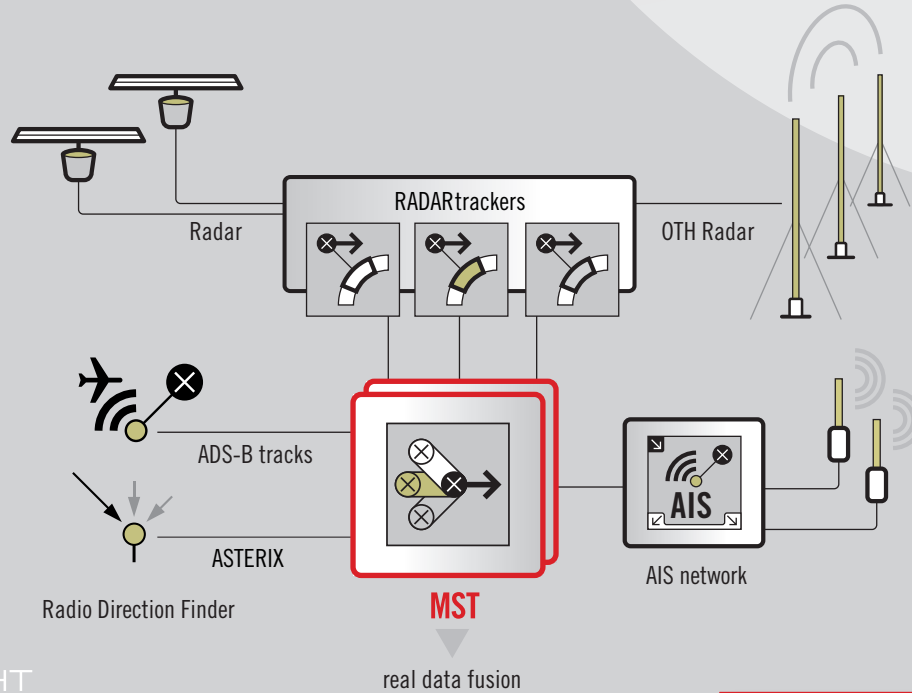


# MST

MultiSensorTracker



SECURE in SIGHT

Sample configuration

## MST - High level data integration

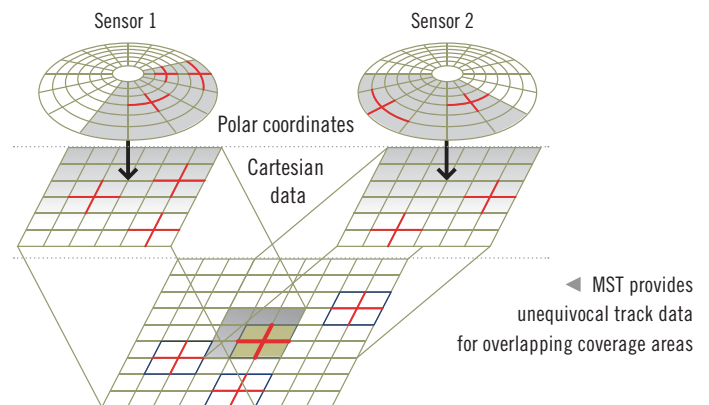
To coordinate and monitor shipping traffic in areas with high traffic volumes, reliable and accurate information on time is essential.

**MST** (MultiSensorTracker) is the core component of each VTS/CSS system. It fuses all sensor information from local and remote sources and provides consolidated traffic data. Different sensor types like radar, AIS, OTH radar, CCTV, and RDF may be integrated for updating vessel tracks.

All measurements for a specific target are assigned unequivocally to one track. **MST** can determine reliably speed, course and even heading of a vessel based on radar images only. Furthermore, vessel shape estimation by **MST** is available providing the basis for eventually necessary corrections. An unlimited number of tracks is processed in a redundant setup.

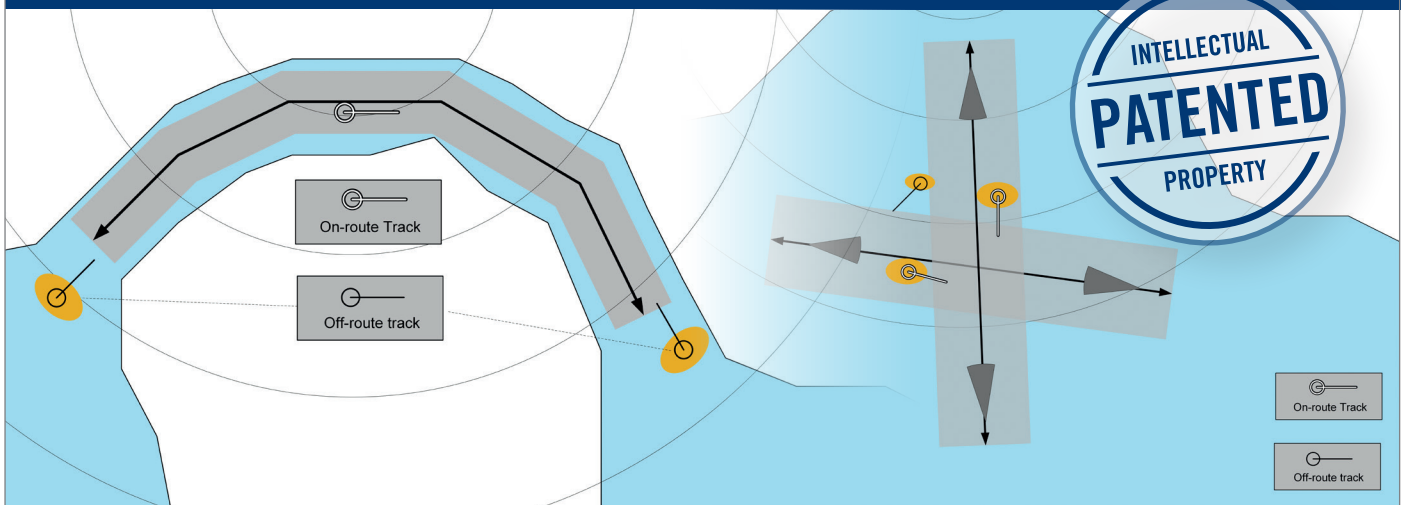
Track continuation is automatically performed if sensor coverage areas are overlapping, or in case of shading. The unique method to provide exact predictions of vessel positions has been patented.

**MST** also fuses data coming from sensors installed on mobile units with data detected from land-based sources, thus, confirmed track data can be made visible on according mobile display systems, even when the sensor on board does not detect them, and vice versa.





## Patented route processing by MultiSensorTracker



## Highlights MST

- Patented method for track processing
- Processing data from different radar sensors and AIS network
- Integration of over the horizon radars
- Integration of ADS-B tracks, RDF (Radio Direction Finder) data, and additional sensors using ASTERIX data, e.g. underwater sonar
- Unlimited number of input sources
- Standardised ASTERIX and NMEA interfaces
- Real data fusion (no mosaicking) based on state-of-the-art extended Kalman filter algorithms
- Asynchronous data processing, allowing data fusion with varying sampling rates
- Reliable heading and shape based on radar plots
- Flexible special area handling (routes, warning areas, non-acquisition zones)
- Proven capability of handling several thousands of targets
- Multiple hypotheses tracking
- Multiple Model Support
- CPU input and output load handling
- Hierarchical and fully redundant dual setups
- SNMP monitoring
- Operable on standard PC hardware
- Available for MS Windows™ and LINUX

Further information about recent developments on:  
[www.innovative-navigation.de](http://www.innovative-navigation.de)

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