



IRIS

Integrated Real time Information System



The purpose of IRIS

Originally developed for AVINOR, Norwegian CAA, with the purpose to:

- Create a real time information system, that integrates the surrounding systems on a site to one common flexible presentation.
- The system shall contribute to a efficient information support to ATS personnel at both TWR, APP, TMC and ACC positions and units.
- The system shall work as a "common baseline" for future ATS projects.



Current IRIS sites.

IRIS is currently installed at ATCC, TMC and airports. Approximately three hundred h24 operator positions





Efficient information support

Static information

- Maps, Publications (AIP, AIC e.g.), Manuals
- Site specific information and regulations
- Conversion tables and tools
- Quick reference cards
- Sunset/night and sunrise/day

Dynamic information

- AFTN messages (METAR, SPECI, TAF, TAF/AMD, SIGMET, NOTAM, SNOWTAM, WINDSHEAR, LLF, QNH, ICE, IGA)
- Wind Indicator
- Weather sensor values
- Graphical weather charts
- Video (snapshot and streaming)
- Information about current status of navigation aids
- Airport and flight information
- Status of external equipment

<u>Internal communication between operators</u>

- Briefing, simple or extended
- System messages and alerts

Flight plan information

- Flight plan support system, monitoring of terminated flight plans.
- Search and print
- Tailorised alerts on incoming data

Statistics

Logging of operational time for each operator.



IRIS HMI

- Component-based layout tailorised for each position.
- Configurable by the customers system administrator.
- Placements colors, fonts, sizes and more is controlled by "Variable System Parameters" database.
- Operating system independent
- Module based and easy to integrate with legacy systems.

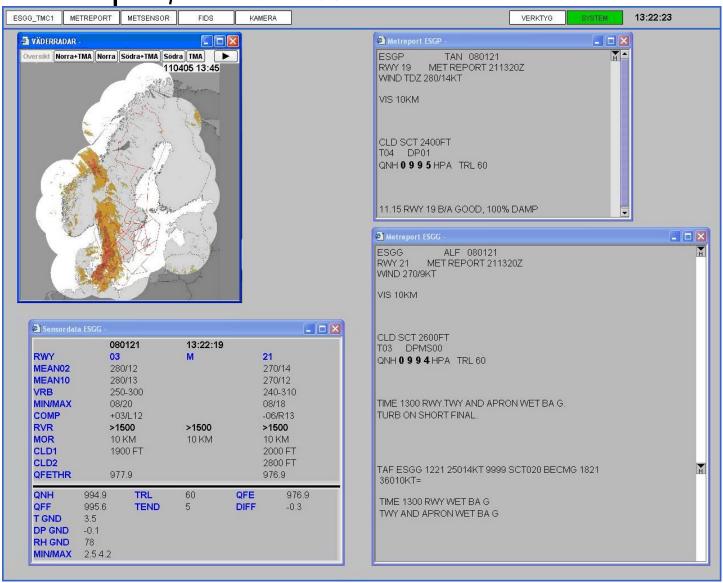


HMI example, OSLO ATCC (APP)





HMI example, Landvetter TMC





HMI example, Status of external equipment.





System technologies

- Open standards
- Open source, license free or commercial COTS can be used.
- Vendor-independent COTS software

Operating system independent

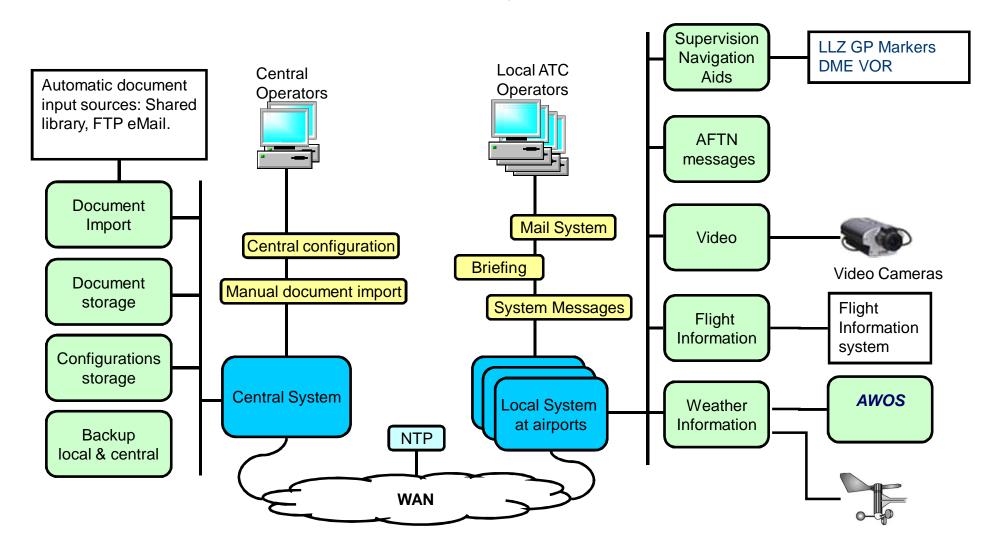
- Servers and clients is tested with:
 - Windows XP / 7 / 10
 - Windows 2003 / 2008 / 2012 Server
 - Linux RedHat 4 / 7 Enterprise

Open standards

- TCP/IP, Transmission Control Protocol
- XML, Extensible Markup Language
- HTML, HyperText Markup Language

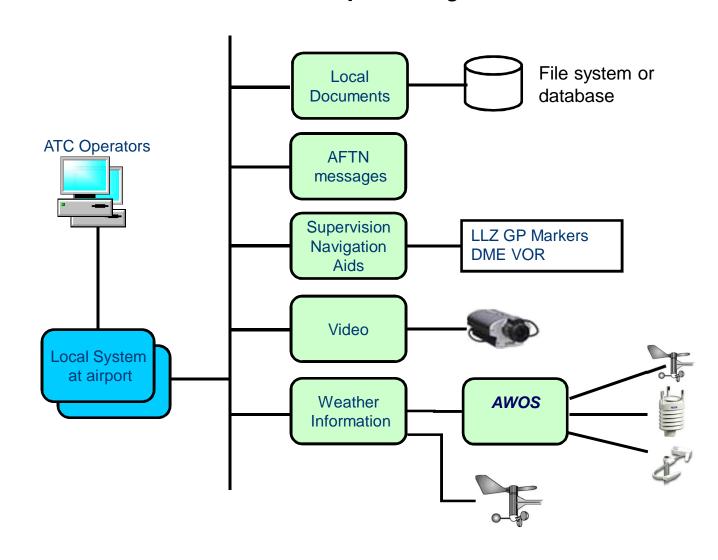


Example of nationwide system





Example of stand alone airport system





IRIS in action...

Landvetter APP



Landvetter TWR





IRIS in action...

Stockholm ATCC 54 working positions



Malmö ATCC 52 working positions



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