

GABRIEL Data Reference Guide - Cross Data Item Validation Rules

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Document History

Version	Date	Description
1.0	23/03/2007	Initial version covering FSA001 to FSA004, FSA008, FSA010 to FSA013, FSA016, FSA018, FSA019 and FSA028.
2.0	31/08/2007	Version covering FSA001 to FSA028 and FSA044 to FSA046.
3.0	12/10/2007	Version covering all data items FSA001 to FSA046, Mortgage Lending & Administration (MLA), Retail Mediation Activities (RMA), Complaints and Credit Unions (CQ and CY).
4.0	05/06/2008	Version that accounts for the merger of RMA-D1 and RMA-D2 into a single item
5.0	7/10/2009	This version contains a number of changes: (a) Backed out the merger of RMA-D1 and RMA-D2 into RMA-D1-D2 – these revert to being separate data items. Hence reintroduced RMA-D1 rules 4, 5 & 6 between RMA-D1 and RMA-D2. (b) Removed RMA-D1 rule 1: $RMA-D1.3A = 5\%$ of $RMA-B(1E+2E)$ since RMA-B figures are cumulative. (c) Removed RMA-D1 rule 3: $RMA-D1.16A \geq RMA-E.9H$ to allow for negative own funds. (d) Amended RMA-D2 rules 5 and 7 to be conditional upon RMA-D1.11A not being “B3 low resource”. (e) Introduces rules between the new liquidity data items set out in Legal Instrument 2009/56
6.0	1/12/2009	Corrects a typo on FSA047 rule 2: component 790A corrected to 79A
7.0	16/04/2010	Amends all 40 cross validation rules involving FSA047 to utilise all the potential 98 columns in FSA047 (ie columns A to CT) - previously was only 92 columns (ie columns A to CN).
8.0	20/10/2014	Amended MLA-C rule 2 Added MLA-L rules
9.0	01/12/2015	Version containing cross validation rules between MLAR data items introduced for Mortgage Credit Directive (MLA-A4, MLA-D1 and MLA-E1).

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1 What is the purpose of this document?

This document is part of the Data Reference Guide (DRG) for GABRIEL. It specifies cross Data Item i.e. "external" validation rules that involve comparison of data from more than one Data Item. Rules that involve data from a single Data Item ("internal" rules) are not shown here, but are specified in the Data Definition spreadsheet for each Data Item (Data item links are found on the Data Reference Guide home page).

The rules themselves are not new and have simply been extracted from the appropriate Handbook section (predominantly SUP 16 Annex 25G) and presented together here for convenience.

2 Who should read this document?

All external and internal rules will be applied to all GABRIEL submissions, whether received via on-line forms, off-line forms, direct communication (system to system) or web xml upload.

It is anticipated that those building software to prepare regulatory data will build in these validation rules, so that the validation is applied before it reaches GABRIEL.

This document is therefore aimed at IT professionals seeking to develop such software.

3 How are the Rules Set Out

The validation rules are listed in Data Item order. Each rule is only listed in full once – against just one of the Data Items. The entry for the other Data Item(s) in the rule will refer the reader to the Data Item where the full listing can be found.

The tables contain the error code that is likely to be returned if the data fails the validation rule. A full definition of each error code can be found in the DRG Introduction document.

All validation rules will contain a tolerance appropriate to the degree of rounding allowed in the constituent elements unless otherwise specified.

4 Data Item Coverage

If there is no sub-heading for a particular Data Item, then there are no validation rules between it and any other Data Item covered by this document.

This version of the document covers all data items FSA001 to FSA048, Mortgage Lending & Administration (MLA) data items, and Retail Mediation Activities (RMA) data items.

5 Cross Data Item Validation Rules

5.1 FSA003

Reference	Data Items	Validation Rule	Error Code
FSA003 rule 1	FSA003 & FSA004	FSA003.79A = FSA004.1A	ERR0020
FSA003 rule 2	FSA003 & FSA004	FSA003.81A = FSA004.18A	ERR0020
FSA003 rule 3	FSA003 & FSA004	FSA003.82A = FSA004.23A	ERR0020
FSA003 rule 4	FSA003 & FSA004	FSA003.83A = FSA004.28A	ERR0020
FSA003 rule 4a	FSA003 & FSA004	FSA003.84A = FSA004.33A	ERR0020
FSA003 rule 5	FSA003 & FSA007	FSA003.88A = FSA007.15A	ERR0020
FSA003 rule 6	FSA003 & FSA007	FSA003.89A = FSA007.15B	ERR0020
FSA003 rule 7	FSA003 & FSA005	FSA003.93A - FSA003.94A = FSA005.62G	ERR0010
FSA003 rule 8	FSA003 & FSA005	FSA003.96A = FSA005.18G	ERR0020
FSA003 rule 9	FSA003 & FSA005	FSA003.97A = FSA005.29G	ERR0020
FSA003 rule 10	FSA003 & FSA005	FSA003.98A = FSA005.40G	ERR0020
FSA003 rule 11	FSA003 & FSA005	FSA003.99A = FSA005.48G	ERR0020
FSA003 rule 12	FSA003 & FSA005	FSA003.100A = FSA005.55G	ERR0020
FSA003 rule 13	FSA003 & FSA005	FSA003.101A = FSA005.56G	ERR0020
FSA003 rule 14	FSA003 & FSA005	FSA003.102A = FSA005.61G	ERR0020
FSA003 rule 16	FSA003 & FSA008	Conditional Rule: If FSA008.3A is omitted or if FSA008.3A = "no", then FSA003.103A = FSA008.5R (Total) Otherwise FSA003.103A >= FSA008.5R (Total)	ERR0050

5.2 FSA004

Reference	Data Items	Validation Rule	Error Code
FSA004	FSA003 & FSA004	See FSA003 rules 1, 2, 3, 4 & 4a	N/A

5.3 FSA005

Reference	Data Items	Validation Rule	Error Code
FSA005	FSA003 & FSA005	See FSA003 rules 7 to 14	N/A

5.4 FSA007

Reference	Data Items	Validation Rule	Error Code
FSA007	FSA003 & FSA007	See FSA003 rules 5 & 6	N/A

5.5 FSA008

Reference	Data Items	Validation Rule	Error Code
FSA008	FSA003 & FSA008	See FSA003 rule 16	N/A

5.6 FSA020

Reference	Data Items	Validation Rule	Error Code
FSA020	FSA020 & FSA022	See FSA022 rules 1 & 2	N/A
FSA020	FSA020 & FSA025	See FSA025 rules 1, 3, 4, 5 and 6	N/A

5.7 FSA022

Reference	Data Items	Validation Rule	Error Code
FSA022 rule 1	FSA020 & FSA022	$FSA022.1A = FSA020.29A$	ERR0020
FSA022 rule 2	FSA020 & FSA022	$FSA022.2A = FSA020.11A$	ERR0020

5.8 FSA025

Reference	Data Items	Validation Rule	Error Code
FSA025 rule 1	FSA020 & FSA025	$FSA025.2A = FSA020.3A$	ERR0020
FSA025 rule 3	FSA020 & FSA025	$FSA025.5A = FSA020.11A$	ERR0020
FSA025 rule 4	FSA020 & FSA025	$FSA025.3A \leq FSA020.4A$	ERR0020
FSA025 rule 5	FSA020 & FSA025	$FSA025.1A = FSA020.1A + FSA020.2A$	ERR0010
FSA025 rule 6	FSA020 & FSA025	$FSA025.4A = FSA025.1A + FSA025.2A + \text{the lower of } 0.2 * FSA020.29A \text{ or } FSA025.3A$	ERR0010

5.9 FSA047

All the rules that apply to FSA047 and FSA048 are only applied if the two data items are:

- (a) reported in the same currency (matching @currency attribute); and
- (b) represent flows in the same underlying currency or a consolidation of all currencies (matching UnderlyingFlowsBalancesCurrency.CurrencyBasis and UnderlyingFlowsBalancesCurrency.Currency elements).

Reference	Data Items	Validation Rule	Error Code
FSA047 rule 1	FSA047 & FSA048	$FSA048.6A + FSA048.6B + \text{SUM}(FSA047.6A \text{ to } FSA047.6CT) + \text{SUM}(FSA048.6F \text{ to } FSA048.6J) - FSA048.78A = 0$	ERR0010
FSA047 rule 2	FSA047 & FSA048	$FSA048.7A + FSA048.7B + \text{SUM}(FSA047.7A \text{ to } FSA047.7CT) + \text{SUM}(FSA048.7F \text{ to } FSA048.7J) - FSA048.79A = 0$	ERR0010
FSA047 rule 3	FSA047 & FSA048	$FSA048.8A + FSA048.8B + \text{SUM}(FSA047.8A \text{ to } FSA047.8CT) + \text{SUM}(FSA048.8F \text{ to } FSA048.8J) - FSA048.80A = 0$	ERR0010
FSA047 rule 4	FSA047 & FSA048	$FSA048.9A + FSA048.9B + \text{SUM}(FSA047.9A \text{ to } FSA047.9CT) + \text{SUM}(FSA048.9F \text{ to } FSA048.9J) = 0$ Note there is no field FSA048.81A	ERR0010
FSA047 rule 5	FSA047 & FSA048	$FSA048.10A + FSA048.10B + \text{SUM}(FSA047.10A \text{ to } FSA047.10CT) + \text{SUM}(FSA048.10F \text{ to } FSA048.10J) - FSA048.82A = 0$	ERR0010
FSA047 rule 6	FSA047 & FSA048	$FSA048.11A + FSA048.11B + \text{SUM}(FSA047.11A \text{ to } FSA047.11CT) + \text{SUM}(FSA048.11F \text{ to } FSA048.11J) - FSA048.83A = 0$	ERR0010
FSA047 rule 7	FSA047 & FSA048	$FSA048.12A + FSA048.12B + \text{SUM}(FSA047.12A \text{ to } FSA047.12CT) + \text{SUM}(FSA048.12F \text{ to } FSA048.12J) - FSA048.84A = 0$	ERR0010
FSA047 rule 8	FSA047 & FSA048	$FSA048.13A + FSA048.13B + \text{SUM}(FSA047.13A \text{ to } FSA047.13CT) + \text{SUM}(FSA048.13F \text{ to } FSA048.13J) - FSA048.85A = 0$	ERR0010
FSA047 rule 9	FSA047 & FSA048	$FSA048.14A + FSA048.14B + \text{SUM}(FSA047.14A \text{ to } FSA047.14CT) + \text{SUM}(FSA048.14F \text{ to } FSA048.14J) - FSA048.86A = 0$	ERR0010
FSA047 rule 10	FSA047 & FSA048	$FSA048.15A + FSA048.15B + \text{SUM}(FSA047.15A \text{ to } FSA047.15CT) + \text{SUM}(FSA048.15F \text{ to } FSA048.15J) - FSA048.87A = 0$	ERR0010
FSA047 rule 11	FSA047 & FSA048	$FSA048.16A + FSA048.16B + \text{SUM}(FSA047.16A \text{ to } FSA047.16CT) + \text{SUM}(FSA048.16F \text{ to } FSA048.16J) - FSA048.88A = 0$	ERR0010
FSA047 rule 12	FSA047 & FSA048	$FSA048.17A + FSA048.17B + \text{SUM}(FSA047.17A \text{ to } FSA047.17CT) + \text{SUM}(FSA048.17F \text{ to } FSA048.17J) - FSA048.89A = 0$	ERR0010

FSA047 (continued)

Reference	Data Items	Validation Rule	Error Code
FSA047 rule 13	FSA047 & FSA048	FSA048.20A + SUM(FSA047.20A to FSA047.20CT) + SUM(FSA048.20F to FSA048.20J) >= 0	ERR0040
FSA047 rule 14	FSA047 & FSA048	FSA048.21A + SUM(FSA047.21A to FSA047.21CT) + SUM(FSA048.21F to FSA048.21J) >= 0	ERR0040
FSA047 rule 15	FSA047 & FSA048	FSA048.22A + SUM(FSA047.22A to FSA047.22CT) + SUM(FSA048.22F to FSA048.22J) >= 0	ERR0040
FSA047 rule 16	FSA047 & FSA048	SUM(FSA047.24A to FSA047.24CT) + SUM(FSA048.24F to FSA048.24J) >= 0	ERR0040
FSA047 rule 17	FSA047 & FSA048	FSA048.25B + SUM(FSA047.25A to FSA047.25CT) + SUM(FSA048.25F to FSA048.25J) >= 0	ERR0040
FSA047 rule 18	FSA047 & FSA048	FSA048.26B + SUM(FSA047.26A to FSA047.26CT) + SUM(FSA048.26F to FSA048.26J) >= 0	ERR0040
FSA047 rule 19	FSA047 & FSA048	FSA048.27B + SUM(FSA047.27A to FSA047.27CT) + SUM(FSA048.27F to FSA048.27J) >= 0	ERR0040
FSA047 rule 20	FSA047 & FSA048	FSA048.28B + SUM(FSA047.28A to FSA047.28CT) + SUM(FSA048.28F to FSA048.28J) >= 0	ERR0040
FSA047 rule 21	FSA047 & FSA048	FSA048.29B + SUM(FSA047.29A to FSA047.29CT) + SUM(FSA048.29F to FSA048.29J) >= 0	ERR0040
FSA047 rule 22	FSA047 & FSA048	FSA048.30B + SUM(FSA047.30A to FSA047.30CT) + SUM(FSA048.30F to FSA048.30J) >= 0	ERR0040
FSA047 rule 23	FSA047 & FSA048	FSA048.34B + SUM(FSA047.34A to FSA047.34CT) + SUM(FSA048.34F to FSA048.34J) <= 0	ERR0040
FSA047 rule 24	FSA047 & FSA048	FSA048.35B + SUM(FSA047.35A to FSA047.35CT) + SUM(FSA048.35F to FSA048.35J) <= 0	ERR0040
FSA047 rule 25	FSA047 & FSA048	FSA048.36B + SUM(FSA047.36A to FSA047.36CT) + SUM(FSA048.36F to FSA048.36J) <= 0	ERR0040
FSA047 rule 26	FSA047 & FSA048	FSA048.37B + SUM(FSA047.37A to FSA047.37CT) + SUM(FSA048.37F to FSA048.37J) <= 0	ERR0040
FSA047 rule 27	FSA047 & FSA048	FSA048.38B + SUM(FSA047.38A to FSA047.38CT) + SUM(FSA048.38F to FSA048.38J) <= 0	ERR0040
FSA047 rule 28	FSA047 & FSA048	FSA048.39B + SUM(FSA047.39A to FSA047.39CT) + SUM(FSA048.39F to FSA048.39J) <= 0	ERR0040

FSA047 (continued)

Reference	Data Items	Validation Rule	Error Code
FSA047 rule 29	FSA047 & FSA048	SUM(FSA047.40A to FSA047.40CT) + SUM(FSA048.40F to FSA048.40J) <= 0	ERR0040
FSA047 rule 30	FSA047 & FSA048	SUM(FSA047.41A to FSA047.41CT) + SUM(FSA048.41F to FSA048.41J) <= 0	ERR0040
FSA047 rule 31	FSA047 & FSA048	SUM(FSA047.42A to FSA047.42CT) + SUM(FSA048.42F to FSA048.42J) <= 0	ERR0040
FSA047 rule 32	FSA047 & FSA048	SUM(FSA047.43A to FSA047.43CT) + SUM(FSA048.43F to FSA048.43J) <= 0	ERR0040
FSA047 rule 33	FSA047 & FSA048	FSA048.44A + SUM(FSA047.44A to FSA047.44CT) + SUM(FSA048.44F to FSA048.44J) <= 0	ERR0040
FSA047 rule 34	FSA047 & FSA048	FSA048.45A + SUM(FSA047.45A to FSA047.45CT) + SUM(FSA048.45F to FSA048.45J) <= 0	ERR0040
FSA047 rule 35	FSA047 & FSA048	FSA048.46A + SUM(FSA047.46A to FSA047.46CT) + SUM(FSA048.46F to FSA048.46J) <= 0	ERR0040
FSA047 rule 36	FSA047 & FSA048	FSA048.47A + SUM(FSA047.47A to FSA047.47CT) + SUM(FSA048.47F to FSA048.47J) <= 0	ERR0040
FSA047 rule 37	FSA047 & FSA048	FSA048.48A + SUM(FSA047.48A to FSA047.48CT) + SUM(FSA048.48F to FSA048.48J) <= 0	ERR0040
FSA047 rule 38	FSA047 & FSA048	FSA048.49A + SUM(FSA047.49A to FSA047.49CT) + SUM(FSA048.49F to FSA048.49J) <= 0	ERR0040
FSA047 rule 39	FSA047 & FSA048	FSA048.50A + SUM(FSA047.50A to FSA047.50CT) + SUM(FSA048.50F to FSA048.50J) <= 0	ERR0040
FSA047 rule 40	FSA047 & FSA048	FSA048.51A + SUM(FSA047.51A to FSA047.51CT) + SUM(FSA048.51F to FSA048.51J) <= 0	ERR0040

5.10 FSA048

Reference	Data Items	Validation Rule	Error Code
FSA048	FSA047 & FSA048	See FSA047 rules 1 to 40	N/A

5.11 MLA-A1-A2

Reference	Data Items	Validation Rule	Error Code
MLA-A1-A2 rule 1	MLA-A1-A2 & MLA-A3	$MLA-A1-A2.A1.6[c1] = MLA-A3.A3.6[c3] + MLA-A3.A3.6[c7]$	ERR0010

5.12 MLA A3

Reference	Data Items	Validation Rule	Error Code
MLA-A3	MLA-A1-A2 & MLA-A3	See MLA-A1-A2 rule 1	N/A
MLA-A3	MLA-C & MLA-A3	See MLA-C rules 1 & 2	N/A
MLA-A3	MLA-A3 & MLA-A4	See MLA-A4 rules 1, 2, 3, 4, 5, 6 & 7 (see below)	N/A

5.13 MLA A4

Reference	Data Items	Validation Rule	Error Code
MLA-A4 Rule 1	MLA-A3 & MLA-A4	$MLA-A4.1A \leq MLA-A3.A3.2[c1]$	ERR0040
MLA-A4 Rule 2	MLA-A3 & MLA-A4	$MLA-A4.1B \leq MLA-A3.A3.2[c2]$	ERR0040
MLA-A4 Rule 3	MLA-A3 & MLA-A4	$MLA-A4.1C \leq MLA-A3.A3.2[c3]$	ERR0040
MLA-A4 Rule 4	MLA-A3 & MLA-A4	$MLA-A4.1D \leq MLA-A3.A3.2[c4]$	ERR0040
MLA-A4 Rule 5	MLA-A3 & MLA-A4	$MLA-A4.1E \leq MLA-A3.A3.2[c5]$	ERR0040
MLA-A4 Rule 6	MLA-A3 & MLA-A4	$MLA-A4.1F \leq MLA-A3.A3.2[c6]$	ERR0040
MLA-A4 Rule 7	MLA-A3 & MLA-A4	$MLA-A4.1G \leq MLA-A3.A3.2[c7]$	ERR0040

5.14 MLA C

Reference	Data Items	Validation Rule	Error Code
MLA-C rule 1	MLA-C & MLA-A3	Conditional rule: MLA-C.C4.2[c2] to C4.6e[c2] are mandatory if $MLA-A3.A3.6[c1] > 0$ else do not complete	ERR0050
MLA-C rule 2	MLA-C & MLA-A3	Conditional rule: MLA-C.C5[c1] to C5.5c[c2] are mandatory if $MLA-A3.A3.6[c1] = 0$ else do not complete	ERR0050
MLA-C	MLA-C & MLA-L	See MLA-L rules 1 & 2	N/A

5.15 MLA D

Reference	Data Items	Validation Rule	Error Code
MLA-D rule 1	MLA-D & MLA-E	$MLA-D.D1.1[c2] = \Sigma\{MLA-E.E1.7[c1] + MLA-E.E1.7[c2] + MLA-E.E1.7[c3] + MLA-E.E1.7[c4]\} + \Sigma\{MLA-E.E2.7[c1] + MLA-E.E2.7[c2] + MLA-E.E2.7[c3] + MLA-E.E2.7[c4]\}$	ERR0010

MLA-D rule 2	MLA-D & MLA-E	$\text{MLA-D.D1.2[c2]} = \Sigma\{\text{MLA-E.E1.14[c1]} + \text{MLA-E.E1.14[c2]} + \text{MLA-E.E1.14[c3]} + \text{MLA-E.E1.14[c4]}\} + \Sigma\{\text{MLA-E.E2.14[c1]} + \text{MLA-E.E2.14[c2]} + \text{MLA-E.E2.14[c3]} + \text{MLA-E.E2.14[c4]}\}$	ERR0010
MLA-D rule 3	MLA-D & MLA-E	$\text{MLA-D.D1.1[c2]} = \text{MLA-E.E3.3[c2]}$	ERR0020
MLA-D rule 4	MLA-D & MLA-E	$\text{MLA-D.D1.1[c7]} = \text{MLA-E.E3.3[c4]}$	ERR0020
MLA-D rule 5	MLA-D & MLA-E	$\text{MLA-D.D1.2[c2]} = \text{MLA-E.E3.3[c6]}$	ERR0020
MLA-D rule 6	MLA-D & MLA-E	$\text{MLA-D.D1.2[c7]} = \text{MLA-E.E4.5[c8]}$	ERR0020
MLA-D	MLA-D & MLA-D1	See MLA-D1 rules 4 to 44 (see below)	N/A

5.16 MLA D1

Reference	Data Items	Validation Rule	Error Code
MLA-D1 Rule 1	MLA-D1 & MLA-E1	$\text{MLA-D1.1B} = \Sigma\{\text{MLA-E1.7A} + \text{MLA-E1.7B} + \text{MLA-E1.7C} + \text{MLA-E1.7D}\} + \Sigma\{\text{MLA-E1.15A} + \text{MLA-E1.15B} + \text{MLA-E1.15C} + \text{MLA-E1.15D}\}$	ERR0030
MLA-D1 Rule 2	MLA-D1 & MLA-E1	$\text{MLA-D1.1B} = \text{MLA-E1.19B}$	ERR0020
MLA-D1 Rule 3	MLA-D1 & MLA-E1	$\text{MLA-D1.1G} = \text{MLA-E1.19D}$	ERR0020
MLA-D1 Rule 4	MLA-D1 & MLA-D	$\text{MLA-D1.1A} \leq \text{MLA-D.D1.1[c1]}$	ERR0040
MLA-D1 Rule 5	MLA-D1 & MLA-D	$\text{MLA-D1.1B} \leq \text{MLA-D.D1.1[c2]}$	ERR0040
MLA-D1 Rule 6	MLA-D1 & MLA-D	$\text{MLA-D1.1C} \leq \text{MLA-D.D1.1[c3]}$	ERR0040
MLA-D1 Rule 7	MLA-D1 & MLA-D	$\text{MLA-D1.1D} \leq \text{MLA-D.D1.1[c4]}$	ERR0040
MLA-D1 Rule 8	MLA-D1 & MLA-D	$\text{MLA-D1.1E} \leq \text{MLA-D.D1.1[c5]}$	ERR0040
MLA-D1 Rule 9	MLA-D1 & MLA-D	$\text{MLA-D1.1F} \leq \text{MLA-D.D1.1[c6]}$	ERR0040
MLA-D1 Rule 10	MLA-D1 & MLA-D	$\text{MLA-D1.1G} \leq \text{MLA-D.D1.1[c7]}$	ERR0040
MLA-D1 Rule 11	MLA-D1 & MLA-D	$\text{MLA-D1.1H} \leq \text{MLA-D.D1.1[c8]}$	ERR0040
MLA-D1 Rule 12	MLA-D1 & MLA-D	$\text{MLA-D1.1I} \leq \text{MLA-D.D1.1[c9]}$	ERR0040
MLA-D1 Rule 13	MLA-D1 & MLA-D	$\text{MLA-D1.2A} \leq \text{MLA-D.D2.1[c1]}$	ERR0040
MLA-D1 Rule 14	MLA-D1 & MLA-D	$\text{MLA-D1.2B} \leq \text{MLA-D.D2.1[c2]}$	ERR0040
MLA-D1 Rule 15	MLA-D1 & MLA-D	$\text{MLA-D1.2C} \leq \text{MLA-D.D2.1[c3]}$	ERR0040
MLA-D1 Rule 16	MLA-D1 & MLA-D	$\text{MLA-D1.2D} \leq \text{MLA-D.D2.1[c4]}$	ERR0040

MLA-D1 17	Rule	MLA-D1 & MLA-D	MLA-D1.2E <= MLA-D.D2.1[c5]	ERR0040
MLA-D1 18	Rule	MLA-D1 & MLA-D	MLA-D1.2F <= MLA-D.D2.1[c6]	ERR0040
MLA-D1 19	Rule	MLA-D1 & MLA-D	MLA-D1.3A <= MLA-D.D3.1[c1]	ERR0040
MLA-D1 20	Rule	MLA-D1 & MLA-D	MLA-D1.3B <= MLA-D.D3.1[c2]	ERR0040
MLA-D1 21	Rule	MLA-D1 & MLA-D	MLA-D1.3C <= MLA-D.D3.1[c3]	ERR0040
MLA-D1 22	Rule	MLA-D1 & MLA-D	MLA-D1.3D <= MLA-D.D3.1[c4]	ERR0040
MLA-D1 23	Rule	MLA-D1 & MLA-D	MLA-D1.3E <= MLA-D.D3.1[c5]	ERR0040
MLA-D1 24	Rule	MLA-D1 & MLA-D	MLA-D1.3F <= MLA-D.D3.1[c6]	ERR0040
MLA-D1 25	Rule	MLA-D1 & MLA-D	MLA-D1.3G <= MLA-D.D3.1[c7]	ERR0040
MLA-D1 26	Rule	MLA-D1 & MLA-D	MLA-D1.4A <= MLA-D.D3.2[c1]	ERR0040
MLA-D1 27	Rule	MLA-D1 & MLA-D	MLA-D1.4B <= MLA-D.D3.2[c2]	ERR0040
MLA-D1 28	Rule	MLA-D1 & MLA-D	MLA-D1.4C <= MLA-D.D3.2[c3]	ERR0040
MLA-D1 29	Rule	MLA-D1 & MLA-D	MLA-D1.4D <= MLA-D.D3.2[c4]	ERR0040
MLA-D1 30	Rule	MLA-D1 & MLA-D	MLA-D1.4E <= MLA-D.D3.2[c5]	ERR0040
MLA-D1 31	Rule	MLA-D1 & MLA-D	MLA-D1.4F <= MLA-D.D3.2[c6]	ERR0040
MLA-D1 32	Rule	MLA-D1 & MLA-D	MLA-D1.4G <= MLA-D.D3.2[c7]	ERR0040
MLA-D1 33	Rule	MLA-D1 & MLA-D	MLA-D1.5A <= MLA-D.D4.1a[c1]	ERR0040
MLA-D1 34	Rule	MLA-D1 & MLA-D	MLA-D1.5B <= MLA-D.D4.1a[c2]	ERR0040
MLA-D1 35	Rule	MLA-D1 & MLA-D	MLA-D1.5C <= MLA-D.D4.1a[c3]	ERR0040
MLA-D1 36	Rule	MLA-D1 & MLA-D	MLA-D1.5D <= MLA-D.D4.1a[c4]	ERR0040
MLA-D1 37	Rule	MLA-D1 & MLA-D	MLA-D1.5E <= MLA-D.D4.1a[c5]	ERR0040

MLA-D1 Rule 38	MLA-D1 & MLA-D	MLA-D1.5F <= MLA-D.D4.1a[c6]	ERR0040
MLA-D1 Rule 39	MLA-D1 & MLA-D	MLA-D1.6A <= MLA-D.D4.1b[c1]	ERR0040
MLA-D1 Rule 40	MLA-D1 & MLA-D	MLA-D1.6B <= MLA-D.D4.1b[c2]	ERR0040
MLA-D1 Rule 41	MLA-D1 & MLA-D	MLA-D1.6C <= MLA-D.D4.1b[c3]	ERR0040
MLA-D1 Rule 42	MLA-D1 & MLA-D	MLA-D1.6D <= MLA-D.D4.1b[c4]	ERR0040
MLA-D1 Rule 43	MLA-D1 & MLA-D	MLA-D1.6E <= MLA-D.D4.1b[c5]	ERR0040
MLA-D1 Rule 44	MLA-D1 & MLA-D	MLA-D1.6F <= MLA-D.D4.1b[c6]	ERR0040

5.17 MLA E

Reference	Data Items	Validation Rule	Error Code
MLA-E	MLA-D & MLA-E	See MLA-D rules 1, 2, 3, 4, 5 & 6	N/A

5.18 MLA E1

Reference	Data Items	Validation Rule	Error Code
MLA-E1	MLA-D1 & MLA-E1	See MLA-D1 rules 1, 2, & 3 (see above)	N/A

5.19 MLA L

Reference	Data Items	Validation Rule	Error Code
MLA-L Rule 1	MLA-C & MLA-L	MLA-C 4.6(a) = MLA-L 6A	ERR0010
MLA-L Rule 2	MLA-C & MLA-L	MLA-C 4.6(c) = MLA-L 7E	ERR0010

5.20 RMA-A

Reference	Data Items	Validation Rule	Error Code
RMA-A	RMA-A & RMA-D1	See RMA-D1 rules 7 & 8	N/A
RMA-A	RMA-A & RMA-D2	See RMA-D2 rules 1, 2, 3, 4, 5, 6 & 7	N/A

5.21 RMA-D1

Reference	Data Items	Validation Rule	Error Code
RMA-D1 rule 2	RMA-D1 & RMA-E	RMA-D1.13A = RMA-E.8H	ERR0020
RMA-D1 rule 4	RMA-D1 & RMA-D2	RMA-D1.16A = RMA-D2.15A	ERR0020

RMA-D1 rule 5	RMA-D1 & RMA-D2	$RMA-D1.19A = RMA-D2.22A$	ERR0020
RMA-D1 rule 6	RMA-D1 & RMA-D2	$RMA-D1.22A = RMA-D2.35B$	ERR0020
RMA-D1 rule 7	RMA-A & RMA-D1	$RMA-D1.24A \leq RMA-A.20A + RMA-A.21A$	ERR0040
RMA-D1 rule 8	RMA-A & RMA-D1	$RMA-D1.33A \leq RMA-A.28A$	ERR0040

5.22 RMA-D2

Reference	Data Items	Validation Rule	Error Code
RMA-D2 rule 1	RMA-A & RMA-D2	$RMA-D2.1A \leq RMA-A.20A + RMA-A.21A$	ERR0040
RMA-D2 rule 2	RMA-A & RMA-D2	$RMA-D2.2A \leq RMA-A.22A$	ERR0040
RMA-D2 rule 3	RMA-A & RMA-D2	$RMA-D2.5A \leq RMA-A.24A$	ERR0040
RMA-D2 rule 4	RMA-A & RMA-D2	$RMA-D2.11A = RMA-A.1B$	ERR0020
RMA-D2 rule 5	RMA-A, RMA-D1 & RMA-D2	If $RMA-D1.11A <> \text{"B3 low resource"}$, $RMA-D2.18A = RMA-A.14B$	ERR0020
RMA-D2 rule 6	RMA-A & RMA-D2	$RMA-D2.19A \leq RMA-A.10A$	ERR0040
RMA-D2 rule 7	RMA-A, RMA-D1 & RMA-D2	If $RMA-D1.11A <> \text{"B3 low resource"}$, $RMA-D2.25B = RMA-A.18B$	ERR0020
RMA-D2	RMA-D1 & RMA-D2	See RMA-D1 rules 4, 5 & 6	N/A

5.23 RMA-E

Reference	Data Items	Validation Rule	Error Code
RMA-E	RMA-D1 & RMA-E	See RMA-D1 rule 2	N/A