Explanation of 2.1 sequence diagram (Asset transfer from Ethereum to Quorum)

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BIF use case: exchange digital asset one to the other

### Procedures

- **Transfer asset from ‘source’ to ‘escrow’ on Ethereum**
  - If success then, transfer asset from ‘exchanger’ to ‘destination’ on Quorum
  - If success then, transfer asset from ‘escrow’ to ‘exchange’ on Ethereum
  - If failed or timeout then, transfer asset from ‘escrow’ to ‘source’ on Ethereum

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**Business Logic plugin is responsible for submitting transactions following pre-defined scenario**
BIF architecture

BIF is designed for building integrated service which securely interworks between multiple blockchain ledgers.
NOTE: This sequence is too large to see all at one time. Then, a simplified sequence model is written in the next pages.
NOTE: This sequence is too large to see all at one time. Then the separated sequence diagrams are written in the next pages.

Step 1: Escrow

Step 2: Transfer

Step 3: Settle escrowed
Sequence diagram [3/3]

- Application user
- Routing Interface
- Business Logic Plugin
- Verifier 1
- Verifier 2

- "Request to invoke smart contract to settle escrowed asset"
- "Request posted"
- "Request posted"
- "Request to update transaction status"
- "Transaction update accepted"
- "Transaction update accepted"
- "Update transaction status (asset is escrowed)"
- "Determining next operation (no more operation)"
- "Validate digital signs"
- "Settle transferred Ethereum asset"
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