



# *OpenID*

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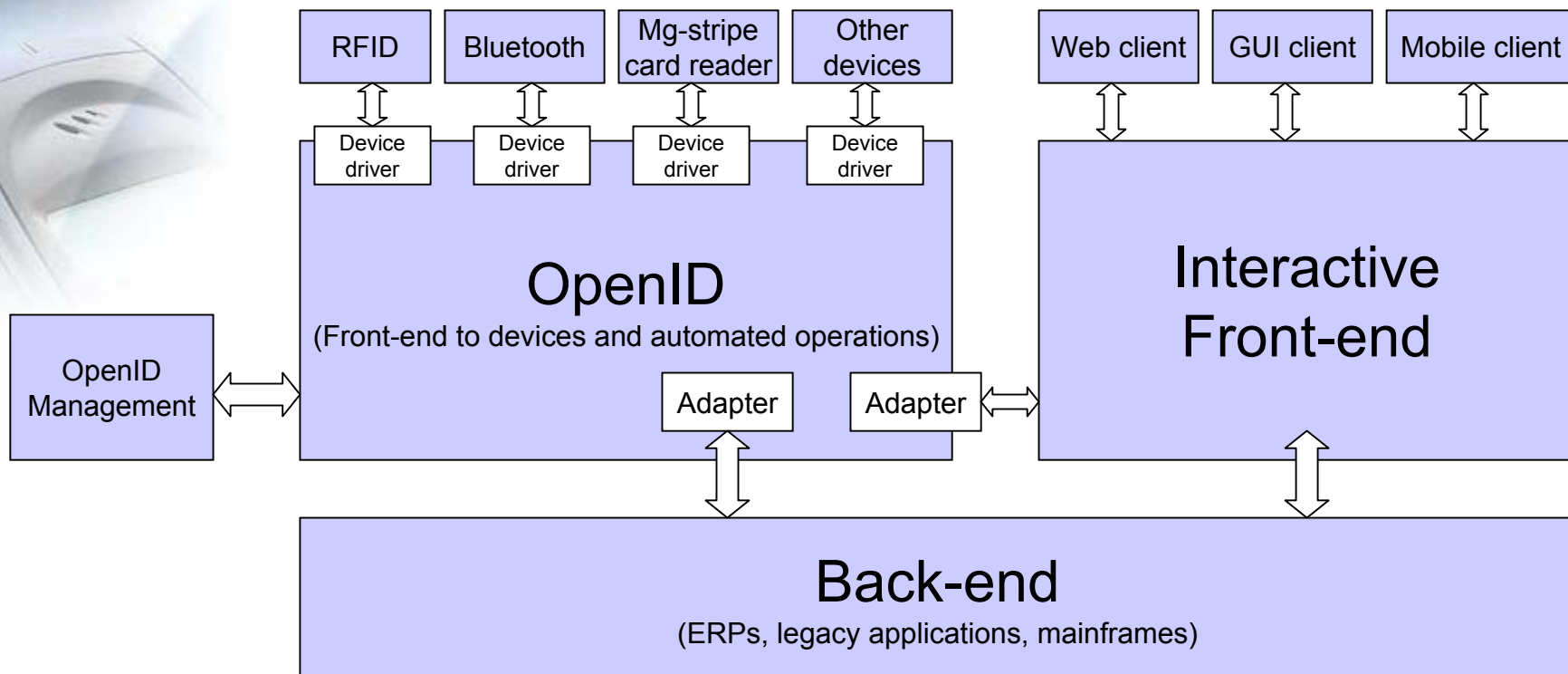
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# OpenID

- OpenID is a **mediator** for integrating identification technologies, peripheral devices and short-range communication technologies with operational information systems
  - Front-end options: RFID, Bluetooth, bar code reader, etc.
  - Back-end options: ERPs, legacy apps, mainframes, etc.
- Key benefits for using OpenID
  - Strong support for integration
  - Robustness
  - Scalability and high performance
  - Manageability

# Hight-level architecture





# Typical applications

- **Services**
  - Personalized services
  - Personal access control
  - Parcel & baggage sorting and routing
- **Industrial & logistics**
  - Warehousing control
  - Shipping container identification
  - Logistics measurements
  - Track & trace
  - Production control in manufacturing
  - Collecting/dispatching/delivery operations

# OpenID features

- Two-way transport layer
  - Message routing between readers, devices, and back-end
- Filter mechanism for embedded logic
  - Data logging, data flow splitting & merging, buffering, etc.
- Management facilities
  - Single point of control: configuration, logging, alerts
- Adapter toolkit
  - Tools for back-end integration (e.g. XML, TCP/IP, MQS)
- Mediation server
  - Database integration, batch requests, batch responses
- Device driver toolkit

# OpenID's strengths

- Provides a unified interface to the back-end
  - Hides identification technologies, device access technologies, and communication protocols from back-end applications
  - Ultimate goal: minimal integration expenses (in a typical installation, integration represents more than 40% of all costs)
- Enhanced quality of service (QoS)
  - Fast and predictable response times
  - Designed for efficiency
- Scalable to thousands of devices
  - Based on a true multi-tier architecture



# Technical advantages

- **Runs on virtually any platform**
  - Based on pure Java
  - C/C++ used only in device drivers
- **Extensive configuration capabilities**
  - XML based configuration
  - Accessible from application-dependent filters and adapters
- **Extensibility features available for integrators**
  - Filter API for for filters and transformations
  - Adapter API for for back-end integration
  - Device driver toolkit for device manufacturers
  - Database centric Mediator server for batch type integration

- Integrated MultiFLY card and RFID tag
- Contactless reader with integrated turnstile
- Now for MultiFLY clients; later for all Finnair Plus clients
- In pilot use (Helsinki - Oulu; Helsinki - Kuopio)
- Powered by OpenID



# eGATE

eGATE ON NOPEA  
PORTTISELVITYS-  
PALVELU MULTIFLYe  
KORTIN HALTIJOILLE

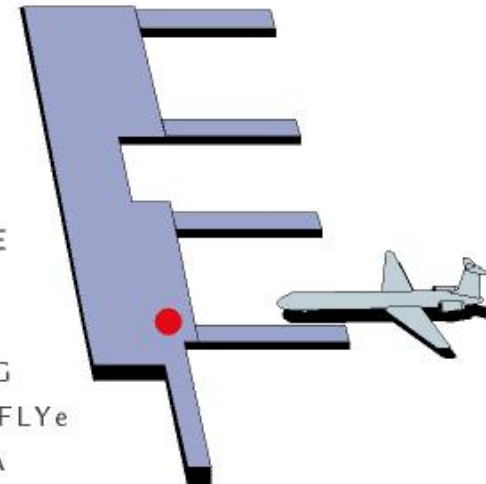
eGATE ÄR SNABBT  
AVGÄNGSKLARENING  
SERVICE FÖR MULTIFLYe  
KORT INNEHAVARNA

eGATE IS FAST GATE CLARIFICATION  
SERVICE FOR MULTIFLYe CARD HOLDERS

eGATE ON KOEKÄYTTÖSSÄ VUODEN 2000 LOPPUUN  
ASTI HELSINKI-OULU-HELSINKI -REITILLÄ.

eGATE ÄR I PROVDRIFT PÅ HELSINKI-OULU-HELSINKI  
RUTT TILL SLUTET AV ÅRET 2000

eGATE IS IN PILOT USE ON HELSINKI-OULU-HELSINKI  
ROUTE UNTIL THE END OF YEAR 2000



# “Fast track boarding”



Automatic identification  
Automatic check-in  
Automatic access control  
Automatic boarding

## OpenID and eGATE

# OpenID

**OpenID** provides the vital elements for successfully integrating

- identification technologies,
- peripheral devices, and
- low-range communication technologies

with **mission-critical** information systems