

BILL OF LADING/TDXS AND PLANNED MOVEMENTS



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Agenda –

- 1. Overview about PIDX 5.02**
- 2. Messages**
 - a) Planned Movements
 - b) Planned Movements Response
 - c) Right To Lift Request
 - d) Right To Lift Response
 - e) Loading Delivery Receipt – BOL
- 3. Communication**
- 4. Use Cases**



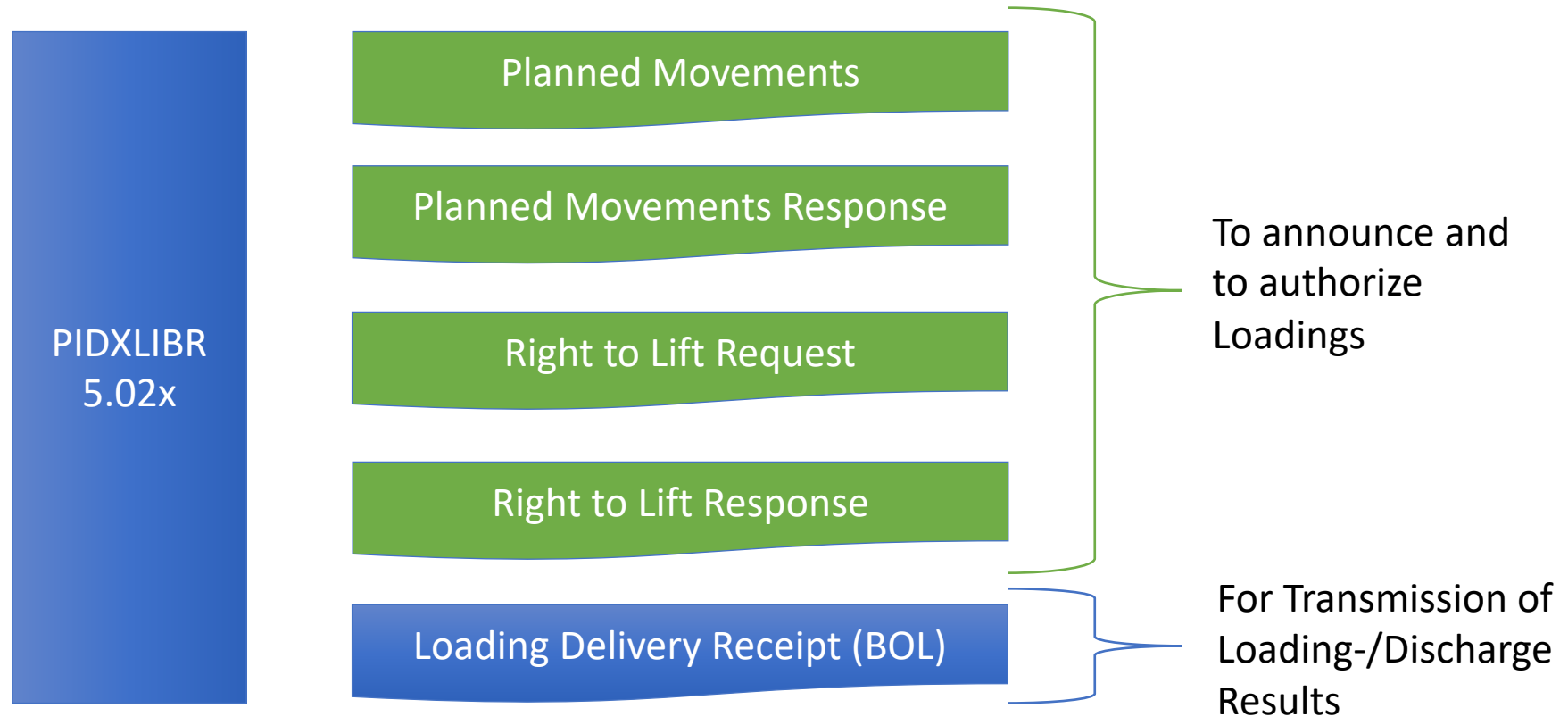
PIDX 5.02

PIDX 5.02 was developed

- To harmonize the Communication between Oil Companies, Terminals, Clearing Houses
- To announce and authorize Product Loadings at a Terminal
- To support Changes, Blocking and Cancellations of Documents
- To support all Modes of Transport
- For Transmission of Loading- and Discharge-Results based on Measurements.

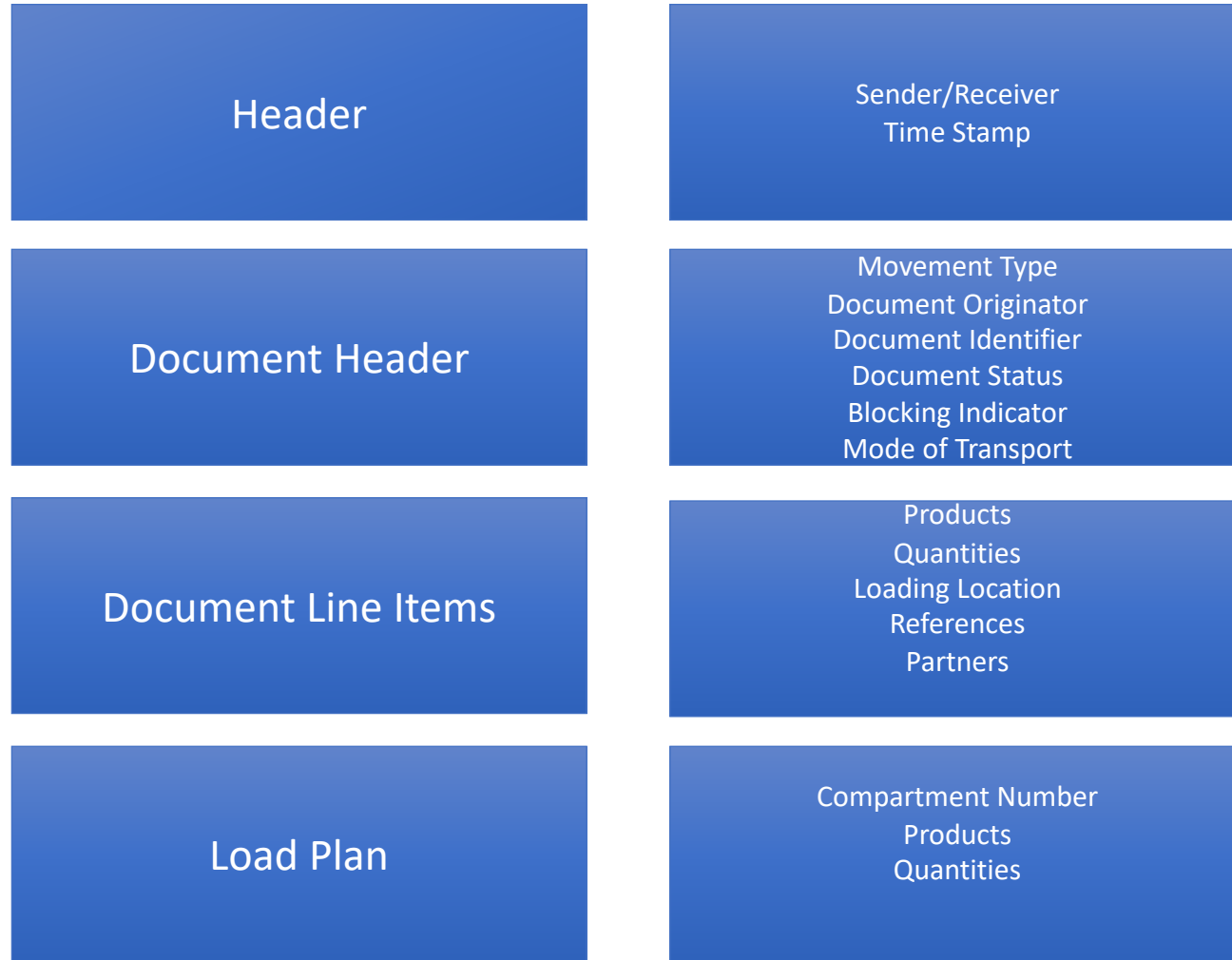
PIDX 5.02 is XML-based and supports File based Communication(FTP, SFTP) or Webservice.

Structure of PIDX 5.02



All Messages are based on the same library to ensure consistent Data-definitions and enumerations.

Planned Movements - Structure





Planned Movements – Movement Types

1. Load ID
 - I. To grant Load Authorization based on Account/Load ID
2. Order
 - I. To grant Load Authorization based on a Pre-Event Order
 - II. Product and Quantity Restriction
 - III. Check of Validity-Period
 - IV. One-Off usage
 - V. B2B Pick Up Business
3. Contract
 - I. To grant Load Authorization based on a Contract
 - II. Product and Quantity Restriction
 - III. Check of Validity-Period
 - IV. Multiple Liftings allowed
 - V. B2B Pick Up Business

Planned Movements – Movement Types

4. Shipment

- I. To grant Load Authorization based on a Planned Trip
- II. Product and Quantity Restriction
- III. Compartment Planning
- IV. Check of Validity-Period
- V. One-Off usage
- VI. Delivered Business

5. Nomination

- I. To nominate Non-Road Movements
- II. Product and Quantity Restriction
- III. Check of Validity-Period
- IV. One-Off usage

Planned Movements Response

Planned Movement Response-Message confirms the Processing-Status of a Planned Movement Document in the Target-System:

- Success
 - Document created in Target-System

- Failed
 - Document not created in Target-System
 - Error Class
 - Error Text



Right To Lift Request and Response

Real Time Request for Loading-Authorization from TAS to Clearing House based on Driver entries or Driver Card at Check-In.

Response indicates Authorization or Denial of the request incl. Deny Code and Deny Description.

Loading Delivery Receipt

Loading Delivery Receipt can be used for

- Transmission of Loading Results from Terminal to PIDX Company, DCH or Haulier
- Transmission of Discharged Quantities from Terminal to PIDX Company or DCH
- Transmission of Delivered Quantities from Haulier to PIDX Company

It contains all required information to support the automated posting of the Transactions in ERP-Systems, e.g.

- Product Identifier
- Measured and calculated Quantities
- Gravity/Density
- Temperature
- Partner Information, e.g. Ship-To Party
- References, e.g. Order-Number, Contract-Number, Shipment-Number

Loading Delivery Receipt - Structure

Header

Sender/Receiver
Time Stamp

Body

Postings

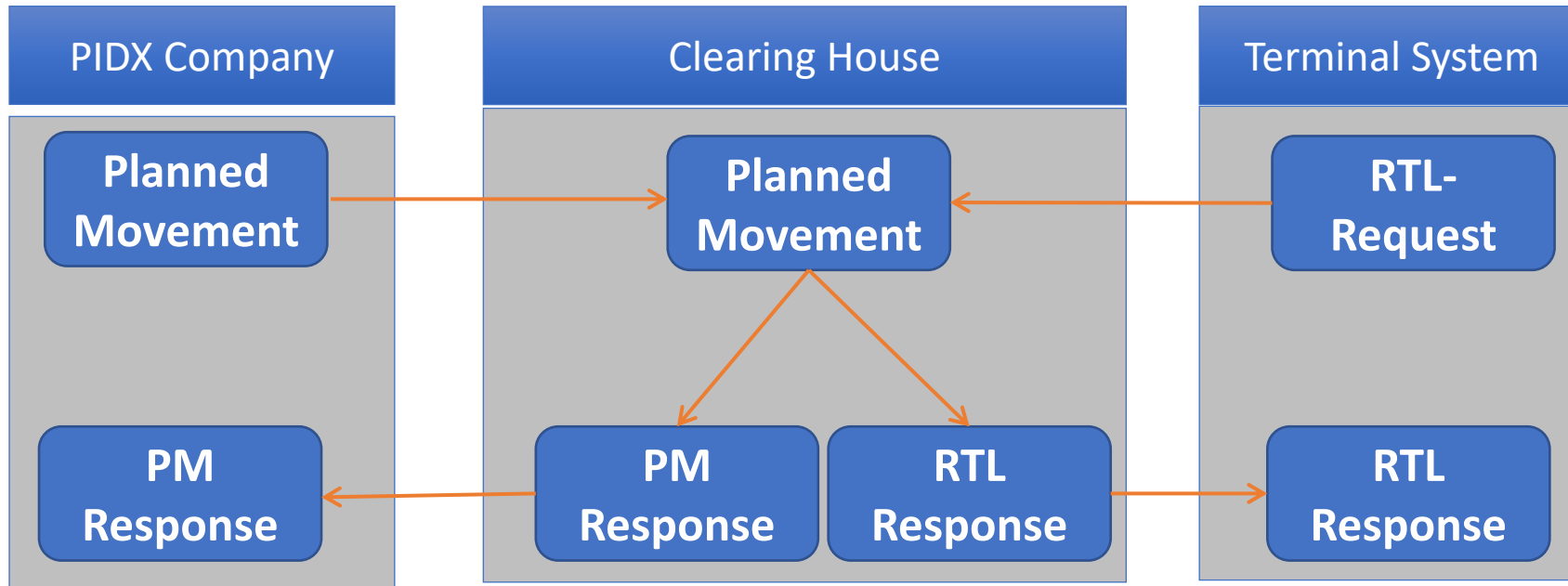
Action Code, e.g Loading, Unload
Posting Type, e.g. Normal, Reversal
Loaded Products
Measured Quantities
Calculated Quantites, e.g. Standard Volume
Loading Location
References
Partners

Planned Movements – direct to TAS



- Planned Movement Document ist stored in Terminal System
- Direct Connectivity to Terminal System required
- Master Data must be aligned between Source- and Target-System, e.g. Usage of PIDX Product Codes, PIDX Company Codes, Mapping of Codes

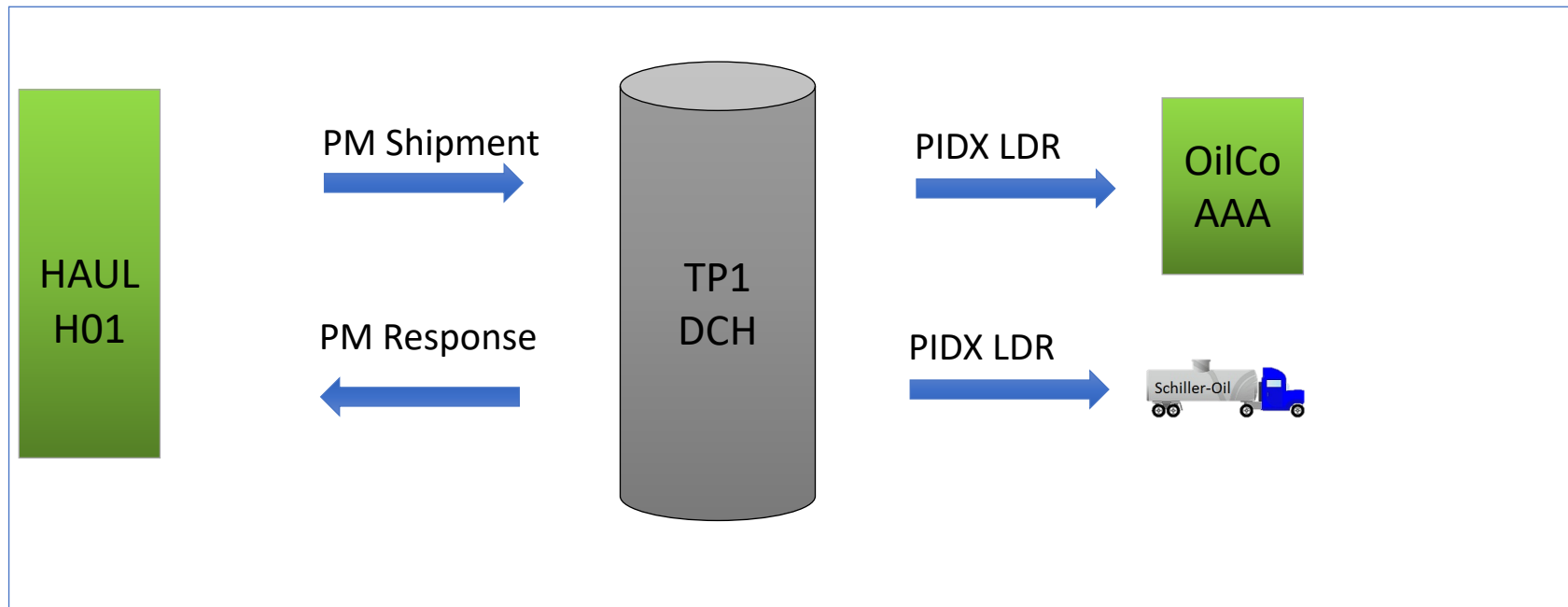
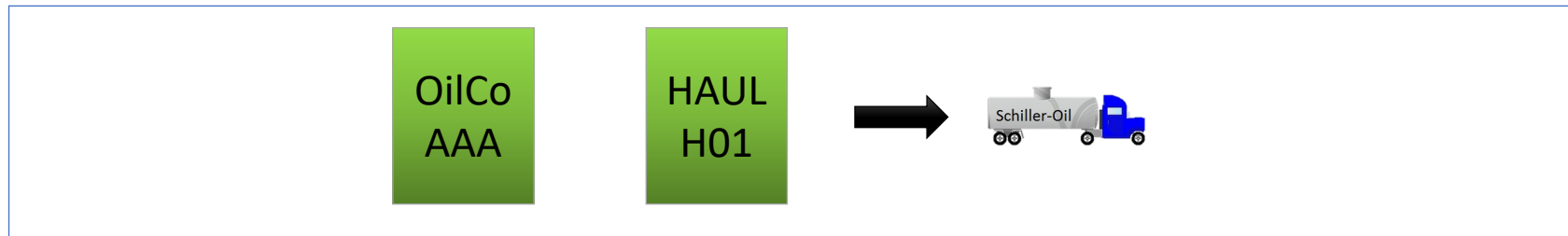
Planned Movements - via DCH with Right To Lift



- Planned Movement Document ist stored in Clearing House
- No Direct Connectivity from PIDX-Company to Terminal System required
- Master Data must be aligned between all Systems, e.g. e.g. Usage of PIDX Product Codes, PIDX Company Codes, Mapping of Codes

Shipment Use Case

Haulier H01 delivers products on behalf of Oil Company AAA to Retail Sites of Oil Company AAA. Oil Company AAA is Supplier/Stock Owner in Terminal TP1. Haulier H01 is responsible for Trip-Planning and Execution. Terminal TP1 transfers Loading Results to Oil Company AAA and to On Vehicle Computer of the Truck.



Contract Use Case

Customer C01 of Oil company BBB picks up goods from 3rd Terminal TP1, based on Sales Contract out of Oil company AAA Stock.

Equity Chain

