

Bulk Payments Enhancements: Roadmap

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PI-18 OSS Community Meeting



The Problems



1. As currently implemented, the Mojaloop Bulk Payment service operates in a manner that doesn't match market expectations
 - Payers just want to hand over a list; Mojaloop wants a series of sorted lists, one per payee DFSP
2. Payee DFSPs vary in their capabilities; some can accept a bulk payments list, others cannot

Short Term Solution



Accept a bulk payments list from a DFSP, and deal with them as though they're individual transactions:

- *Process them one by one (discover, agree, transfer)*
- *Assemble a single bulk transfer response and return it to the sender*

Pros:

- Simple, straightforward to implement
- Supports some DFSPs' inability to accept bulk lists

Cons:

- Increased load on the Hub
- Only suitable for relatively short lists; good for loan disbursements, not good for ECT

Medium Term Solution



Accept a bulk payments list from a DFSP, and sort it into individual lists (one per payee DFSP):

- *Process each list as a Mojaloop Bulk Payment*
 - *For some Payee DFSPs, it will be necessary to break up the list at the “receive” end and process as individual transactions*
- *Assemble a single bulk transfer response and return it to the sender*

Pros:

- Allows us to reach scale
- Supports some DFSPs' inability to accept bulk lists

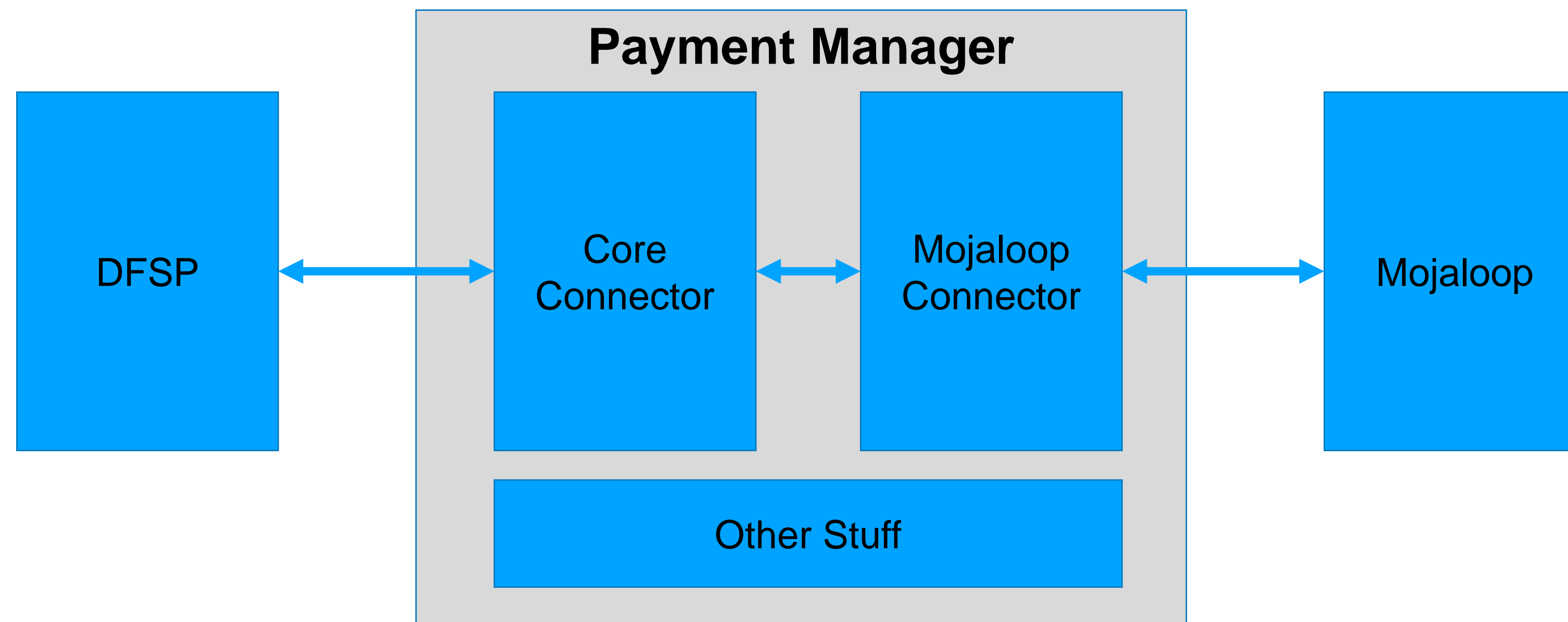
Cons:

- More complex to implement; longer lead time

Route to Implementation of the Short Term Solution



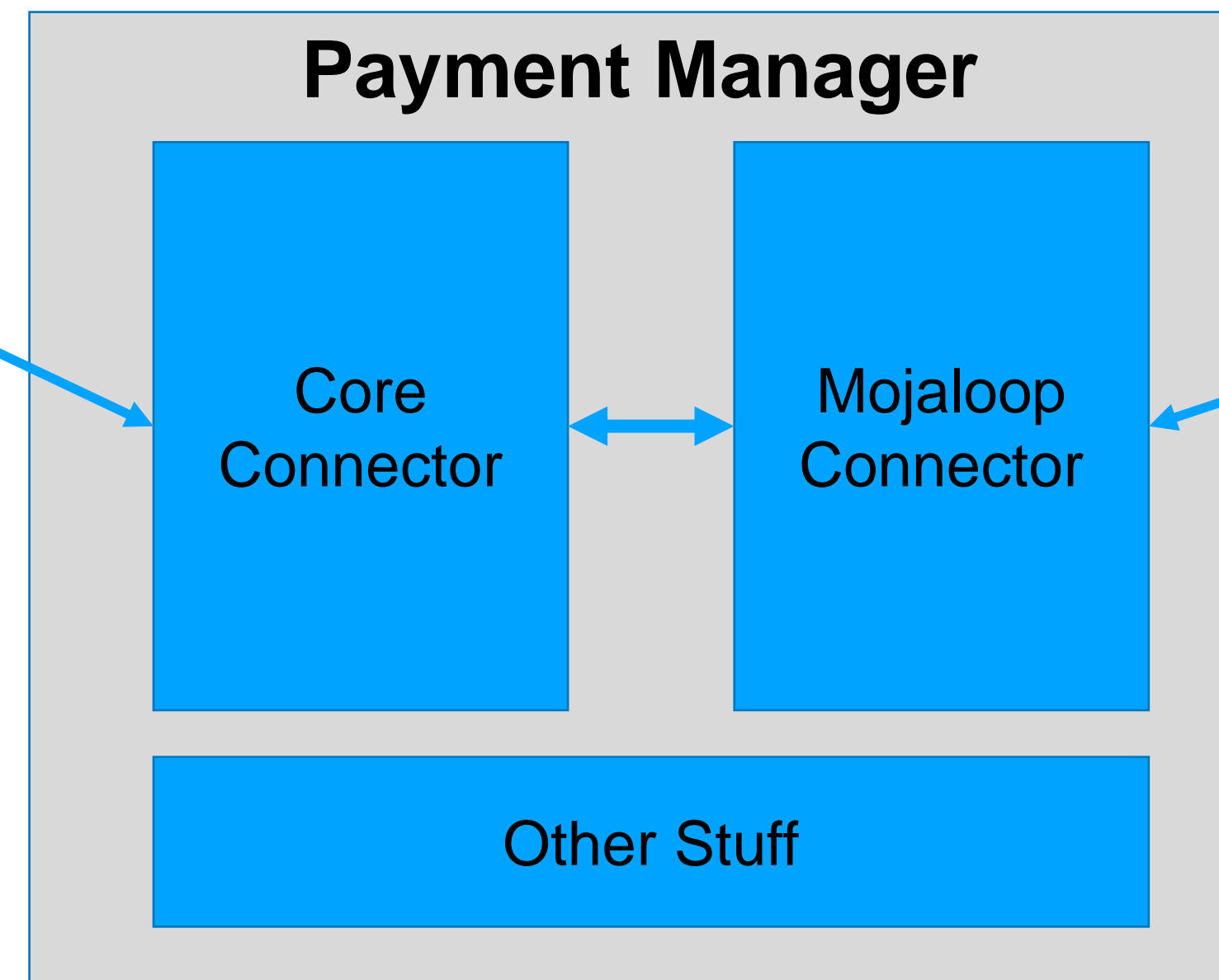
- This is a core use case for WynePay, so the STS has been fast tracked
- WynePay uses Payment Manager to connect DFSPs, which gives us a route to implementation: using Payment Manager for orchestration of bulk payments



Route to Implementation of the Short Term Solution

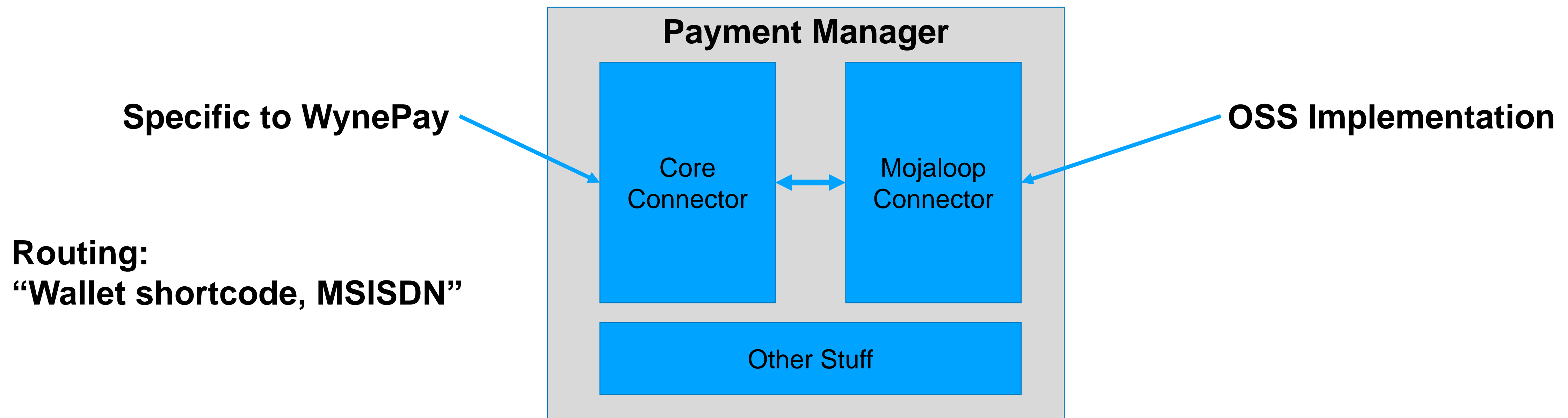


Specific to WynePay



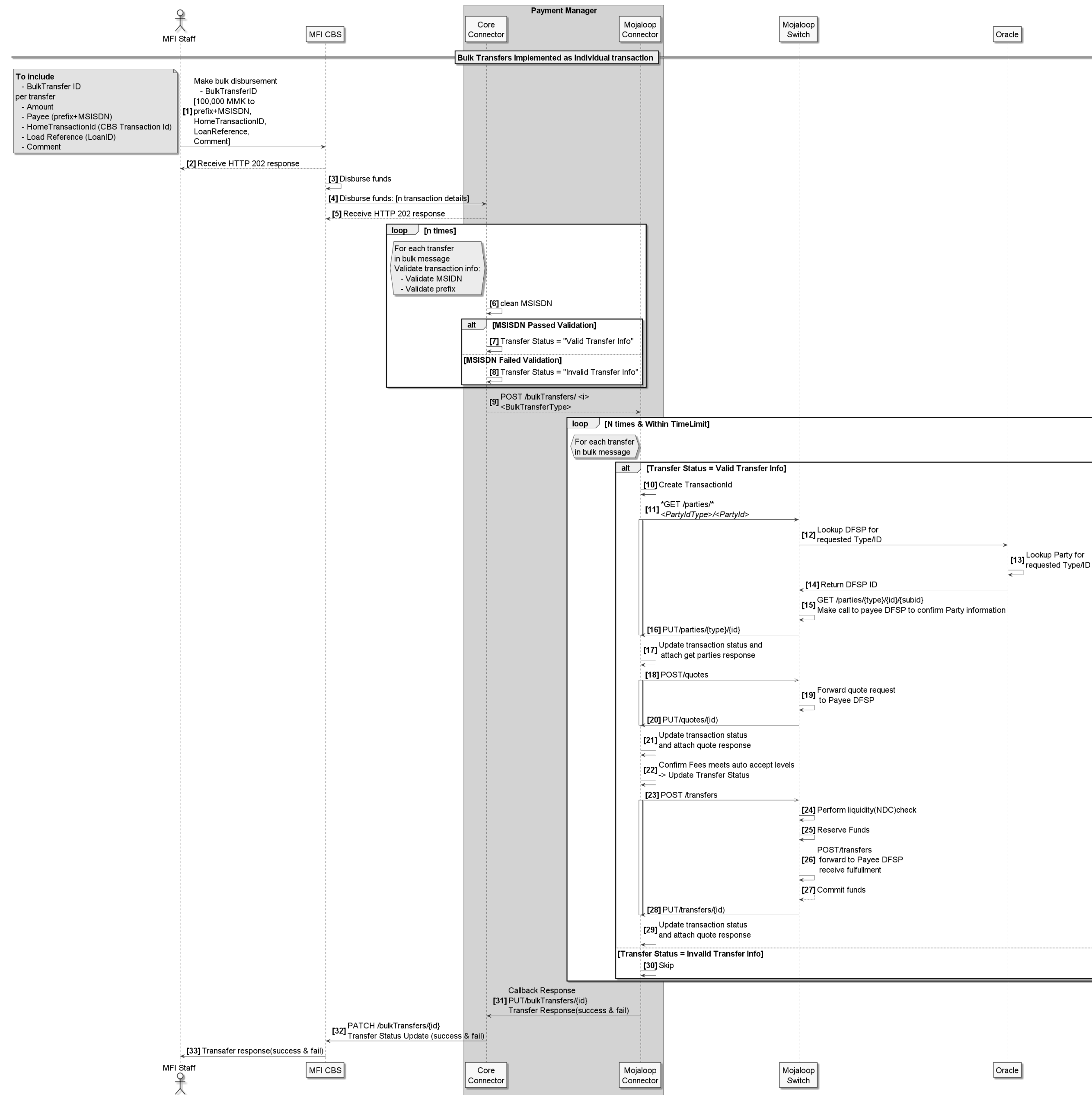
OSS Implementation

Route to Implementation of the Short Term Solution



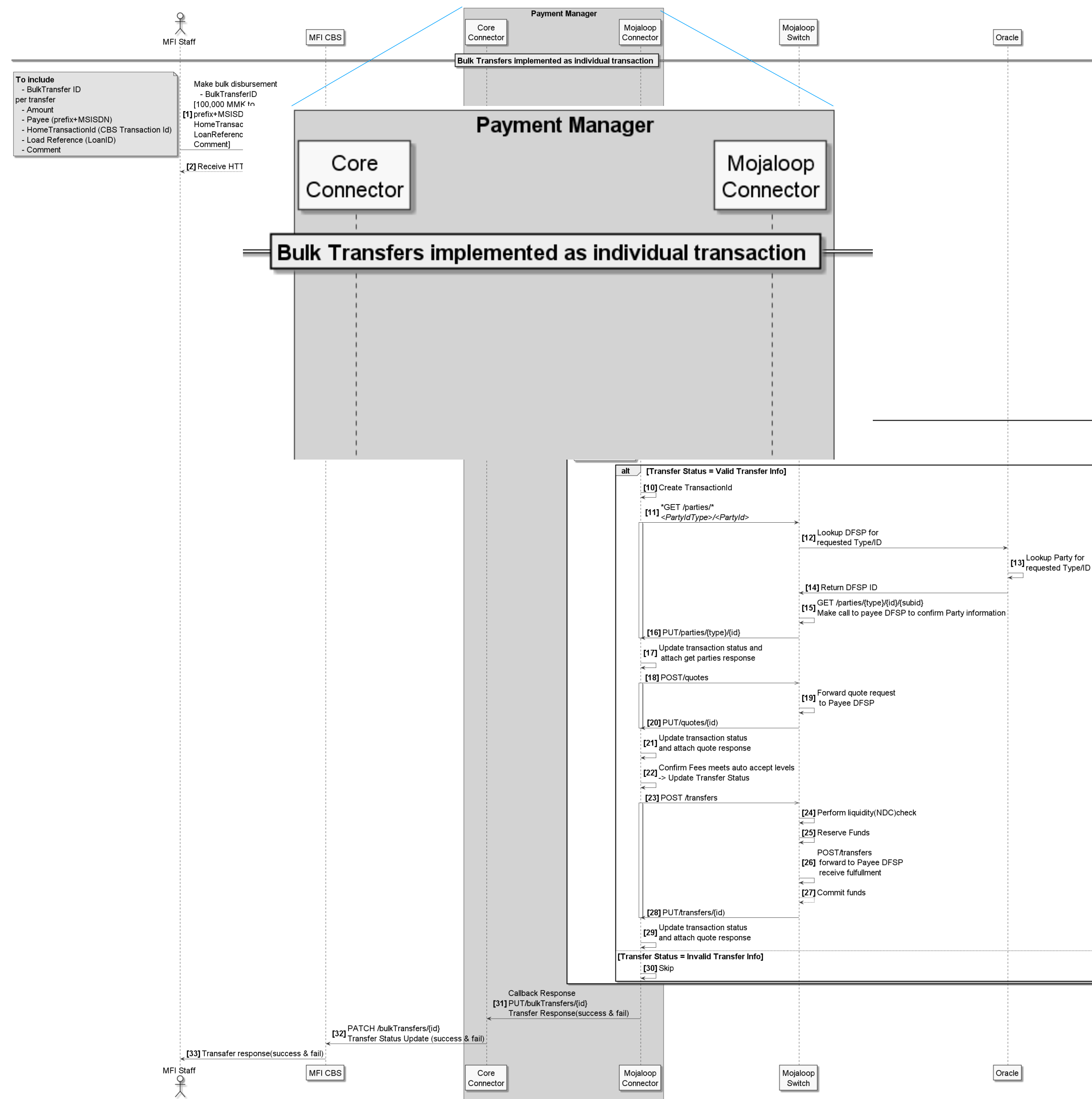


Process Flow

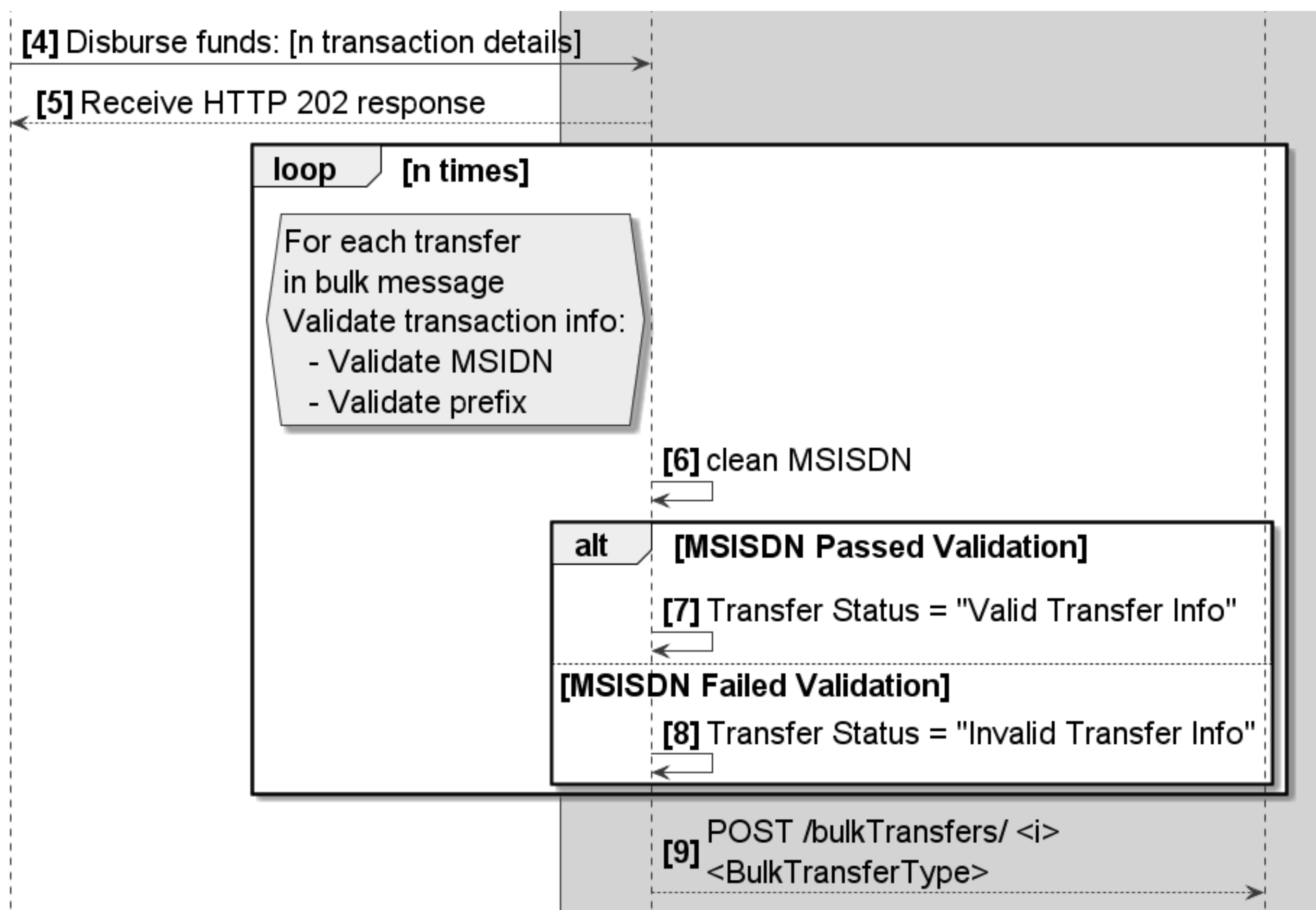




Process Flow

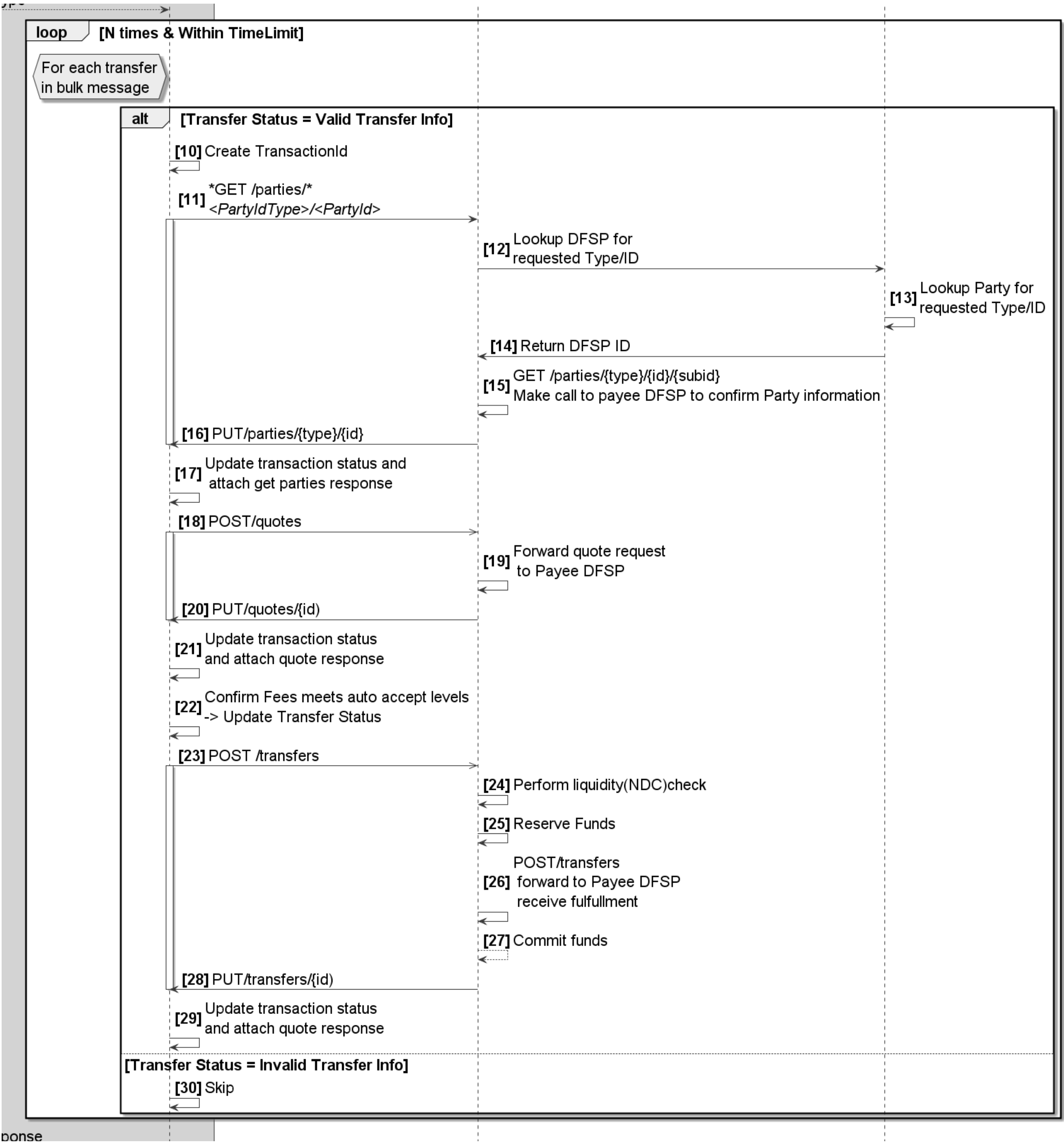


Process Flow: Core Connector





Process Flow: Mojaloop Connector



Progress



We have a design; it's been reviewed by the dev teams, and all of the user stories have been documented

- Sized, acceptance criteria defined, tests defined, etc.

Implementation has begun, and will be completed this PI

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Unanticipated Bonus:

During the design process, it became clear that the most straightforward route to implementation included the upgrade of the oracle to support P2P transactions



Thank you!

Comments/Questions?