Rotterdam The Hague Airport

The customer

Rotterdam The Hague Airport (RTHA) is a regional airport, strategically located between the cities Rotterdam and The Hague. The airport has seen significant growth over the past years and currently has connections to 40 international destinations.

The request

Communication at an airport must be secure and 100% reliable. The old analogue network was end of life and didn't meet those requirements anymore. The request was for a replacement system that could meet todays and future requirements and would improve efficiency and reduce operating costs. Efficient control of the different communication networks that are in use was one of the key requirements.

The approach

The ability of Kolibri to connect to multiple communication networks was one of the reasons why RTHA choose Kolibri. Together with a local System Integrator and the airport staff, Kolibri implemented the dispatcher application.

The result

A Kolibri control room solution with redundant servers and airport specific security automation (i.e. runway intrusion). The GUI of the dispatch consoles are configured to the specific tasks of the operator to enable them to work more efficient in normal situations and act quickly in emergency situations.

System features:

Kolibri control room system with redundant servers connected to multiple dispatcher consoles with voice dispatching and tracking functionality on different locations on the airport. The Kolibri system includes connections to the different communication networks of RTHA (TETRA trunked radio network, Analogue radio network, Paging network).

This customer specific configuration includes predefined text and paging messages based on different scenarios such as "test", "emergency terminal" or "airplane crash" and protection against unauthorised access of the runway and airside using geofences.

Kolibri system configuration

- Redundant server setup with servers on different location
- Gateways and interfaces:
    - o TETRA radio network
    - o Paging network
    - o MediaServer for connection of mobile terminals (TETRA and Analogue)
- Multiple consoles enabling: dispatching, tracking, predefined text and predefined page messages based on specific scenario's
- Customer specific GUI's based on operators tasks
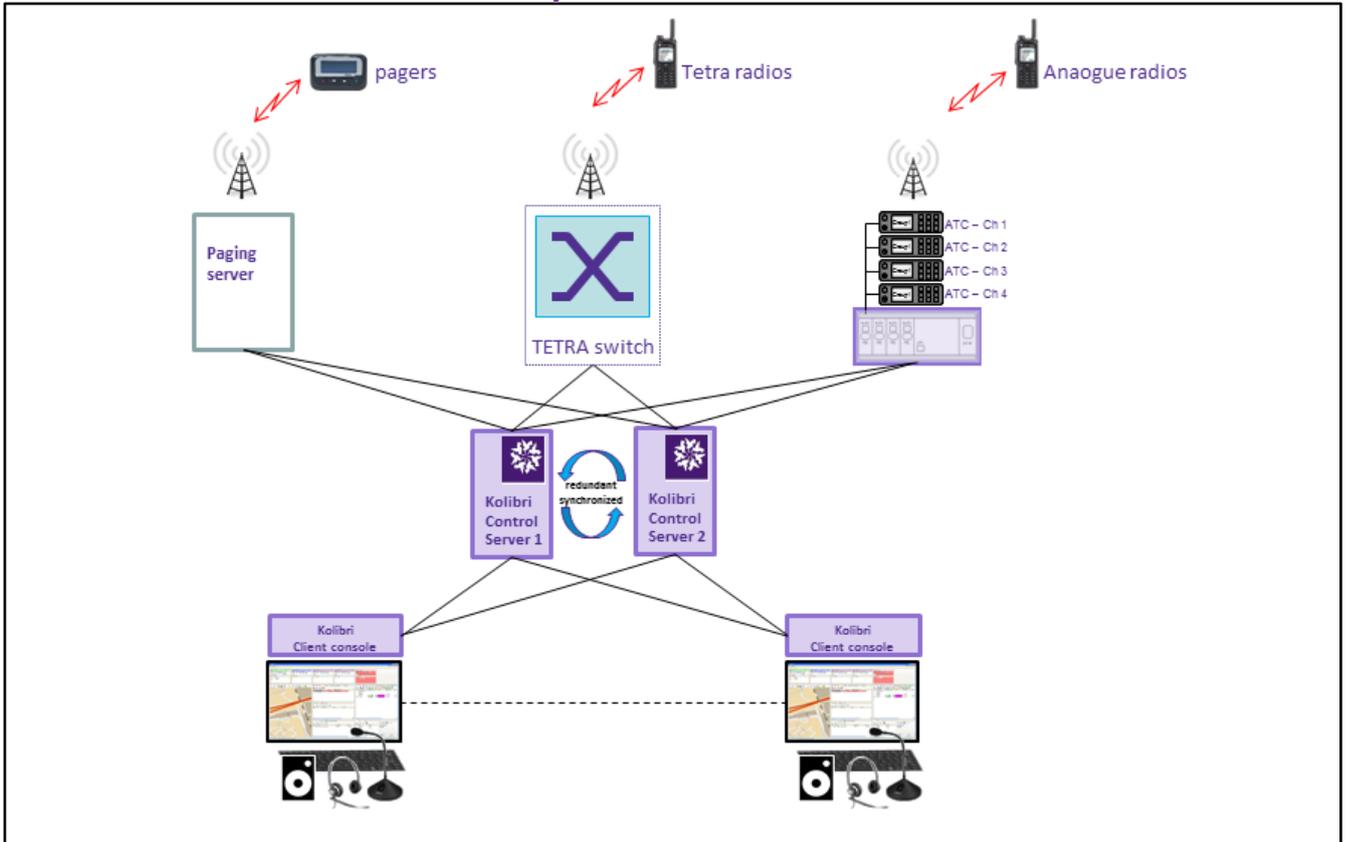- Customer workflow automation

System overview:

About Kolibri Systems

Kolibri Systems is a software developer devoted to control room applications such as dispatch and tracking. A responsive company, based in Delft, the Netherlands, next to Delft University of Technology, we excel in working with our customers to build a customized control environment that meets their specific needs.

As a subsidiary of Cuperus Consultants, Kolibri Systems can benefit from 25 years of experience in Control Room applications and software development. We designed some of the key Mission Critical applications that are currently in use at the Public Safety Control Rooms across the Netherlands for Police, Fire brigades and Emergency services.

More information

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