**Title: Mariner selected dates and safety checks**

## S-98 Maintenance - Change Proposal Form

| Organisation | Australian HO | Date | 3/12/21 |
|---|---|---|---|
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## Change Proposal Type *(Select only one option)*

| 1.Clarification | 2.Correction | 3.Extension |
|---|---|---|
| | | √ |

## Location (*Identify all change proposal locations*)

| No. | S-100 Version No. | Part No. | Section No. | Proposal Summary |
|---|---|---|---|---|
| 1 | 4.0.0 | S-98 Annex C | C-13.7.1 to C-13.7.3 & C-8.3 | Make a distinction between 'display dates' and the dates ECDIS must use when performing route checking functions. |

## Change Proposal

All the statements in section 13.7.n refer to the display of periodic/temporary features but does not provide enough guidance as to standardise ECDIS performance when conducting route checking functions. This proposal recommends clarifying the way mariner selected dates should interact with these functions and strongly advocates for mandatory functional requirements to guarantee standardisation among different ECDIS brands.

**Route Planning** – Mariners should be discouraged from using today's date to check a multiday route or a single date journey that would start in the future.
We recommend mandating that mariners' selected date or date range is used by ECDIS when checking a route during the Planning phase. Also, a message (similar to the one at the end of section C-13.7.3) must be displayed when the length of the journey, as determined from the dates of the first and last WP, is not fully covered by the mariner's selected date or date range. We believe OEMs should be directed to check each leg of a route using the dates (ETA) of the corresponding start and end WPs. An Indication must be triggered when relevant features having a 'date start – date end' range temporally overlap 'WPn – WPn+1' date range.

**Route monitoring** – While underway, the look-ahead safety function must trigger Alarms/Indications based on today's date and not based on mariner's selected dates. Irrespective of the mariner's selected 'display' date or date range, ECDIS must always use todays' date to trigger A&I. The warning message in C-13.7.3 is fine but it has to be clear that although a feature may not be 'active' and therefore visible during the mariner's selected dates, the ECDIS route monitoring safety function will continue using todays date to detect temporal features (e.g. a feature, although not visible due to mariner's date display settings, must always trigger an alarm if it's 'temporal validity' includes today's date).

S-100 Change Proposal Form (Updated April 2016)

## Change Proposal Justification

Existing guidance is about data display in relation to mariner's selected date or date range but does not clarify the relationship between this setting and the dates to be used by ECDIS when checking planned routes or when using the look-ahead function while the ship is underway.

## What parts of the S-100 Infrastructure will this proposal affect?

☐      S-100 Feature Concept Dictionary Interface or Database
☐      S-100 Portrayal Register
☐      S-100 Feature Catalogue Builder
☐      S-100 Portrayal Catalogue Builder
☐      S-100 UML Models
☐      S-100 GitHub Schemas
☒      S-98 Annex C

**Please send completed forms and supporting documentation to the secretary S-100WG.**