

Theme: Shanghai library FOLIO project

Time: November 23, 2021 07:00pm (EST) / November 24, 2021 08:00am (GMT+8)

Attendees:

Vincent Bureau (Enterprise Architect, EBSCO)

Gang Zhou (Project manager, Shanghai library)

Sha Jiang (Technical Director, Jiayu)

Lucy Liu (Product Owner, Folio China)

Notes:

1. Concurrent Check-outs via Self-check do not check for patron item limits (CIRC-1345)

Vince:

- Had a chance to read the description and the comments of the ticket.
- Discussed with Harry and Khalilah.
- Is this a blocker for SHL's go-live?

Gang Zhou: No. We can fix the issue temporarily and locally. My concern is the mechanism of folio. We hope the community can confirm whether it is a bug that can be fixed in the Circulation module.

Vince:

- Have you determined if this is a bug with the Circulation App or the SIP configuration?

Gang Zhou: I think this is in the Circulation App.

Vince:

- It's too late to include it in the Kiwi release. We would have to delay the Kiwi release if we wanted to include a solution to this problem.
- Three steps are needed:
 - Do the research and identify the cause of the bug;
 - Figure out how to fix it and when;
 - Figure out who will fix it.
- There is a possibility that the Vega team could look into this to identify where the problem is. But it might be difficult for the Vega team to commit to fixing it themselves.
- The Shanghai team probably needs to solve the problem on the self-check machines temporarily so that the community will have more time to investigate it and fix it.

Gang Zhou: We configured the self-check machines so that they can send requests by sequence. So it's not urgent. Thank you for confirming that this is a bug.

Vince: We need to rewrite the circulation app at some point and formulate a different workflow for how the checkout happens. There's an opportunity to use this as a

justification to rework the circulation workflow. But this work won't happen immediately.

Gang Zhou: Do you think it will affect the performance of the folio circulation?

Vince: There's fixing of the particular existing issues with the circulation code. We are not aware of where the bug is and can't say what the solution has to do. There's certainly a possibility to insert certain steps into the workflow to solve the problem. The extra steps may cause additional latency. But the solution would allow parallel rather than sequential processing which may offset that latency. If you run concurrently, you can save time there. It might still be faster overall. Don't know for sure.


Gang Zhou: Is the Vega team responsible for circulation?


Vince: Khaliliah asked the Vega team to investigate, but the team doesn't necessarily commit to fix the problem.


Lucy: Khaliliah created a group chat and included the Vega team in the discussion. I asked her to invite Gang Zhou so that he can provide additional clarifications if needed. We also see a lot of people watching the ticket on Jira. I will let Gang Zhou know if I hear any updates.


Note: Here is the response Lucy received from the Vega team after the meeting.


Today ▾


 **Oleksandr Kurash** 2:05 AM
Hi @here. I agree with the analysis in the ticket description. When 20 check-outs run at the same time, they don't know anything about each other. The issue with the "maximum number of items" block is that check-out itself affects the ability to do a check-out. As a result, all 20 check-outs may pass the validation when run simultaneously, when it should have started failing after the fifth one, for example. To be honest, not only I don't know how to fix this in 10 minutes, I don't know yet how to fix this at all without making a check-out process fully synchronized, which would drop the performance significantly.


 **Oleksandr Kurash** 2:26 AM
To mitigate this drop we can probably make a separate endpoint for a "synchronized" checkout that would be used by a selfcheck machine only. And of course, it also can be handled on the selfcheck machine side by making checkout calls to wait for a processing result, but this is outside FOLIO and I don't know if it's possible or desirable.

 **Khaliliah Gambrell** 4:10 AM
Thanks @Oleksandr Kurash. So another FOLIO endpoint may address the issue?

 **Oleksandr Kurash** 4:49 AM
This is just one of the options. Yes, it would solve the problem, but it would also drop the performance, I mean that 20 checkouts triggered by the selfcheck machine would take much more time. I don't know if this is acceptable and honestly I would invite the architects to join this discussion - they might come up with a completely different approach.



 **Khaliliah Gambrell** 5:22 AM
Thank you @Oleksandr Kurash. I will bring in an architect. Who do you recommend? (edited)

 **Oleksandr Kurash** 6:15 AM
Lately, we've been working with @Raman Auramau. Maybe he'll recommend someone else or will ask to file a ticket and assign it to the architect team.

Sha Jiang: I noticed the synchronization problem also existing in other modules. It's not unique to Circulation. Will the community also check other modules?

Vince:

- Do you mean this problem is caused by http protocol? I am not sure. We don't know the cause of the problem yet.
- I don't know if this is a sip2 problem or a circulation problem. We still can't exclude the possibility that there is a problem with the sip2 implementation and the sip2 configuration passes the problem to circulation.

- If this is a problem with http, I would suppose you have noticed it before. When did you notice the problem?

Gang Zhou: About one or two weeks ago.

Lucy: SHL will apply the temporary solution locally and give the Vega team some time to investigate. Then we'll see how to go forward from there.

2. LDP

Gang Zhou: Any updates about LDP? Is LDP a separate project?

Vince:

- There are two parts: the LDP App and the LDP system.
- LDP is outside FOLIO, a separate project. LDP is a monolithic database for reporting purposes
- Recently, LDP App was added to FOLIO as a very simple application. Its responsibility is to form a query and send the query to the remote LDP system to get a response that is exposed in the FOLIO UI. It's simple now. It can't do joins. But it can access tables in the LDP which are pre-calculated join tables. The LDP App will be in FOLIO. But it does not do anything by itself. It needs to be connected to the LDP system, which has to be independently set up/deployed/configured to work with FOLIO.

Gang Zhou: So LDP is a different infrastructure and is not controlled by the FOLIO community?

Vince: Corrent.

Lucy: Is LDP included in EBSCO's hosting services?

Vince: When the LDP App is included in the Folio release, it will be available in the FOLIO distribution. The LDP App is in Kiwi, but the LDP server system is not. So the LDP App could be in the package, but it can't do anything unless it connects to the LDP system. LDP is not included in the EBSCO hosting services.

Lucy: EBSCO is providing two standard packages to the libraries: Full and ERM. How should we understand the Full hosting service? Must the libraries use all the Apps in the packages?

Vince: Folio ERM is mostly a transitional Folio offering. Libraries may not be ready to migrate from their current ILS to Folio. However, they may be missing ERM functionality in their current ILS. Folio ERM allows them to have ERM functionality, before completely moving to Folio. In the Folio Full package, the libraries can still choose what Apps they use. They don't necessarily use all the Apps in the package.