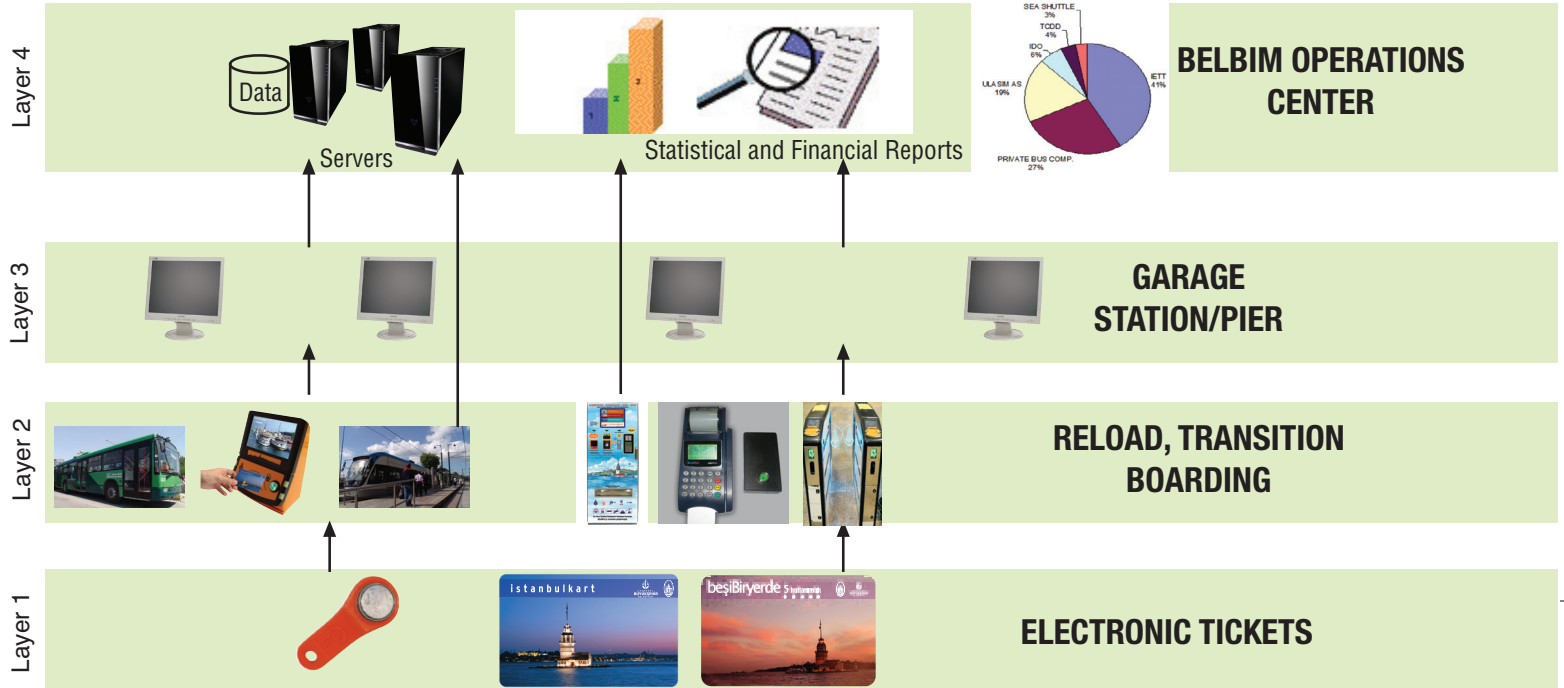


ELECTRONIC TICKET SYSTEM SOFTWARE

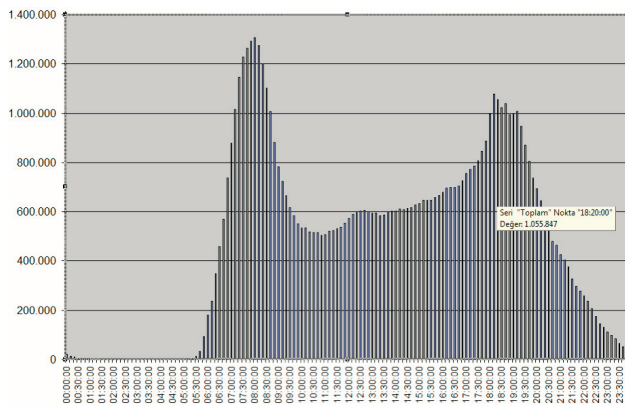
Registration - Authorization - Sales - Reload / Top-up - Ridership - Settlement / Clearing - Customer Services - Reporting

Systems Architecture of the Clearing House



Equipment	Period	Communication	Location
Bus Validator	Daily	IrDa+WAN	Garage
Turnstile	Every 2 hrs	LAN+WAN	Stations/Piers
AKBİL24 or BSM	Every 2 hrs	WAN/GPRS	Piers/Stations/Top-up Points
AKDOM	Online	GPRS	Top-up Points
Jetonmatik	Online	WAN	Stations/Piers

Data Collection Methods



Performance Charts and Graphs

Layer 1:

- Card supply, printing house
- Formatting, key management and activation, registration
- Issuing, deposit management

Layer 2:

- Reload / Top-up
- Payment Validation / Value Deduction

Layer 3:

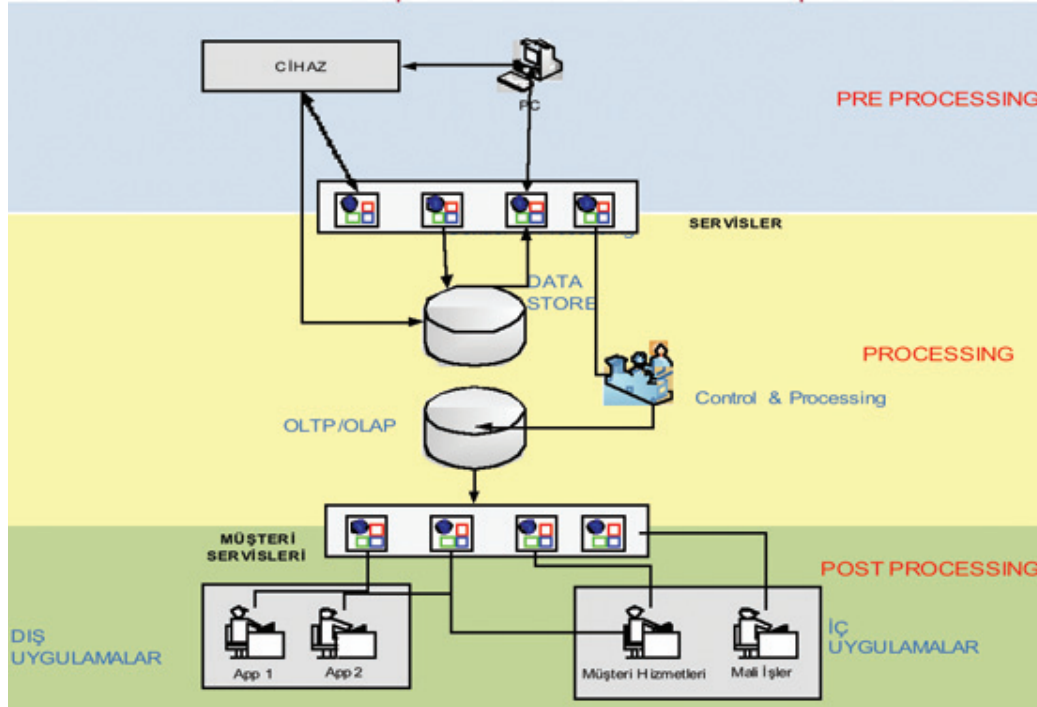
- Data Collection / Transmission
- Information management at bus depots, piers, stations, smart bus stops
- Security, protection and integrity

Layer 4:

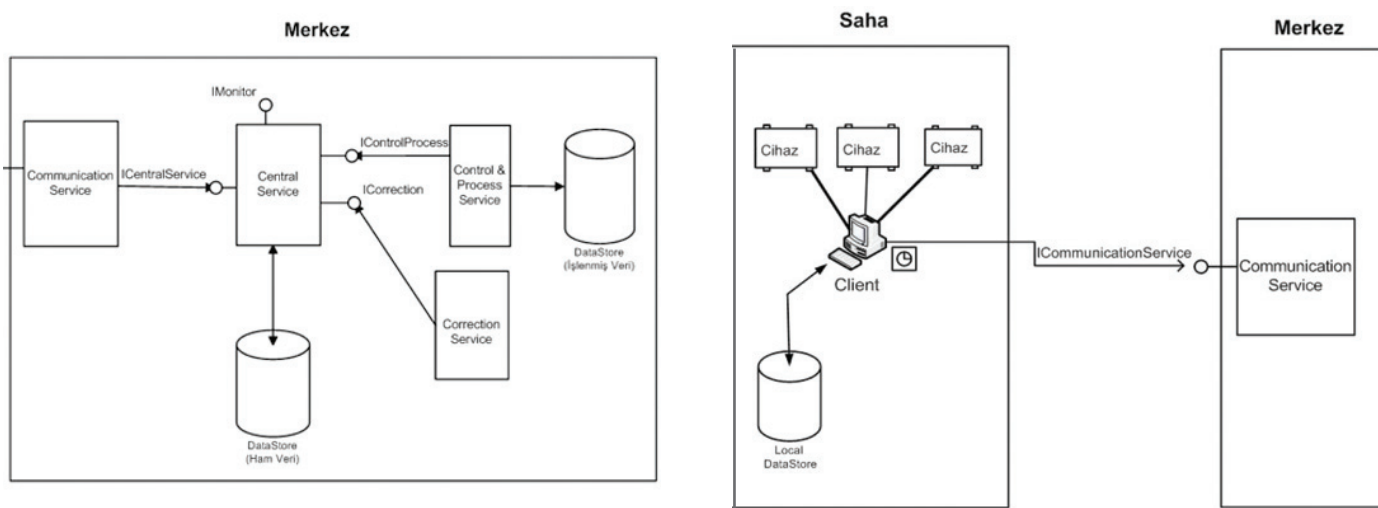
- Registration, contracting and management of operators, sales and reload / top-up agents
- Reconciliation of accounts
- Settlement and Clearing among respective operators
- Calculation of operational fees
- Collection of top-up data (monetary, date, location, agent, ...)
- Resolution of passenger e-ticket complaints and replacement of faulty e-tickets.

BACKOFFICE

www.belbim.com.tr



Data Collection and Backoffice Overall Structure



Data Collection and Control Process Service Structure