

## Capacity and Demand Forecasting Service

The Capacity and Demand Forecasting (CDF) Service provides customers with a picture of the expected traffic loading at UK aerodromes and within UK airspace.

### Service Description

NATS' CDF Service combines capacity and demand forecasting for the short term (tactical) and medium / longer term (planning) to provide an accurate view of predicted traffic loading in aerodrome and airspace environments. The information provided by the CDF Service allows customers to plan more effectively and supports a proactive approach to Collaborative Decision Making (CDM), increasing efficiency throughout the operations.



Capacity and Demand Forecasting Service

The solution is presented through histograms which are customer-selected to supply information on specific airspace volumes and time periods in the future. Departure route loading, planned sectorisation and known capacity constraints are integral to the information presented.

The CDF Service improves operational awareness for customers by providing a rolling picture of the local and network situation.

### Benefits

The key benefits of the CDF Service are:

**Common view:** Shared UK ATM Network view of the predicted traffic loading for all customers, reducing the need for manual communication

**Accurate forecasting:** Capacity and demand forecasting based on 4D trajectory prediction and constraints from a variety of sources

**Network understanding:** Insight into emerging network situations

**Modern technology platform:** Utilises the latest flight data processing advances

**Planning information:** Predictive medium and long term view of aerodrome and airspace traffic loading



## Service Features

- **Browser-based display:** Read-only representation of the hourly traffic loading for a selected aerodrome or airspace for the current day

- **Traffic display windows:**

- Summary area for a selected aerodrome, airspace volume or reference location for the current day - presents an overview of the traffic situation and provides a first indication of imbalances between demand and capacity

- Histogram showing loading of individual airspace element (e.g. sector or airfield)

- Interactive, searchable flight list

- **Filtered view:** Customer selectable parameter filtering for the summary area and histograms to show workload, occupancy, 10 minute Entries and hourly Entries

- **Connectivity options:** to suit the customer's availability requirements

**Pre-Requisites / Dependencies:**

- A web client certificate will be required to access the application

- HTML5 onwards compatible web browser

- The HMI is optimised for 43 inch monitors with 4K resolution



## Service Delivery

The CDF Service is accessible 24 hours a day, 7 days a week.

Technical assistance is available, as a minimum, during office hours.

Customer user training and technical support for installation and integration are available, along with supporting documentation.

## Further Information

Please contact NATS for service package and price details:

✉ [CustomerFacingServices@nats.co.uk](mailto:CustomerFacingServices@nats.co.uk)

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Version: V10119