

Designed with the controller in mind

Advanced Air Traffic Management Systems

Chelton's RDS products have been at the heart of both civil and military Air Traffic Management Systems for over 30 years and 20 million operational hours*.

We are specialists in the design, development and integration of Surveillance Data Processing and Display Systems whether you're on land or at sea.



Delivering Controller Assurance

RDSControl includes Safety Net Server with features such as Minimum Safe Altitude Warning, Short Term Conflict Alert, Area Proximity Warning and Approach Path Monitoring. Upon any occurrence, targets and labels are changed to the relevant violation colour along with a flashing annunciator to draw attention.



Fully Compliant

The RDS portfolio has been developed to UK CAA, Eurocontrol and ICAO specifications meaning not only are they safe to use but securing safety case accreditation for use within your airspace is assured.



Dynamic Mapping

RDSControl supports a Dynamic Mapping capability which allows the user to quickly generate a map which can be saved over the network to the Map Server. These would offer a different use to controllers as opposed to pre-defined map overlays.



Military and Civil Applications

Building on its strong Military design, Chelton RDS has developed into a fully capable modern Advanced Air Traffic Management System providing ATCOs complete assurance.



The Heart of your System

The RDSControl Display is the heart of your ATMS - as such we tailor it down to the finest detail. Designed initially to track missiles, the Radar Display has developed into a robust & practical piece of ATC software thanks to our close relationship with Air Traffic Control Officers.



Robust and Reliable

We provide the Chelton System Safety Assessment. This details every aspect of your system down to component level, hours in use, MTBF rates & compliance matrix to governing Aviation Authority regulations.

More than just the ATMS

We know there is more to Air Traffic Management than just the Radar Display System, so to offer a complete solution for your requirements we have built strategic partnerships with innovative companies enabling us to support programmes of all sizes.

Through our relationships & partnerships, we are able to provide:

- ✓ Primary & Secondary Airfield Radar Sensors
- ✓ Multilat Radar Sensors
- ✓ Surface Movement Radar Sensors
- ✓ Electronic Flight Progress Strip Systems
- ✓ Flight Information & Meteorological Systems
- ✓ Data Recording Systems
- ✓ Direction Finder Systems
- ✓ Voice Command & Control Systems & Radios



Scan to request a full brochure



RDSTrack

Windfarm Mitigation Data Combiner

Whilst windfarms are a reliable source of sustainable energy, they are an operational challenge for Radar Systems and subsequently for Air Traffic Control Officers. Clutter generated from sensor returns off the turbines can interfere with actual Aircraft returns, resulting in large no-fly areas and unnecessary clutter on the radar display.

RDSTrack offers a smarter, lower cost alternative to a substantial radar sensor replacement, by using either other local radar sources or infill sensors to seamlessly create a clutter free air picture.



RDSFleet

Shipborne Radar Display System

RDSFleet provides naval vessels with the highest standard of military air traffic management capabilities which is further supported by its compliance to land-based regulations. It is certified to work within the complex naval environment, involving multiple operational surveillance radar and a range of other sensor sources to provide complete situational awareness.

RDSFleet seamlessly integrates proven naval combat management systems (CMS) with the certified air traffic management system ensuring that controllers can effectively manage their operational air picture, supported through advanced safety nets and arrival sequencing.