

# Maestro

## AIS Service Management (ASM)



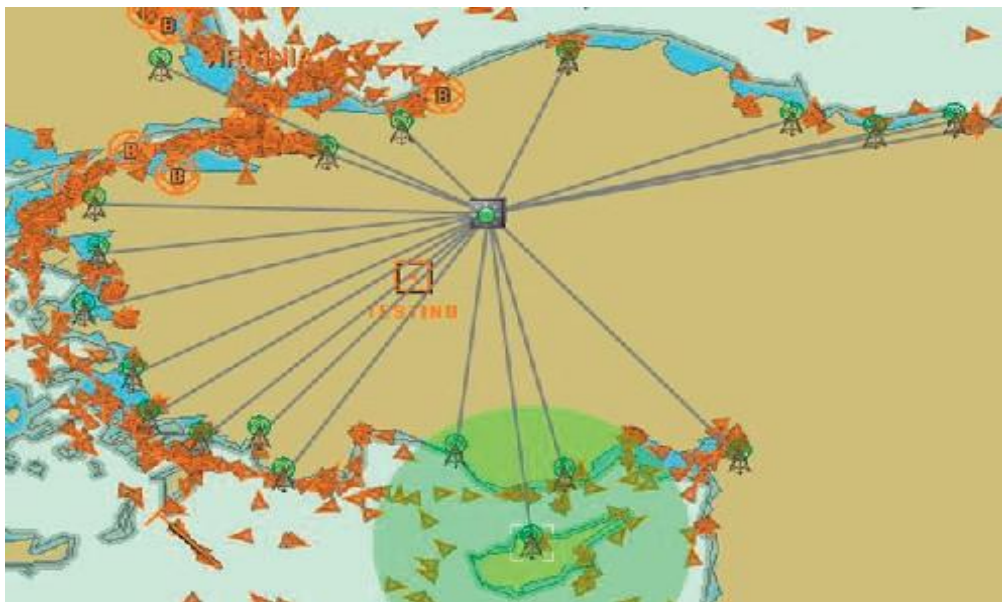
**Maestro** provides top layer control for the AIS network, supporting the functionality defined in IALA Recommendation A-124, Functionality of the AIS Service Management (ASM), Part V. It is a graphical display interface and configuration utility for the AIS network.

According to the IALA document (IALA A-124, Section 6.2), “Since the AIS Service of a competent authority will, in most cases, comprise more than one LSS, PSS and fixed AIS station, there is a need for a top layer, which acts as a controlling entity for the whole of the AIS Service.”

Maestro monitors all AIS network components including status & failure of all components, warning about failover and backup systems, user account status, and all other relevant events. From the single interface accessed via a web browser, Maestro users can monitor, maintain, and manage all elements of the AIS network. A comprehensive set of network Security features is also managed via Maestro.

Maestro is an independent process that runs without affecting the other AIS services.

- **Maestro provides a comprehensive toolset for the administration of an AIS Service.**
- **Compliant with IALA A-124 AIS Service Management.**



The Target Viewer displays all AIS Device connections



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## Features & Functionality

- Maestro users can monitor, maintain and manage all aspects of the AIS network, including :
  - Security
    - Create, edit and delete user accounts and user groups;
    - Create, modify or delete permissions for users or user groups;
    - Control password security.
  - Logical Shore Stations (LSS)
    - Manage all DataSwitch/LSS installations;
    - Create, change or remove data filters;
    - Check or change assignments of Base station to LSS.
  - Base stations
    - Manage all Base stations;
    - Force failover to redundant Base stations.
  - Visual Network Overview
    - Traffic density;
    - Network status.
- Maestro provides alarm management services including the capability to create, edit and delete alarms within the AIS service. Users can configure alarms based on availability and status. When a configurable criterion is met, an alarm is displayed both graphically and in text format.
- Maestro provides management of users, groups and associated permissions. Varying levels of security can be configured and applied such that different users (or groups of users) can be granted different permissions and access to different controls and monitoring functions.
- SNMP (Simple Network Management Protocol) traps/notifications generated by Maestro include Cold Start, Heartbeat, Shutdown and general alarms.
- The Target Viewer displays all AIS Device connections. The lines representing connections use color coding representing status of the connections: Green – no problems; Yellow – alarms on the connection; Red – connection down or offline.
- The user can create and edit customized monitoring zones, including polygon and circular zones. A list of all created zones can be displayed.
- Virtual MMSIs can be created and assigned to a user or a group of users as a unique identifier in order for an AIS device to communicate with any display client (i.e. Horizon) that the user is using.
- Provides administration/configuration tools for CNS Systems' AIS base stations, DataStore and DataSwitch applications.
- Creation and management of virtual and synthetic buoys.
- Graphical network analysis, signal strength and base station coverage plotter overlays. Visual snapshots provide administrators and users with more complete information about the overall network status and capabilities.

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