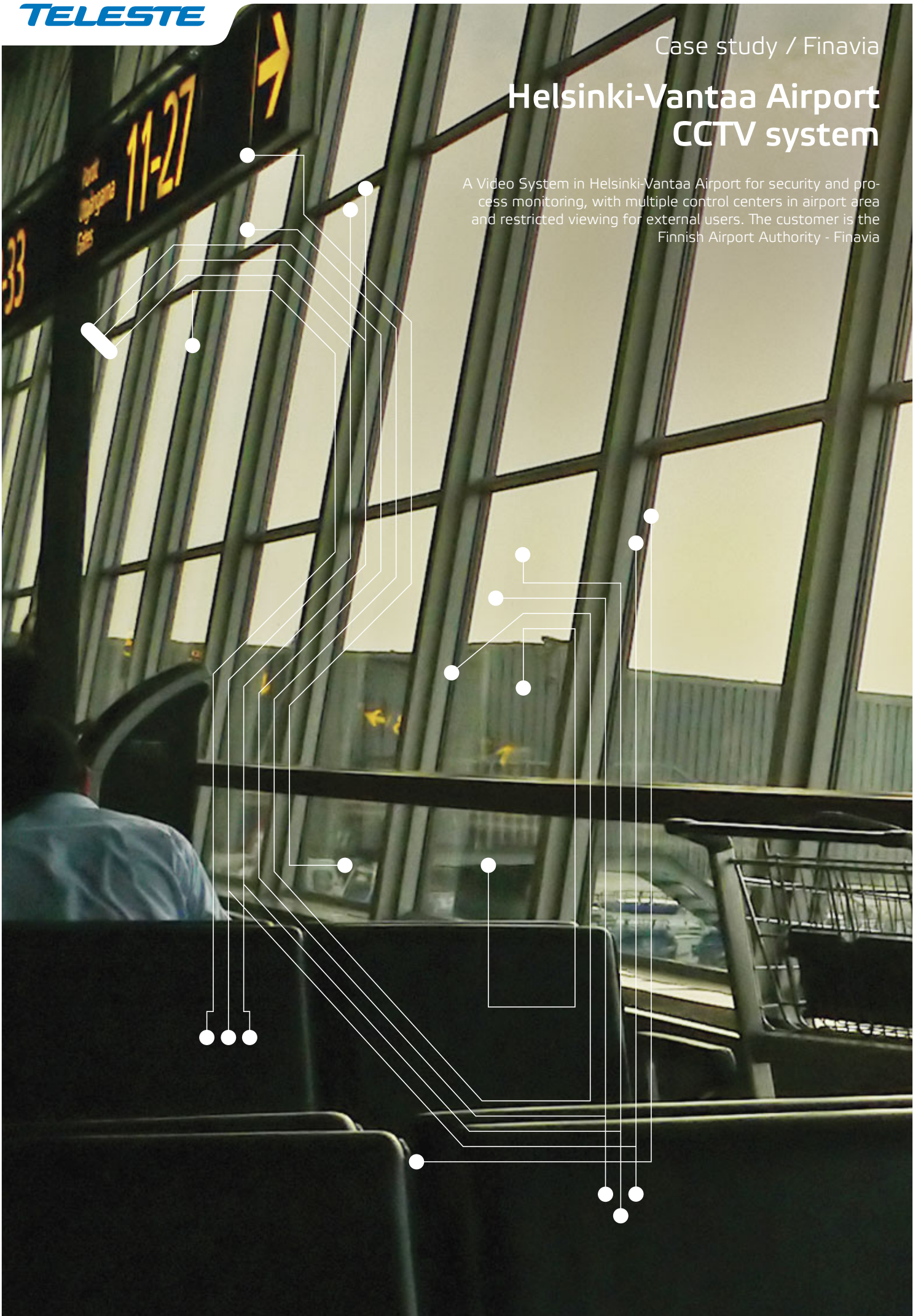


# Helsinki-Vantaa Airport CCTV system

A Video System in Helsinki-Vantaa Airport for security and process monitoring, with multiple control centers in airport area and restricted viewing for external users. The customer is the Finnish Airport Authority - Finavia



# Finavia and Helsinki-Vantaa airport in brief

Finavia is state-owned enterprise with 1800 employees and 25 airports in Finland and an air navigation system covering whole Finland.

Helsinki-Vantaa airport is the biggest airport in Finland and major gateway between Europe and Asia due to excellent geographical location, short transfer times (35 minutes) and wide network of regular connections.

## Helsinki-Vantaa Airport

- Approximately 13,5 Million passengers per year
- 120 scheduled destinations all over the world
- 1800 departures per week
- 500 operations per day
- Handles over 90% of Finland's international traffic



Finavia Airports in Finland.



Helsinki has an excellent geographic location between Europe/USA East Coast and Asia.



Helsinki-Vantaa airport.

# Background of the Helsinki-Vantaa airport

CCTV upgrade project, objectives and selection.

## Background for the project

- Terminal extension
- Challenges in use, administration and maintenance of the old CCTV system (Heterogeneous CCTV system including 550 analog cameras, 17 different DVRs and several video matrixes)
- Multiple control rooms:
  - » Operation centre
  - » Security surveillance centre
  - » Baggage handling system surveillance centre
  - » Apron surveillance centre
- 20-30 remote surveillance places (external users)
- Large and continuously changing environment
- Need for work-flow and integration of different systems together with video system e.g. baggage handling system

## Selection

- Invitations for tenders to 16 companies
- 10 tenders
- Selection criteria:
  - » Technical and functional features: 50%
  - » Price: 30%
  - » Quality and feasibility of the project plan: 10%
  - » Maintenance and Support Services: 10%
- Teleste VMX system was chosen, because:
  - » VMX met all the technical and functional criteria
  - » References of large hybrid systems
  - » Matrix integration and viewing for external users were important features as well as possibility to integrate multiple systems together
  - » Most complete project plan

## Objective of the project

- Flexible and scalable system
- Open system architecture (integration and tendering of devices)
- Easy to use software for operators
- Integration with other systems:
  - » Baggage handling system
  - » Bosch Allegient video matrixes
  - » Access Control System
- Hybrid system (analog/IP)
- Centralized system administration
- Flexible administration of external users
- Multicasting for efficient network capacity use
- Cost-effectiveness in long-term

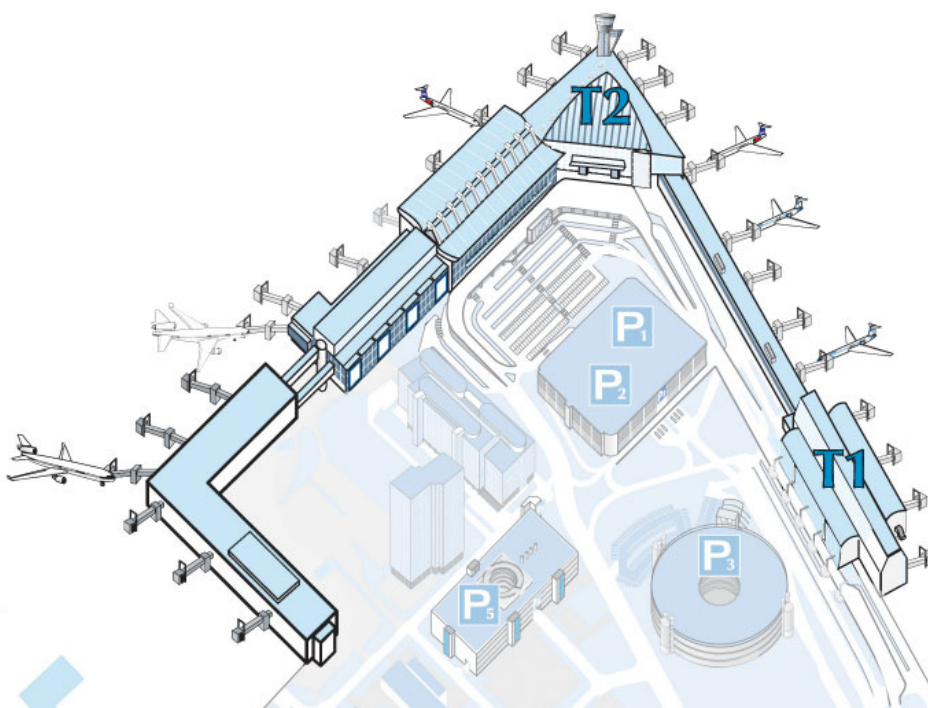


Illustration from Helsinki-Vantaa airport.

# Description of the System

## Network

- Finavia's operational network at Helsinki-Vantaa (no separate CCTV network)
- Multivendor Gigabit Ethernet network
- External users in separate networks

Network reliability is key issue for Finavia, and IP-based CCTV system must behave very well in the operational network so that it doesn't disturb Finavia's operational network.

## Functionality

- System redundancy (system is not vulnerable to failure of one component e.g. redundant servers)
- Integrated with analog video matrixes, luggage control and access control system
- Options for further integrations left open
- High quality low latency video for internal users
- Web-based video viewing for external users (e.g. airlines)
- Centralized and Flexible User rights management
- User specific GUI views (GUI set according to the user and his/her needs)
- Open and Scalable Video Management System
- Multicasting
- Standard based future proof solution

## Figures

- >800 cameras (and expanding)
- Centralized recording
- 12 Clients (operator stations with GUI and SW decoding)
- 4 surveillance centers
- 4 surveillance points
- 20-30 external users

## Customer statement

Mr. Salonen, Corporate Security, Helsinki-Vantaa Airport:  
"We have been very satisfied with Teleste VMX video system. Especially integration with other systems such as luggage control system has greatly improved the work efficiency at Helsinki-Vantaa airport as well as we can serve now our customers such as air-lines better with flexible view of video when needed. Teleste VMX is also enhancing aviation safety and security for its part."

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