



Welcome !



Fabric Developer Community Call

July 11th 2019



Agenda



Today's Agenda :

- **New Programming Model - Java SDK, Event Handling APIs (Update) - Mark Lewis**
 - **JIRA Ref:** <https://jira.hyperledger.org/projects/FGJ/issues/FGJ-12>
(note: the earlier Java SDK Gateway call recording is <https://wiki.hyperledger.org/download/attachments/6423554/2019-0627-fabricdevcommunitycall.zip?api=v2>)
 - **Docs** <https://fabric-gateway-java.github.io/>
 - **Current snapshots (to try this out) is at:**
<https://nexus.hyperledger.org/content/repositories/snapshots/org/hyperledger/fabric-gateway-java/fabric-gateway-java/1.4.0-SNAPSHOT/>
- **AOB**

Community Support



- **Questions & Open Community Support (Stack, Mailing List, Twitter)**

Contracts: <http://stackoverflow.com/questions/tagged/hyperledger-fabric>
<http://stackoverflow.com/questions/tagged/hyperledger-chaincode>

SDKs: <http://stackoverflow.com/questions/tagged/hyperledger-fabric-sdk-js>
(etc ie 'language suffix')

Twitter: <https://twitter.com/hyperledger>

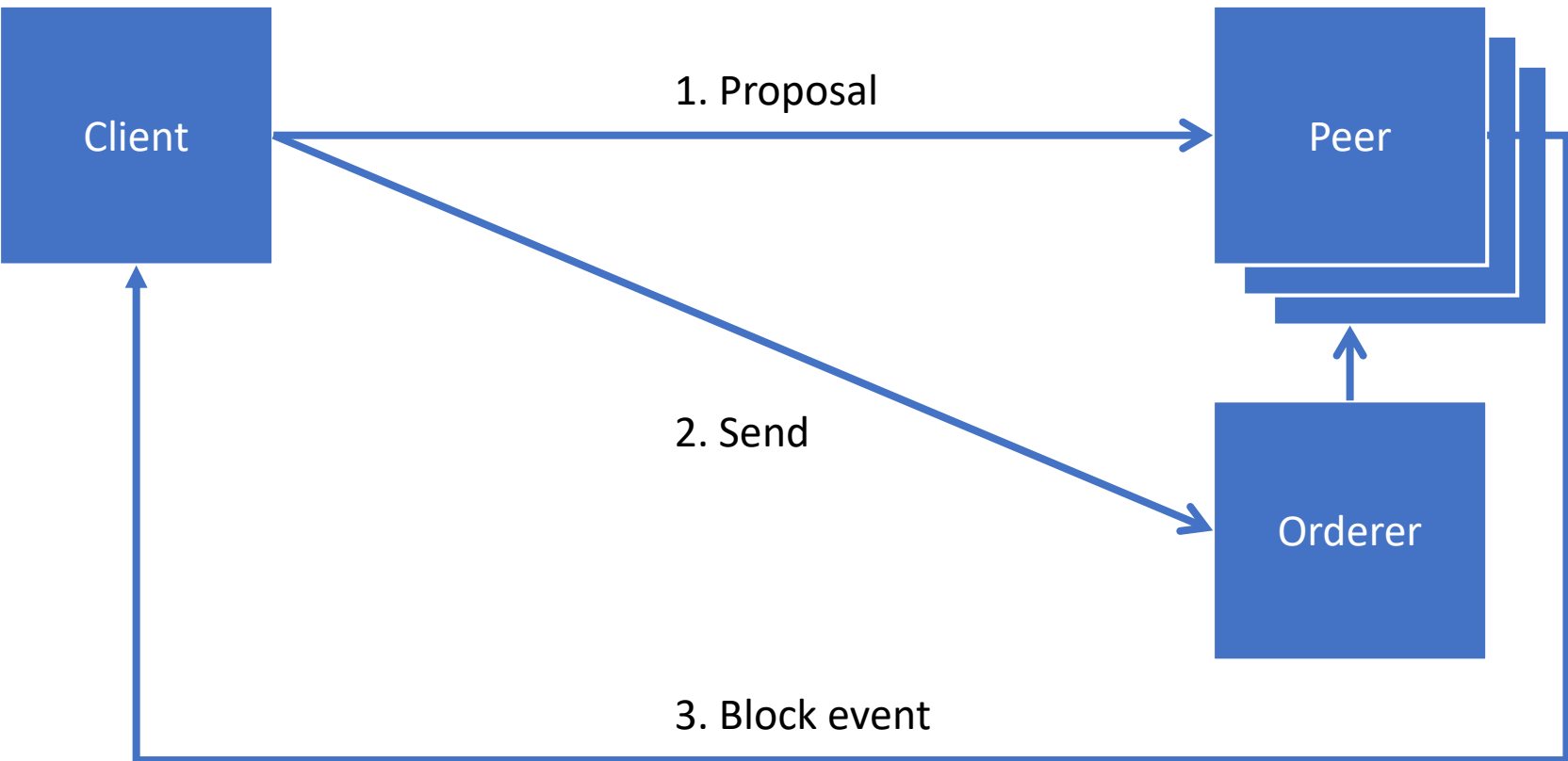
Mailing List: details next page

Java SDK event listening

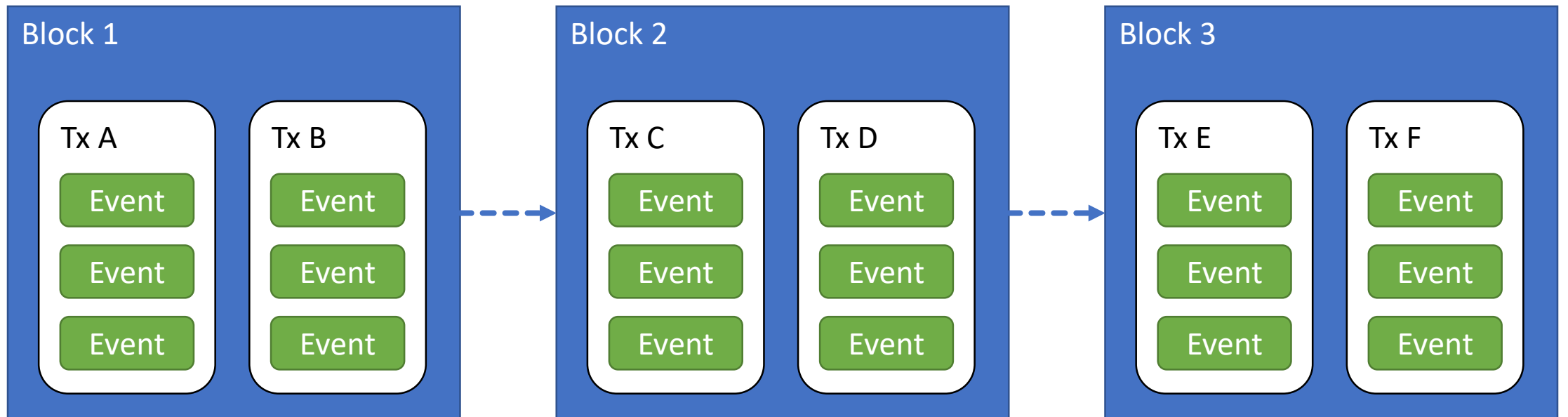
Mark S. Lewis

@bestbeforetoday (Rocketchat)

Transaction flow



Anatomy of events



Event listener types

Real-time event listening

- `Network.addBlockListener(listener)`
- `Contract.addContractListener(listener[, name | pattern])`
- `Network.addCommitListener(listener, peers, transactionId)`

Event replay

- `Network.addBlockListener(startBlock, listener)`
- `Contract.addContractListener(startBlock, listener[, name | pattern])`

Checkpointed event listening

- `Network.addBlockListener(checkpointer, listener)`
- `Contract.addContractListener(checkpointer, listener[, name | pattern])`

Lambdas as listeners

```
Consumer<BlockEvent> listener = network.addBlockListener(event -> {  
    // Do something with the block event  
});  
  
network.removeBlockListener(listener);
```


Links

Java API documentation

- <https://fabric-gateway-java.github.io/>

Community Chat



- **Developer Chat (RocketChat) – channel names**

<https://chat.hyperledger.org/channel/>

#fabric-chaincode-dev

#fabric-sdk-node

#fabric-sdk-java

#fabric-sdk-go

Community Support (Mailing List)



- **Hyperledger Mailing List**

To subscribe or unsubscribe, visit
<https://lists.hyperledger.org/g/fabric>

or, via email, send a message with subject or body 'help' to
fabric@lists.hyperledger.org

Lists (Subgroups): <https://lists.hyperledger.org/g/main>

Help: fabric+help@lists.hyperledger.org

You can change your settings once you log in at
<https://lists.hyperledger.org/g/main>

Further Links



- **Fabric Developer - Community Home Page**

<https://wiki.hyperledger.org/display/fabric/Fabric+Developer+Community+Calls>

- **Fabric Developer Community – resources**

<https://wiki.hyperledger.org/display/fabric/Fabric+Developer%3A+New+Programming+Model+resources>

Dashboard / ... / Fabric Developer Community Calls

Fabric Developer: New Programming Model resources

Created by Paul O'Mahony, last modified just a moment ago

Developing Applications using Hyperledger Fabric (using the new programming model)

https://hyperledger-fabric.readthedocs.io/en/latest/developapps/developing_applications.html

Fabric Samples Commercial Paper: <https://github.com/hyperledger/fabric-samples/tree/release-1.4/commercial-paper>

Go developer API (prototype) example - (see README): <https://github.com/awjh-ibm/fabric-go-developer-api>

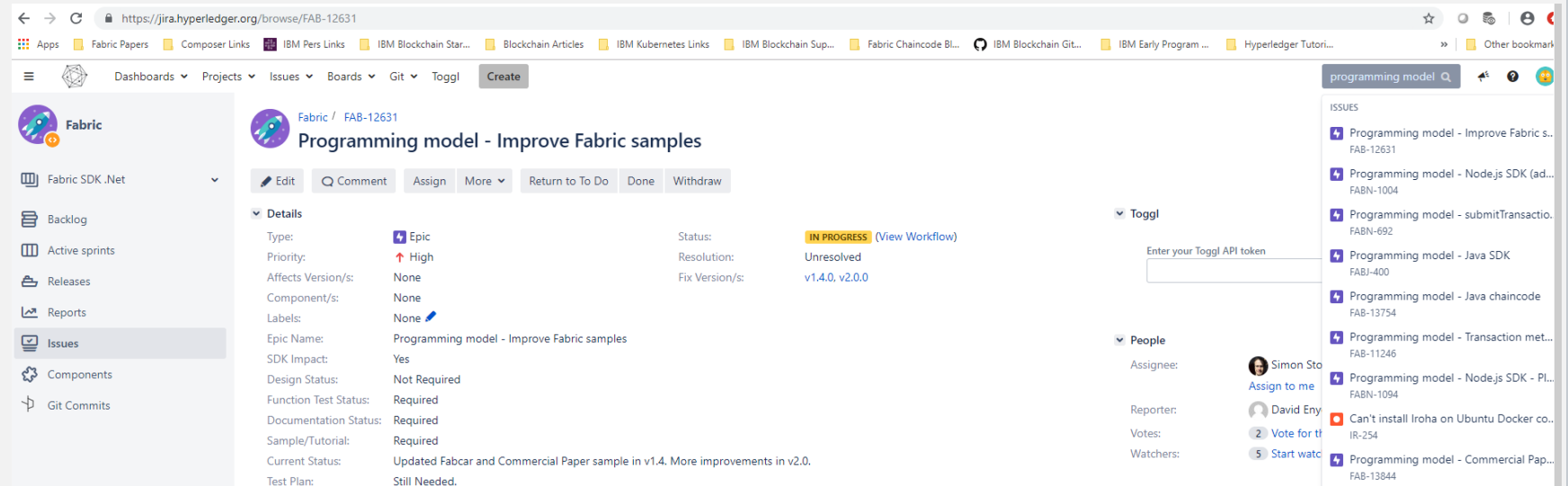
Resources, tips and best practices to share with the community

<https://github.com/ampretia/fabric-application-examples>

Fabric Team encourages you to review/comment on current Fabric JIRAs (ie stories, epics, requests relating to work-in-progress)

Eg. JIRA search - 'programming model' – (results below)

JIRAs – feel free to comment, give your input



The screenshot shows a JIRA issue page for 'Programming model - Improve Fabric samples' (FAB-12631). The issue is categorized as an Epic with a High priority. The status is 'IN PROGRESS' and it is currently 'Unresolved'. The fix versions are v1.4.0 and v2.0.0. The issue details include: Type: Epic, Priority: High, Affects Version/s: None, Component/s: None, Labels: None, Epic Name: Programming model - Improve Fabric samples, SDK Impact: Yes, Design Status: Not Required, Function Test Status: Required, Documentation Status: Required, Sample/Tutorial: Required, Current Status: Updated Fabcar and Commercial Paper sample in v1.4. More improvements in v2.0., and Test Plan: Still Needed.

The right sidebar shows a search for 'programming model' with a list of related issues:

- Programming model - Improve Fabric s... FAB-12631
- Programming model - Nodejs SDK (ad... FABN-1004
- Programming model - submitTransactio... FABN-692
- Programming model - Java SDK FABJ-400
- Programming model - Java chaincode FAB-13754
- Programming model - Transaction met... FAB-11246
- Programming model - Nodejs SDK - Pl... FABN-1094
- Can't install Iroha on Ubuntu Docker co... IR-254
- Programming model - Commercial Pap... FAB-13844

Reference



New Programming Model (1.4.x) :

- JIRA references - Fabric Programming Model Info:
 - <https://jira.hyperledger.org/projects/FABN/issues/FABN-692>
 - <https://jira.hyperledger.org/browse/FAB-11246>

THANKS!



CIAO FOR NOW!

