# OLS.Switch Transaction Flow

OLS.MOBO (extract, settlement, Secure FTP)

AMEX | FIRST DATA | CHASE | Fifth Third Bank | …etc.

RDBMS

JDBC Driver

1. Validate transaction (debit, credit, SVC, check, claims, etc.)
2. Authorize (locally) or Route (to endpoint – see below)
3. Capture (commit to RDBMS)
4. Prepare and respond to trans. origination point
5. [Optional] Remote Backup → Secondary Server

HSM

Start…

Card Acceptor Devices

OLSSChannel ↔ OLSSUnpackager

- Telecom handler
- Encapsulates all protocol-level nuances and details
- Maintains physical connections
- Sends and receives actual messages

- Unpack messages based upon vendor-provided specification
- Dominant model is ISO8583
- Other unpackagers can be created via customization

OLSSChannel

OLSSTransactionManager

Endpoints

OLSSPackager ↔ OLSSMUX ↔ OLSSChannel ↔ VISA

OLSSPackager ↔ OLSSMUX ↔ OLSSChannel ↔ AMERICAN EXPRESS

OLSSPackager ↔ OLSSMUX ↔ OLSSChannel ↔ MasterCard

- Pack messages based upon vendor-provided specification
- Custom packager for each interface

- Multiplex the channel connection
- Establish one socket connection
- Queue requests
- Wait for responses

- Each interface gets a custom channel to manage vendor-specific protocol differences

…etc.

OLSSPackager ↔ OLSSMUX ↔ OLSSChannel ↔ Gift Card