**Meeting Notes 6/23**

Theme: Shanghai library FOLIO project - ElasticSearch & checkout performance
Time: June 23, 2020 07:00pm (EST)

**Attendees:**
Vincent Bareau (Enterprise Architect, EBSCO)
Gang Zhou (Project manager, Shanghai library)
Sha Jiang  (Technical Director, Jiatu)
Lucy Liu (Product Owner, Folio China)

**Notes:**
1. Working Group Updates (Vince)
   a. Search Engine: Vince created a Slack channel for the search engine discussion. The ES discussion group will start to meet 6/24 6pm. (Shanghai time). A follow-up meeting will probably be scheduled this week.
   b. Circulation Redesign. Vince created a Slack channel for the circulation redesign group. Vince and Taras are preparing documentations based on the diagram Vince shared in our last meeting. Group meetings will be scheduled once the documents are ready.

2. Performance Test (Sha Jiang)
   a. In the circumstance of 1 server and 20 concurrents, requests handled per second increased 8 times (from 6/s to 50.3/s) when we used patch to bypass Okapi. The Shanghai team will test clusters and Okapi 3.0.
   b. Security concern.
      ● Jiang will do permission checks in the patch, not in Okapi. Use Okapi for deployment of the module, do separate calls to mod-permissions and mod-authtokens.
      ● Vince's comment:
         ○ Most institutions deploy modules separately and only use the registration service in Okapi. They don't ask Okapi to deploy for them.
         ○ The core-platform team decided to make changes to the authentication. Not to store permissions in the token any more. Instead, Okapi will gather permissions from the module that has been requested, make a call to permissions to get permissions of the user, then simply put a permission ID. The details will be kept in the registry related to the permission ID. Potentially there will be less calls to validate permissions.

- ○ The use of standard authentication mechanism (ORF2?) can also reduce interactions.
  c. Other concerns if bypass Okapi?
    - Okapi also plays the filter role. If Okapi is bypassed, the filter won't see the events going on in mod-circulation. The circulation log will be incomplete.
    - Okapi triggers updating data of new versions of folio. This doesn't matter much.
    - Okapi implements timers and has other small contributions.

3. ElasticSearch (Sha Jiang)
   a. Finished work
     - ElasticSearch server established
     - Indexed data from mod-inventory. It will not be a copy of mod-inventory crawls. Currency is not a big concern. Shanghai is open to Kafka.
     - Hard code data import tool. Java code.
     - Search API basically functional
   b. On agenda
     - Index metadata management to manage crawls of data
     - Create a better data import tool
   c. Vince will share the slides with Mikhail Fokanov so that it can be discussed in the group meeting.