

Success Story

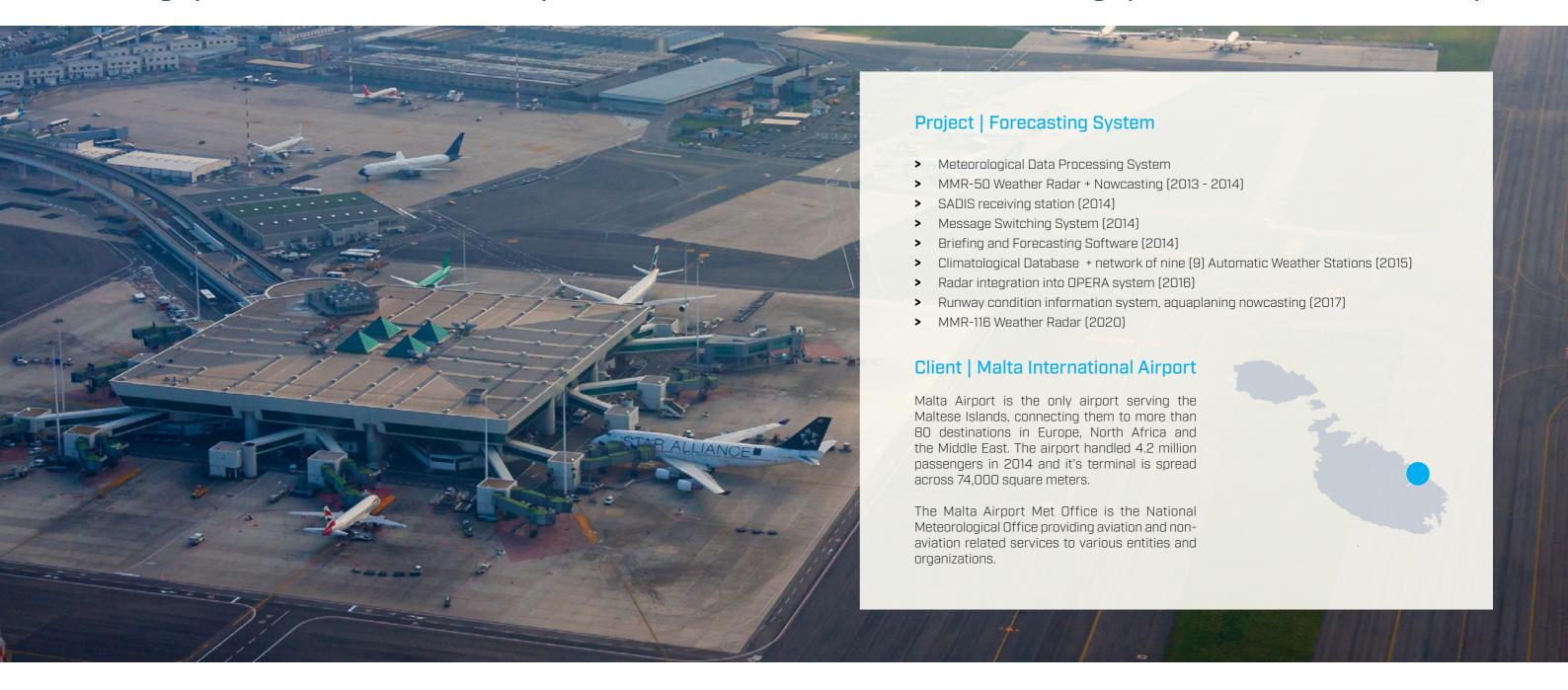
Forecasting System for Malta International Airport



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MicroStep-MIS started cooperation with Malta International Airport in 2012. The first project that we delivered was the installation of a Radar MMR.

In this project, we used the previous radar shield and replaced the non-functioning radar with the latest technology. Mini Meteorological Radar MMR is unique portable X-band weather radar which provides real time insight into the weather situation up to a 200 km range. The radar by MicroStep-MIS answers the needs of MIA for weather monitoring. Additionally, real time data is also updated on a daily basis on the website of MIA www. maltairport.com



"MicroStep-MIS' small and compact radar is designed for all-weather phenomena. Its unique features make it suitable for assisting meteorologists in their day-to-day work. Distinctive as it has a user-friendly interface with other met-systems. A truly indispensable and worth investing product for met-forecasting."

- Joseph Schiavone

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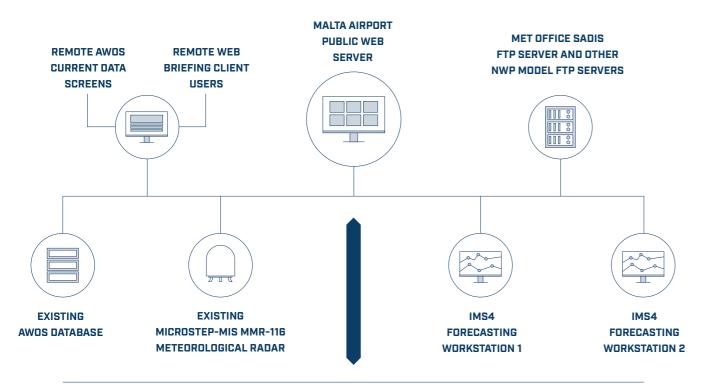
MIA was satisfied with the Radar MMR and we have received another order, this time to work on the delivery of software solutions. In 2014, we installed IMS4 Briefing which supplies meteorological information to aviation users in order to ensure the safety and regularity of air navigation.

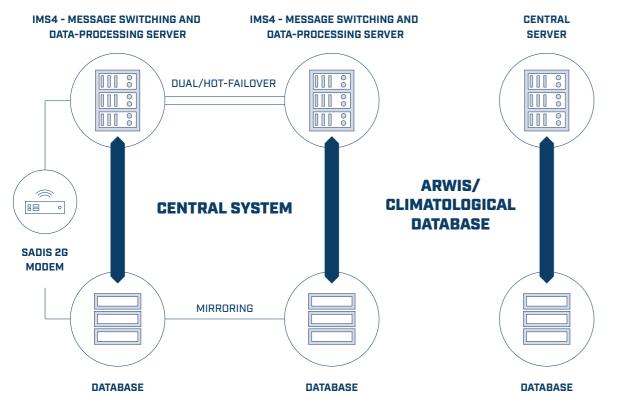
خخر 16°C

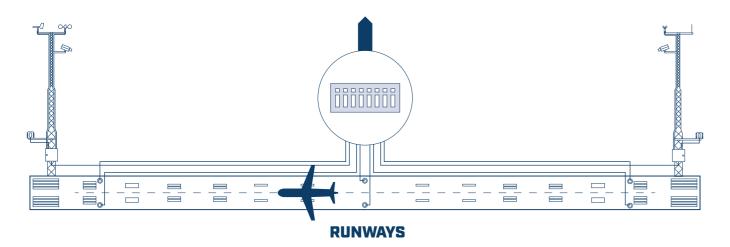
Afterwards, we started to develop the new IMS4 Weather Studio designated for forecasters. It is a tool for processing, analyzing, and graphic presentation of meteorological, radiation and climatological data. During the customization phase we have paid special attention to the needs of forecasters and tailored the solution according to their preferences.

precipitation, solar radiation, air and soil temperature, relative humidity, atmospheric pressure, wind speed and direction. This extension is still in progress. So far, 6 AWS stations have been installed and we have trained staff to install the remaining 3 stations.

In 2015, we delivered 9 AWS stations which measure Based on the excellent level of cooperation and top quality of MicroStep-MIS technologies, the customer decided to replace the MMR-50 by the new Mini Meteorological Radar MMR-116. The new radar provides data in higher quality.







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Selected forecasting products:

- Wind+Temp chart A AMERICAS, B EURSAM, C EURAFI, D EURASIA, E INDOC, EURO, F PACIFIC, I PACIFIC (NORTH PACIFIC), J SOUTH POLAR, M PACIFIC NORTH, MID, NAT levelys 100 hPa (FL530), 150 hPa (FL450), 175 hPa (FL410), 200 hPa (FL390), 225 hPa (FL360), 250 hPa (FL340), 275 hPa (FL320), 300 hPa (FL300), 350 hPa (FL270), 400 hPa (FL240), 500 hPa (FL180), 600 hPa (FL140), 700 hPa (FL100), 850 hPa (FL050)forecasts: Forecast + 6h, Forecast +12h, Forecast +18h, Forecast +24h, Forecast +30h
- Upper air forecasts from NWP
- Cross section
- BUFR coded SIGWX
- Station model
- VAG (volcanic ash)
- · Custom charts: isobar charts, wind charts

Text forecasts prepared manually using web forms:

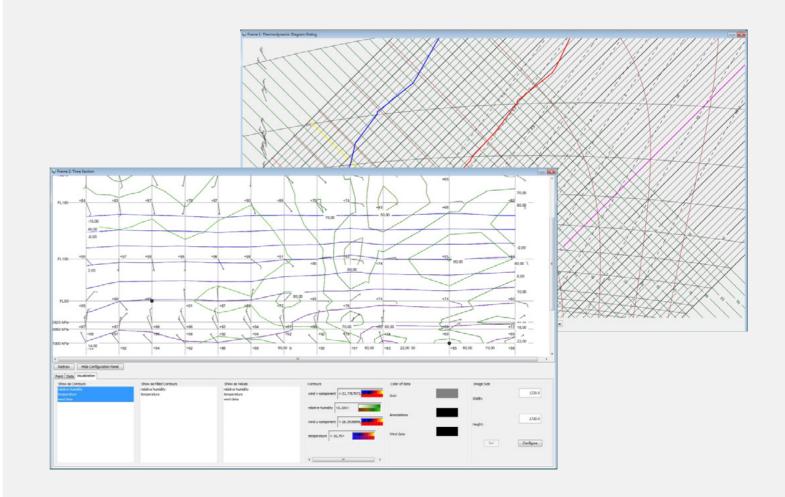
1x daily: 2-day Airfield Forecast, Five Day Forecast 2x daily: Local Area Forecast

Irregular: Marine Forecast

Blight Forecast, Civil Wind Warning, Marine Wind Warning, Forecast Request, Heat Advisory, Preliminary Gregale Advisory, CPD Precipitation Advisory, Current Conditions, Weather Report, Occurence Report, Precipitation Advisory, Sigmet Free Text, Luqa Airfield Lightning Activity Level, CPD Lightning Activity Level, Strong Winds Advisory

Radar products:

- PPI (Plan Position Indicator) one radar elevation
- · CAPPI (Constant Altitude PPI) horizontal cross section
- RHI (Range Height Indicator) vertical cross section
- Echo Tops heights of cloud tops
- Composite Reflectivity (Column max) maximas in columns
- VIL (Vertically Integrated Liquid Water) column sums
- · Rainfall Accumulation
- · Storm cell identification
- Storm cell nowcasting
- OPERA composite radar situation



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Briefing products: pre-flight information

bulletins:

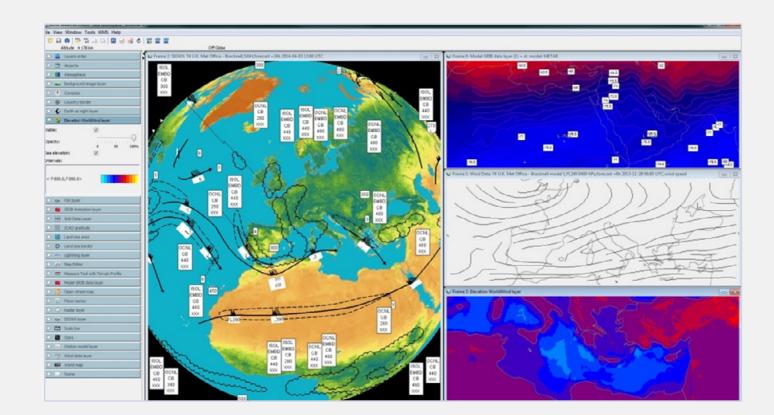
- Flight information
- · Takeoff forecast, landing forecast
- OPMET data
- Upper wind/temperature charts
- SIGWX charts
- Other pre-selected information

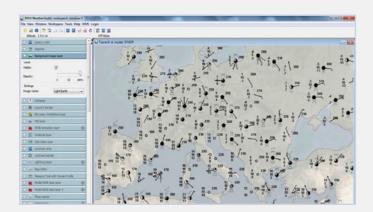
Cross sections:

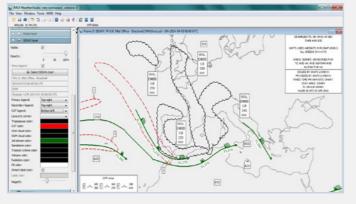
- Temporal profiles
- Multi-parameter spatial cross sections
- Thermodynamic diagrams (Emagram, Stüve diagram, Skew-T log-P, Tephigram)

ARWIS / Runway Condition products:

- Runway Condition Report
- Runway condition alerts (detection + nowcasting)

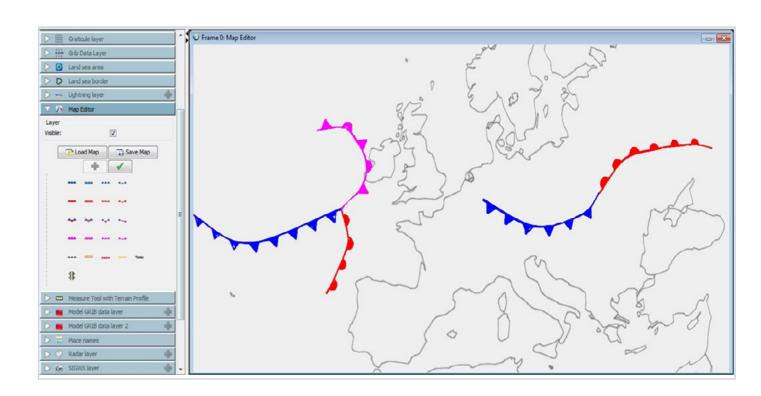


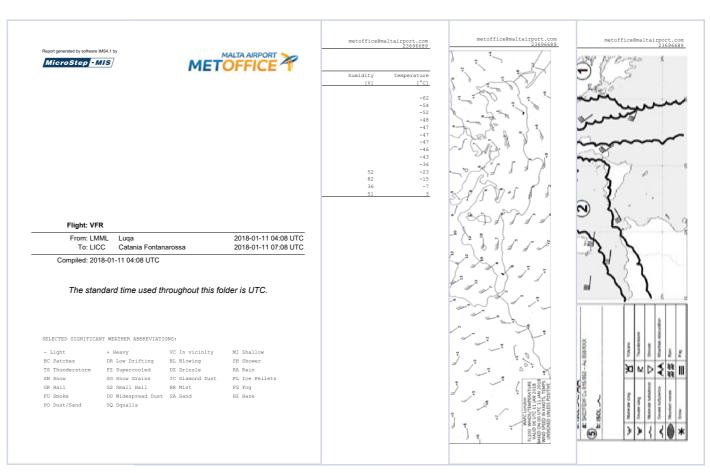




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Pre-flight information bulletin example

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CONTACT US

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