

The Needs of Harmonization Group for ECDIS, AIS, VTS

2000, 17 August

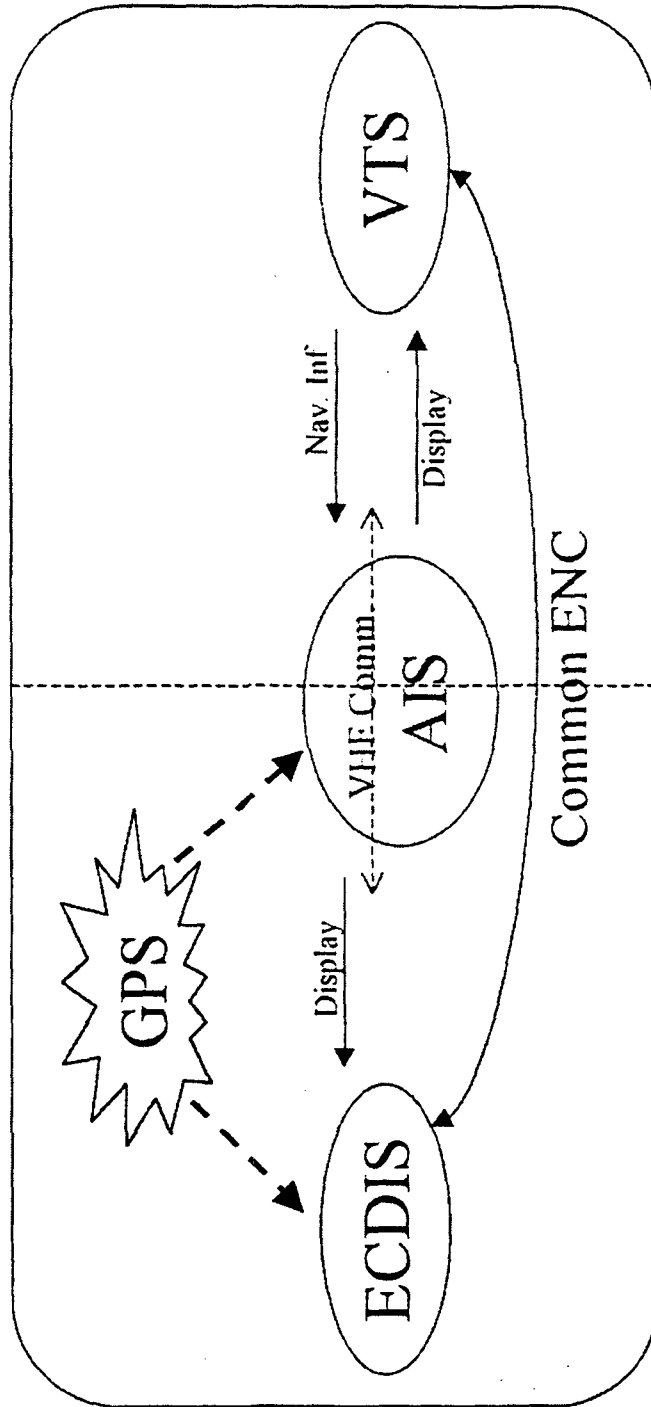
KRISO

Seung-Hyun Suh

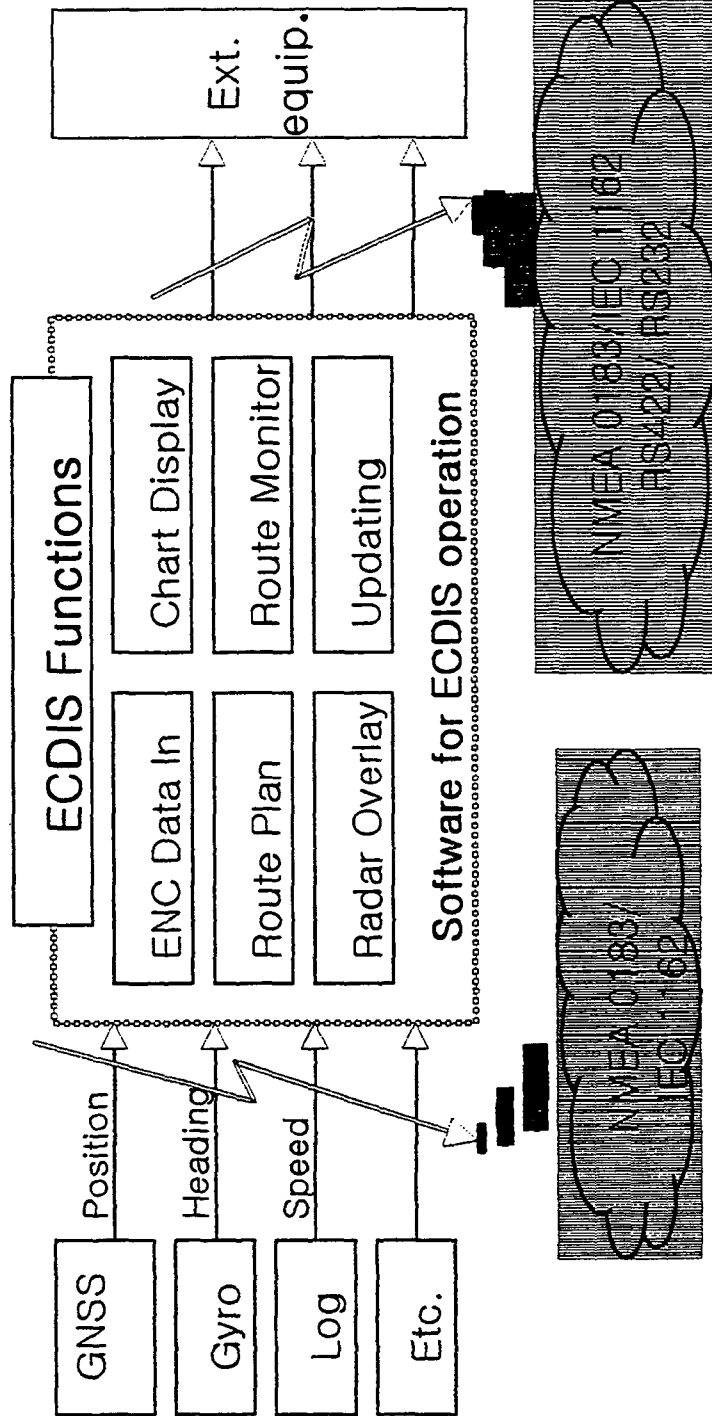
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I. Introduction

Interface relationship among ECDIS, AIS and VTS

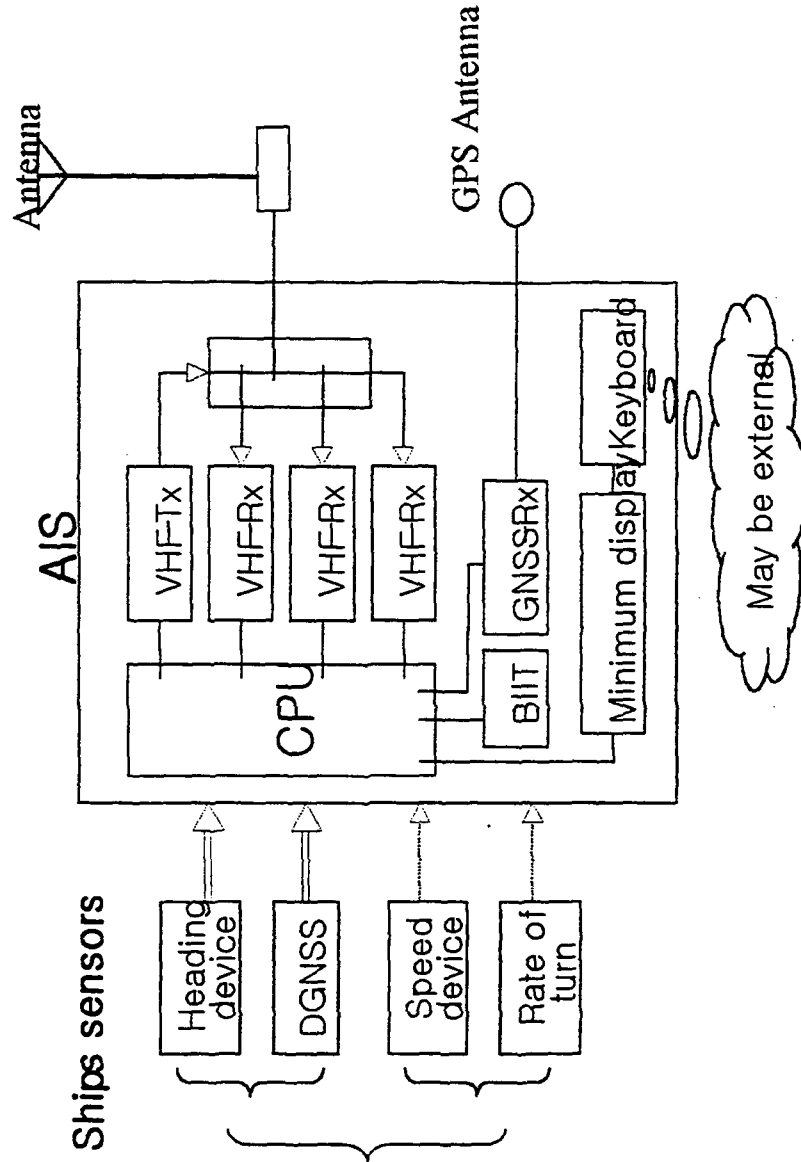


II. What is ECDIS ?



The Schematic Diagram of ECDIS

II. What is AIS ?

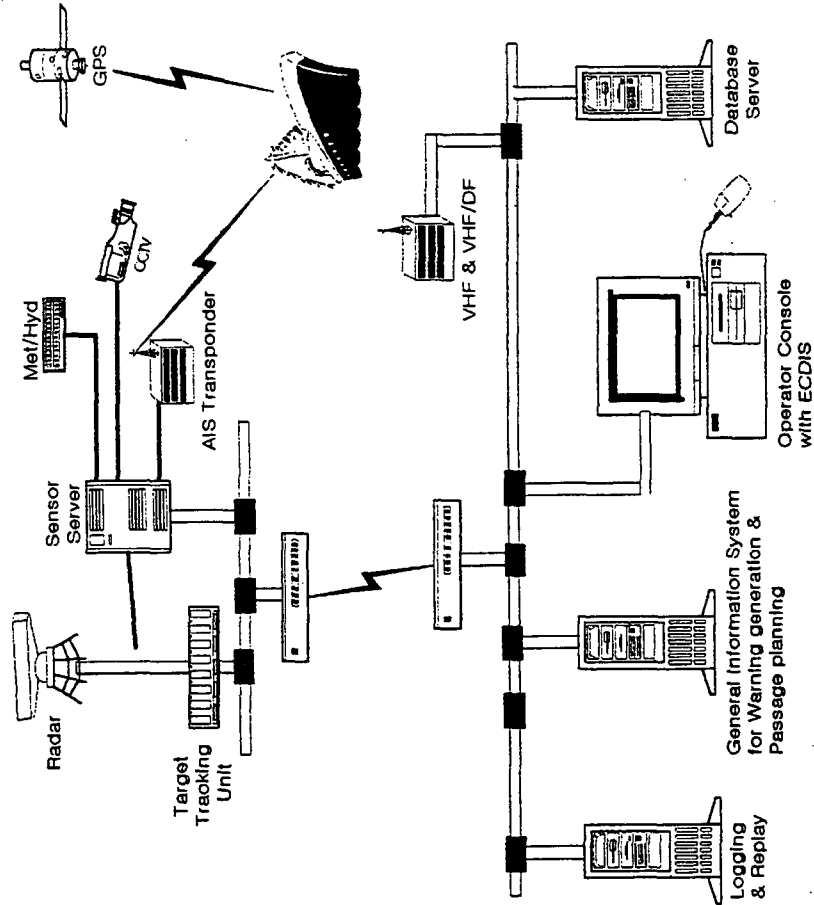


The Schematic Diagram of AIS

International Workshop for AIS/ECDIS/VTS

II. What is VTS ?

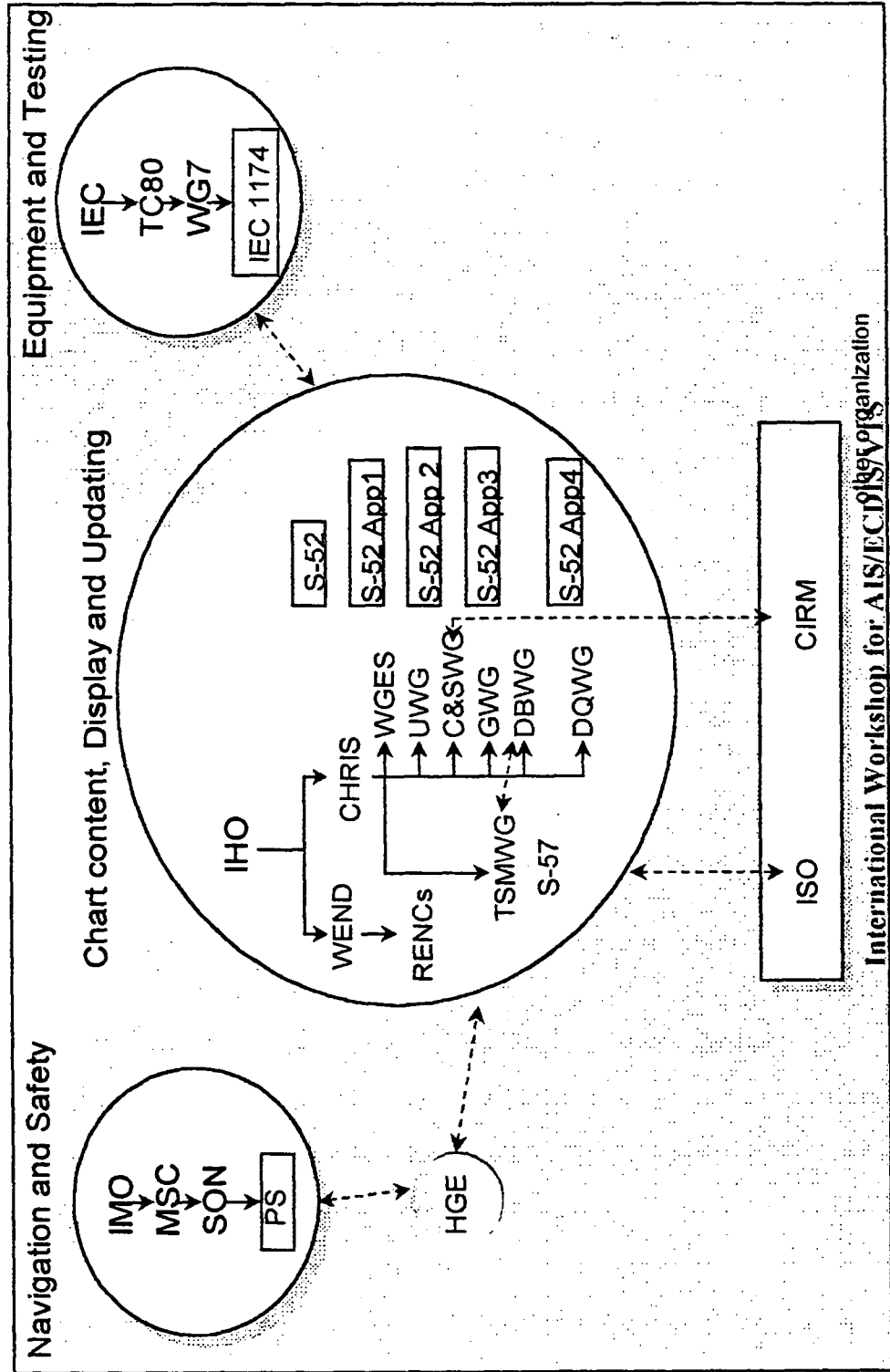
Possible VTS System Architecture



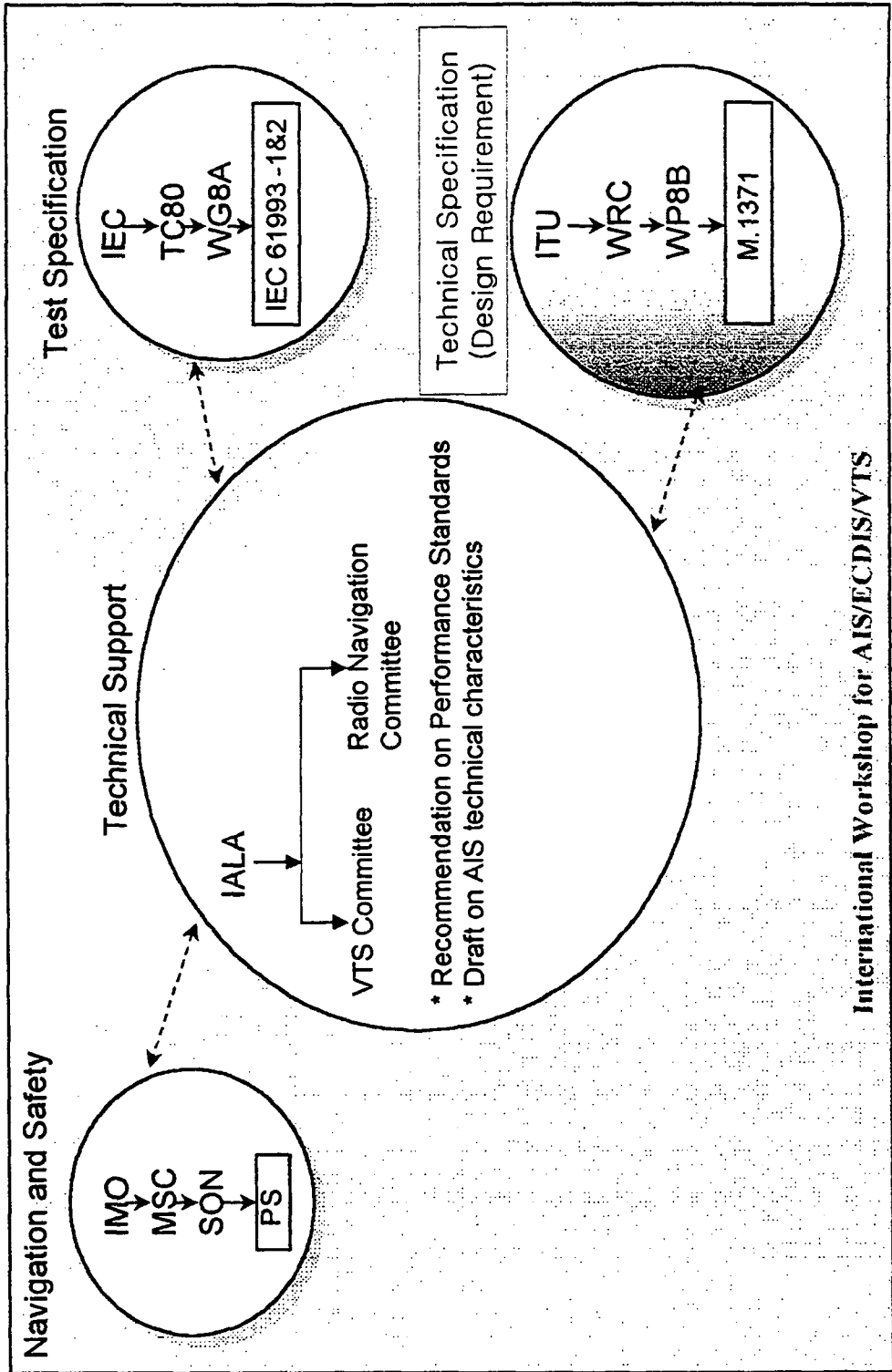
The Schematic Diagram of VTS

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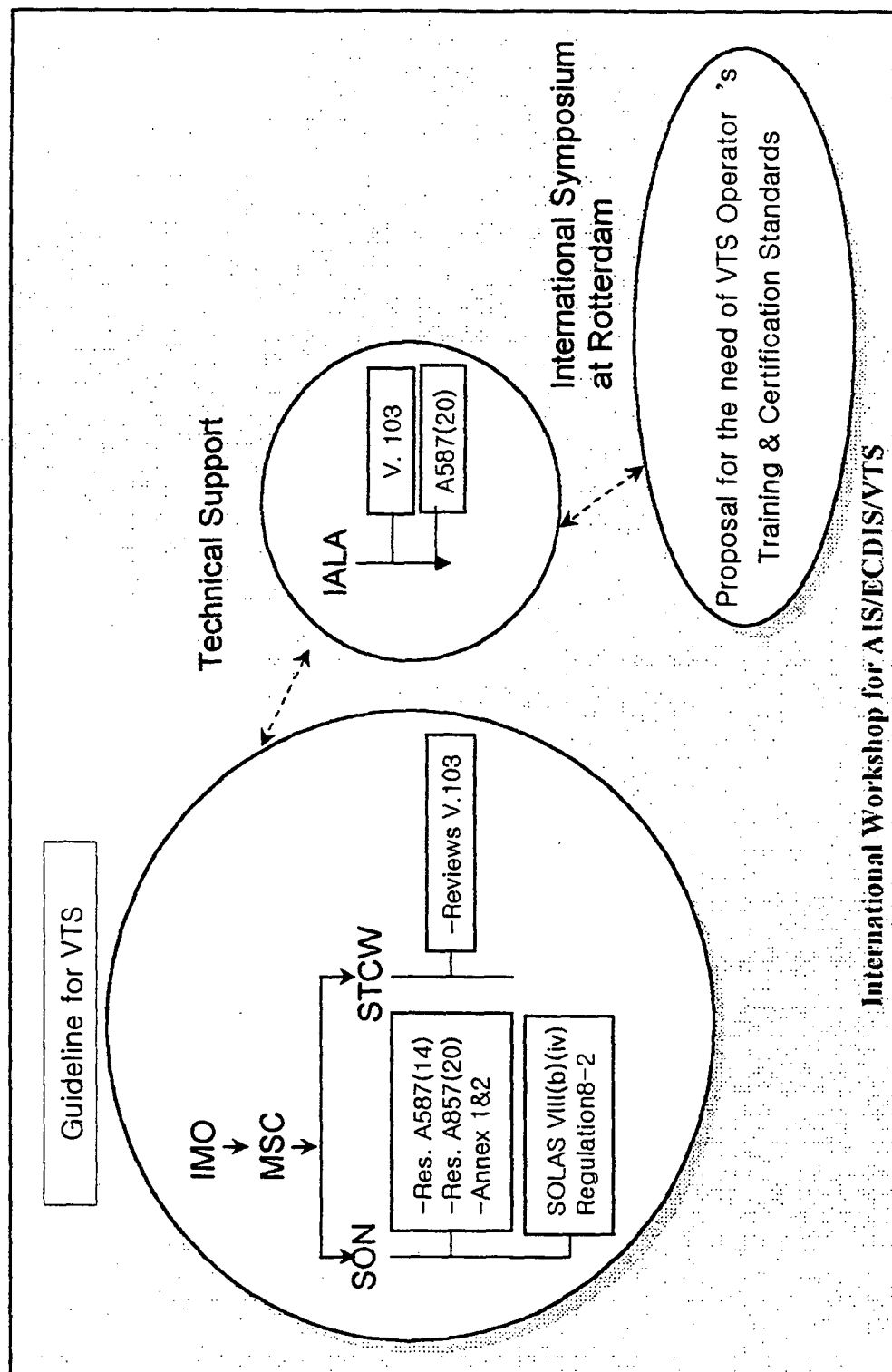
III. The State of International Activities on ECDIS



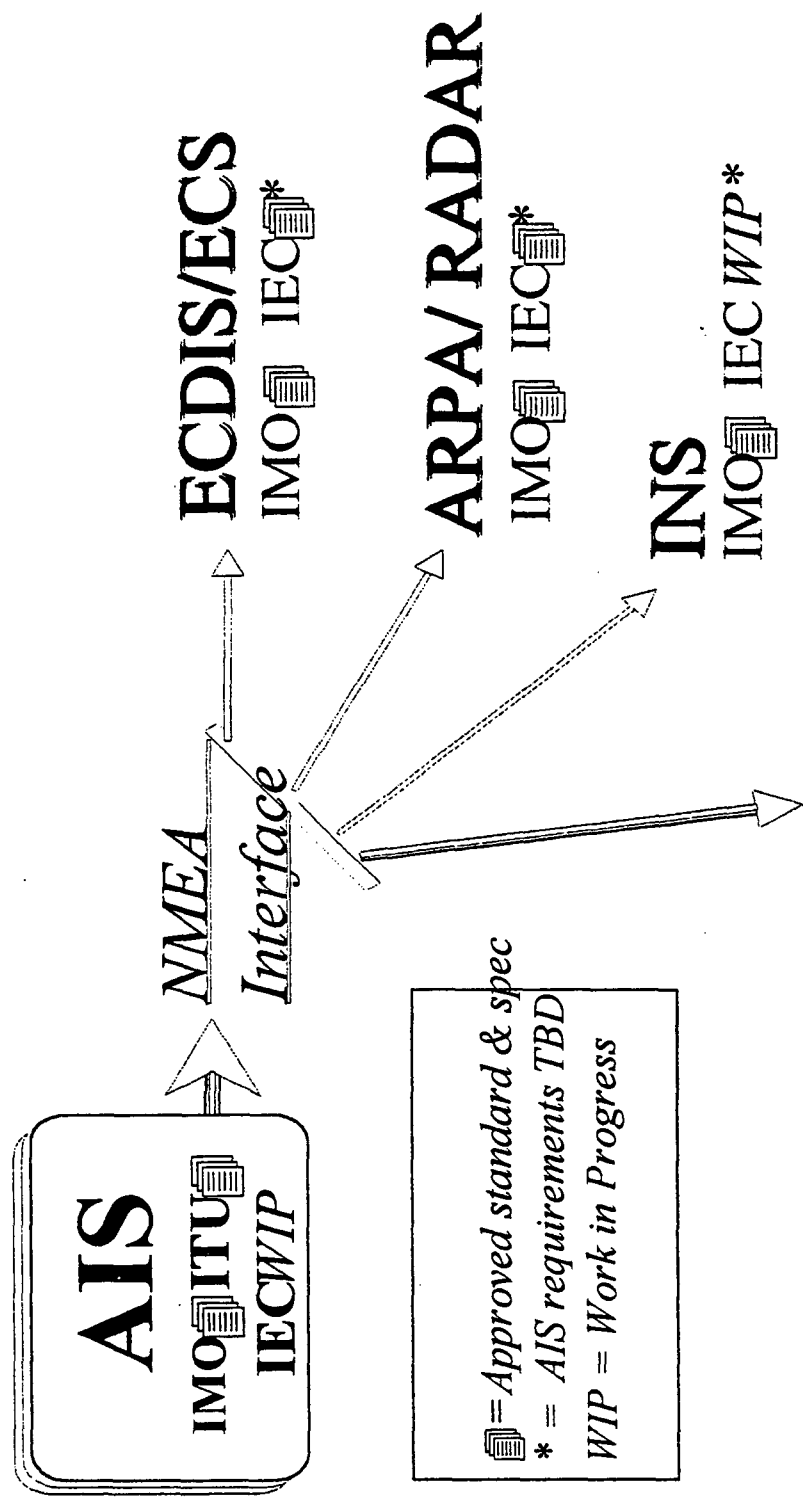
III. The State of International Activities on AIS



III. The State of International Activities on VTS



IV. Discussion of ECDIS/AIS Interface in view of Display Option

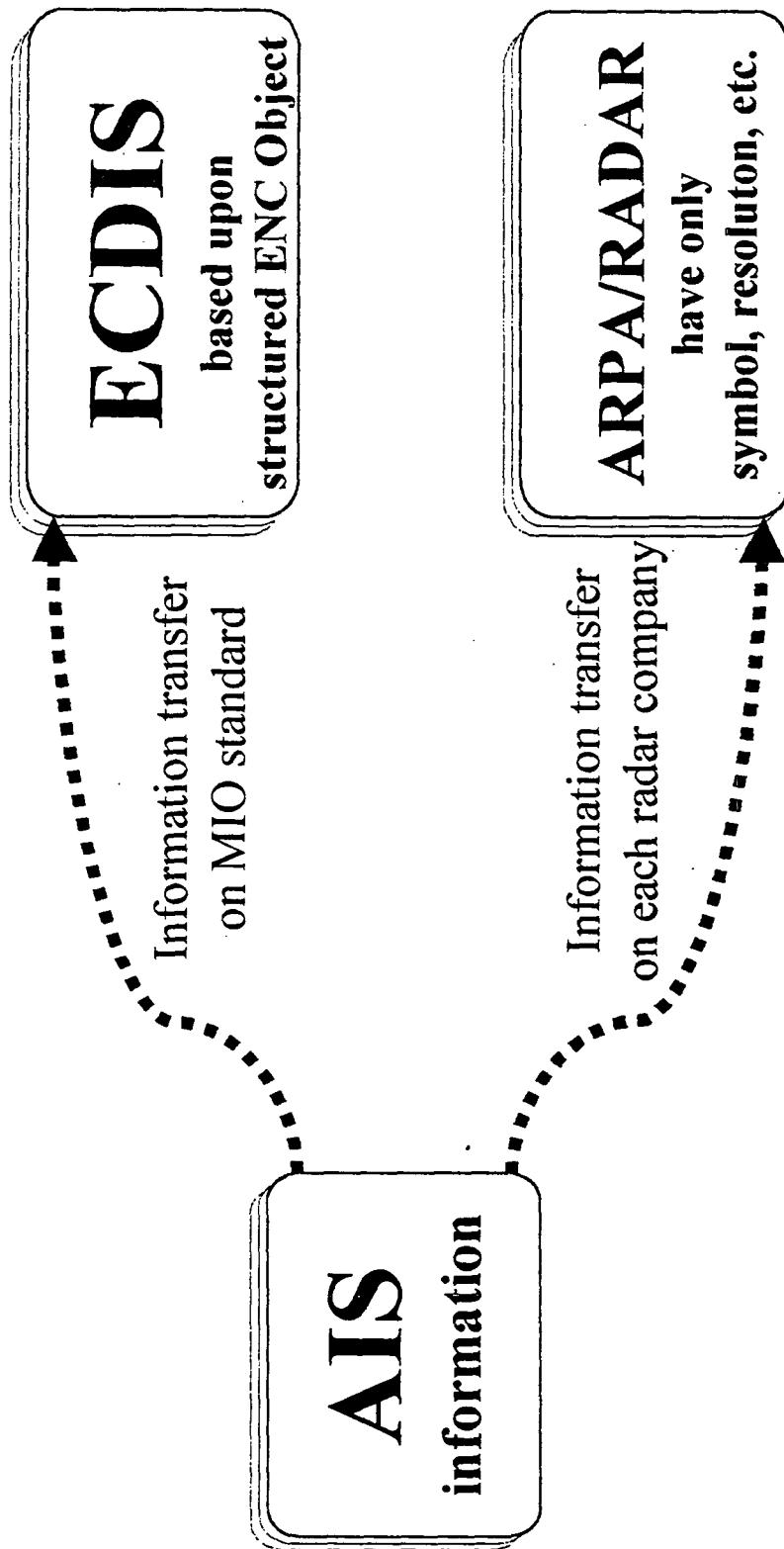


[] = Approved standard & spec
 * = AIS requirements TBD
 WIP = Work in Progress

Dedicated Display IMO WIP

International Workshop for AIS/ECDIS/VTIS

IV. Discussion of ECDIS/AIS Interface in view of Display Option



V. Conclusions

- HG on ECDIS focussed on Chart Content, Display and Updating
- Nowadays, Display option for AIS information is big Issue
 - ECDIS use an ENC of structured Object data
 - ECDIS can adopt AIS Object based upon MIO standard
 - Many Information, including AIS, should be interfaced to many digital navigation equipment
 - Needs of HG on AIS
 - Needs of Pilot Project(validation, reliability, etc.)
- From the Overview of International Activities on ECDIS/AIS/VTs
 - General HG could be necessary

V. Conclusions

- IMO Performance standard
 - *AIS should improve safety of navigation by assisting navigation of ships, protection of the environment and operation of Vessel Traffic Services(VTS), by satisfying the following requirements:*
 - *in a ship to ship mode for collision avoidance*
 - *as a means for littoral states to obtain information about a ship and its cargo*
 - *as a VTS tool, i.e. shore to ship(traffic management)*
- But more importantly, At Implementation Level, i.e. Domestic Situation,
 - ECDIS/AIS/VTS interface in technical level should be necessary