# TASK X.X.X Development of the guideline on the use cases and potential regulatory requirements for VTS services over IMT-2030

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| **Standard No** | S1060 Digital communication technologies | | |
| **Topic Area/Scope**  *(See Standard or Work Programme 2023-2028)* |  | | |
| **Strategic Alignment**  *(See IALA Strategic Vision)* | **Goal:**  **Strategy:** | | |
| **Task**  *(Proposed task name for new tasks)* | Development of use cases and service requirements for future VTS over IMT-2030 (5G beyond) communication system | | |
| **Objectives of the task** | To ensure the safety and efficiency of VTS within the IMT-2030 (beyond 5G) communication system, the following objectives are targeted to be achieved:   1. Identify legacy use cases that must be supported by the future VTS over IMT-2030. 2. Develop new use cases that are likely to find applicability in the future VTS over IMT-2030. 3. Define potential service requirements, including regulatory consideration, for future VTS over IMT-2030, drawing from both identified legacy use cases and newly developed use cases. 4. Formulate the input based on these use cases and potential service requirements to be submitted for 3GPP standardization. | | |
| **Expected outcome**  *(e.g. Recommendation, Guideline, Model Course)* | Guideline on the use cases and potential service requirements for future VTS over IMT-2030 in terms of the communication system | | |
| **Compelling need**  *(Describe briefly why this task should be included in the Work Programme)* | ITU-R WP 5D reached a consensus in June 2023 on a draft new Recommendation titled "Framework and Overall Objectives for the Future Development of IMT for 2030 and Beyond,” which is now under consideration as a cornerstone for standardizing the next generation of International Mobile Telecommunications (IMT) standards.  In addition, 3GPP, particularly SA WG1 responsible for standardizing use cases and service requirements within the broader 3GPP ecosystem, is expected to commence discussions on the timeline and content for Stage 1 standardization for Release 20 (seen as the initial version of 3GPP specifications for IMT-2030) in the end of 2023. A approval decision for feasibility studies is anticipated in the first half of 2024, with the objective of shaping beyond 5G system aligned with IMT-2030 framework by developing pertinent use cases and service requirements within the context of 3GPP standardization.  Furthermore, 3GPP is expected to continue to cater to various industries’ demands for digital transformation through communication products and solutions based on 3GPP standards, similar to its role in 5G standardization. These efforts will incorporate inputs stemmed from insights and market demands provided by these industries, integrating them into the 3GPP standardization process.  Hence, it is imperative to promptly formulate use cases and service requirements including regulatory aspects for future VTS over IMT-2030. These inputs will play a vital role in the maritime sector’s involvement in 3GPP standardization efforts, aligning with the 3GPP SA1 timeline for studies and works starting from Release 20 onward for ITU-R IMT-2030. | | |
| **Scope**  *(Describe key items to be taken into account as well as what is not included)* | **In Scope:**  Development of use cases and service requirements including regulatory aspects for future VTS over IMT-2030 (beyond 5G) to formulate inputs as served for incorporating demands of VTS related stakeholders into 3GPP standardization for IMT-2030 (beyond 5G).  **Out of scope:**  [TBD] | | |
| **Brief and concise description of the work to be undertaken and programme mile­stones** | Key milestones for completing the task include:   |  |  | | --- | --- | | Initial version of use cases and potential requirements for future VTS over IMT-2030 (beyond 5G) | [TBD] | | Second version of use cases and potential requirements for future VTS over IMT-2030 (beyond 5G) | [TBD] | | Draft approved by Council | [TBD] |   NOTE1: The specified milestones are aimed at developing crucial inputs that will actively engage the maritime sector in 3GPP's standardization efforts for IMT-2030 (beyond 5G). The timeline within IALA may require synchronization with 3GPP's timeline.  NOTE2: This task may need to be conducted in phases to yield task outcomes that provide pertinent inputs for future VTS over IMT-2030 (beyond 5G) into 3GPP's standardization process, aligning with the release timeline. | | |
| **Expected numbers of sessions for completion** | Session number:  01 02 03 04 05 06 07  x  x  x | | |
| **Committee notes** | **Origins /Input paper**  **Who proposed the task?**  **Forwarded from previous work period:** | *(name of file)*  *(name of organisation)*  Yes No  X | |
|  | **Working Group** | **WG#** | **Comments** |
| **Agreed by Committee** | *(Committee Session)* | *(Month & Year)* |
| **Approved by Council** | *(Council Session)* | *(Month & Year)* |
| **Revision Notes:** |  | |