mojaloop

Settlements

What will an API look like?



Separation of functions

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- The Mojaloop product provides a generic means of managing settlement
- Individual schemes manage the relationship with actual settlement mechanisms
 - What kind of value stores are used to settle obligations?
 - Do they contain central bank money, or commercial bank money?
 - Is there, or can there be, an automated connection with balance reporting?
 - Are calls for settlement funds automated, or can they be?
 - Are settlement accounts available 24*7, or are they closed for some periods?
 - Are non-banks allowed to settle, and if so on what terms?

Separation of functions

- The Mojaloop product provides a generic means of managing settlement
- Individual implementations manage the relationship with actual settlement mechanisms
- The interaction between the two components is managed by an API defined by the Mojaloop community
- This discussion covers:
 - What the Mojaloop component will do
 - What the interaction API will look like

What will the Mojaloop product do?

- Define a new entity: the settlement model
- Abstract the current assumptions in the core code to allow them to be controlled by variations in the settlement model
- Connect the new elements to a revised settlement API to allow external systems to interact with them
- Change some existing API definitions to accommodate the settlement model

What is a settlement model?

- Defines how a given set of ledger entries should be settled
- An implementation can support multiple settlement models

Variables in the settlement model

- Immediate or deferred?
- Net or gross?
- Multilateral or bilateral?
- Is liquidity cover required or not?
- What currency should this model settle?

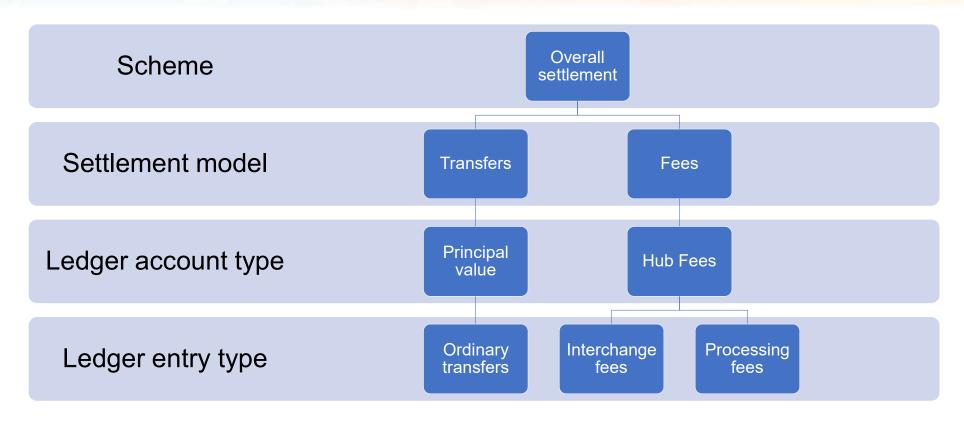
Currently supported settlement models

- 1. Immediate gross bilateral settlement
 - (gross and bilateral are tautologous...)
- 2. Deferred gross bilateral settlement (roadmap item)
- 3. Deferred net
 - 1. Multilateral settlement
 - 2. Bilateral settlement (roadmap item)

Populating multiple settlement models

- Each settlement model supports a single ledger account type
 - "Ledger account type" is simply a way of grouping entries in the switch's overall ledger...
 - Scheme administrators can define new ledger account types
- Each ledger account type can support multiple ledger entry types
 - When an entry of a particular type is made in a ledger, it will be assigned to the appropriate ledger account type
 - A ledger entry type can only belong to a single ledger account type.
 - Scheme administrators can define new ledger entry types

An example scheme settlement model



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- How do ledger entry types get into the ledgers?
- Well, via rules, of course... which is another story
- Whose objective is: to develop a Mojaloop API which will give scheme administrators full control over the allocation of ledger entries to settlements without involving developers...

So what functions will the API support?

- Define settlement models
- Request settlements
- Report settlement progress
- Record position adjustments
- Record adjustments to the Net Debit Cap

Defining settlement models

- Create new settlement model
- Modify existing settlement model
- Review settlement models
- Coverage check

Request settlement

- Request a settlement (manual)
- Should we support settlement timetables?
- Produce a settlement map

Report settlement progress

- Report on the content of a settlement window
- Report on current status of a settlement
- Update with progress of settlement

Record position adjustments

- Credit position (which might be a deposit...)
- Debit position (which might be a withdrawal...)

Net debit cap adjustments

- Define a net debit cap by participant, currency and account type
- Distinguish between scheme and participant components
- Allow scheme to vary scheme net debit cap up or down.
- Allow participant to vary participant net debit cap down

Any questions?