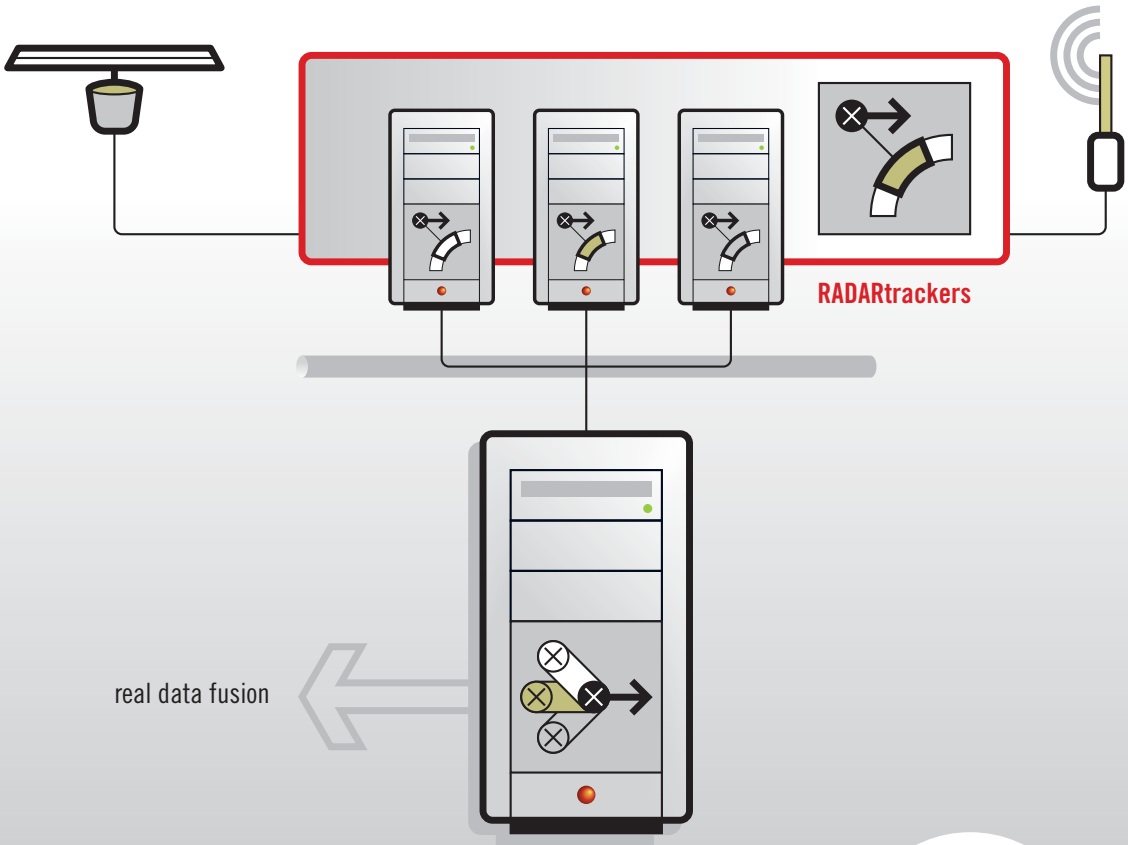
combines the information

MultiSensor Tracker

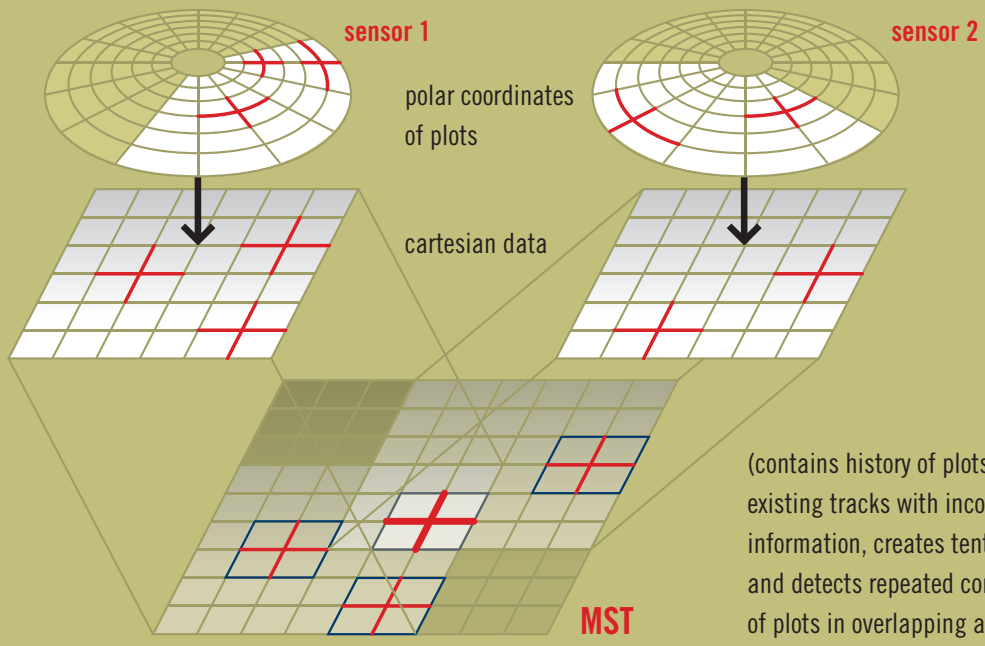
MultiSensorTracker (MST) processes and correlates data provided by different sensor types (e.g. Radar, AIS) in order to produce system tracks that are updated by one or more sensors.
Flexible input filtering assures sensor specific data preprocessing and prevents undesired target merging.
The core component of MST is a state-of-the-art extended Kalman filter algorithm which provides real sensor fusion and leads to a higher tracking accuracy compared to common alpha-beta-trackers. Due to asynchronous data processing chains, MST processes all sensor data incoming, even if it is delayed.
Internal model kinematics and observation equations can be easily adapted to domain and sensor specific parameters. Delivering high performance, MST has no restriction on number of input sources, and is able to maintain thousands of system tracks thousands of system tracks system tracks on standard PC hardware.

Sample configuration of MultiSensorTracker



A product of **innovative navigation**

Functionality of MultiSensorTracker



(contains history of plots, correlates existing tracks with incoming track information, creates tentative tracks and detects repeated confirmation of plots in overlapping areas)

Highlights

- *Plot/track processing from radar and AIS*
- *Standardized ASTERIX and NMEA interfaces*
- *Real data fusion (no mosaicking)*
- *Asynchronous data processing, allowing data fusion of input data with different (and varying) sampling rates*
- *Flexible special area handling (non automatic acquisition, dead zones, …)*
- *Multiple-Hypothesis Tracking*
- *Multiple Model Support*
- *CPU input and output load handling*
- *Modular structure, allowing hierarchical and fully redundant dual chain set-ups*
- *SNMP interface and CORBA*
- *Standard PC hardware and standard operating system (MS Windows XP™ and Linux) for maximum system stability and maintainability during long term operation*

in innovative navigation GmbH

Further information about recent developments of innovative navigation systems can be found on the homepage:
http://www.innovative–navigation.de

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