

## RDSFleet

Naval Air Traffic Management System

The RDSFleet provides en-route and approach Air Traffic Control for the naval environment. 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 provides naval vessels with the highest standard of military air traffic management capabilities which is further supported by its compliance to land-based regulations.

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.

### Key Features

- Military Aviation Authority (MAA) Certified
- Arrival Management to enable automated sequencing of arrivals
- Flight Data Planning to ensure improved efficiency
- Safety Nets provide real-time alerts to air traffic controllers
- Configurable user interface to reduce controller burden

### Why RDSFleet?

- ✓ Designed with the controller in mind
- ✓ Dual redundancy for complete operational readiness and to mitigate downtime
- ✓ Complete system independence
- ✓ High Mean-Time Between Failure (MTBF)
- ✓ Integrated 24/7 on-board radar data recording
- ✓ Real time on-board mapping to ensure operational accuracy regardless of location
- ✓ Low training burden



# CHELTON

## Chelton boards Queen Elizabeth Class (QEC) Aircraft Carriers

Since 2018, HMS Queen Elizabeth has been equipped with Chelton's own revolutionary RDSFleet shipborne radar display system.



Credit: Jay Allen UK MOD © Crown Copyright 2022

Designed specifically for the naval environment, whilst incorporating the required regulations defined for the land environment, RDSFleet boasts a highly adaptable Arrival Management system with the ability to accommodate the full breadth of carrier-based air platforms – from vertical-landing aircraft such as the F-35B, to rotorcraft like the Merlin Mk2s and Chinooks. This approach ensures future proofing for other naval vessels operating with airborne assets such as Frigates, Destroyers and Fleet Auxiliary.

Even after take-off, RDSFleet's Moving Map Radar Display and Safety Net Processing modules ensure support teams aboard are equipped with a host of valuable data including altitude warnings, conflict alerts, and a virtual 'airfield' showing the naval environment the aircraft are operating in.

Chelton continues to receive positive feedback regarding the reliability, usability and servicability from users on HMS Queen Elizabeth.

### Safety Net Capabilities

#### STCA

##### Short Term Conflict Alert

A two-staged safety net designed to alert an operator to the occurrence of aircraft-to-aircraft distance and altitude violation. Each violation stage applies a unique colour to the applicable targets, quickly informing controllers of the level of violation.

#### MSAW

##### Minimum Safe Altitude Warning

Designed to alert the operator when an aircraft is descending dangerously close to the ground. When an operator hovers the cursor over a configured MSAW region, the Graphical User Interface displays the MSAW parameter, keeping the operator informed and helping to prevent violations before they occur.

#### AIEW

##### Air Incursion Early Warning

Designed to alert the operator when a target breaches a pre-defined operational envelope relative to the vessels location, which is presented to the operator as an enhanced target, through colour and symbology.