

Reference	Brief Description	Criticality (Critical, Routine, Optional)	Type (Corrective, Adaptive, Enhancement)	Implementation Due Date	Comments	Joint Committee / Council References	C/S Document section(s) / Pages(s)
LG-MCC-1	Changes in the RLS protocol (per C/S T.001, section A3.3.7 and Figure A.10, no fixed bits starting in bit 107)	Critical	Adaptive	Dec-17		JC-30 Report, sections 5.1.32 to 5.1.37	A.001 - Issue 7 - Rev. 1: Table II/B.4, Annex II / B.10.1; A.002 - Issue 6 - Rev. 1: MF #62, pages B-28 and B-29
LG-MCC-2	Processing orbit numbers for LEOSAR satellites that exceed 5 digits	Critical	Adaptive	Jun-17		JC-30 Report, Annex 5	A.002 - Issue 6 - Rev. 1: Annex B, MF #7, pages B-2 and B-13
	Upgrade to LGM MCC (LGM MCC Commissioning)				Subsequent items only apply to LGM MCCs		
MCC-001	Sending new non-matching encoded position (referencing the most recent encoded position)	Critical	Adaptive	Jun-17		JC-30 Report, Annex 4	A.001 - Issue 7 - Rev. 1: section 3.2.3.2, page 3-9 (see a.ii.b)
MCC-002	Sending alerts with better quality DOA position (taking into account default values)	Critical	Corrective	Jun-17		JC-30 Report, Annex 4	A.001 - Issue 7 - Rev. 1: section 3.2.3.3, page 3-9
MCC-003	Beacon message validation - same beacon ID match	Critical	Corrective	Jun-17		JC-30 Report, Annex 4	A.001 - Issue 7 - Rev. 1: section II/B.1.1.3, page II/B-5
MCC-004	Clarification of the distribution of DOA position conflict alerts (based on the time of latest beacon burst)	Critical	Corrective	Jun-17		JC-30 Report, Annex 4	A.001 - Issue 7 - Rev. 1: section 3.2.3.2, page 3-8, section II/B.5.4.1, page II/B-19
MCC-005	Changes to the message field character text description for MF #64 to 84 and MF #87 to 89	Critical	Corrective	Jun-17		JC-30 Report, Annex 5	A.002 - Issue 6 - Rev. 1: Annex B, MF #24, page B-1
MCC-006	Suspect MEOSAR alerts	Critical	Enhancement	Jun-17		JC-30 Report, Annex 5	A.002 - Issue 6 - Rev. 1: Annex B, MF #61, page B-28
MCC-007	Return link message information	Critical	Adaptive	Jun-17		JC-30 Report, Annex 5	A.002 - Issue 6 - Rev. 1: Annex B, MF #62, pages B-28 and B-29
MCC-008	Received transponded bursts	Critical	Corrective	Jun-17		JC-30 Report, Annex 5	A.002 - Issue 6 - Rev. 1: Annex B, MF #80, pages B-11 and B-31
MCC-009	End of data line after expected horizontal error	Critical	Corrective	Dec-16		JC-30 Report, Annex 5	A.002 - Issue 6 - Rev. 1: Annex C, page C-5
MCC-010	Sample message references to next expected detection time above	Critical	Corrective	Jun-17		JC-30 Report, Annex 5	A.002 - Issue 6 - Rev. 1: Annex C, page C-21
MCC-011	MEOSAR alert last detection time	Critical	Enhancement	Jun-17		JC-30 Report, Annex 5	A.002 - Issue 6 - Rev. 1: Annex B, MF #48, page B-21, MF #61, page B-26, Annex C, pages C-21 and C-24
MCC-012	Processing orbit numbers for LEOSAR satellites that exceed 5 digits	Critical	Adaptive	Jun-17		JC-30 Report, Annex 5	A.002 - Issue 6 - Rev. 1: Annex B, MF #7, pages B-2 and B-13
MCC-013	Processing time for alert data	Critical	Adaptive	Jun-17		JC-30 Report, Annex 8	A.005 - Issue 4 - Rev. 1 (CSC-57): section 5.6, page C-3
MCC-014	Changes in the RLS protocol (per C/S T.001, section A3.3.7 and Figure A.10, no fixed bits starting in bit 107)	Critical	Adaptive	Jun-17		JC-30 Report, sections 5.1.32 to 5.1.37	A.001 - Issue 7 - Rev. 1: Table II/B.4, Annex II/B.10.1; A.002 - Issue 6 - Rev. 1: MF #62, pages B-28 and B-29
MCC-015	Default the expected horizontal error (message field #54d) to UNKNOWN	Critical	Adaptive	Jun-17		CSC-57 OPN Report, Section 5.3.5	A.002 - Issue 6 - Rev. 1: Table B-1, page B-10
MCC-016	MCC Processing of RLS Beacon incident alert data: After position confirmation:MCC Processing of RLS Beacon incident alert data clarification). a) Use bits 37-40 to identify RLS FGB. After position confirmation: b) distribution of unlocated alerts for RLS beacons; c) use TCA if last burst time not known.	Critical	Corrective	Dec-18		JC-31 Report, section 7.1	A.001 - Issue 8 (CSC-59) a) section 3.2.3.2.3; b) section 4.2.10.1, item b
MCC-017	Revised formats for RLS Beacon SIT 185 messages	Critical	Corrective	Dec-18		JC-31 Report, section 7.1	A.002 - Issue 7 (CSC-59) MF #51 page B-24
MCC-018	Data distribution changes and new message formats for ELT(DT) incident alert data	Critical	Enhancement	Dec-18		JC-31 Report, section 7.1 and Annex 34	A.001 - Issue 8 (CSC-59); A.002 - Issue 7 (CSC-59) (too numerous to list)
MCC-019	Data distribution changes and new message formats for SGB incident alert data	Critical	Enhancement	Dec-18		JC-31 Report, section 7.1	A.001 - Issue 8 (CSC-59); A.002 - Issue 7 (CSC-59) (too numerous to list)
MCC-020	Redundant Doppler position check	Routine	Corrective	Dec-19		JC-31 Report, section 7.1	A.001 - Issue 8 (CSC-59): sections 4.2.5.4.1 and 4.2.5.4.3.4
MCC-021	Process alert cancellation messages	Critical	Enhancement	Dec-18		JC-31 Report, section 4.6	A.001 - Issue 8 (CSC-59): section 4.2.11; A.002 - Issue 7 (CSC-59) MF #45 and #61
MCC-022	Process TAC-related information on beacon characteristics	Critical	Enhancement	Dec-19		JC-31 Report, section 7.1 and Annex 34	A.001 - Issue 8 (CSC-59): section 3.2.13; A.002 - Issue 7 (CSC-59): MF #94, #95, #96, #97
MCC-024	Designate and use MEOSAR reference beacons for QMS	Critical	Enhancement	Dec-19	Related MEOLUT updates need to be in place first	JC-31 Report, section 8.1	A.003 - Issue 3 (CSC-59): section 2.3.2.1
MCC-025	MEOSAR QMS	Routine	Enhancement	Jun-19	Needed for MEOSAR IOC	JC-31 Report, Annex 6, Annex 32 and Annex 34	A.002 - Issue 7 (CSC-59): Table B-1 (MF #80); A.003 - Issue 3 (CSC-59): section 2.4.2;
MCC-026	Reset beacon activation status based on latest detect time received	Routine	Enhancement	Dec-19		JC-31 Report section 7.1.25	A.001 - Issue 8 (CSC-59): section 3.2.3.1

Reference	Brief Description	Criticality (Critical, Routine, Optional)	Type (Corrective, Adaptive, Enhancement)	Implementation Due Date	Comments	Joint Committee / Council References	C/S Document section(s) / Pages(s)
MCC-027	Determine redundancy for alert with DOA position based on previously sent DOA position alerts	Routine	Enhancement	Dec-19		JC-31 Report, section 7.1.4	A.001 - Issue 8 (CSC-59): section 3.2.3.2.1 page 3-9, para. 3, item b
MCC-028	Limit the distribution of DOA position conflict alerts prior to position confirmation	Routine	Enhancement	Dec-19		JC-31 Report, section 7.1.4	A.001 - Issue 8 (CSC-59): section 3.2.3.2.1 page 3-9, para. 4, item c
MCC-029	Distribution of alerts during MCC backup (clarification)	Routine	Enhancement	Dec-19		JC-31 Report, section 7.1.4	A.001 - Issue 8 (CSC-59): section 3.7.1
MCC-030	Validation of SIT message content	Routine	Enhancement	Dec-18		JC-31 Report, section 7.1.4	A.001 - Issue 8 (CSC-59): section 4.2.1.1.2
MCC-031	Validation of RLS FGB TAC number (bits 43 – 52)	Routine	Enhancement	Dec-18		JC-31 Report, section 7.1.4	A.001 - Issue 8 (CSC-59): Table 4-6
MCC-032	Distribution of alerts with an invalid beacon message to Distress authorities (clarification)	Routine	Corrective	Dec-18		JC-31 Report Annex 4	A.001 - Issue 8 (CSC-59): section 4.2.1.1.4.b
MCC-033	DOA position footprint validation based on first and last detect time	Routine	Enhancement	Dec-19		JC-31 Report, section 7.1.4	A.001 - Issue 8 (CSC-59): 4.2.1.2; A.002 - Issue 7 (CSC-59) Appendix B.2 to Annex B
MCC-034	Filter redundant data to the sending MCC	Routine	Corrective	Dec-19		JC-31 Report, section 7.1.27	A.001 - Issue 8 (CSC-59): section 4.2.5.1
MCC-035	Set new status word (Sw) for non ELT(DT) alerts (clarification)	Routine	Corrective	Dec-19		JC-31 Report, section 7.1.25	A.001 - Issue 8 (CSC-59): Figure 4-10
MCC-036	Revised procedures for the co-ordination of beacon tests	Routine	Enhancement	Dec-18	MCC software change is not required	JC-31 Report, section 7.1.4	A.001 - Issue 8 (CSC-59): section 4.3
MCC-037	Access to beacon registry based on Vessel ID and on 15 Hex FGB/SGB ID, 23 Hex SGB ID	Critical	Enhancement	Dec-18		JC-31 Report, section 7.1	A.005 - Issue 5 (CSC-59): section 3.9
MCC-039	An MCC shall filter all DOA position data generated by a MEOLUT for ELT(DT)s, if the MEOLUT is not commissioned to provide DOA locations for fast-moving beacons	Critical	Enhancement	Jun-19		JC-32 Report, Annex 4	A.001: section 3.2.1
MCC-040	The "same beacon identification" is the 15-hexadecimal beacon ID, per the section titled "Beacon Identification"	Critical	Enhancement	Jun-19		JC-32 Report, Annex 4	A.001: sections 3.2.3, 3.2.7; A.002 - Annex B Appendix B.1 MF #57; A.005: sections 3.9, 3.2.10
MCC-041	MCCs shall distribute alert data that is otherwise redundant for all SGBs (revised wording)	Critical	Enhancement	Jun-19		JC-32 Report, Annex 4	A.001: section 3.2.3.2
MCC-042	LEOLUT alert data for the same beacon ID after position confirmation is deemed to be redundant if ... a Doppler position in the new alert matches a position in an alert previously sent for the same beacon event	Critical	Enhancement	Jun-19		JC-32 Report, Annex 4	A.001: section 3.2.3.2.1
MCC-043	Filtering of Redundant Data for ELT(DT)s	Critical	Enhancement	Jun-19		JC-32 Report, Annex 4	A.001: section 3.2.3.2.2
MCC-044	Continued Transmission after Position Confirmation for confirmed or conflict alerts	Routine	Enhancement	Jan-21		JC-32 Report, Annex 4	A.001: section 3.2.5
MCC-045	MCCs shall provide information to relevant destinations (i.e., Distress authorities and FGB-only-capable MCCs) based on the TAC number encoded in the beacon message (e.g., for SGB homing characteristics) in SIT 985 messages, in accordance with document C/S A.002 and indicate that TAC related information is provided in a separate message.	Critical	Enhancement	Jun-19		JC-32 Report, Annex 4	A.001: section 3.2.12; A.002: Table C.4, Annex B Appendix B.1 MF #61a
MCC-046	Until all MCCs are SGB-capable, SGB-capable MCCs shall transmit a SIT 915 message (that contains data in SIT 985 format) with MF #5 set to the identification code of the final destination MCC, if the immediate destination MCC is FGB-only-capable, as specified in section 3.2.12.	Critical	Enhancement	Jun-19		JC-32 Report, Annexes 4 and 7	A.001: section 3.7.6; A.005: section 4.12
MCC-047	Operational Distribution of Alert Data for SGBs and FGB ELT(DT)s until the Cospas-Sarsat Council declares that they may be used operationally	Critical	Enhancement	Jun-19		JC-32 Report, Annex 4	A.001: section 3.7.10; A.005: sections 4.11 and 4.12
MCC-048	If the SGB alert is a self-test transmission (per MF #90), then the MCC shall suppress the associated alert.	Critical	Enhancement	Jun-19		JC-32 Report, Annex 4	A.001: section 4.2.1.1.3; A.002 section Annex B Appendix B.1 MF #90
MCC-049	Protocol validation for SGB Vessel ID Type and Beacon Type	Critical	Enhancement	Jun-19		JC-32 Report, Annex 4	A.001: section 4.2.1.1.3 and Table 4-6
MCC-050 (Change No Longer Required)	If an SGB message fails validation only provide information in alert messages to Distress authorities based on the "same Beacon ID" per item (a) above.	Critical	Enhancement	Jun-19 (OBE)	OBE due to changes at EWG-1/2021. Replaced by MCC-149	JC-32 Report, Annex 4	A.001: section 4.2.1.1.5
MCC-051	Uncorroborated MEOSAR Alert data distribution and format	Critical	Enhancement	Jun-19		JC-32 Report, Annex 4	A.001: section 4.2.1.4; A.002: Annex B Appendix B.1 MF #61a
MCC-052	For ELT(DT)s, the Action Word is Aw2 if only DOA position ins present, Aw2 if positions in the new alert (i.e., encoded and DOA position) match each other, Aw3 if only encoded position is present, Aw4 if positions in the new alert do not match each other.	Critical	Enhancement	Jun-19		JC-32 Report, Annex 4	A.001: section 4.2.5.2
MCC-053	For uncorroborated MEOSAR alerts, the Status Word is set to "Sw0"	Critical	Enhancement	Jun-19		JC-32 Report, Annex 4	A.001: section 4.2.5.2
MCC-054	The co-ordination of a beacon test shall consist of an advance submission of a text (SIT 605) message that includes the 15 Hex ID (per section titled "Beacon Identification") and indicate if the beacon will transmit in self-test mode.	Critical	Enhancement	Jun-19		JC-32 Report, Annex 4	A.001: section 4.3

Reference	Brief Description	Criticality (Critical, Routine, Optional)	Type (Corrective, Adaptive, Enhancement)	Implementation Due Date	Comments	Joint Committee / Council References	C/S Document section(s) / Pages(s)
MCC-055	Confidence Factor: range and default value	Routine	Corrective	Jan-21		JC-32 Report, Annex 5	A.002: Annex B Table B.1 MF#30
MCC-056	FGB Encoded Location update time	Routine	Corrective	Jan-21		JC-32 Report, Annex 5	A.002: Annex B Table B.1 MF #54e
MCC-057	DOA speed for associated MEOLUTs commissioned for reporting speed	Routine	Enhancement	Jan-21	Due date is tentative, as this only applies once A.002 MCC to MCC formats include speed	JC-32 Report, Annex 5	A.002: Annex B Table B.1 MF #54f
MCC-060	SGB that lacks encoded position capability	Routine	Corrective	Jan-21		JC-32 Report, Annex 5	A.002: Annex B Appendix B.1 MF #60
MCC-061	Invalid beacon message data when beacon ID matches previous valid beacon message	Critical	Enhancement	Jun-19		JC-32 Report, Annex 5	A.002: Annex B Appendix B.1 MF #61a
MCC-062	ELT(DT) located alert	Critical	Enhancement	Jun-19		JC-32 Report, Annex 5	A.002: Annex B Appendix B.1 MF #61a
MCC-066	Report MEOSAR QMS metrics for Location Accuracy, Location Probability and Detection Probability by individual reference beacon	Routine	Enhancement	Mar-23	Due date only applies once automated updating of QMS metric on the C/S website is implemented.	JC-32 Report, Annex 6	A.003: sections 2.4.2, 2.5.5.2, 2.5.5.3 and 2.5.5.4
MCC-067	Include 20 km threshold in MEOSAR location accuracy metrics	Routine	Enhancement	Jun-19		JC-32 Report, Annex 6	A.003: sections 2.4.2.2, 2.5.2.2 and 2.5.5.2
MCC-071	Quality of Location Expected Horizontal Error	Critical	Enhancement	Jun-19		JC-32 Report, Annex 6	A.003: sections 2.4.2.7 and 2.5.5.7
MCC-072	Reporting status changes on the Cospas-Sarsat web site	Routine	Enhancement	Jan-21		JC-32 Report, Annex 6	A.003: section 2.5.5.1
MCC-073	Nodal MCCs updates to location accuracy and location probability status on Cospas-Sarsat web site	Routine	Enhancement	Mar-23		JC-32 Report, Annex 6	A.003: sections 2.5.5.2 and 2.5.5.3
MCC-077	MEOLUT Location Accuracy for opportunity beacons	Routine	Enhancement	Jan-21	Optional	JC-32 Report, Annex 6	A.003: section 3.1.3.1
MCC-078	XML Format for QMS and Space Segment Status Report	Routine	Enhancement	Mar-23		JC-32 Report, Annex 6	A.003: Annex J
MCC-079	SGB Alerts	Critical	Enhancement	Jun-19		JC-32 Report, Annex 7	A.005: section 4.12
MCC-080	Distribution of RLS alerts to non-RLS-capable MCCs	Critical	Enhancement	Jun-19		JC-32 Report, Annexes 7	A.001: section 3.7.7; A.005: section 4.9
MCC-081	Distribution of ELT(DT) alerts to non-ELT(DT)-capable MCCs	Critical	Enhancement	Jun-19		JC-32 Report, Annexes 7	A.001: section 3.7.8; A.005 section 4.11
MCC-082	Refinement to Nodal MCC procedure to handle MCC entry into CNO status and restoration of operational status	Routine	Enhancement	Jan-21		JC-32 Report, Annex 4	A.001: section 3.7.4.1; A.003: section 6.3.4
MCC-083	Validation of FGB Encoded Position	Routine	Corrective	Jan-21		JC-32 Report, Annex 4	A.001: section 4.2.1.1.3 and Table 4-6
MCC-084	Clarify that the minor axis error ellipse for "A" position is used in determining the relative quality of Doppler position conflict alerts	Routine	Corrective	Jan-21		JC-32 Report, Annex 4	A.001: section 4.2.4.2
MCC-085	If an FGB message fails validation, only provide information in alert messages to Distress authorities based on the "same Beacon Id"	Routine	Enhancement	Jan-21		JC-32 Report, Annex 4	A.001: section 4.2.1.1.4
MCC-086	Clarify the setting the DBE flag (based on the associated set of satellites) and the PQF (for position conflict alerts prior to position confirmation) for DOA position alerts	Routine	Corrective	Jan-21		JC-32 Report, Annex 4	A.001: section 4.2.5.4.1
MCC-087	Clarify the distribution of RLS beacon alerts if the RLSP is not known and the distribution of alerts for test coded RLS SGBs	Critical	Corrective	Jun-19		JC-32 Report, Annex 4	A.001: section 4.2.10.1
MCC-088	Modified processing of non-ELT(DT) beacon messages when a new (non-cancellation) message is received after cancellation has been confirmed	Critical	Enhancement	Jun-19		JC-32 Report, Annex 4	A.001: section 4.2.11
MCC-089	Message Type for initial (located and unlocated) alert and DOA position match	Routine	Corrective	Jan-21		JC-32 Report, Annex 5	A.002: Annex B Appendix B.1 MF #45
MCC-090	Indicate test for SGB	Critical	Corrective	Jun-19		JC-32 Report, Annex 5	A.002: Annex B Appendix B.1 MF #51
MCC-091	Content for Satellite Id (MF 83) clarified (used for message field validation)	Critical	Corrective	Jun-19		JC-32 Report, Annex 5	A.002: Annex B Appendix B.1 MF #83
MCC-092	New fields with Count of Current TAC numbers allocated and Beacon Type	Critical	Enhancement	Jun-19		JC-32 Report, Annex 5	A.002: Annex B Appendix B.1 MFs #94 and #97
MCC-093	Process fields with leading blanks in MEOSAR TLEs	Routine	Enhancement	Jan-21		JC-32 Report, Annex 5	A.002: Annex B Appendix B.1 MFs #85 and #86
MCC-094	Notification of Designated Reference Beacons	Critical	Enhancement	Jun-19	Notification procedure to be implemented by nodal MCCs only	JC-32 Report, Annex 6	A.003: section 2.3.2.1
MCC-095	Designated Reference Beacon transmission characteristics (linear polarization, bit pattern of beacon message)	Critical	Enhancement	Jun-19		JC-32 Report, Annex 6	A.003: section 2.3.2.1

Reference	Brief Description	Criticality (Critical, Routine, Optional)	Type (Corrective, Adaptive, Enhancement)	Implementation Due Date	Comments	Joint Committee / Council References	C/S Document section(s) / Pages(s)
MCC-096	Computation of Registration Rate in C/S Annual Report	Critical	Enhancement	Feb-19	Due date reflects the intent to do this for JC-33 reports	JC-32 Report, Annex 6	A.003: Annex A section 1.3
MCC-097	Distribution of Notifications for RLS-Capable FGB Alerts to the RLSP on Behalf of MCCs that are Not FGB-RLS-Capable	Critical	Enhancement	Jun-19		JC-32 Report, Annex 7	A.001: section 3.7.9
MCC-098	Procedure for proactively sending NOCRs.	Critical	Enhancement	Feb-20		CSC-61 SR, Annex 5	A.001: section 4.2.7.1
MCC-099	Clarification of RLS message processing	Routine	Enhancement	Nov-21		JC-33 Report, Annex 4	A.001: sections 4.2.5.3 and 4.2.10.1
MCC-100	Clarification of DBE processing	Routine	Enhancement	Nov-21		JC-33 Report, Annex 4	A.001: sections 3.2.3.2 and 4.2.5.4.1
MCC-101	SGB display of user class of beacon	Critical	Corrective	Nov-20		JC-33 Report, Annex 5	A.002: Appendix B.1 to Annex B, MF #51
MCC-102	Display of ELT(DT) encoded location and time of update (currency)	Critical	Enhancement	Nov-20		JC-33 Report and CSC-62, Annexes 5	A.002: Appendix B.1 to Annex B, MF #54.e
MCC-103	Display of FGB TAC number	Routine	Corrective	Nov-21		JC-33 Report, Annex 5	
MCC-104	Other Encoded Information: Activation method for ELT(DT)	Critical	Adaptive	Nov-20		JC-33 Report, Annex 5	A.002: Appendix B.1 to Annex B, MF #60
MCC-105	For MEOSAR QMS updates including 12 bursts in the 10- minute TRP	Routine	Adaptive	Nov-21	Nodal MCCs only.	JC-33 Report, Annex 6	A.003: section 2.3.2.1 "Designated QMS Reference Beacons"
MCC-106	Reporting of Maintenance Activations	Routine	Enhancement	Nov-21		JC-33 Report, Annex 6	A.003: Annex A
MCC-107	Introduction of RLS LP MMSI - Protocol name "MMSI - Last 6 Digits"	Critical	Enhancement	Nov-20		CSC-62 SR, Annex 5	A.002: Appendix B.1 to Annex B, MF #51
MCC-108	Protocol Validation for RLS LP - TAC# Validation (949<TAC#<960)	Critical	Enhancement	Nov-20		CSC-62 SR, Annex 4	A.001: Table 4-6 "Protocol Validation [...]"
MCC-109	Protocol validation for FGB ELT(DT) LP - bits 25=1, 26=0, 37-40=1001 and 41-42=11	Critical	Enhancement	Nov-20		CSC-62 SR, Annex 4	A.001: Table 4-6 "Protocol Validation [...]"
MCC-110 (Change No Longer Required)	Protocol validation for FGB, SGB Binary Code Decimal - (four-bit group > 9)	Routine	Enhancement	Nov-21 (OBE)	OBE due to changes at JC-34, see MCC-122.	CSC-62 SR, Annex 4	A.001: Table 4-6 "Protocol Validation [...]"
MCC-111	Distribution of ELT(DT) alerts to the LADR	Critical	Adaptive	Jan-22		EWG-2-2020 Annex 4	A.001: sections 3.7.11, 3.12, 4.2.11; A.002: Table C-5
MCC-112	FGB and SGB Message Validation, including ELT(DT)s	Critical	Adaptive	Jan-22	Includes adaptive changes per updates to beacon message formats in T.001 and T.018	EWG-2-2020 Annex 4	A.001: Table 4-6
MCC-113 (Change No Longer Required)	MCC use of the 23 Hex ID per updated definition in T.018 Table 3.10	Routine	Adaptive	Mar-22 (OBE)	Bits 118 to 137 of the Vessel ID are considered to be all '0's in the SGB 23 Hex ID for the 24-bit address coding option. OBE due to changes proposed by EWG-1/2021, per related change in MCC-149.	EWG-2-2020, Annexes 4 and 5	A.001: sections 3.1.4, 3.8.2, 4.3; A.002: Table B.1 (MF #57), Tables B.1, C.1 and C.2 (MF #92)
MCC-114	Update to SIT 927 to account for the use of SGB Programming Adapters	Critical	Adaptive	Jan-22	MF #94 sub-field added to identify a Programming Adapter (P/A). Clarify that details are provided for the beacon model not the P/A.	EWG-2-2020 Annex 5	A.002: Table B.1 (MF #94), Appendix B.1 to Annex B (MFs #94 – #97)
MCC-115 (Clarified at EWG-1/2021)	Provide in the message to the SPOC: for FGB ELT(DT)s the 3-letter aircraft operator designator or refined encoded position, as provided in each beacon message; for SGB ELT(DT)s, provide 3-letter aircraft operator designator.	Critical	Adaptive	Jan-22	Adaptive change per updates to T.001 for FGB ELT(DT) bits 113-114 and other bits in PDF-2 and per updates to T.018 for SGB ELT(DT) bits 94-137	EWG-2-2020 Annex 5	A.002: Appendix B.1 to Annex B (MF #51, MF #54e)
MCC-116	Provide currency (FGB) or time (SGB) of encoded position update in SPOC message for ELT(DT)	Critical	Adaptive	Jan-22	Adaptive change per update to T.001 for FGB ELT(DT) bits 113-114	EWG-2-2020 Annex 5	A.002: Appendix B.1 to Annex B (MF #54e, MF #60)
MCC-117	Provide each vessel/aircraft identifier and Aircraft Operator relevant to User Class in SPOC message	Routine	Adaptive	Mar-22	FGB ELT(DT)s and SGBs may contain multiple identification items relevant to User Class	EWG-2-2020 Annex 5	A.002: Appendix B.1 to Annex B (MF #51)
MCC-118	Provide encoded position uncertainty and altitude in SPOC message for FGB ELT(DT)	Critical	Adaptive	Jan-22		EWG-2-2020 Annex 5	A.002: Appendix B.1 to Annex B (MF #60)
MCC-119	Provide encoded position altitude in feet (as well as metres) in SPOC message for FGB ELT(DT) and SGB	Routine	Adaptive	Mar-22		EWG-2-2020 Annex 5	A.002: Appendix B.1 to Annex B (MF #60)
MCC-120	Clarify required MCC responses for SIT 216 messages	Routine	Corrective	Mar-22		JC-34, Annex 4	A.001: section 3.6.5 "Scheduled Satellite Manoeuvres"
MCC-121	Protocol Validation for RLS LP - Bits 43 to 46 value for non-MMSI protocols	Critical	Corrective	Mar-22		JC-34, Annex 4	A.001: Table 4-6 "Protocol Validation [...]"
MCC-122	Protocol validation for FGB, SGB Binary Code Decimal - (four bit group > 10)	Critical	Corrective	Mar-22	Overtaking MCC-110	JC-34, Annex 4	A.001: Table 4-6 "Protocol Validation [...]"
MCC-123	Distribution of RLS alerts to non-RLS-capable MCCs via SIT 122 to 147	Critical	Corrective	Mar-22	See MCC-080	JC-34, Annex 4	A.001: section 3.7.7 "Distribution of Alerts for RLS FGBs"

Reference	Brief Description	Criticality (Critical, Routine, Optional)	Type (Corrective, Adaptive, Enhancement)	Implementation Due Date	Comments	Joint Committee / Council References	C/S Document section(s) / Pages(s)
MCC-124	Clarification for NOCRs	Routine	Corrective	Mar-23		JC-34, Annex 4	A.001: sections 3.2.3 "Processing Multiple Alerts for the Same Beacon Identification" and 4.2.10.1 "Return Link Service (RLS) Procedures"
MCC-125	Clarification for NOCRs	Routine	Corrective	Mar-23		JC-34, Annex 4	A.001: sections 4.2.1.4 "Uncorroborated MEOSAR Alerts" and 4.2.7.1 "NOCR Procedures"
MCC-126	SIT messages sent with same information for FGBs	Critical	Corrective	Mar-22	See MCC-034	JC-34, Annex 4	A.001: section 4.2.5.1 "Analysis and General Representation of Alert Data Processing"
MCC-127	Corrections for Doppler/DOA position to Encoded match (DEM) and encoded to encoded position match (EEM) conditions.	Critical	Corrective	Mar-22	See MCC-020, MCC-086, MCC-100	JC-34, Annex 4	A.001: section 4.2.5.4.1 "Tests and Flag setting for Special Processing Procedures"
MCC-128	Distribute RLS beacon alerts to SPMCC during FMCC backup	Critical	Corrective	Mar-21	Nodal and CDDR MCCs only	JC-34, Annex 4	A.001: sections 5.3.13.4 "FMCC" and 5.3.29.4 "SPMCC" subsection "Backup procedures and agreements"
MCC-129	Default values for the DOA Altitude (MF #54d) and DOA speed (MF #54f).	Critical	Corrective	Mar-22		JC-34, Annex 5	A.002: Table B.1 and Appendix B.1 - MF #54d
MCC-130	Addition of the Alert Status 'ROTATING FIELD UPDATE ALERT' as a new message type	Critical	Enhancement	Mar-22		JC-34, Annex 5	A.002: Appendix B.1 - MF #45 - Message Type
MCC-131	Addition of the Alert Status 'NOCR' as a possible msg type (optional)	Routine	Enhancement	N/A	Optional	JC-34, Annex 5	A.002: Appendix B.1 - MF #45 - Message Type
MCC-132	Format Correction for TAC and Serial Number in MF #51	Critical	Corrective	Mar-22		JC-34, Annex 5	A.002: Appendix B.1 - MF #51 - User Class of Beacon
MCC-133	Addition of the EHE value for IOC commissioned MEOLUT	Critical	Enhancement	Mar-22		JC-34, Annex 5	A.002: Appendix B.1 - MF #54d - DOA Position, Accuracy and Altitude
MCC-134	Correction of the Homing Signal interpretation value	Critical	Corrective	Mar-22		JC-34, Annex 5	A.002: Appendix B.1 - MF #57 - Homing Signal Interpretation
MCC-135	Correction of the Activation Type	Critical	Corrective	Mar-22		JC-34, Annex 5	A.002: Appendix B.1 - MF #58 - Activation Type
MCC-136	Correction of the Beacon Number if no information is available	Critical	Corrective	Mar-22		JC-34, Annex 5	A.002: Appendix B.1 - MF #59 - Beacon Number
MCC-137	Standard, national location protocol encoded position accuracy uncertainty, encoded position altitude value, elapsed time, battery capacity	Critical	Corrective	Mar-22	See MCC-104	JC-34, Annex 5	A.002: Appendix B.1 - MF #60 - Other Encoded Information
MCC-138	Provide warning for suspect Doppler position data after position confirmation	Critical	Corrective	Mar-22		JC-34, Annex 5	A.002: Appendix B.1 - MF #61a - Other Information (General)
MCC-139	Provide note for ELT(DT) alerts	Critical	Enhancement	Jan-22		JC-34, Annex 5	A.002: Appendix B.1 - MF #62 - Remarks
MCC-140	Default value for number of Networked Antennas above 98	Critical	Corrective	Mar-22	See MEOLUT-022	JC-34, Annex 5	A.002: Appendix B.1 - MF #80 - Networked Antennas
MCC-141	Provision in the LADR of Altitude and Airspeed	Critical	Corrective	Jan-22		JC-34, Annex 5	A.002: Table C6 - LADR Message Field Descriptions
MCC-142	Provision of the information to the LADR by nodal MCCs using web services	Critical	Enhancement	Jan-22	Nodal MCCs only.	JC-34, Annex 7	A.005: section 3.4 - Data Communication Links
MCC-143	Retrieval of alerts for ELT(DT)s and SSAS beacons by beacon type	Critical	Enhancement	Jan-22		JC-34, Annex 7	A.005: section 3.10.1 - Information Archival and Retrieval
MCC-144	Alert distribution after position confirmation	Routine	Enhancement	Mar-23	Details moved to A.001 section 3.2.5	JC-34, Annex 7	A.005: section 4.5.2 - Position Confirmation
MCC-145	Processing of the MCC unavailability period	Routine	Enhancement	Mar-23		JC-34, Annex 7	A.005: section 5.1 - Availability
MCC-146	Suppression of alert data for SARP failure, QMS notification for location accuracy failure	Critical	Enhancement	Mar-22		JC-34, Annex 7	A.005: section 5.10.1 - Additional Timing Requirements
MCC-147	Updates of LEOLUTs with orbital data after satellite manoeuvre and after SARP reset	Critical	Enhancement	Mar-22		JC-34, Annex 7	A.005: sections 5.10.5 and 5.10.6 - Additional Timing Requirements
MCC-148	Addition of MEOSAR orbit vector validation parameters: 30 km (default), 50 km following MEOSAR satellite manoeuvre, and validation parameters configurable per satellite	Routine	Enhancement	Mar-23		JC-34, Annex 6	A.003: Annex C, Table C.1 LEOSAR and MEOSAR System Performance Parameters
MCC-149	Same beacon identification is based on the 23 Hex ID for SGBs	Critical	Enhancement	Jan-22	Replacing MCC-050. (No change for FGB ID matching, but related cross-references	EWG-1/2021, Annex 4	A.001: sections 3.2.3 "Processing Multiple Alerts for the Same Beacon Identification" and 4.2.1.1.5 "406 MHz SGB Message Validation"
MCC-150	15 Hex ID for SGBs	Critical	Enhancement	Sep-22	linked with ELT(DT)	JC-35, Annex 4	A.001: section 3.1.4 "Beacon Identification"
MCC-151	ELT(DT) alert distribution within 30 seconds of the earliest reference time	Critical	Corrective	Sep-22	linked with ELT(DT)	JC-35, Annex 4	A.001: section 3.2.3.2.2 "Filtering of Redundant Data for ELT(DT)s"
MCC-152	FGB ELT(DT) alert distribution of refined encoded position when the reference time differs by at least 3 seconds from the reference time of all previously sent alert	Critical	Corrective	Sep-22	linked with ELT(DT)	JC-35, Annex 4	A.001: section 3.2.3.2.2 "Filtering of Redundant Data for ELT(DT)s"
MCC-153	Distribution of the best ELT(DT) solution when the current time is at least 10 minutes more recent than the reference time of all previously sent alerts	Routine	Enhancement	Mar-24	linked with ELT(DT)	JC-35, Annex 4	A.001: section 3.2.3.2.2 "Filtering of Redundant Data for ELT(DT)s"
MCC-154	Validation of rotating field for SGBs	Routine	Corrective	Mar-24	linked with SGB	JC-35, Annex 4	A.001: section 4.2.1.1.5 "406 MHz SGB Message Validation", Table 4-7 "Rotating Field Validation for SGBs"
MCC-155	Distribution of uncorroborated SGB alerts to an MCC that is not SGB-capable.	Routine	Corrective	Mar-24	Linked with SGB	JC-35, Annex 4	A.001: section 4.2.1.4 "Uncorroborated MEOSAR Alerts"
MCC-156	Distribution of uncorroborated FGB and SGB alerts based on the respective MEOLUT capability for FGB and SGB processing anomalies	Routine	Enhancement	Mar-24	Linked with SGB	JC-35, Annex 4	A.001: section 4.2.1.4 "Uncorroborated MEOSAR Alerts"
MCC-157	Distribution of unconfirmed FGB ELT(DT) and SGB cancellation messages based on the destination MCC capability to process FGB ELT(DT)s and SGBs, respectively.	Routine	Enhancement	Mar-24	Linked with SGB	JC-35, Annex 4	A.001: section 4.2.11 "Cancellation Message Procedures"
MCC-158	Coordination of beacon tests with SIT 605 messages using standard geographic	Routine	Enhancement	Mar-24		JC-35, Annex 4	A.001: section 4.3 "Procedures for the Co-Ordination of Beacon Tests"
MCC-159	Clarify that FGB ELT(DT) Location Protocol Supplementary bits 115-117 are validated only if the cancellation message sequence is not present.	Critical	Corrective	Sep-22	linked with ELT(DT)	JC-35, Annex 4	A.001: section 4.2.1.1.3. "406 MHz Beacon Message Validation". 4-6 "Protocol Validation for 406 MHz Alert Messages"
MCC-160	Revised SIT 185 message (including a reorganized message format, and new terms "GNSS" position, "MCC Reference" position, etc.).	Critical	Enhancement	Mar-23	MCCs to coordinate implementation with associated RCCs/SPOCs (especially RCCs/SPOCs that use software to parse the SIT	JC-35, Annex 5	A.002: Annex B "Message Field Description" and Annex C "Message Content by SIT"
MCC-161	SIT 185 message to include seconds of the minute in the detect times for FGB ELT(DT)s	Critical	Corrective	Sep-22		JC-35, Annex 5	A.002: Table B-1: "Message Field Description", MF #48a and MF #48b
MCC-162	Update C/S website with the status for each ratio provided for MEOLUT location accuracy, MEOLUT location probability and MEOLUT detection probability	Critical	Corrective	Mar-23	Nodal MCC only	JC-35, Annex 6	A.003: section 2.5.5 "MEOLUT Assessment, Status Reporting and Follow-up Actions"
MCC-163	Use of 5 km and 20 km distance thresholds for the MEOLUT location accuracy metric	Critical	Corrective	Mar-23	Nodal MCC only	JC-35, Annex 6	A.003: section 2.4.2 "MEOSAR Data Analysis"
MCC-164	Modified XML format for QARS	Critical	Corrective	Mar-23	Nodal MCC only	JC-35, Annex 6	A.003: Annex J "QMS Automated Reporting System"
MCC-165	Status messages for MEOLUT Location Accuracy and MEOLUT Location EHE Quality	Critical	Corrective	Mar-23	Nodal MCC only	JC-35, Annex 6	A.003: Annex D "Anomaly Notification Messages" section 4 "MEOLUT ACCURACY STATUS MESSAGES" (3 messages) and section 9 "MEOLUT Location EHE Quality Status Messages."
MCC-166	Manual upload XML file to the QARS (optional)	Critical	Enhancement	Mar-23	Nodal MCC only	JC-35, Annex 6	A.003: Annex J "QMS Automated Reporting System"

Reference	Brief Description	Criticality (Critical, Routine, Optional)	Type (Corrective, Adaptive, Enhancement)	Implementation Due Date	Comments	Joint Committee / Council References	C/S Document section(s) / Pages(s)
MCC-167	Not distributing SGBs alerts (including NOCRs) for test coded RLS beacons to RCCs or SPOCs, or MCCs that are not SGB capable.	Routine	Corrective	Nov-24	SGB related	JC-36, Annex 4	A.001: section 3.7.6 "Distribution of Second-Generation-Beacon (SGB) Alerts to MCCs that Are Only First-Generation-Beacon (FGB)-Capable"
MCC-168	Not distributing FGBs alerts (including NOCRs) for test coded RLS beacons to RCCs or SPOCs, or MCCs that are not FGB capable.	Routine	Corrective	Nov-24	FGB related	JC-36, Annex 4	A.001: section 3.7.7 "Distribution of Alerts for RLS-Capable FGBs to MCCs that Are Not FGB-RLS-Capable"
MCC-169	Distribution of BDS Spacecraft & Ephemeris Data.	Critical	Enhancement	Nov-23	Includes BDS Range of C/S Satellite IDs (6xx). MF #6 and MF # 83, per A.002	JC-36, Annex 4	A.001: section 4.1.6 "Inter-MCC Routing of System Information" Table 4-2 "System Information Distribution", A002: Table B-1: "Message Field Description", MF #6 and MF #83
MCC-170	Validation of SGB messages when MF #91 does not contain a value within the range of 0 to 6.	Critical	Corrective	Nov-23	SGB related	JC-36, Annex 4	A.001: section 4.2.1.1.5 "406 MHz SGB Message Validation"
MCC-171	Corroborate MEOSAR alert, based on receipt by a different MEOLUT that does not receive antenna data from any other MEOLUT.	Critical	Corrective	Nov-23		JC-36, Annex 4	A.001: section 4.2.1.4 "Uncorroborated MEOSAR Alerts"
MCC-172	Reset the beacon status word to zero when a non-cancellation message is detected after cancellation confirmation.	Critical	Corrective	Dec-22	Clarification. Immediate change. Related to ELT(DT) and SGB MCC commissioning.	JC-36, Annex 4	A.001: section 4.2.11 "Cancellation Message Procedures"
MCC-173	Coordination of an operationally-coded ELT(DT) test with the LADR host.	Critical	Adaptive	Jan-23	Pending coordination with	JC-36, Annex 4	A.001: section 4.3 "Procedures for the Co-Ordination of Beacon Tests"
MCC-174	Message title "UNLOCATED UPDATE ALERT" when a SIT 185 message is sent for a new detection without position information.	Routine	Adaptive	Nov-24		JC-36, Annex 5	A.002: Appendix B.1 to Annex B "Message Field Description", MF #45
MCC-175	Default Detection Frequency value for an SGB solution without a DOA position.	Routine	Adaptive	Nov-24		JC-36, Annex 5	A.002: Appendix B.1 to Annex B "Message Field Description", MF #49
MCC-176	Provision of the 3LD as "ZGA" in the SIT 185 message.	Critical	Adaptive	Nov-23	ELT(DT) related. See reference to "ZGA" in section 3.12 in A.001	JC-36, Annex 5	A.002: Appendix B.1 to Annex B "Message Field Description", MF #51
MCC-177	Provision of additional SGB Vessel ID information in the SIT 185 message.	Routine	Adaptive	Nov-24	SGB related	JC-36, Annex 5	A.002: Appendix B.1 to Annex B "Message Field Description", MF #51
MCC-178	Allow 'Automatic by Beacon' as the Activation Type for EPIRB alerts.	Routine	Enhancement	Nov-24		JC-36, Annex 5	A.002: Appendix B.1 to Annex B "Message Field Description", MF #58
MCC-179	Provide the GNSS position uncertainty for an SGB as 10 metres.	Routine	Corrective	Nov-24		JC-36, Annex 5	A.002: Appendix B.1 to Annex B "Message Field Description", MF #60
MCC-180	The MEOLUT capability to provide the EHE reliably shall be configured in the MCC separately for FGBs and SGBs.	Critical	Adaptive	Nov-23	Related to waiver for MEOLUT commissioning of the SGB ELT(DT) EHE	JC-36, Annex 5	A.002: Appendix B.1 to Annex B "Message Field Description", MF #54d
MCC-181	Provide only one set of QMS statistics for "per-beacon" and the "all beacons collectively" when the MEOLUT is associated to only one QMS reference beacon.	Routine	Corrective	Nov-24	XML format for QMS MEOSAR	JC-36, Annex 6	A.003: section J.2 "XML Format for QMS and Space Segment Status Report"
MCC-182	Increase upper bound of Country Codes to 987.	Critical	Adaptive	Nov-23	Related to FGB bits 27-36 and	CSC-67/OPN,	A.001: Table 4-6 "Protocol Validation for 406 MHz Alert Messages"
MCC-183	Distribution of alert data if rotating field type (bits 155-158) is not 15 (i.e., cancellation message)	Routine	Corrective	Oct-25		JC-37, Annex 4	A.001: section 3.2.3.2 "Filtering of Redundant Data"
MCC-184	Matching of encoded position against encoded position information previously sent by the MCC	Critical	Corrective	Oct-24		JC-37, Annex 4	A.001: section 3.2.3.2.1 "Filtering of Redundant Data for Beacons except ELT(DT)s"
MCC-185	New ELT(DT) alerts sent if containing a different activation type	Critical	Enhancement	Oct-24		JC-37, Annex 4	A.001: section 3.2.3.2.2 "Filtering of Redundant Data for Beacons for ELT(DT)s"
MCC-186 (Change No	Provision of alert data to the LADR by the destination nodal MCC if received from all different sources to the destination MCC	Critical	Enhancement	Oct-24	OBE due to changes at EWG-1C/2024/S1. Replaced by MCC-188	JC-37, Annex 4	A.001: section 3.12 "Location of an Aircraft in Distress Repository (LADR) for ELT(DT) Alert Data"
MCC-187	Provision of alert data to the LADR by the destination nodal MCC if 3LD and Aircraft Identifier are available	Critical	Enhancement	Oct-24		JC-37, Annex 4	A.001: section 3.12 "Location of an Aircraft in Distress Repository (LADR) for ELT(DT) Alert Data"
MCC-188	Provision of alert data to the LADR with the default 3LD "ZGA" after 3 minutes	Critical	Enhancement	Oct-24		JC-37, Annex 4	A.001: section 3.12 "Location of an Aircraft in Distress Repository (LADR) for ELT(DT) Alert Data"
MCC-189	Determination of Country Code for Beacons with Country Codes that appear to be <200 or >780	Critical	Adaptive	Oct-24		JC-37, Annex 4	A.001: section 4.2.1.1.3 "406 MHz Beacon Message Validation"
MCC-190	Matching with the same Beacon ID	Routine	Adaptive	Oct-25		JC-37, Annex 4	A.001: section 4.2.1.1.4 "406 MHz FGB Message Validation"
MCC-191	Not filtering data when rotating field criteria meet validation criteria per Table 4-7	Critical	Corrective	Oct-24		JC-37, Annex 4	A.001: section 4.2.1.1.5 "406 MHz SGB Message Validation"
MCC-192	For DOA to DOA matches, use at least five (5) position conflict alerts	Routine	Corrective	Oct-25		JC-37, Annex 4	A.001: section 4.2.5.4.1 "Tests and Flag Setting for Special Processing Procedures"
MCC-193	Association of RLS/BDS as one of the RLSPs	Routine	Adaptive	Oct-25		JC-37, Annex 4	A.001: section 4.2.10 "Return Link Service (RLS) Procedures"
MCC-194	Formatting of SIT185 messages (character texts)	Routine	Adaptive	Oct-25		JC-37, Annex 5	A.002: Table B-1: Message Field Description: MFs #45, #48a, #49, #50b, #52,
MCC-195	Default value = 99 for Networked Antenna Channels	Routine	Corrective	Oct-25		JC-37, Annex 5	A.002: Table B-1: Message Field Description: MF #80 and MF #81

Reference	Brief Description	Criticality (Critical, Routine, Optional)	Type (Corrective, Adaptive, Enhancement)	Implementation Due Date	Comments	Joint Committee / Council References	C/S Document section(s) / Pages(s)
MCC-196	Pseudo Country Code for distributing NOCR for coding per ITU R-585	Critical	Adaptive	Oct-24		JC-37, Annex 5	A.002: Appendix B-1: Message Field Description: MF #50b, MF #51
MCC-197	Information on Time Since GNSS Location Generated	Routine	Corrective	Oct-25		JC-37, Annex 5	A.002: Appendix B-1: Message Field Description: MF #54e and MF #60
MCC-198	Exclusion of network antennas if defaulted or equal or above 98 for QMS	Routine	Corrective	Oct-25		JC-37, Annex 6	A.003: section 2.4.2.5 "MEOLUT Local Antenna Channel Availability (for Networked MEOLUTs)"
MCC-199	Distribution of ELT(DT) Data to the LADR by LDPs	Critical	Adaptive	Jan-25	Nodal MCC only. Logic based on country codes (MIDs). Replacing MCC-186	EWG-1C/2024/S1, Annex 4	A.001: sections 3.7.11 "Distribution of ELT(DT) Alerts to the Location of an Aircraft in Distress Repository (LADR) on Behalf of Nodal MCCs that Are Not LADR-Capable" and 3.12 "Location of an Aircraft in Distress Repository (LADR) for ELT(DT) Alert Data"
MCC-200	Message contents used for sending ELT(DT) Data to the LADR by LDPs	Critical	Adaptive	Jan-25	Nodal MCC only.	EWG-1C/2024/S1, Annex 5	A.002: Table C-5 "Key LADR Message Field Descriptions"
MCC-201	Confirmation processing of ELT(DT) alerts when activated by the G-switch	Critical	Adaptive	Oct-25		JC-38 Annex 4 (A.001)	A.001: section 2.2 "Alert Data Distribution Principles" A.001: section 3.2.1 "Doppler, DOA and Encoded Positions" A.001: section 3.2.3.2.3 "Distribution of Alerts with Better Quality DOA Position" A.001: section 4.2.2 "Position Matching" A.001: section 4.2.5.1 "Analysis and General Representation of Alert Data Processing" A.001: section 4.2.5.2 "Definition of Input, Status and Action Words"
MCC-202	Provision of Doppler positions in addition to the DOA positions for ELT(DT) alerts when activated by the G-switch	Critical	Adaptive	Oct-25	Only for MCCs associated with LEOLUT(s) commissioned for ELT(DT)s	JC-38 Annex 4 (A.001)	A.001: section 3.2.3.2.2 "Filtering of Redundant Data for ELT(DT)s" A.001: section 4.2.4.1 "Procedure to Determine Better Quality LEOSAR Alert Data for SBE position conflict"
MCC-203	Provision of a new EHE when it was previously unavailable	Routine	Corrective	Oct-26		JC-38 Annex 4 (A.001)	A.001: section 3.2.3.2.3 "Distribution of Alerts with Better Quality DOA Position"
MCC-204	Contingency procedure for MCC not TWC-capable	Critical	Enhancement	Oct-25		JC-38 Annex 4 (A.001)	A.001: section 3.7.12 "Distribution of alerts for TWC-capable beacon to MCCs that are not TWC-capable"
MCC-205	Rotating Field Validation for TWC beacons	Critical	Enhancement	Oct-25		JC-38 Annex 4 (A.001)	A.001: Table 4-7 "Rotating Field Validation for SGB"
MCC-206	Determination of a new Reference Position after multiple conflicts	Critical	Corrective	Oct-25		JC-38 Annex 4 (A.001)	A.001: section 4.2.5.4.3.4 "Special Filtering Matrix After Position Confirmation"
MCC-207	Distribution of TWC beacon alerts	Critical	Enhancement	Oct-25	Section 3.12 is only clarification for section 4.2.11	JC-38 Annex 4 (A.001)	A.001: section 3.12 "Return Link Service - Two-Way Communication (TWC)" A.001: section 4.2.11 "TWC Procedures"
MCC-208	Provision of TWC Initial Q&A in MF #60 (Other Encoded Information)	Critical	Enhancement	Oct-25		JC-38 Annex 5 (A.002)	A.002: Appendix B.1 to Annex B / MF #60 "Other Encoded Information"
MCC-209	Alert data processing capacity of a minimum to 500 solutions for a MEOLUT	Routine	Adaptive	Oct-26		JC-38 Annex 7 (A.005)	A.005: section 5.3 "Alert Data Processing Capacity"
MCC-210	Consideration of the SGB ELT(DT) Alert Site in Post-Crash Activation status when the rotating field is valid	Routine	Adaptive	Oct-27		JC-39 Annex 4 (A.001)	A.001: section 2.2 "Alert Data Distribution Principles"
MCC-211	New definition of the Reference Time for filtering redundant ELT(DT) data (10-min window)	Routine	Corrective	Oct-27		JC-39 Annex 4 (A.001)	A.001: section 3.2.3.2.2 "Filtering of Redundant Data for ELT(DT)s"
MCC-212	Distribution of coarse position intended to the LADR if no refined position is available	Critical	Corrective	Oct-26		JC-39 Annex 4 (A.001)	A.001: section 3.13.2 "LADR Position Type Priority"
MCC-213	Distribution of ELT(DT) data from non-nodal MCCs to nodal MCCs only if 24-bit address is available	Routine	Corrective	Oct-27		JC-39 Annex 4 (A.001)	A.001: section 3.13.3.1 "LADR Responsibilities for Non-Nodal MCCs"
MCC-214	Distribution of ELT(DT) data from LDPs to the LADR only if 24-bit address is available	Routine	Corrective	Oct-27		JC-39 Annex 4 (A.001)	A.001: section 3.13.3.2 "LADR Responsibilities for Nodal MCCs"
MCC-215	Distribution of ELT(DT) Uncorroborated Alerts only if refined position is available	Routine	Adaptive	Oct-27		JC-39 Annex 4 (A.001)	A.001: section 4.2.1.4 "Uncorroborated MEOSAR Alerts"
MCC-216	Option to filter Uncorroborated Alerts by MCCs based on SPOC agreements	Routine	Adaptive	Oct-27	Optional capability for MCCs	JC-39 Annex 4 (A.001)	A.001: section 4.2.1.4 "Uncorroborated MEOSAR Alerts"
MCC-217	New or updated information provided in a Rotating Data Field for TWC, SRF (c) and (f)	Critical	Enhancement	Oct-26		JC-39 Annex 4 (A.001)	A.001: section 4.2.5.4.1 "Tests and Flag Setting for Special Processing Procedures"
MCC-218	Redundant Doppler alert distribution depending on the Doppler quality, SRF (e)	Routine	Corrective	Oct-27		JC-39 Annex 4 (A.001)	A.001: section 4.2.5.4.1 "Tests and Flag Setting for Special Processing Procedures"
MCC-219	MCC processing of the TWC Initial Questions/Answers	Critical	Enhancement	Oct-26		JC-39 Annex 4 (A.001)	A.001: section 4.2.11.1 Two-Way Communication (TWC) - Procedures
MCC-220	Sending cancellation messages to RLSP and TWC-SP	Critical	Enhancement	Oct-26		JC-39 Annex 4 (A.001)	A.001: section 4.2.12 "Cancellation Message Procedures"
MCC-221	Not distributing unconfirmed cancellation messages	Critical	Corrective	Oct-26		JC-39 Annex 4 (A.001)	A.001: section 4.2.12 "Cancellation Message Procedures"
MCC-222	Restructuration of the SIT 141 message for MEOSAR interference (MFs #13, #14ab, #78, #88)	Routine	Enhancement	Oct-27		JC-39 Annex 5 (A.002)	A.002: Table B-1: Message Field Description and Appendix B.1
MCC-223	Creation of the type of alert for the TWC Message to RCCs/SPOCs MF #45 "Message Type"	Critical	Enhancement	Oct-26		JC-39 Annex 5 (A.002)	A.002: Table B-1: Message Field Description and Appendix B.1

Reference	Brief Description	Criticality (Critical, Routine, Optional)	Type (Corrective, Adaptive, Enhancement)	Implementation Due Date	Comments	Joint Committee / Council References	C/S Document section(s) / Pages(s)
MCC-224	Rebuilt of the AIS Identifier for transmission to RCCs/SPOCs, MF #51 "Type of Beacon" - "Vessel ID" in SIT 185, and MF #97 "Beacon Data Field" in SIT 927	Routine	Enhancement	Oct-27		JC-39 Annex 5 (A.002)	A.002: Table B-1: Message Field Description and Appendix B.1
MCC-225	Insertion in SIT185 of information that TWC Dataset is Unknown when dataset is not recognized, MF #60 "Other information"	Critical	Enhancement	Oct-26	linked to MCC-218	JC-39 Annex 5 (A.002)	A.002: Table B-1: Message Field Description and Appendix B.1
MCC-226	Change MFs #85 and #86 "Two-Line Element (TLE) Set Format - Line 1" and "...Line 2" using Alpha-5 numbering scheme	Critical	Corrective	Oct-26		JC-39 Annex 5 (A.002)	A.002: Table B-1: Message Field Description and Appendix B.1
MCC-227	Implementation of the MEOSAR QMS	Routine	Enhancement	Oct-27	Nodal MCCs	JC-39 Annex 6 (A.003)	A.003: Section 2 "Methodology and Procedures for Continuous Monitoring and Objective Assessment of Cospas-Sarsat System Status"
MCC-228	Capability to filter Doppler or DOA locations, based on a specified source of data (LUT), per beacon generation (FGB or SGB)	Routine	Enhancement	Oct-27	Linked to MCC-226	JC-39 Annex 7 (A.005)	A.005: Section 4.3 "Process Data Selectively"
MCC-229	Validation of Rotating Field #4 reduced from two spare bits to one	Critical	Enhancement	Oct-26		CSC-73/OPN Red Book (A.001)	A.001: Table 4-7 Rotating Validation SGB

MEOLUTs										2025-06-GSE changes complete list approved at CSC-73.xlsx	
										Page 9	
Reference	(1)	Brief Description	Criticality (Critical, Routine, Optional)	Type (Corrective, Adaptive, Enhancement)	Implementation Due Date	Comments	Joint Committee References	Red Book Reference (Council Session)	C/S Document Section(s) / Pages(s)		
MEOLUT-001	15	Changes in the RLS protocol (per C/S T.001, section A3.3.7 and Figure A.10, no fixed bits starting in bit 107)	Critical	Adaptive	Jun-17		JC-30 Report, sections 5.1.32 to 5.1.37	C/S T.001 - Issue 4 (CSC-57)	T.001 - Issue 4 (CSC-57): section A3.3.7 and Figure A.10		
MEOLUT-002	16	Handle new ELT(DT) Location Protocol	Routine	Enhancement	Dec-18		JC-30 Report, sections 5.1.32 to 5.1.37	C/S T.001 - Issue 4 (CSC-57)	T.001 - Issue 4 (CSC-57): sections 2.2.1, 3.3, 4.5.5.6 and A3.3.8, and Figure A.11		
MEOLUT-003	18	MEOLUT-MCC standard interface format	Routine	Enhancement	Dec-18	should be implemented in MEOLUTs for which commissioning reports would be reviewed at JC-32, but would not be required until April 2020 for: - already-commissioned MEOLUTs, - MEOLUTs that would be formally commissioned as of CSC-59 (February 2018), - MEOLUTs for which the Ground Segment Provider notified the Secretariat by March 2018 that it planned to commission its MEOLUT prior to April 2020 without	JC-31 Report, section 4.6.24	C/S T.019 - Issue 2 Rev. 1 (CSC-59)	T.019 - Issue 2 Rev. 1 (CSC-59): section 3.2		
MEOLUT-004	19	Processing of QMS beacons in self-test mode <i>[[for FGBs]</i>	Routine	Enhancement	Jun-19	needed for MEOSAR IOC	JC-31 Report, section 4.4	C/S T.019 - Issue 2 Rev. 1 (CSC-59)	C/S T.019 - Issue 2 Rev. 1 (CSC-59) section 4.2.2		
MEOLUT-005	20	C/S T.001 Message Validation	Routine	Adaptive	Dec-18		JC-31 Report, section 4.4	C/S T.019 - Issue 2 Rev. 1 (CSC-59)	C/S T.019 - Issue 2 Rev. 1 (CSC-59) section 4.2.4.1		
MEOLUT-006	21	Multiple Invalid C/S T.001 Beacon Message Processing	Routine	Adaptive	Dec-18		JC-31 Report, section 4.4	C/S T.019 - Issue 2 Rev. 1 (CSC-59)	C/S T.019 - Issue 2 Rev. 1 (CSC-59) section 4.2.5		
MEOLUT-007	22	Transmitting Data to the MCC	Routine	Adaptive	Dec-18		JC-31 Report, section 4.4	C/S T.019 - Issue 2 Rev. 1 (CSC-59)	T.019 - Issue 2 Rev. 1 (CSC-59): section 4.2.10		
MEOLUT-008	23	Slow-moving beacon location accuracy	Critical	Enhancement	Jun-19	needed for MEOSAR IOC	JC-31 Report, section 4.4	C/S T.019 - Issue 2 Rev. 1 (CSC-59)	T.019 - Issue 2 Rev. 1 (CSC-59): section 5.6		
MEOLUT-009	24	Detection, location and processing of C/S T.018 beacons	Critical	Enhancement	Dec-18	MEOSAR IOC declaration is not contingent upon this	JC-31 Report, section 4.4	C/S T.019 - Issue 2 Rev. 1 (CSC-59)	T.019 - Issue 2 Rev. 1 (CSC-59): (too numerous to list)		
MEOLUT-010	32	MEOLUTs to provide data for ELT(DT) incident alert data	Critical	Enhancement	Dec-18		JC-31 Report, section 7.2.16	C/S T.019 - Issue 2 Rev. 1 (CSC-59)	T.019 - Issue 2 Rev. 1 (CSC-59): section 3.2		
MEOLUT-011	37	MEOLUTs to provide data for SGB incident alert data	Critical	Enhancement	Dec-18	MEOSAR IOC declaration is not contingent upon this	JC-31 Report, section 7.2.16	C/S T.019 - Issue 2 Rev. 1 (CSC-59)	T.019 - Issue 2 Rev. 1 (CSC-59): sections 3.2 and 4.2.1		
MEOLUT-012	New	Filter data from satellites experiencing an abnormal status	Routine	Adaptive	Dec-18		JC-31 Report, Annex 25	C/S T.019 - Issue 2 Rev. 1 (CSC-59)	T.019 - Issue 2 Rev. 1 (CSC-59): section 4.2.9		
MEOLUT-013	New	Multiple Invalid Beacon Message Processing	Critical	Enhancement	Jun-19		JC-32 Report, Annex 18		T.019 - Issue 2 Rev. 3 (CSC-61): section 4.2.5		
MEOLUT-014	New	C/S T.018 Message Association	Critical	Enhancement	Jun-19		JC-32 Report, Annex 18		T.019 - Issue 2 Rev. 3 (CSC-61): section 4.2.6.2		
MEOLUT-015	New	Multiple Valid C/S T.001 Message Processing	Critical	Enhancement	Jun-19		JC-32 Report, Annex 18		T.019 - Issue 2 Rev. 3 (CSC-61): section 4.2.7		
MEOLUT-016	New	Transmitting Data to the MCC	Critical	Enhancement	Jun-19		JC-32 Report, Annex 18		T.019 - Issue 2 Rev. 3 (CSC-61): section 4.2.11		
MEOLUT-017	New	Slow Moving Beacon location accuracy	Critical	Enhancement	Jun-19		JC-32 Report, Annexes 18 & 19		T.019 - Issue 2 Rev. 3 (CSC-61): T.019, section 5.6		
MEOLUT-018	New	EHE processing	Critical	Enhancement	Jun-19		JC-32 Report, Annexes 18 & 19		T.019 - Issue 2 Rev. 3 (CSC-61): section 5.10		
MEOLUT-019	New	Computation of Frequency Offset used in TOA/FOA Data Exchange	Routine	Enhancement	Jan-21		JC-32 Report, Annex 5		A.002: section Annex B Appendix B.1 MF #70		
MEOLUT-020 (Change No Longer		MEOLUT use of the 23 Hex Id per updated definition in T.018 Table 3.10	Critical	Adaptive	Jan-22 (OBE)	Bits 118 to 137 of the Vessel ID are considered to be all "0's in the SGB 23 Hex Id for the 24 bit address coding option. See T.019 section 4.2.6.2. OBE per EWG-1/2021 modification.	EWG-2-2020 Annex 11		T.018: Table 3.10, footnote 3		
MEOLUT-021	New	Processing of QMS beacons in self-test mode for SGBs	Routine	Enhancement	Jun-23		JC-35 Report, Annex T.019	C/S T.019 - Issue 2 Rev. 1 (CSC-59)	C/S T.019 - Issue 2 Rev. 6 (CSC-66) section 4.2.2 "Beacon Message Recovery"		
MEOLUT-022	New	Default value for number of Networked Antennas above 98	Critical	Corrective	Mar-23	Linked to MCC-140	CSC-66/OPN		C/S A.002: Appendix B.1 - MF #80 - Networked Antennas		
MEOLUT-023	New	Invalidation of single-burst single-antenna messages with five or more BCH corrected bit errors.	OBE	OBE	OBE	Superseded by MEOLUT-027	JC-36 Report, Annex 17 (T.019)	T.019: section 4.2.4.2	None		
MEOLUT-024	Other	Removal of the waiver for ELT(DT) DOA position	Critical	Adaptive	Oct-25	Removal of the waiver for ELT(DT) DOA position	JC-38 Annex xx (T.020)		C/S T.020: Table A-2 "MEOLUT Commissioning Summary Data Table (C/S T.001 Beacon Part), Page A-5. Footnote		
MEOLUT-025	Other	Change in the matching bits for Multiple Invalid C/S T.018 Beacon Message Processing	Routine	Adaptive	Oct-26	Match of bits 1 to 202 of SGB messages (instead of bits 1 to 252)	JC-38 Annex xx (T.018)		C/S T.019, section 4.2.5.2 "Multiple Invalid C/S T.018 Beacon Message Processing"		
MEOLUT-026	Other	Capacity to process at least 4 SGB bursts in normal mode overlapping in time	Routine	Adaptive	Oct-26	Capacity to process at least 4 SGB bursts in normal mode overlapping in time	JC-38 Report, section 5.3.42 (a)		C/S T.019, section 4.2.2 "Beacon Message Recovery". See also C/S T.019, section 5.3.2 and C/S T.020, section C.3.1.		
MEOLUT-027	????	5-minute time window for validation of SGB messages with 5 or 6 corrected bit errors	Routine	Enhancement	Oct-27	A 5-minute time window must be used to match SGB messages with 5 or 6 corrected bit errors for those messages to be valide.	JC-39 Annex XX (T.019), section x.x.x	T.019: section 4.2.4.2	T.019: section 4.2.4.2 "C/S T.018 Message Validatio		

Reference	(1)	Brief Description	Criticality (Critical, Routine, Optional)	Type (Corrective, Adaptive, Enhancement)	Implementation Due Date	Comments	Joint Committee References	Red Book Reference (Council Session)
LEOLUT-1	15	Changes in the RLS protocol (per C/S T.001, section A3.3.7 and Figure A.10, no fixed bits starting in bit 107)	Critical	Adaptive	Jun-17		JC-30 Report, sections 5.1.32 to 5.1.37	C/S T.001 - Issue 4 (CSC-57)
LEOLUT-2	16	Handle new ELT(DT) Location Protocol	Routine	Enhancement	Dec-18		JC-30 Report, sections 5.1.32 to 5.1.37	C/S T.001 - Issue 4 (CSC-57)
LEOLUT-3	34	Provide data for ELT(DT) incident alert data	Critical	Enhancement	Dec-18		JC-31 Report, section 4.4 and 7.2.16	C/S T.002 - Issue 5 (CSC-59)
LEOLUT-4		LEOLUT upgrade for the Cospas-14 signals processing	Critical	Adaptive	Dec-19	Urgent	CSC-62/OPN/SR section 5.x (from CSC-OPN/5/4)	C/S T.003, Issue 5 - Rev.3 (CSC-57)

Reference	(1)	Brief Description	Criticality (Critical, Routine, Optional)	Type (Corrective, Adaptive, Enhancement)	Implementation Due Date	Comments	Joint Committee References	Red Book Reference (Council Session)	Document Section(s) / Pages(s)
LEOLUT-1	15	Changes in the RLS protocol (per C/S T.001, section A3.3.7 and Figure A.10, no fixed bits starting in bit 107)	Critical	Adaptive	Jun-17		JC-30 Report, sections 5.1.32 to 5.1.37	C/S T.001 - Issue 4 (CSC-57)	C/S T.001 - Issue 4 (CSC-57): section A3.3.7 and Figure A.10
LEOLUT-2	16	Handle new ELT(DT) Location Protocol	Routine	Enhancement	Dec-18		JC-30 Report, sections 5.1.32 to 5.1.37	C/S T.001 - Issue 4 (CSC-57)	C/S T.001 - Issue 4 (CSC-57): sections 2.2.3.3, 4.5.5.6 and A3.3.8, and Figure A.11
LEOLUT-3	34	Provide data for ELT(DT) incident alert data	Critical	Enhancement	Dec-18		JC-31 Report, section 4.4 and 7.2.16	C/S T.002 - Issue 5 (CSC-59)	C/S T.002 - Issue 5 (CSC-59): sections 3.2, 4.2.5, 4.2.7 and 5
LEOLUT-4		LEOLUT upgrade for the Cospas-14 signals processing	Critical	Adaptive	Dec-19	Urgent	CSC-62/OPN/SR section 5.x (from CSC-OPN/5/4)	C/S T.003, Issue 5 - Rev.3 (CSC-57)	C/S T.003, Issue 5 - Rev.3 (CSC-57): sections 4.1 and 4.1.1

Reference	Brief Description	Criticality (Critical, Routine, Optional)	Type (Corrective, Adaptive, Enhancement)	Implementation Due Date	Comments	Joint Committee References	C/S Document Section(s) / Page(s)
GEOLUT-1	Changes in the RLS protocol (per C/S T.001, section A3.3.7 and Figure A.10, no final bit starting in bit 207)	Critical	Adaptive	Jun-17		C-30 Report, sections 5.1.32 to 5.1.37	T.001 - Issue 4 (CSC-57), section A3.3.7 and Figure A.10
GEOLUT-2	Handle new ELT(DT) Location Protocol	Routine	Enhancement	Dec-18		C-30 Report, sections 5.1.32 to 5.1.37	T.001 - Issue 4 (CSC-57), sections 2.3.1, 3.1, 4.5.5.6 and A3.3.8, and Figure A.11
GEOLUT-3	Provide data for ELT(DT) incident alert data	Critical	Enhancement	Dec-18		C-31 Report, sections 4.4 and 7.2.16	T.009 - Issue 2 (CSC-58), sections 3.8, 4.2.5.4.2.3 and 5.1
GEOLUT-4	Provide data for SGB incident alert data	Critical	Enhancement	Dec-18		C-31 Report, sections 4.4 and 7.2.16	T.009 - Issue 2 (CSC-58), sections 3.2 and 4.2.2.2
GEOLUT-5	Beacon Message Processing for ELT(DT)s	Critical	Enhancement	Jun-20		C-31 Report, Annex 15	T.009, section 5.1.3.2
GEOLUT-6	Processing frequency	Critical	Corrective	Jun-20		C-31 Report, Annex 15	T.009, section 5.8
GEOLUT-7 (Change No larger Required)	GEOLUT use of the 24 hex id per updated definition in T.018 Table 3.10	Critical	Adaptive	Jan-22 (CNE)	001 118 to 137 of the Vessel ID are considered to be all "0"s in the SGB 24 hex ID for the 24-bit reference coding option. See T.008 section 4.2.3.4, CNE per EWG 1/2021 modification.	EWG 2-2020 Annex 11	T.018, Table 3.10, footnote 3