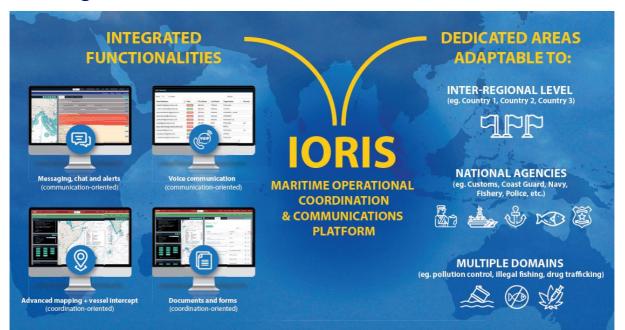


# Indo-Pacific Regional Information Sharing (IORIS) Platform

The IORIS Maritime Coordination & Communications secure platform enhances the interagency collaboration at national/ regional level. Its functions are flexible and dictated by the mandate and role of the specific centre. In its primary function, IORIS provides maritime centres with a means to plan and coordinate maritime operations, also offering command and control functions for crisis/incident management. Information Sharing Centres can use the tool to share information, whilst Information Fusion centres can share information and distribute enriched data.

### Development of IORIS based on user-oriented method

IORIS is recognised as a credible, secure and user-friendly tool, tested and tried by regional and national centres. It was launched by EU CRIMARIO in 2018 after a long process of collaboration with regional partners involving countries at all stages of the design and development process initially for the benefit of the western Indian Ocean countries. After feedback from both operational use and major exercises including Cutlass Express 19.1 & 19.2, an updated version 2.0 was released on October 2019.



#### IORIS designed to be a flexible and neutral tool

The integrated modules are designed to achieve: (a) coordination of maritime operations including real time management of incidents at sea; (b) information sharing in a secure and flexible environment; (c) secure communications between users (national agencies, regional centres); and (d) providing autonomy of data control to members and access rights for their respective designated areas. This tailor-made platform includes the following key functions:

Multiple areas: ability to manage day-to-day coordination, collaboration, information sharing, • communications and operations within their respective maritime community in a private and secure environment by creating dedicated areas for each regional centre, national centre, local organisations, incidents or operations. Moreover, IORIS offers users the ability to remain in a Single Information Sharing Environment (SISE) by providing the instant capability to switch from private community to any IORIS community as required.

Messages: An instant 'messages' area is provided within each area created and is private to all members within that group. Information exchanged here is usually related to routine daily exchanges, operations, or incidents, and once posted is permanent. The 'messages' feature provides an ideal record of events that can be output to PDF for archiving or legal finish if required.







▶ <u>Private chat</u>: Users can utilize a secure chat feature either 1 to 1, or group chat to exchange information and discuss in privacy. Access is in total confidence and not available to anyone outside of the chat group.

➡ <u>Audible notification</u>: Notification for all new messages includes an audible alert. In addition, high priority messages can add an 'Alert' that displays the message with a prominent visual red banner on screen in additional to the audible alert. Email notifications will also be sent to notify users who are not logged in.

➡ <u>Voice over IP (VoIP)</u>: VoIP provides an integrated voice capability where maritime centres and IORIS users can connect with no associated call charges.

➡ <u>Advanced mapping</u>: using open-source maps and dedicated nautical charts (inc. integrated EEZ overlay), the module allows the import and export of maps and navigation markers, to plot various marker configurations. Additional manual overlays can be added by users. It also shows the range of vessels based on the last known direction of travel and estimated speed to extrapolate where a vessel might be now.

➡ <u>Vessel intercept</u>: A vessel intercept function is included which can determine the optimal course and speed to intercept a vessel or target of interest within the mapping features. This feature is quick and easy to use and once the solution is formulated, it can be shared on the map along with an alert within the IORIS messages area.

➡ Document feature: A set of folders are created by default when an area is created. The user can easily upload files, add additional encryption if require, send for release, share, view documents, delete etc.

➡ Forms: Developing cases can be documented using pre-formatted reports to ensure a fast and efficient sharing of information.

▶ Interoperability: IORIS is already interoperable with SeaVision, the maritime situational awareness tool developed by US Navy and US Department of Transportation. CRIMARIO is also exploring further interoperability opportunities with other platforms and data sources such as satellite AIS and RF Satellite services.

➡ Low bandwidth feature: Deployed patrol vessels and aircraft with low data can use IORIS by switching to a 'low bandwidth' version. This will switch off the main mapping function, but retain the messages, private chat and access to files functionality.

➡ <u>Multilingual</u>: The current menu options are in English, French, Portuguese, Somali & Arabic. Additional languages are foreseen and can be added on request.

➡ Area management: designated area administrators at the national and/or regional level will define individual operational areas, access rights and the membership for centres, local organisations or incidents.

IORIS has 2 identical platforms: IORIS Live and a mirror platform utilised for training and exercises.

Organisations and users can request access to IORIS training at any time for internal use, or CRIMARIO supported Training / Exercises.

## Special attention to the security and the sustainability

The IORIS platform is **only accessible to authorised users / centres / administrations** designated by partner countries, maritime centres and regional organisations. IORIS incorporates the latest technologies for ensuring a robust level of security in a web-based hosting environment. IORIS is a cost-effective solution offering low running costs to ensure a long-term sustainability.

#### Growing number of trained and connected users

A full training package is available, including user guide, training curricula, and training videos. An ongoing training programme, delivered by a pool of certified instructors, ensures a smooth deployment of the platform.

The IORIS platform is already used by 19 national and regional maritime agencies from 12 countries & organisations in the Indo-Pacific, including Comoros, Djibouti, Jordan, Kenya, Madagascar, Maldives, Mauritius, Philippines, Réunion, Saudi Arabia, Seychelles, Regional Maritime Information Fusion Centre (RMIFC, Madagascar), Regional Centre for Operational Coordination (RCOC, Seychelles), EUNAVFOR Atalanta JOC and EUNAVFOR Atalanta FHQ. Additional requests are frequently received by the CRIMARIO team on a daily basis.

A request for access to IORIS platform can be officially requested by countries and regional organisations by contacting <u>dave.nattrass@crimario.eu</u>.