

KNOWIT DATAUNIT

CIMIC3 – civil and military C3 System[®]

CIMIC3 is a Command, Control, and Communications System designed for use in both military and civilian applications.

- Collaborative planning with sharing of data
- Message handling with support for multiple types of concurrent data links through the InCS Communications system
- Correlation

Provides seamless near real-time sharing and creation of the Common Operational Picture (tracks, messages, and map overlays) between network participating units. CIMIC3 can communicate using multiple links, civilian and military, and can be used to achieve interoperability with naval data links and formats.

SITUATIONAL AWARENESS

CIMIC3 supports both civilian and military needs where a situational awareness is required. By using CIMIC3 multiple units can collaborate in the creation of a common operational picture (COP) containing own and other unit's location and activity, position and status of important objects (stationary units, bridges, roads, areas and track movement history etc.)

CIMIC3 provides the tools to obtain situational awareness and supports:

- Contributing to and sharing a common operational picture (COP)

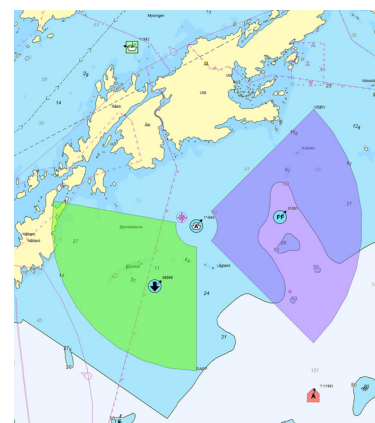
EXTERNAL COMMUNICATIONS

CIMIC3 implements a very flexible communication solution by using the InCS communications system. This solution supports all Swedish Navy national data links as well as international standards such as ACP-127, AIS, Mode-S/ADS-B, ACP-127, OTH-T GOLD, ADatP-3, NFFI and JREAP-C.

Network communication can easily be realized through an IP-capable solution such as HF-radio, GS-M/3G/4G or satellite connection.

MAP AND INFORMATION LAYERS

The Carmenta Engine is used to display vector and/or raster based charts. Additional, selectable, layers on top of the map provides the common operational details with tracks, areas, bearings, markers and images. Symbols used are in accordance with APP6-B/MIL-STD-2525B.



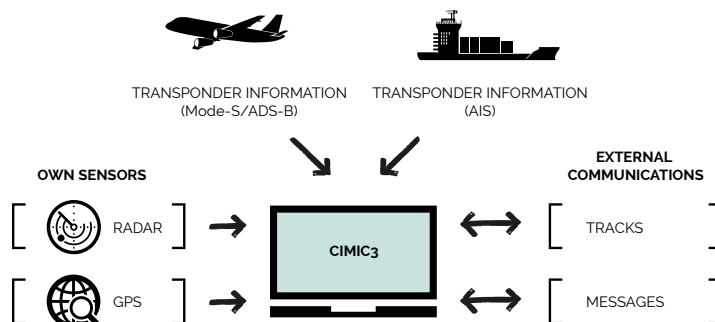
CIMIC3 showing a Baltic Sea area with search and fishing areas as well as multiple ship tracks

INFORMATION GATHERING

- Ship radar data provides tracks
- AIS transponder information provides rich information about ship tracks, both local and internet feeds supported
- Mode-S/ADS-B provides information from air crafts
- GPS provides own position and time

REFERENCES

Some parts of CIMIC3 is integrated within the Combat Management System on board the Swedish Navy Koster Class mine countermeasure vessels and the InCS Communications system (In Sweden called ISIS) is used on all data link capable Swedish Navy ships. CIMIC3 was used by the Swedish Armed Forces during NATO CWIX 2008, 2009 and 2016. ISIS has been used by Swedish Armed Forces during NATO CWIX exercises since 2008.



An example of CIMIC3 on a ship

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