



Summaries of IACS Resolutions published in 2024

Summary of New/Revisions to IACS Unified Requirements published in 2024

New

Revised

Corrigenda

Deleted/Withdrawn

Index	Resolution		Adoption	Title	Implementation Date
	no.	Revision			
1	UR H1	New	Jan 2024	Control of Ammonia releases in Ammonia fuelled vessels	01-Jan-25
2	UR M78	Rev.2	Jan 2024	Reciprocating Internal Combustion Engines fuelled by Natural Gas	01-Jan-25
3	UR M3	Rev.7	Feb 2024	Speed governor and overspeed protective device	01-Jan-25
4	UR M43	Rev.1	Feb 2024	Bridge control of propulsion machinery	01-Jan-25
5	UR M47	Del	Feb 2024	Bridge control of propulsion machinery for attended machinery spaces	-
6	UR M84	New	Feb 2024	Capacity and availability of compressed air for essential services	01-Jul-25
7	UR M61	Rev.3	Feb 2024	Starting Arrangements of Internal Combustion Engines	01-Jul-25
8	UR E21	Rev.2	Feb 2024	Requirements for uninterruptible power system (UPS) units	01-Jul-25
9	CSR 2024	-	-	Common Structural Rules - Consolidated 01 Jan 2024	01-Jul-24
10	UR W8	Rev.4	Mar 2024	Hull and machinery steel castings	01-Jan-25
11	UR C6	New	May 2024	Requirements for Lashing Software	01-Jul-25
12	UR C7	New	May 2024	Approval and Certification of Container Securing Systems	01-Jul-25
13	UR Z7	Rev.29 Corr.1	May 2024	Hull Classification Survey	-
14	UR Z71	Rev.15 Corr.1	May 2024	Hull Surveys for General Dry Cargo Ships	-
15	UR S10	Rev.7 Corr.2	May 2024	Rudders, sole pieces and rudder horns	-
16	UR M46	Rev.4	Aug 2024	Ambient conditions – Inclinations and Ship Accelerations and Motions	01-Jan-26
17	UR E10	Rev.10	Aug 2024	Test Specification for Type Approval	01-Jan-26
18	UR Z1	Rev.10	Sep 2024	Annual and intermediate classification survey coverage of IMO Resolution A.1186(33)	-

	Resolution					Implementation
Index	no.	Revision	Adoption	Title		Date
19	UR F44	Rev.3	Sep 2024	Fore peak ballast tanks and space arrangements on oil & chemical tankers		01-Jan-26
20	UR S35	Corr.1	Sep 2024	Buckling Strength Assessment of Ship Structural Elements		-
21	UR P4	Rev.8	Sep 2024	Production and Application of Plastic Piping Systems on Ships		01-Jan-26
22	UR Z17	Rev.19	Oct 2024	Procedural Requirements for Service Suppliers		01-Jan-26
23	UR M52	Rev.3	Nov 2024	Length of aftmost propeller shaft bearing		01-Jan-26
24	UR M85	New	Nov 2024	Type approval testing of synthetic materials for aftmost propeller shaft bearings		01-Jan-26
25	UR Z17	Rev.20	Nov 2024	Procedural Requirements for Service Suppliers		01-Jan-26
26	UR H1	Withdrawn	Nov 2024	Control of Ammonia releases in Ammonia fuelled vessels		-
27	UR M10	Rev.5	Nov 2024	Protection of internal combustion engines against crankcase explosions		01-Jan-26
28	UR M86	New	Nov 2024	Monitoring and Safety Functions for Exhaust Gas Cleaning (SOx) Systems		01-Jan-26
29	UR W24	Rev.5 Corr.1	Dec 2024	Cast Copper Alloy Propellers		-
30	UR W27	Rev.3 Corr.1	Dec 2024	Cast Steel Propellers		-

1. UR H1 (New January 2024)

UR H1 provides requirements for releases of ammonia from the onboard systems for bunkering, storing, preparing and using ammonia as fuel. It addresses normal operation as well as abnormal and emergency scenarios.

2. UR M78 (Rev.2 January 2024)

The scope of application of the UR M78 has been made to cover all types of engines (high pressure and low pressure, two stroke and four stroke, gas injection and pre-mixed gas type engine).

3. UR M3 (Rev.7 February 2024)

This revision was made to delete references in this UR to the requirements of UR M43 and UR M47 following Rev.1 of UR M43 and the deletion of UR M47.

4. UR M43 (Rev.1 February 2024)

This UR provides requirements for the bridge control systems for propulsion machinery, for attended and unattended machinery spaces. In this revision requirements existing in SOLAS II-1/49 have been removed. Additionally, it includes requirements of attended machinery spaces which were in UR M47.

5. UR M47 (Del February 2024)

UR M47 requirements are transferred to UR M43 and is therefore deleted.

6. UR M84 (New February 2024)

This UR provides requirements for the capacity and availability of compressed air required by systems, machinery and equipment providing essential services. The UR was considered necessary in order to ensure that sufficient compressed air capacity, in addition to the required starting air capacity, is ensured at all times where compressed air is essential for normal operation of the propulsion system.

7. UR M61 (Rev.3 February 2024)

This UR provides requirements for the starting arrangements of internal combustion engines. The UR has been updated to include a cross reference to the newly developed UR M84 – Capacity and availability of compressed air for essential services – to ensure that the new requirements in UR M84 relating to compressed air for essential services are also fully considered together with the requirements for engine starting.

8. UR E21 (Rev.2 February 2024)

In Rev.2 of this Resolution, the requirements for UPS are extended to other cases than alternative and transitional power, recognising widely used practice and existing usage that UPS is often utilised for continuous and uninterruptible services in the application of essential services like DP control system, AMS, BMS, etc.

9. CSR 2024

Common Structural Rules (CSR) consist of two parts. Part One provides requirements common to both double hull oil tankers and bulk carriers and Part Two provides additional requirements applied to either double hull oil tankers or bulk carriers. The consolidated version of CSR 2024 came into force on 1 July 2024.

10. UR W8 (Rev.4 March 2024)

UR W8 pertaining to hull and machinery steel castings has undergone a revision, incorporating updated requirements and clarifications regarding test block dimensions.

11. UR C6 (New May 2024)

UR C6 provides harmonised performance standards and requirements to facilitate consistent approval of lashing software. The main technical reason for the change is the absence of harmonised performance standards and guidelines required to facilitate consistent approval of lashing software.

12. UR C7 (New May 2024)

UR C7 to define the scope of approval and certification of container securing systems is developed. The main technical reason for the change is the regulatory gap among the Member Societies regarding the approval and certification of container securing systems.

13. UR Z7 (Rev.29 Corr.1 May 2024)

By this corrigendum, Para. 1.5 of this UR and its footnotes were updated due to withdrawal of UR S21A and merger of its contents into UR S21.

14. UR Z7.1 (Rev.15 Corr.1 May 2024)

By this corrigendum, Para. 1.6 of this UR and its footnotes were updated due to withdrawal of UR S21A and merger of its contents into UR S21.

15. UR S10 (Rev.7 Corr.2 May 2024)

The Rev.7 Corr.2 of UR S10 has been prepared to correct the editorial errors with respect to formulas for semi spade rudder with 2-conjugate elastic support stipulated in Annex S10.6.

16. UR M46 (Rev.4 August 2024)

Note 3 to M46.2 is updated accommodating the reference clause nos. of the IGC Code and the IBC Code that were previously specified in UI SC6 and UI SC290.

17. UR E10 (Rev.10 August 2024)

Item 8 (inclination test) is revised for the part relevant to Gas Carriers and Chemical Carrier, in alignment with Note 3 to M46.2 which is updated accommodating the reference clause nos. of the IGC Code and the IBC Code that were previously specified in UI SC6 and UI SC290. In parallel, the reference standards are also updated as per the latest and valid version.

18. UR Z1 (Rev.10 September 2024)

UR Z1 is revised as Rev.10 following the publication of the IMO Res. A.1186(33).

19. UR F44 (Rev.3 September 2024)

This UR provides requirements for fore peak ballast tanks and space arrangements on oil & chemical tankers. In Rev.3 modifications have been made to expand the application of UR F44 to chemical tankers.

20. UR S35 (Corr.1 September 2024)

An application statement in note.1 of UR S35 has been updated for further clarification.

21. UR P4 (Rev.8 September 2024)

This revision was made to add paragraph 4.6.7 in the UR as result of the changes made in UI SC299 for clarifications of (water) tightness test after a fire test of heat-sensitive bulkhead penetrations of passenger ships.

22. UR Z17 (Rev.19 October 2024)

In Rev.19 of this UR, reference was made to IACS Recommendation No.180 "Recommendation for conducting commissioning testing of Ballast Water Management Systems" in Section 18 of Annex to this UR.

23. UR M52 (Rev.3 November 2024)

The purpose of the revision is to emphasise that the bearing length application is only valid for the aftmost propeller shaft bearing, next to and carrying the propeller, to state that type approval is required for all synthetic materials for aftmost propeller shaft bearings.

24. UR M85 (New November 2024)

A new UR is developed to specify the technical requirements for type approval of synthetic materials for aftmost propeller shaft bearings.

25. UR Z17 (Rev.20 November 2024)

UR Z17 provides the procedural requirements for service suppliers. In this revision, the term related to QSCS was amended for clarity.

26. UR H1 (Withdrawn November 2024)

New UR H1 was withdrawn in November 2024 before coming into force on 1 January 2025 with the main reason being potential confusion which could arise within the industry due to the differences between the IACS UR H1 and the IMO Draft Interim Guidelines for Ships Using Ammonia as Fuel.

27. UR M10 (Rev.5 November 2024)

UR M10 was updated to address the crankcase safety for engines fuelled with gas or low flashpoint fuels and the conditions for accepting a ventilation of the crankcase.

28. UR M86 (New November 2024)

This Resolution provides the minimum requirements as regards monitoring and safety functions of exhaust gas cleaning (SOx) systems (EGCS).

29. UR W24 (Rev.5 Corr.1 December 2024)

The corrigenda include the minor edits for Table 3 and Articles 14.2, 15.

30. UR W27 (Rev.3 Corr.1 December 2024)

The corrigenda include the minor edits for Article 13.2.

Summary of New/Revisions to IACS Unified Interpretations published in 2024

 New

 Revised

 Corrigenda

 Deleted/Withdrawn

Index	Resolution no.	Revision	Adoption	Title	Implementation Date
 1	UI SC249	Rev.2	Jan 2024	Implementation of SOLAS II-1, Regulation 3-5 and MSC.1/Circ.1379	01-Jan-25
 2	UI SC266	Del	Feb 2024	Revised guidelines for cargo securing manual and code of safe practice for cargo stowage and securing – scope of application	-
 3	UI SC301	New	May 2024	SOLAS Regulations II-2/9.7.2 and 9.7.5.1 – Separation of ducts from spaces	01-Jul-25
 4	UI SC89	Rev.5	May 2024	Ventilation of Cargo Spaces	01-Jan-25
 5	UI SC276	Rev.1	May 2024	Escape from machinery spaces on passenger ships	01-Jul-25
 6	UI SC277	Rev.1	May 2024	Escape from machinery spaces on cargo ships	01-Jul-25
 7	UI LL62	Rev.1 Corr.2	Jun 2024	Side Scuttles, Windows and Skylights	-
 8	UI SC302	New	May 2024	Interpretation of SOLAS Regulation II-2/11.4.1 Pertaining to Crowns of Machinery Spaces of Category A	01-Jul-25
 9	UI GF20	New	Jun 2024	Arrangements of fuel tanks in methyl/ethyl alcohol-fuelled vessels	01-Jul-25
 10	UI SC156	Rev.3	Jul 2024	Doors in watertight bulkheads of cargo ships and passenger ships	01-Jul-25
 11	UI SC303	New	Jul 2024	Harmonisation of Industrial Personnel Safety Certificate with SOLAS Safety Certificates	01-Jul-25
 12	UI MPC131	New	Jul 2024	Unified Interpretation on the application of the amendments to Appendix IX of MARPOL Annex VI adopted by MEPC.385(81)	01-Nov-24
 13	UI SC211	Rev.1	Sep 2024	Protection of fuel oil tanks and designation of fore peak spaces	01-Jan-26
 14	UI SC99	Rev.2 Corr.1	Sep 2024	Flexible bellows of combustible materials	-
 15	UI SC304	New	Oct 2024	MSC.337(91) Code on noise levels on board ships – calibration of sound instruments	01-Jul-26
 16	UI SC259	Rev.1 Corr.2	Oct 2024	For Application of SOLAS Regulation II-1/3-11 Performance Standard for Protective Coatings for Cargo Oil Tanks of Crude Oil Tankers (PSPC-COT), adopted by Resolution MSC.288(87)	-

Appendix I: Summaries of IACS Resolutions published in 2024

17	UI GF21	New	Oct 2024	CO2 fire extinguishing systems in methyl/ethyl alcohol-fuelled vessels' machinery spaces	01-Jan-26
18	UI SC306	New	Nov 2024	Valve piercing ship's collision bulkhead	01-Jan-26
19	UI SC307	New	Nov 2024	Hydrocarbon Gas Detection and Bilge High Level Alarms in Cargo Pump Rooms	01-Jan-26
20	UI SC4	Del	Nov 2024	Emergency source of electrical power	-
21	UI SC5	Del	Nov 2024	Emergency source of electrical power in passenger ships	-
22	UI SC269	Rev.2	Nov 2024	Means of escape from the steering gear space in cargo ships	01-Jan-26
23	UI SC11	Rev.2	Nov 2024	Precautions against shock, fire and other hazards of electrical origin	01-Jan-26
24	UI SC190	Rev.2	Nov 2024	Application of SOLAS Regulation II-1/3-6 (Res MSC.134(76)) and Technical Provisions on Permanent Means of Access (Res MSC.133(76))	01-Jul-25
25	UI SC191	Rev.9	Nov 2024	IACS Unified Interpretations (UI) SC 191 for the application of amended SOLAS regulation II-1/3-6 (Res MSC.151(78)) and revised Technical provisions for means of access for inspections (Res MSC.158(78))	01-Jul-25
26	UI SC305	New	Dec 2024	Single essential propulsion components and their reliability	01-Jan-26

1. UI SC249 (Rev.2 January 2024)

UI SC 249 provides clarification regarding the application of SOLAS II-1, Reg. 3-5 and MSC.1/Circ.1379 with respect to “new installation of materials which contain asbestos”. Revision 2 considers recent amendments to IMO regulatory framework and editorial changes.

2. UI SC266 (Del February 2024)

UI SC266 was deleted since the text of interpretation is duly considered in the revised IMO circulars MSC.1/Circ.1352 or MSC.1/Circ.1353.

3. UI SC301 (New May 2024)

UI SC301 has been developed with a view to providing clarity on the application of the SOLAS Ch II-2 regulations 9.7.2 and 9.7.5.1 regarding separation of ducts from spaces, after it was raised in the industry for causing concerns with ambiguous applicability.

4. UI SC89 (Rev.5 May 2024)

This UI provides requirements for ventilation of cargo spaces. In addition to the requirements of Rev.4, this revision provides the ventilation requirement for DIRECT REDUCED IRON (D) (By-product fines with moisture content of at least 2%) that had been newly introduced in the IMSBC Code (Amendment 07-23) additional to the requirements provided by Rev.4.

5. UI SC276 (Rev.1 May 2024)

This UI provides unified interpretations of vague requirements for means of escape in machinery spaces on passenger ships as required by SOLAS II-2/13.4.1. Revision 1 clarifies the term “safe position”.

6. UI SC277 (Rev.1 May 2024)

This UI provides unified interpretations of vague requirements for means of escape in machinery spaces on cargo ships as required by SOLAS II-2/13.4.2. Revision 1 clarifies the term “safe position”.

7. UI LL62 (Rev.1 Corr.2 June 2024)

This UI provides unified interpretations of Regulation 23 of Annex I of Chapter II of the Load Lines Convention, 1966, pertaining to side scuttles, windows and skylights. Correction 2 removes a previous footnote to interpretation (7) and editorially amends the UI to an updated template.

8. UI SC302 (New May 2024)

This UI provides an interpretation for the term crowns as used in SOLAS regulation II-2/11.4.1.

9. UI GF20 (New June 2024)

This UI provides interpretation of the provisions in MSC.1/Circ.1621 (Para 5.3) concerning the arrangements of fuel tanks in methyl/ethyl alcohol-fuelled vessels.

10. UI SC156 (Rev.3 July 2024)

UI SC156 Rev.3 has been published as a consequence of these recently published IMO instruments: MSC.474(102), MSC.491(104), MSC.492(104), MEPC.343(78), MEPC.345(78), MSC.526(106).

11. UI SC303 (New July 2024)

This UI clarifies how the IP Safety Certificate should be harmonised with SOLAS Safety Certificates.

12. UI MPC131 (New July 2024)

This UI provides an interpretation of the amendments to Appendix IX of MARPOL Annex VI adopted by MEPC.385(81) to ensure the uniform application of these amendments, whether implemented early or not, maintaining a consistent level of reported data granularity throughout the calendar year and thereby preventing varying levels of granularity within the ship's data collected and reported for the same year. This UI also provides additional guidance to ensure that, following the entry into force of the amendments or the early implementation provisions, the SEEMP is revised in a timely manner.

13. UI SC211 (Rev.1 September 2024)

This UI provides interpretation of regulations 3.6 and 4.5.1.1 of SOLAS Chapter II-2 and paragraphs 1.3.6 and 3.2.1 of the International Code for the Construction and Equipment of Ships Carrying Dangerous Chemicals in Bulk (IBC Code). In Rev.1 of the UI, modifications have been made to align this UI with the amendments to UR F44 in its Rev.3.

14. UI SC99 (Rev.2 Corr.1 September 2024)

This UI serves to interpret the wording “short ducts, not generally exceeding 2 m in length” in SOLAS Reg. II-2/9.7.1.1 in connection with flexible bellows of combustible materials. Corrigendum 1 takes into account resolution MSC.365(93).

15. UI SC304 (New October 2024)

This UI provides interpretation on MSC.337(91) Code regarding noise levels on board ships – calibration of sound instruments. Calibration of sound level meter and accompanying field calibrator shall be made in a uniform way by laboratories worldwide, documenting that the same instruments continue to satisfy the accuracy requirements of MSC.337(91).

16. UI SC259 (Rev.1 Corr.2 October 2024)

UI SC259 Rev.1 Corr.2 provides interpretations requirements for the terminology used in IMO resolution MSC.288(87), as amended by Res. MSC.558(107).

17. UI GF21 (New October 2024)

This UI provides interpretation of the provisions in MSC.1/Circ.1621 concerning the use of CO₂ fire extinguishing systems in methyl/ethyl alcohol-fuelled vessels' machinery spaces and fuel preparation spaces.

18. UI SC306 (New November 2024)

This UI clarifies the allowable arrangements of valves piercing ship's collision bulkhead with regard to SOLAS regulation II-1/12.6.2.

19. UI SC307 (New November 2024)

This UI clarifies the safety measures of continuous monitoring for hydrocarbon gases with detectors and bilge level monitoring devices for tanker cargo pump rooms with regard to SOLAS regulation II-2/4.5.10.

20. UI SC4 (Del November 2024)

UI SC4 is deleted under the consideration that the interpretation from 1985 is not reflecting later SOLAS amendments and may go beyond an interpretation of requirements in the regulations.

21. UI SC5 (Del November 2024)

UI SC5 is deleted under the consideration that the interpretation from 1985 is not reflecting later SOLAS amendments and may go beyond an interpretation of requirements in the regulations.

22. UI SC269 (Rev.2 November 2024)

IACS UI SC269 provides unified interpretations of SOLAS regulation II-2/13.4.2.2 and 13.4.3.2 relating to means of escape from the steering gear space in cargo ships. Revision 2 clarifies that the conditions for the provision of one means of escape should apply regardless of the ship's size.

23. UI SC11 (Rev.2 November 2024)

This UI refers to "other high fire risk areas" mentioned in SOLAS II-1/Reg.45.5.3, which does not provide a determination of "other high fire risk areas". This Rev.2 was updated to clarify the definition of this term.

24. UI SC190 (Rev.2 November 2024)

In Rev.2 of this UI, intervals of periodic inspections of the permanent means of access were clarified together with other vague points included in interpretations on Para. 2.3 of SOLAS regulation II-1/3-6.

25. UI SC191 (Rev.9 November 2024)

In Rev.9 of this UI, intervals of periodic inspections of the permanent means of access were clarified together with other vague points included in interpretations on Para. 2.3 of SOLAS regulation II-1/3-6.

26. UI SC305 (New December 2024)

This UI provides a unified interpretation of requirements in SOLAS regulation II-1/26.2, with a view to facilitating its consistent and global implementation.

Summary of New/Revisions to IACS Recommendations published in 2024

 New

 Revised

 Corrigenda

 Deleted/Withdrawn

Index	Resolution no.	Revision	Adoption	Title	Implementation Date
 1	Rec 27	Rev.2	Feb 2024	List of minimum recommended spare parts for each type of auxiliary internal combustion engine driving electric generators for essential services on board ships for unrestricted service	-
 2	Rec 28	Rev.2	Feb 2024	List of minimum recommended spare parts for auxiliary steam turbines driving electric generators for essential services on board ships for unrestricted service	-
 3	Rec 29	Rev.2	Feb 2024	List of minimum recommended spare parts for main steam turbines on board ships for unrestricted service	-
 4	Rec 30	Rev.2	Feb 2024	List of minimum recommended spare parts for essential auxiliary machinery on board ships for unrestricted service	-
 5	Rec 180	New	Apr 2024	Recommendation for conducting commissioning testing of Ballast Water Management Systems	-
 6	Rec 172	Rev.1	Apr 2024	EEXI Implementation Guidelines	-
 7	Rec 180	Rev.1	Nov 2024	Recommendation for conducting commissioning testing of Ballast Water Management Systems	-
 8	Rec 181	New	Nov 2024	Measurement of Underwater Radiated Noise from ships	-
 9	Rec 90	Rev.2	Nov 2024	Ship structure access manual	-

1. Rec 27 (Rev. 2 February 2024)

Recommendation No.27 detailed the minimum spare parts to be carried on board for auxiliary internal combustion engines driving electric generators for essential services on board ships for unrestricted service applications. Following feedback from industry suggesting that the IACS Recommendations for spare parts are out of date, with particular mention of Rec. 26 for main engine spares, Rev.2 revised all of the Recommendations related to spare parts and recommends a risk-based approach to determination of the minimum spare parts to be carried on board and the detailed lists of spare parts are retained as examples only.

2. Rec 28 (Rev. 2 February 2024)

Recommendation No.28 detailed the minimum spare parts to be carried on board for auxiliary steam turbines driving electric generators for essential services of ships for unrestricted service applications. Following feedback from industry suggesting that the

IACS Recommendations for spare parts are out of date, with particular mention of Rec. 26 for main engine spares, Rev.2 revised all of the Recommendations related to spare parts and recommend a risk-based approach to determination of the minimum spare parts to be carried on board and the detailed lists of spare parts are retained as examples only.

3. Rec 29 (Rev. 2 February 2024)

Recommendation No.29 detailed the minimum spare parts to be carried on board for main steam turbines of ships for unrestricted service. Following feedback from industry suggesting that the IACS Recommendations for spare parts are out of date, with particular mention of Rec. 26 for main engine spares, all of the Recommendations related to spare parts have been revised in Rev.2 to recommend a risk-based approach to determination of the minimum spare parts to be carried onboard and the detailed lists of spare parts are retained as examples only.

4. Rec 30 (Rev. 2 February 2024)

Prior to this latest revision, Recommendation No.30 Rev.1 detailed the minimum spare parts to be carried on board for certain essential auxiliary machinery of ships for unrestricted service. Following feedback from industry suggesting that the IACS Recommendations for spare parts are out of date, with particular mention of Rec. 26 for main engine spares, all of the Recommendations related to spare parts have been revised in Rev.2 to recommend a risk-based approach to determination of the minimum spare parts to be carried on board and the detailed lists of spare parts are retained as examples only.

5. Rec 180 (New April 2024)

This Recommendation provides guidance for conducting commissioning tests of the Ballast Water Management Systems. (BWMS)

6. Rec 172 (Rev.1 April 2024)

These implementation guidelines have been developed by IACS in response to the Resolutions relating to EEXI. Rev.1 of the recommendation aims to leverage the implementation experiences of members regarding the application of the EEXI requirements, in order to efficiently address these issues while ensuring a harmonised implementation among the Members.

7. Rec 180 (Rev.1 November 2024)

Revision 1 incorporates two primary modifications: to align with Rev.1 of IMO Circular BWM.2/Circ.61; and to delete the size classification in Table 1 for "Single Turnover Active Fluorometry (STAF)".

8. Rec 181 (New November 2024)

This recommendation aims to harmonise the methods used to measure, analyse and report underwater radiated noise from ships amongst IACS Members, ensuring consistency and comparability across different class notations.

9. Rec 90 (Rev.2 November 2024)

In Rev.2 of this recommendation, updates were made to keep consistency with Rev.9 of UI SC190 and Rev.2 of UI SC191.
