

## Appendix III – validation errors identified in the COREP templates

We have identified the following perceived template and validation errors, and have provided suitable corrections where possible. We would be pleased to work with the EBA in testing future proposed validations and would be happy to advise on how they are likely to work in practice.

CR-SA
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### Validation rule errors

**Given:** For columns 010 to 030, 150 to 210 and 500: rows 010 = **200** + 130 + 140 + 160 + 180 + 200 + 230 + 250 + 260 + 300 + 340 + 350 + 360

**Correction:** For columns 010 to 030, 150 to 210 and 500: rows 010 = 110 + 130 + 140 + 160 + 180 + 200 + 230 + 250 + 260 + 300 + 340 + 350 + 360

**Reason:** Typographical error in the formula

**Given:** For column 240: rows 010 = 020 + 030 + 040

**Correction:** For column 240: rows 010 = 020 + 030 + 040 + 070

**Reason:** Row 070: Article 297(1) an institution shall apply a risk weight of 2% to the exposure values of all its trade exposures with CCPs

**Given:** For column 240: row 040 = **060**

**Given:** For column 240: row **050** = 090

**Reason:** Rows 060 and 050 are grey cells in CR SA Total template and are not populated

**Given:** For rows 010, 030 and 110 to 550: columns 200 = **110**-160-(0.8\*170)-(0.5\*180)

**Correction:** For rows 010, 030 and 110 to 550: columns 200 = 150-160-(0.8\*170)-(0.5\*180)

**Reason:** Typographical error in the formula

**Given:** For rows 010 to 100 and 380 to 550: columns 110 = 040 + **090** +100

**Correction:** For rows 010 to 100 and 380 to 550: columns 110 = 040 + 070 +100

**Reason:** Column 090 is an 'of which' column – it is greyed out for the column / row combination indicated and is not populated

**Given:** For rows 010 to 070 and 380 to 550: columns 500  $\geq$  (0.02\*240) + (0.1\*250) + (0.2\*280) + (0.35\*310) + (0.5\*320) + (0.7\*350) + (0.75\*370) + **3800** + (1.5\*410) + (2.5\*450) + (12.5\*460)

**Correction:** For rows 010 to 070 and 380 to 550: columns 500  $\geq$  (0.02\*240) + (0.1\*250) + (0.2\*280) + (0.35\*310) + (0.5\*320) + (0.7\*350) + (0.75\*370) + 380 + (1.5\*410) + (2.5\*450) + (12.5\*460)

**Reason:** Typographical error in the formula

**Given:** For rows 0100: columns 500  $\geq$  (0.1\*250) + (0.2\*280) + (0.35\*310) + (0.5\*320) + (0.7\*350) + (0.75\*370) + **3800** + (1.5\*410) + (2.5\*450) + (12.5\*460)

**Correction:** For rows 0100: columns 500  $\geq$  (0.1\*250) + (0.2\*280) + (0.35\*310) + (0.5\*320) + (0.7\*350) + (0.75\*370) + 380 + (1.5\*410) + (2.5\*450) + (12.5\*460)

**Reason:** Typographical error in the formula

## CR SA Details specific

**Given:** Row 080 of which: OTC-Derivatives

**Correction:** Row 080 of which: OTC-Derivatives, **not centrally cleared**

**Reason:** Typographical error in the formula

**Given:** Row 090 Centrally cleared through compliant CCP

**Correction:** Column 090 **of which**: Centrally cleared through compliant CCP

**Reason:** Typographical error in the formula

**Given:** For row 151, 171, 211, 281, 331 and 371

of which: with a **credit** assessment derived from central government

**Correction:** of which: with a **credit** assessment derived from central government

**Reason:** Typographical error in the formula

**Given:** For row 120, 150, 170, 210 and 330

of which: **without** credit assessment by a nominated ECAI

**Correction:** of which: **with** credit assessment by a nominated ECAI

**Reason:** Typographical – legal references / Instructions and CR SA Total spreadsheet state these columns should be populated **with**

## CR SA Totals specific

**Given:** For row 400; Public sector **entities**

**Correction:** For row 400; Public sector **entities**

**Reason:** Typographical error in the formula

**Given:** For rows 151, 171, 211, 281, 331 and 371

of which: with a **credit** assessment derived from central government

**Correction:** For rows 151, 171, 211, 281, 331 and 371

of which: with a **credit** assessment derived from central government

**Reason:** Typographical error in the formula

## Validation rule(s) indicated as CR SA but actually specific to CR SA Totals:

**For columns 010 to 030, 150 to 210 and 500: row 200  $\geq$  220**

- Row 220: 50% of which secured by commercial immovable property doesn't appear on the CR SA Details template.

**For columns 010 to 030, 150 to 210 and 500: row 260  $\geq$  270 + 290**

- Row 270: 100% of which in default and row 290: 100% of which secured by mortgages on immovable property don't appear on the CR SA Details template.

**For columns 010 to 030, 150 to 210 and 500: row 300  $\geq$  310 + 330**

- The row 310: 150% of which in default doesn't appear on the CR SA Details template. In the Details template exposure secured by mortgages on immovable property and exposures in default are only reported within the 'Memorandum Items'

**For rows 010 and 040 to 410: column 040 = 010 + 030**

- Rows 380 to 410 are the first four lines of the ‘breakdown of total exposures by exposure class’ and only appear on the CR SA Totals template.

**For rows 010 to 100 and 380 to 550: column 150 = 110 + 120 + 130**

- Rows 380 to 550 are for the ‘breakdown of total exposures by exposure class’ and only appear on the CR SA Totals template.

## Inconsistencies in restricted cells between CR SA Totals and Details templates

The grey cells are inconsistent between the total and details templates. These inconsistencies are outlined below - we ask the EBA to amend the templates accordingly.

REF	COLUMN	ROW	CR SA Totals	CR SA Details
1	020 of which: arising from default fund contributions	030 off balance sheet exposures subject to credit risk		
2	020 of which: arising from default fund contributions & 040 - 150 fully adjusted exposure value (E*) & 200 exposure value & 210 of which: arising from counterparty credit risk & 500 risk weighted exposure amount	080 of which: OTC-Derivatives		
3	020 of which: arising from default fund contributions & 040 - 150 fully adjusted exposure value (E*) & 500 risk weighted exposure amount	090 of which: Centrally cleared through compliant CCP		
4	510 total number of counterparties	050 of which: subject to CVA charge & 060 of which: centrally cleared through a compliant CCP also for SFTs		
5	010 original exposure pre conversion factors - 210 of which arising from counterparty credit risk	210 of which: without credit assessment by a nominated ECAI		
6	010 original exposure pre conversion factors - 210 of which arising from counterparty credit risk	211 of which: with a credit assessment derived from central government		

## Formula errors within templates

**(a) CR SA Details column 110 Net exposure after CRM substitution effects pre conversion factors**

**Given:**  $110 = 040 + 090 + 1000$

**Correction:**  $110 = 040 + 090 + \underline{100}$

**Reason:** Typographical error in the formula.

**(b) Inconsistent format between Detail and Totals template; column 150 Fully adjusted exposure value (E\*)**

**Given:** CR SA Totals template shows the formula ‘ $150 = 110 + 120 + 130$ ’.

**Correction:** CR SA Details template shows the formula ‘ $150 = 110 + 120 + 130$ ’.

**Reason:** The above formula is missing from the CR SA Details template and needs to be inserted.



**(c) CR SA Details; column 200 Exposure Value**

**Given:**  $200 = 110 - 160 - 0.8 * 170 - 0.5 * 180$

**Correction:**  $200 = \underline{150} - 160 - 0.8 * 170 - 0.5 * 180$

**Reason:** Typographical error in the formula.

**CR-IRB**

**Validation rule errors applicable to CR IRB 3.3.a**

**Given:** For columns 030, 040-090, 110, 140-210, 240  
Rows 010 = rows **010** + 020 + 030 + 040 + 050 + 060

**Correction:** For columns 030, 040-090, 110, 140-210, 240  
Rows 010 = rows 020 + 030 + 040 + 050 + 060

**Reason:** Typographical error in the formula

**Given:** For **columns** 010-070, 130, 140, 240, 250  
Columns 090 = columns 030 + 070 + 080

**Correction:** For **rows** 010-070, 130, 140, 240, 250  
Columns 090 = columns 030 + 070 + 080

**Reason:** Typographical error in the formula

**Legal references, comments and regulation look to be omitted or are in error**

Row 070 appears as '1.1 Exposures assigned to obligor grade or pool' instead of '1.1 Exposures assigned to obligor grade or pool; **Total**'

- Also contains the population description for row 140, see ITS row instructions.

Row(s) 140 Breakdown of total exposures assigned to obligor grades or pools has been omitted.

**CR-EQ**

**Validation errors**

**CREQU080**

**Given:**  $\{070;080\} \{070;060\} * 190\%$

**Correction:**  $\{070;080\} \underline{=} \{070;060\} * 190\%$

**Reason:** '=' sign is missing from the formula

**CREQU090**

**Given:**  $\{070;090\} \{070;060\} * 0,8\%$

**Correction:**  $\{070;090\} \underline{=} \{070;060\} * 0,8\%$

**Reason:** '=' sign is missing from the formula

**CREQU100**

**Given:**  $\{080;080\} \{080;060\} * 290\%$

**Correction:**  $\{080;080\} \underline{=} \{080;060\} * 290\%$

**Reason:** '=' sign is missing from the formula

CREQU110

**Given:** {080;090} {080;060} \*0,8%  
**Correction:** {080;090} = {080;060} \*0,8%  
**Reason:** '=' sign is missing from the formula

CREQU120

**Given:** {090;080} {090;060} \*370%  
**Correction:** {090;080} = {090;060} \*370%  
**Reason:** '=' sign is missing from the formula

CREQU130

**Given:** {090;090} {090;060} \*2,4%  
**Correction:** {090;090} = {090;060} \*2,4%  
**Reason:** '=' sign is missing from the formula

CREQU140

**Given:** {CR EQU IRB; 010; 080}={CA2;XXX}  
**Correction:** {CR EQU IRB; 010; 080}={CA2;420}  
**Reason:** CA2 row reference not included

CREQU150

**Given:** absolute value of {CR EQU IRB;020;090} + absolute value of {CR EQU IRB;050;090} = absolute value of {CA1;XXX}  
**Reason:** Should CA1;XXX be CA1;380 (-) IRB shortfall of provisions to expected losses and equity expected loss amounts?

## CR SEC SA

### Validation error

**Given:** Cell {010;380} Link to CA template (Item 2.1.1.2: Securitisation positions SA)  
**Given:** Cell {020;380} Link to CA template (Item 2.1.1.2\*: of which re-securitisation)  
**Reason:** 2.1.1.2 is not a valid reference within CA templates

## CR SEC IRB

### Validation error

**Given:** Cell {010;450} Link to CA template (Item 2.1.2.4: Securitisation positions SA)  
**Given:** Cell {020;450} Link to CA template (Item 2.1.2.4\*: of which re-securitisation)  
**Reason:** 2.1.2.4 is not a valid reference within CA templates

## OPR

### Validation errors

Validation rule 1: {OPR;010;070}

**Given:** If 010/010 or/and 010/020 or/and 010/030 exists then 010/70 exists

**Correction:** If 010/010 or/and 010/020 or/and 010/030 exists then 010/070 exists  
**Reason:** Typographical error in the formula

Validation rule 2: {OPR;020;070}

**Given:** 020/070 must exist if anything exist in the matrix between 0130/010 and 100/030

**Correction:** 020/070 must exist if anything exists in the matrix between 030/010 and 100/030

**Reason:** Typographical error in the formula

## Missing validations

We believe that the following validations are missing and need to be included in the validation rules:

- {OPR;130/070}: If 130/010 or/and 130/020 or/and 130/030 exists, then 130/070 exists.
- {OPR;010/071} = 010:071\*12.5%
- {OPR;020/071} = 020/071\*12.5%
- {OPR;130/071} = 130/071\*12.5%

## MKR SA CTP

### Validation error

**Given:** 010;450 = If {010;430} >= {010;440} then {010;450} = {010;430}  
 If **01044** > **01043** then **01045=01044**

**Correction:** 010;450 = If {010;430} >= {010;440} then {010;450} = {010;430}  
 If {010;440} > {010;430} then {010;450} = {010;440}

**Reason:** Typographical error in the formula

## MKR SA EQU

### Validation error

**Given:** Row 010;column 070 = {010;060}\*12.5  
 Link to {CA2;590}

**Correction:** Row 010;column 070 = {010;060}\*12.5  
 Link to {CA2;580}

**Reason:** Typographical error in the formula

## MKR SA SEC

### Validation errors

**Given:** Columns 090 to 110, 170, 200, 230 to 290, 320 to 340, 400, 430, 460 to 520, 550 to 600

Rows  
 {010} = {030}+{060}+{090}  
 {010} ≥ {020}  
 {030} = {040}+{050}  
 {060} = {070}+{080}

**Correction:** Columns 090 to 110, 170, 200, 230 to 290, 320 to 340, 400, 430, 460 to 520, 550 to 600



Rows

$$\{010\} = \{030\} + \{060\} + \{090\}$$

$$\{010\} \geq \{020\}$$

$$\{030\} = \{040\} + \{050\}$$

$$\{060\} = \{070\} + \{080\}$$

$$\{090\} = \{100\} + \{110\}$$

**Reason:** Missing validation

**Given:** Row010;column 026 =

$$\{030;025\} * \{030;026\} + \{060;025\} * \{060;026\} + \{090;025\} + \{090;026\} / 010;025$$

**Correction:** Row010;column 260 =

$$\{030;250\} * \{030;260\} + \{060;250\} * \{060;260\} + \{090;250\} * \{090;260\} / 010;250$$

**Reason:** Typographical error in the formula

**Given:** Row010;column 049 =

$$\{030;048\} * \{030;049\} + \{060;048\} * \{060;049\} + \{090;048\} * \{090;049\} / 010;048$$

**Correction:** Row010;column 490 =

$$\{030;480\} * \{030;490\} + \{060;480\} * \{060;490\} + \{090;480\} * \{090;490\} / 010;480$$

**Reason:** Typographical error in the formula

## CR IP Losses

**Legal references, comments and regulation appear to be omitted or are in error**

**Given:** Column 030, 070, 100 is calculated with the Standardised Approach of **Title I chapter 2 of part 3** of CRR

**Correction:** Column 030, 070, 100 is calculated with the Standardised Approach of **Part 3, Title II, chapter 2** of CRR

**Reason:** CRR reference error

**Given:** Column 030, 070, 100 is calculated with the Internal Ratings Based Approach of **Title I chapter 3 of part 3** of CRR

**Correction:** Column 030, 070, 100 is calculated with the Internal Ratings Based Approach of **Part 3, Title II, chapter 3** of CRR

**Reason:** CRR reference error

## CA

**Validation errors**

### CA1

**Given:** CA1;490 = -Max[(CA4;040-CA4;090)-CA4;200,0]  
 (-) Deductible deferred tax assets that rely on future profitability and arise from temporary differences = -Max[(Deferred tax assets that rely on future profitability and arise from temporary differences - Deductible deferred tax liabilities associated with deferred tax assets that rely on future profitability and arise from temporary differences)- 10% CET1 threshold in Article 45 of CRR,0]

**Given:** CA1;500 = -Max[(CA4;440-CA4;690)-CA4;200,0]  
 (-) CET1 instruments of relevant entities where the institution has a significant investment = - Max[(Holdings of CET1 capital of relevant entities where the

**Question:** institution has a significant investment, net of short positions - Holdings on CET1 Capital Instruments of relevant entities where the institution has a significant investment temporary waived)]- **10% CET1 threshold in Article 45 of CRR,0]** If CA4;200 10% CET1 threshold in Article 45 of CRR, includes amounts for (a) and (b) how can this field be used to validate the two separate categories / lines in CA1?

Article 45 (a) deferred tax assets that are dependent on future profitability and arise from temporary differences and Article 45(b) where an institution has a significant investment in a relevant entity

**Given:** CA1;930 = Min[CA4;170;1.25% X CA4;180]  
(-) Reciprocal cross holdings in T2 Capital = Min [Total gross provisions eligible for inclusion in T2 capital;1.25% x Risk weighted exposure amounts for calculating the cap to the provision eligible as T2]

**Correction:** CA1;920 = Min[CA4;170;1.25% X CA4;180]  
SA General credit risk adjustments = Min [Total gross provisions eligible for inclusion in T2 capital;1.25% x Risk weighted exposure amounts for calculating the cap to the provision eligible as T2]

**Reason:** CRR references and validation don't seem to be compatible, should the reference be CA1;920?

## CA5 Table 1

**Given:** CA5.1 020;030 = CA5.2 030;010 + CA.3 090;060

**Correction:** CA5.1 020;040 = CA5.2 030;010 + CA.3 090;060

**Reason:** Table 1 column 030 is for 'adjustments to tier 1' and Table 2 and 3

030;010 = article 462(1) and (3) specifies 'shall qualify as tier 2 instruments'  
090;060 = article 463(5) 'shall qualify as tier 2 items'

**Given:** CA5.1;030;030 = CA5.5;030;040

**Correction:** CA5.1;030;040 = CA5.5;030;040

**Reason:** Table 1 column 030 is for 'adjustments to tier 1'

Table 5 row 030 is for 'Amounts of own funds to be included in consolidated Tier 2 capital'

**Given:** CA5.1;050;030 = CA5.6;020;060

**Correction:** CA5.1;050;040 = CA5.6;020;060

**Reason:** Table 1 column 030 is for 'adjustments to tier 1'  
Table 6 column 020 is for 'adjustments to T2'

**Given:** CA5.1;060;020= CA5.7;020;050+ CA5.7;040;050+ CA5.7;060;050+ CA5.7;090;050+

CA5.7;190;050+ CA5.8;050;130+

CA5.9;010;030+CA5.9;050;030+CA5.9;120;030+

CA5.9;150;030+CA5.9;020;050+CA5.9;130;050+CA5.9;160;050+CA5.10;130;050+CA5.10;160;050

**Reason:** Columns used in the validation don't seem to be compatible / inconsistent with the validation rule.

Table 1 column 020 is for 'adjustments to AT1'

Table 7 column 050 is for 'adjustments to T1'

Table 8 column 130 is for '(-) adjustments to T1'



Table 9 'deductions from AT1' column 030 is for 'adjustments to the original deduction'

Table 9 'deductions from AT1' column 050 is for '**(-) adjustments to T1**'

Table 10 column 050 is for '**(-) adjustments to T1**'

**Given:** CA5.1;060;030= **CA5.7;010;060**+ CA5.7;060;060+ **CA5.7;080;060**+  
CA5.7;190;060+ CA5.8;050;140+ CA5.9;130;060+ CA5.9;160;060+  
CA5.10;010;030+ CA5.10;050;030+CA5.10;120;030+CA5.10;150;030+  
CA5.10;020;060+CA5.10;130;060+CA5.10;160;060

**Reasons:** (1) Column / Row in **bold** are included in the validation formula but are 'greyed' (not for population) cells on the templates.

(2) Columns used in the validation don't seem to be compatible / inconsistent with the validation rule.

Table 1 column 030 is for 'adjustments to Tier 1'

Table 7 column 060 is for 'adjustments to T2'

Table 8 column 140 is for 'adjustments to T2'

Table 9 'deductions from AT1' column 060 is for 'adjustments to T2'

Table 10 'deductions from T2' column 030 is for 'adjustments to the original deduction'

Table 10 column 060 is for '(-) adjustments to T2'

## CA5 Table 5

**Given:** For rows 010, 020, 030  
CA5.5;**010**;030= CA5 **Table 5**;\*;**010**

**Correction:** For rows 010, 020, 030  
CA5.5;column 030 = CA5.**5**;column **010** \* column 020

**Reason:** Typographical error in the formula

## CA5 Table 7

**Given:** CA5.7;190;060=**(-1)**\*CA5.7;190;040

**Correction:** CA5.7;190;060=**(-0.5)**\*CA5.7;190;040  
**CA5.7;190;050**=(**-0.5**)\***CA5.7;190;040**

**Reason:** Article 453(9) point (a) the amounts required to be deducted that relate to direct holdings are deducted half from Tier 1 items and half from Tier 2 items.

**Given:** CA5.7;040;010=CA1;300 + **CA1;300**

**Correction:** CA5.7;040;010=CA1;300 + **CA1;340**

**Reason:** Typographical error in the formula

## CA5 Table 10

**Given:** For rows 010, 050, 120, 150  
CA5.10; column 030 = (-1) \* (100-CA5.10; column 020) \* CA5.10; column 010

**Correction:** For rows 010, 050, 120, 150  
CA5.10; column 030 = (-1) \* (100**%**-CA5.10; column 020) \* CA5.10; column 010

**Reason:** Typographical error in the formula

## Validation errors

- Given:** Column 070 = CA2;040 + CA2;500  
**Correction:** Column 070 = CA2;040 + CA2;500 + CA510  
**Reason:** CA2;500 only includes Settlement/delivery risk in the non-Trading book, should the formula included CA2:510 Settlement/delivery risk in the Trading book?
- Given:** Column 080 = CA2;530  
**Correction:** Column 080 = CA2;520  
**Reason:** CA2;530 is for 'Risk exposure amount for position, foreign exchange and commodities risks under standardised approaches (SA)' and not 'Total risk exposure amount for position, foreign exchange, commodities risks'
- Given:** Column 090 = CA2;630  
**Correction:** Column 090 = CA2;620  
**Reason:** CA2;630 is for 'OpR Basic indicator approach (BIA)', should this be CA2;630 'Total risk exposure amount for operational risk'?
- Given:** Column 100 = CA2;680 + CA2;700 + CA2;740  
**Correction:** Column 100 = CA2;720 + CA730 + CA740  
**Reason:** CA;680 is for 'Advanced method' and CA;700 'Total risk exposure amount related to large exposures in the trading book', this does not validate to column 100 'Other and transitional risk exposures'