison between "AnaCredit" and S 1.1/ S 1.5 (BSI/MIR)	
	reports	



4.3 Calculation of the BSI aggregable balance

The BSI instrument balance (BSI_INSTRMNT_BLNC) is calculated as follows:

```
BSI_INSTRMNT_BLNC = max(OTSTNDNG_NMNL_AMNT - (APPLCBLTY_PRTLLY_TRNSFRRD
* IS_PRTLY_TRNSFRD * TRNSFRRD_AMNT) - (IMPRMNT_FLG * ACCMLTD_IMPRMNT) -
(FR_VL_FLG*ACCMLTD_CHNGS_FV_CR) -
(ACQSTN_PRC_FLG*FV_CHNG_CR_BFR_PRCHS), 0);
```

The pro-rata debtor share (PR_RT_DBTR_SHR) is calculated as follows:

```
IF NMBR_DBTRS = 1 THEN DO;
    IF JNT_LBLTY_AMNT is NULL THEN PR_RT_DBTR_SHR = 1;
    ELSE IF JNT LBLTY AMNT = 0 AND OTSTNDNG NMNL AMNT = 0 THEN
    PR_RT_DBTR_SHR = 1/2;
    ELSE PR_RT_DBTR_SHR = JNT_LBLTY_AMNT / OTSTNDNG_NMNL_AMNT;
END:
ELSE IF NMBR DBTRS > 1 THEN DO;
    IF JNT_LBLTY_AMNT is NULL THEN PR_RT_DBTR_SHR is NULL;
    ELSE IF JNT_LBLTY_AMNT_Sum = 0 AND OTSTNDNG_NMNL_AMNT = 0 THEN
    PR_RT_DBTR_SHR = 1/NMBR_DBTRS;
    ELSE IF JNT_LBLTY_AMNT_Sum = 0 AND OTSTNDNG_NMNL_AMNT > 0 THEN
    PR_RT_DBTR_SHR = 0;
    ELSE IF
                JNT_LBLTY_AMNT_Sum >
                                          OTSTNDNG NMNL AMNT
                                                                 THEN
    PR_RT_DBTR_SHR = JNT_LBLTY_AMNT / JNT_LBLTY_AMNT_Sum;
    ELSE IF
                JNT_LBLTY_AMNT_Sum <=
                                          OTSTNDNG_NMNL_AMNT
                                                                 THEN
    PR_RT_DBTR_SHR = JNT_LBLTY_AMNT / OTSTNDNG_NMNL_AMNT;
END;
```

Where:

- NMBR DBTRS = number of debtors in the instrument
- JNT_LBLTY_AMNT_Sum = sum of the joint liabilities in an instrument



The main debtor share (MN_DBTR_SHR) is calculated as follows:

```
IF PR_RT_DBTR_SHR = 0 THEN MN_DBTR_SHR = 0;
ELSE IF PR_RT_DBTR_SHR = max(PR_RT_DBTR_SHR) THEN MN_DBTR_SHR = 1 /
(COUNTIF(DBTR, where PR_RT_DBTR_SHR = max(PR_RT_DBTR_SHR)))
ELSE MN_DBTR_SHR = 0;
```

The BSI aggregable balance (BSI_AGGRGBL_BLNC) is calculated as follows:

```
IF CNTRY_OA in {"AT", "EE", "FR", "GR", "IE", "LT", "LU", "MT", "NL", "PT", "SI", "SK"} THEN
BSI_AGGRGBL_BLNC = PR_RT_DBTR_SHR * BSI_INSTRMNT_BLNC;
ELSE BSI_AGGRGBL_BLNC = MN_DBTR_SHR * BSI_INSTRMNT_BLNC;
```

4.4 Calculation of the MIR aggregable balance

For the outstanding positions, the same calculation as for the BSI aggregates is used.

For the new business comparisons, the MIR instrument balance is calculated as follows:

```
IF IS_IMIR_NEW_BSNSS ne "1" THEN IMIR_INSTRMNT_BLNC_NEW_BSNSS = NULL;

ELSE IF IS_RVLVNG = "1" THEN IMIR_INSTRMNT_BLNC_NEW_BSNSS =

OTSTNDNG_NMNL_AMNT

ELSE IF (DT_RFRNC >= DT_FRBRNC_STTS > Previous_Quarter_DT_RFRNC) THEN

IMIR_INSTRMNT_BLNC_NEW_BSNSS = OTSTNDNG_NMNL_AMNT + OFF_BLNC_SHT_AMNT

ELSE IF CMMTMNT_INCPTN is not NULL THEN IMIR_INSTRMNT_BLNC_NEW_BSNSS =

CMMTMNT_INCPTN;

ELSE IMIR_INSTRMNT_BLNC_NEW_BSNSS = sum(OTSTNDNG_NMNL_AMNT,

OFF_BLNC_SHT_AMNT);
```



The MIR aggregable balance (IMIR_AGGRGBL_BLNC_NEW_BSNSS) is calculated as follows:

IF CNTRY_OA in {"AT", "EE", "FR", "GR", "IE", "LT", "LU", "MT", "NL", "PT", "SI", "SK"} THEN IMIR_AGGRGBL_BLNC_NEW_BSNSS = PR_RT_DBTR_SHR * IMIR_INSTRMNT_BLNC_NEW_BSNSS; ELSE IMIR_AGGRGBL_BLNC_NEW_BSNSS = MN_DBTR_SHR * IMIR_INSTRMNT_BLNC_NEW_BSNSS;