Mojaloop - TigerBeetle Integration

PI-20 Community Meeting

26 October 2022

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Agenda

1. Business Drivers
2. PI-19 Progress
3. Constraints
4. Demo (Settlement)
5. Next steps & Questions

Business Drivers

1. Why are we doing this work?
   - Performance
   - Cost

2. Impact of work:
   - Business
   - Development

PI-19 Goals & Progress

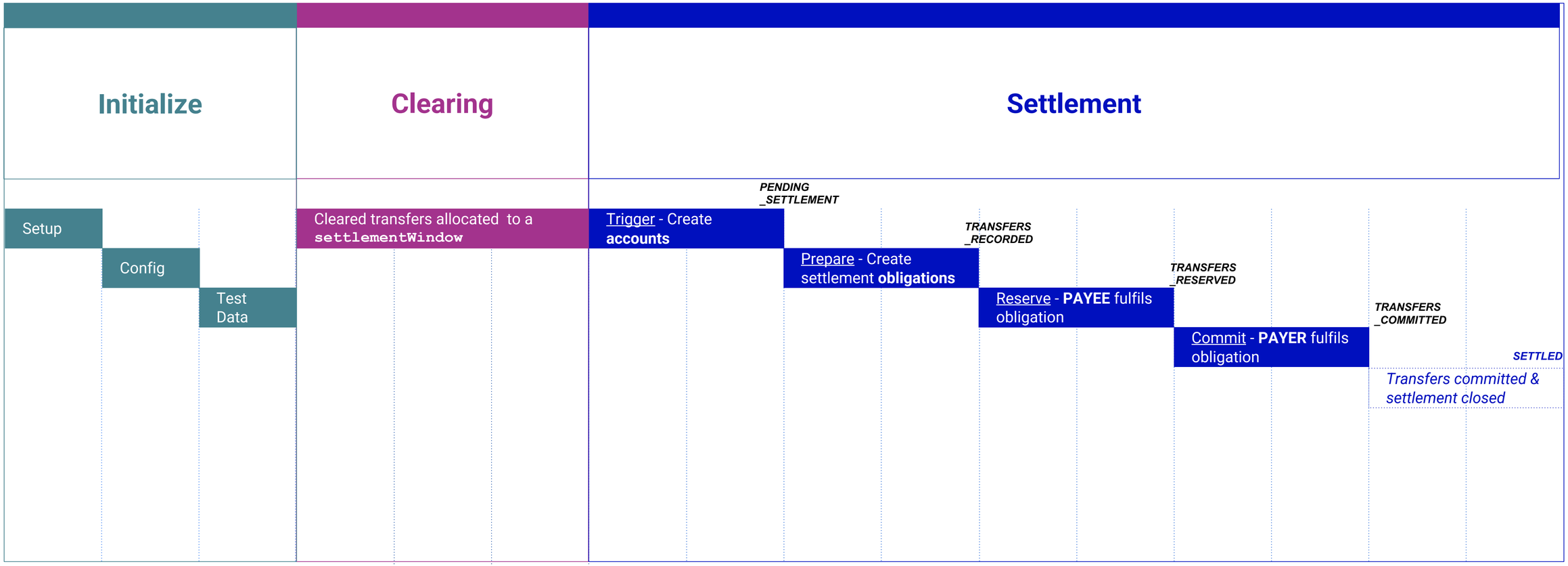
Goal	**Integrate TigerBeetle into Mojaloop**	
Key Objectives	1.Design document ✓ 2.Dev & regression testing ✓ 3.Integration tests !	4. Integrate into vNext * ! 5. Demonstrate settlement (**workaround*) !
Roadmap & Risks / Issues	**Roadmap** ● Remove data duplicated in SQL ● Integration review for Production readiness	**Risks / Issues** ● TigerBeetle production readiness
Define Success	● Add full test suite ● Complete implementation guide ● Quantify settlement performance ● Report total cost of ownership impact ● DA, Product Council & community review & approval process	

Constraints

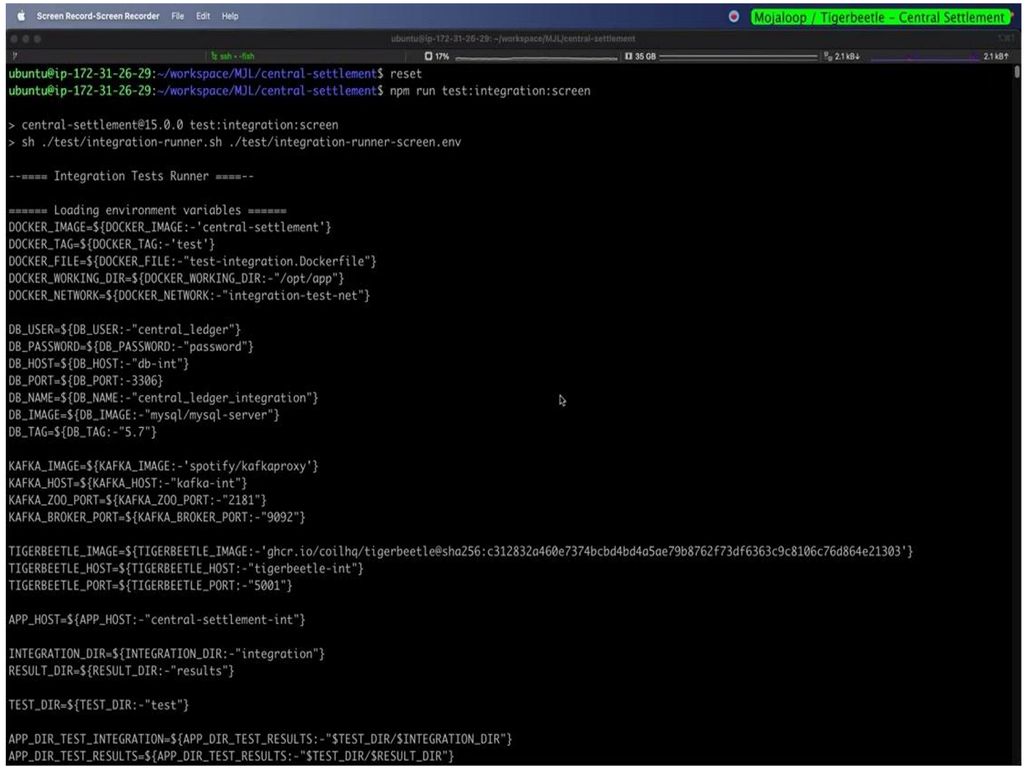
1. Need to expose TigerBeetle Transfer timeouts via API (*beta*).
   Currently dependent on SQL for Transfer timeouts.

2. Remove data duplicated in TigerBeetle & SQL by introducing TigerBeetle range queries.

Settlement Process



Demo - Clearing & Settlement



https://drive.google.com/file/d/1a7NesrbntvHyxzCpsIk7X6Hd7abJ6tpX/view?usp=sharing

Next Steps

1. Upgrade TigerBeetle to resolve the 2 constraints.

2. Complete settlement integration & expand testing.

3. Quantify performance.

4. Initiate community review process.

Thank you.