ISOCDF®
Integrated Surveillance and Observation Center – DF

ISOCDF is a highly specialized solution designed for radio direction finding (DF) and locating transmission sources. **ISOCDF** is part of the ISOC family spectrum management tools and systems available from Aerosystems International.

One of the powerful features of **ISOCDF** is its capability to generate offline and online DF log files, or scanning files. The playback utility of the **ISOCDF** can play back the collected log files and synchronize all lines of bearings (LOBs) from different sites to create probable transmission points (PTP) and generate a log file containing the integrated LOBs. Since all DF sites are equipped with a GPS, all DF sites are time synchronized, which makes the integration of the LOBs from different sites and the generation of PTPs a very possible task.

ISOCDF is an integrated hardware/software, client-server application that runs under the latest versions of Windows Operating System.

Major Features

ISOCDF allows users – from across the room or across the globe – to operate direction finding equipment from a computer-generated virtual rack. Graphic representations of the equipment provide **full remote control** of the sensors. The following functions are fully implemented and supported:

- Retrieving the Line of Bearing (LOB) from each site
- Determining the bearings to be used for the location calculation
- Executing the triangulation algorithm over digital maps
- Calculating the uncertainty ellipse and the coordinates of the probable transmission point (PTP)
- Listen to and record an audio signal on a given frequency
- Connecting to remote DF sites
- Synchronizing the DF LOBs

For more information on ISOCDF®
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ISOCDF

ISOCDF also allows manual site entries and simulation modes. This is especially useful when a network connection is not available between a DF site and its control center.

The operator may keep track of all reports by maintaining a history of the current real-time connection. This allows review and playback at a later stage.

The system may also display transmitters and their location on the map. This works in conjunction with the station information database.

Finally, report generation is also supported. The operator may generate a printable report containing useful information such as monitoring sites, PTP, snapshots, etc.
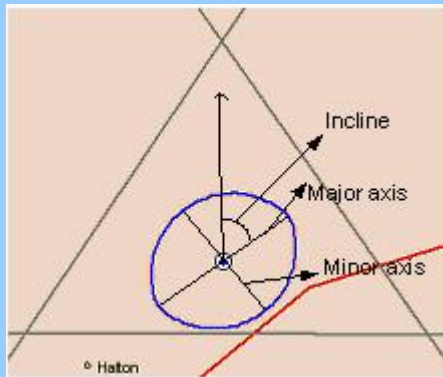

DF Report

Report Time and Date: 11:41:29 - Tuesday, September 27, 2005

Site Name	Site Lat	Site Lon	Site Type	Bearing	Bearing Time	Frequency	Site Status
site1	43.0000	-79.1667	Fix Site	325.00 deg	14:34:03	162.5500 MHz	
site2	44.0000	-79.5000	Fix Site	214.00 deg	14:34:03	162.5500 MHz	
site3	43.5908	-80.7703	Fix Site	90.00 deg	14:34:03	162.5500 MHz	

PTP Lat	PTP Lon	Uncertainty Ellipse Major Axis	Uncertainty Ellipse Minor Axis	Incline
43.6092	-79.8097	4.69 km	3.82 km	56.00 deg