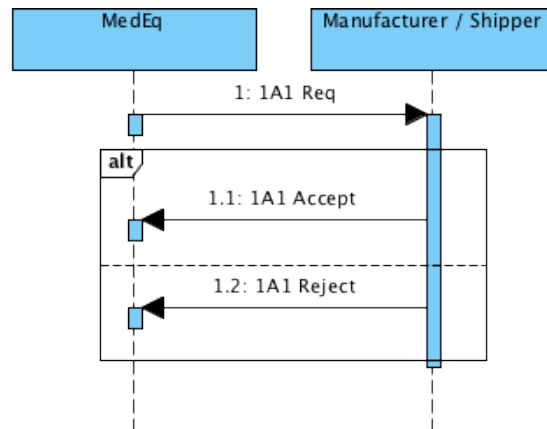


Deliverable 2 PIP Message Exchange

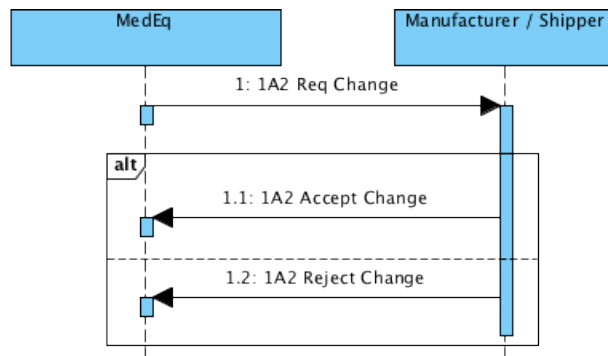
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xxiao2@ncsu.edu

1. Account Setup and Maintain

- PIP 1A1: Request Account Setup
 - MedEq outsources manufacturing to two contract manufacturers: FlexMan and SoleMan and employs two shippers: FedUp and UpFed. Thus, MedEq needs to share information, such as locations and contacts, with these four companies.

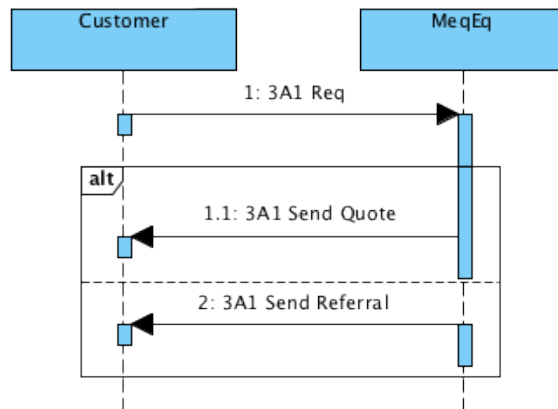


- PIP 1A2: Maintain Account
 - If MedEq or one of its business partners (FlexMan, SoleMan, FedUp, and UpFed) needs to change their information, they can use this PIP for sending change requests.

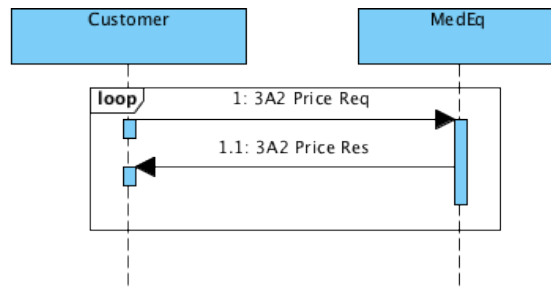


2. Order Management

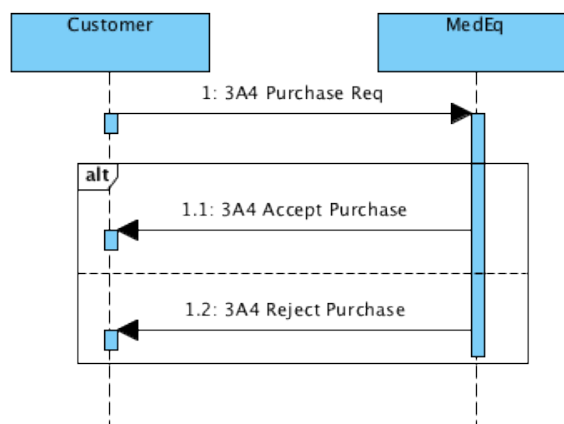
- PIP 3A1: Request Quote
 - This PIP allows Customer to send their requirements to MedEq.
 -



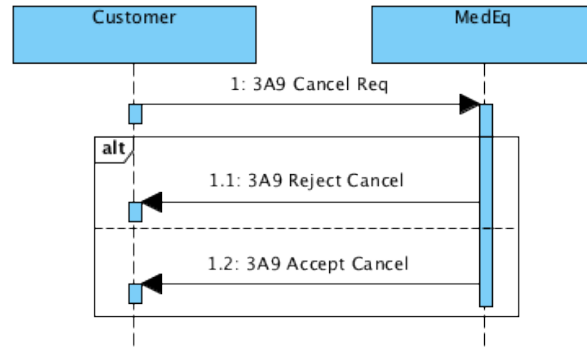
- PIP 3A2: Request Price and Availability
 - This PIP allows Customer to request the price and availability of the submitted requirements.
 -



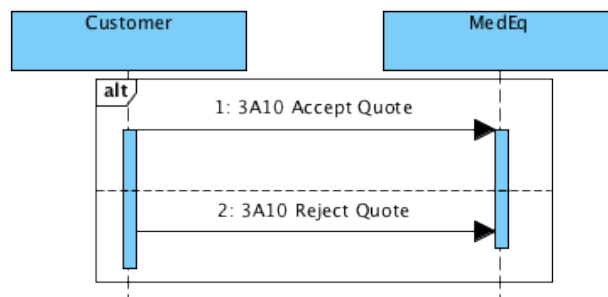
- PIP 3A4: Request Purchase Order
 - If MedEq and Customer agree on the price and requirements, the Customer can request a purchase order
 -



- PIP 3A9: Request Purchase Order Cancellation
 - If Customer does not agree on the price, he can cancel it.

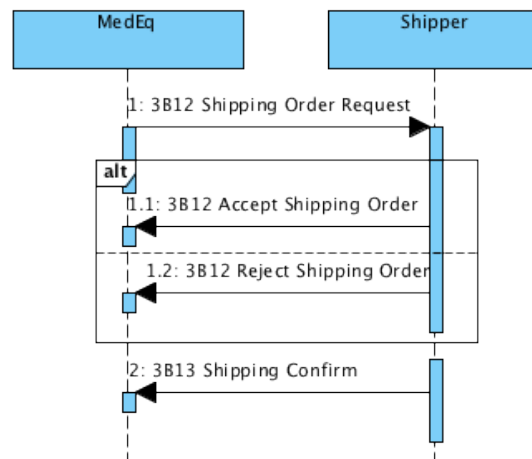


- PIP 3A10: Notify of Quote Acknowledgement
 - Customer can notify MedEq that he accepts or rejects the order based on the price

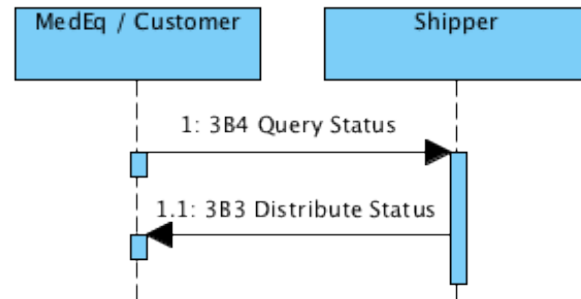


3. Shipment Management

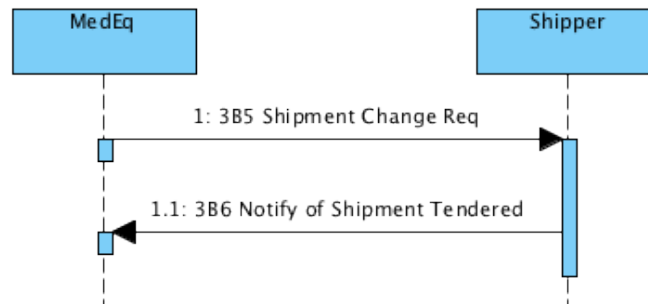
- PIP 3B12: Request Shipping Order
- PIP 3B13: Notify of Shipping Order Confirmation



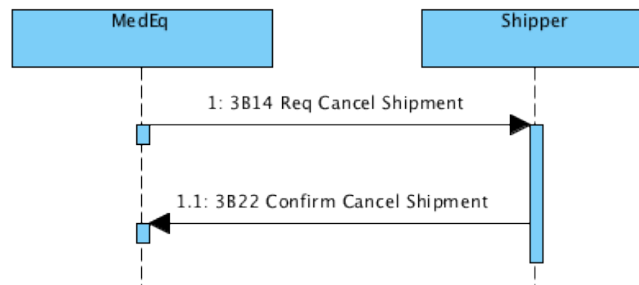
- PIP 3B3: Distribute Shipment Status
- PIP 3B4: Query Shipment Status



- PIP 3B5: Request Shipment Change
- PIP 3B6: Notify of Shipments Tendered

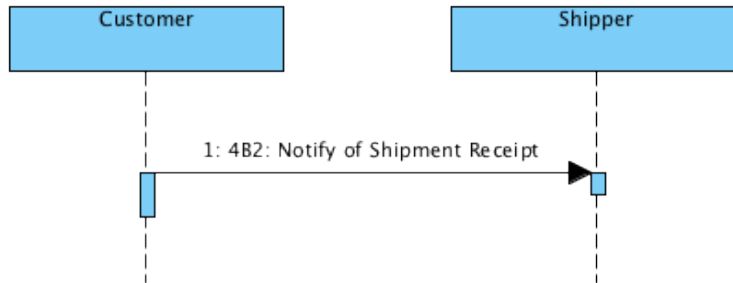


- PIP 3B14: Request Shipping Order Cancellation
- PIP 3B22: Notify of Shipping Order Cancellation Confirmation

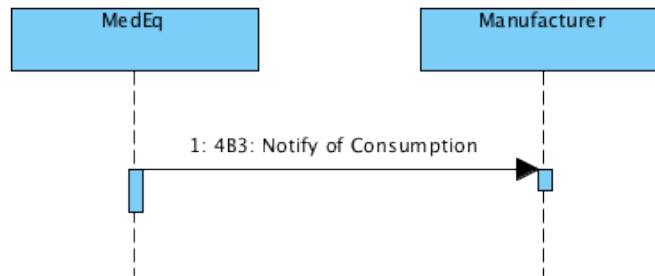


4. Stock Management

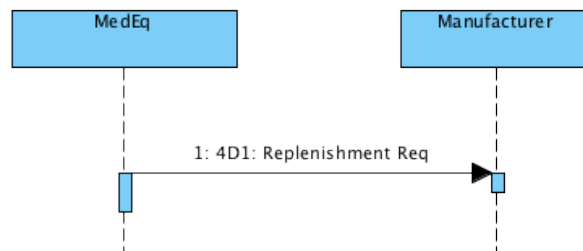
- PIP 4B2: Notify of Shipment Receipt
 - This enables a consignee, such as customer and MedEq, to report the status of a received shipment to another interested party, such as MedEq, FedUp, or UpFed.



- PIP 4B3: Notify of Consumption
 - This enables MedEq to communicate the material information with contract manufacturers

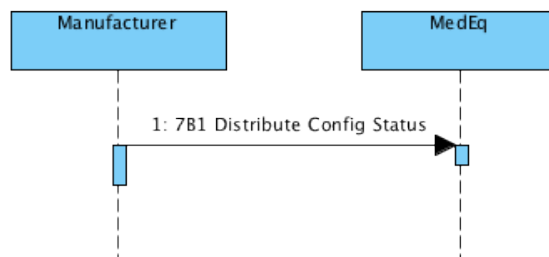


- PIP 4D1: Notify of Material Release
 - This enables MedEq to trigger a stock replenishment

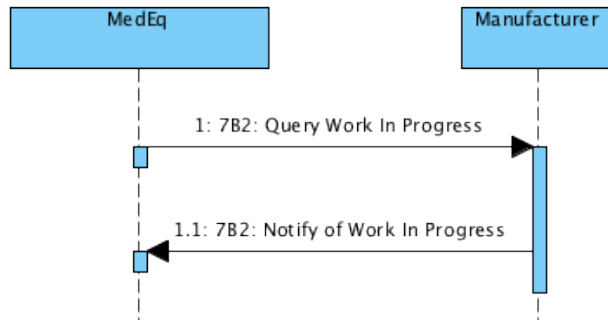


5. Manufacturing

- PIP 7B1: Distribute Work in Process
 - This enables the contract manufacturers (FlexMan, SoleMan) to notify MedEq the configuration status of the manufacturing of equipment



- PIP 7B2: Query Work in Process
 - This enables MedEq to query the status of the manufacturing equipment from the contract manufacturers (FlexMan, SoleMan)



6. Return and Finance

- PIP 3C1: Return Product
 - This PIP enables customer to submit a request to return the equipment if it does not meet the requirements

