JRT
Java Radar Tracker

FEATURES AND FUNCTIONALITIES

:: Developed in advanced software languages

:: Standard communication protocols (TCP/IP, UDP/IP)

:: Modular software design

:: Designed to allow evolutionary upgrades and cost effective enhancements

:: Processing of Radar data coming from both rotating and no-rotating radar antennas

:: Synchronous and asynchronous tracks update

:: Easy to be configured/integrated in terms of:

- conversion from any external radar native format into the internal format

- messages' distribution compliant with the customer needs in terms of number of external users and their related data formats

:: Easy to be integrated with equipments provided by third parties: the tracks elaborated by JRT can be easily integrated in an Air/Naval Traffic Control System, either as input to a Multi-Radar Tracker component or directly as input to a Radar Display

JAVA RADAR TRACKER FOR AIR / NAVAL SURVEILLANCE SYSTEMS

In an Air/Naval Traffic Surveillance System, a radar tracker is the component in charge of the association of consecutive radar observations (plots) of the same target into tracks. Its main scope is to monitor consecutive updates coming from the radar extractor (Primary or Secondary) and to identify plot sequences related to the same target.

JRT performs the processing of radar data (plots) coming from the connected radar source.

JRT performs mono-radar tracking by the following activities:

- plot to track association: association of a radar plot with an existing track

- track updating: track's kinematic data update with its latest plot

- track initiation: initialization of new tracks starting from not associated plots

- track navigation: the prediction of a target's kinematic data, based on its latest heading and speed, is performed for all of those tracks no more detected by the radar

- track deletion: deletion of a track after a certain number of missing updating

JRT sends the elaborated data (tracks) to other applications for displaying or for other activities:

- track main attributes are: unique identifier (track number), position, speed, and (depending on the radar source) other target identifiers as Civil SSR Modes and Call Sign

JRT

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