

# INTEGRATED REAL-TIME INFORMATION SYSTEM IRIS

The Integrated Real-time Information System (IRIS) integrates ATC, MET and AIS information into one common flexible presentation. The controller now has a superior overview of information previously spread over several separate console displays.

IRIS provides enhanced situational awareness and better ergonomics for the controller, and it improves the airport's safety.

## Real-time information for all airports

IRIS is a scalable real-time information system, used at both domestic and international airports, in TWR, TMC and ATCC.

Installations can either be stand-alone or part of a nationwide network with local and central servers for backup, site administration and centralized documentation distribution.

## Combined presentation

Both dynamic and static information is collected, stored and processed. The result is displayed in a customizable user interface.

IRIS combines numerous information sources, such as navigation aids status, MET data, AFTN messages, flight data, surveillance cameras, administrative data and AIP documents.

## Communications and remote-control

IRIS has internal communication functions at both the site level and national level. E-mail, system messages and briefings can be distributed across the system, providing the controller with weather forecasts, maintenance information, operational information, etc.

The remote control and monitor function can interface runway lights, NAV aids, radar stations, etc.

## Role-based

IRIS is role based and highly adaptable to the user's needs. The component based user interface can easily be customized by the system administrator.

## Prepared for future upgrades

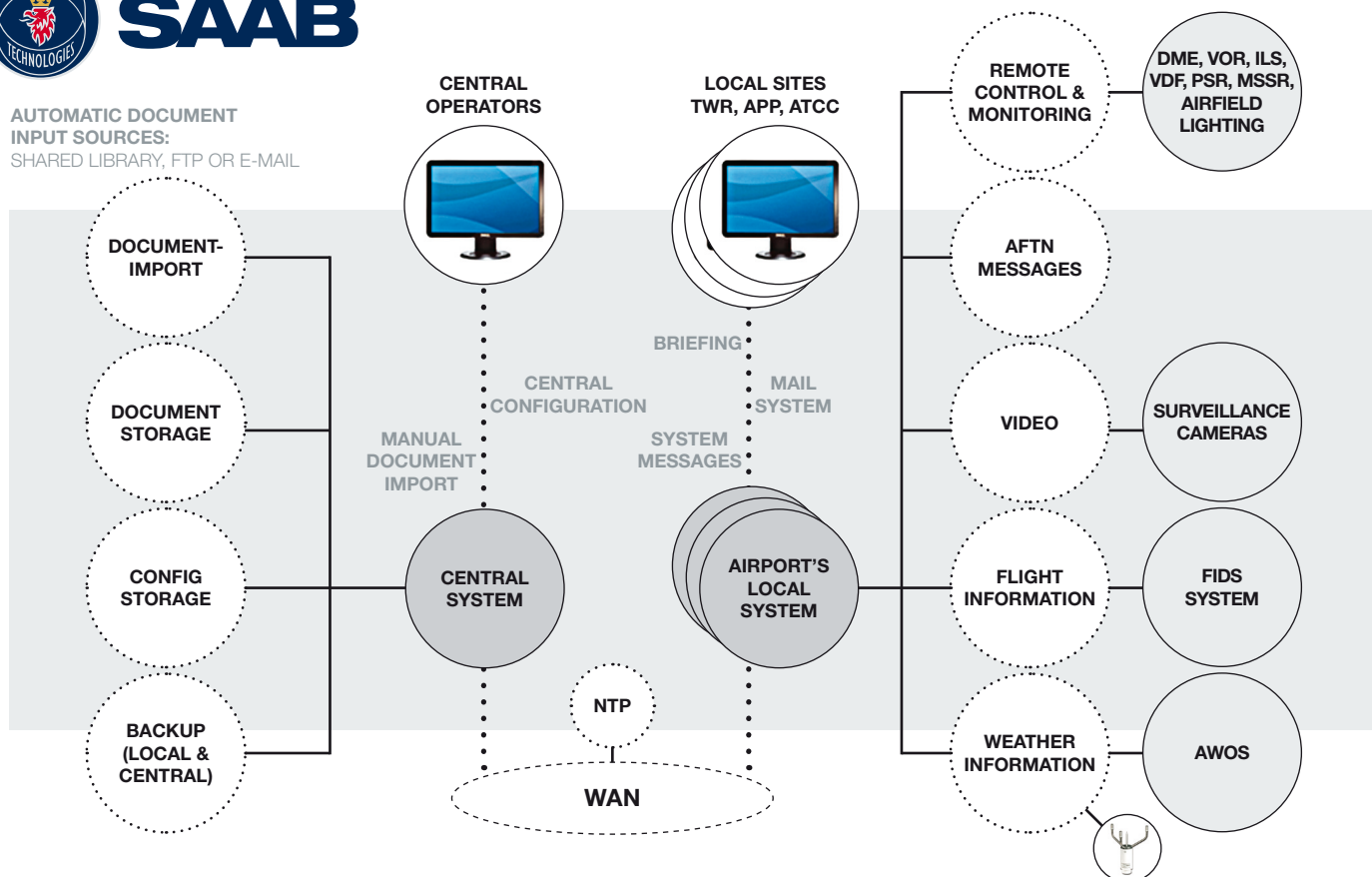
The system comes with a set of components that exchange information through plug-in information channels. New components can be developed in-house or by third-party vendors and added to the system.

A standard web browser equipped with Java is used to access the system, permitting thin client architecture and minimizing the installation work.



# SAAB

**AUTOMATIC DOCUMENT  
INPUT SOURCES:**  
SHARED LIBRARY, FTP OR E-MAIL



## HARDWARE

- Standard hardware units are used with PC clients and redundant servers.

## SOFTWARE

- Based on a standard WEB browser (clients)
- Operating system independent (Windows, Linux, UNIX)
- SQL Database

## STATIC INFORMATION

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

## DYNAMIC INFORMATION

- AFTN weather messages ( METAR, SPECI, TAF, TAF/ • AMD, SIGMET, NOTAM, SNOWTAM, WIND-SHEAR, LLF, QNH, ICE, IGA)

- AFTN flight plan messages (FPL, CHG, DLA, CNL, ARR, DEP)
- Weather sensor values
- Graphical weather charts
- Thunderstorm information
- Video (snapshot and streaming)
- Navigation aids status
- Airport and flight information

## REMOTE CONTROL & MONITORING

- Saab Remote Control & Monitoring System (RCMS) is an integrated part of IRIS and used for control and monitoring of NAV aids, radars, airfield lighting, etc

## INTERNAL COMMUNICATION

- Briefing, simple or extended
- System messages and alerts
- Internal mail

## STATISTICS

- Logging of the controllers operational hours of service in each working position

## OPERATIONAL SYSTEMS

- IRIS is in operational use 24/7, in a number of TMC and ATCC.
- The number of controller workstations on a site, varies from 6 to over 50 positions.
- Examples of IRIS installations are Stockholm ATCC, Malmö ATCC, Göteborg TMC, Oslo ATCC, Stavanger ATCC, Bodö ATCC Trondheim TMC, Rygge TMC, Haugesund TMC, Torp TMC and more systems are planned to be installed.