OpenMRS Synchronization

Sync Issues and Sync 2.0

2017/12/14 – Lilongwe, Malawi –[om.rs/17](om.rs/17)

Facilitator(s)	● Samuel
Attendees	~40-50 ● Burke ● Darius ● Blessings Mhango ● Jacob Mziya

Notes

PIH Rwanda has 2 sync servers with multiple sites connected to them
- "Moderate piece of work" to keep up
- Addressing multiple bugs per week
- 2 hours per week of effort to sustain

Mozambique have a main sync and distributed instances
- Having trouble with multiple IDs in the system

FACES is using synchronization
- Central server with 10 child servers
- Expected to grow
- Occasional issues with synchronization getting blocked
- Have developed SOPs to identify problems and address them
- Reporting is done from the central server (since it has all data from all facilities)

Sync 2.0 is an ongoing development project led by SolDevelo
- Goal is to create a more robust/stable version of sync useful to generic installs of OpenMRS (or anyone using the OpenMRS platform)
- Planning
- Daily Standups
- Working on setting up demo servers
- Request for implementations to test Sync 2.0

OpenMRS Synchronization

Sync Issues and Sync 2.0

2017/12/14 – Lilongwe, Malawi –om.rs/17

Questions

- How do we handle when patient is created on one child and is needed on another child server?
  - Not yet handled in Sync 2.0
  - Sync 1.0 does not handle conflict resolution
- What is the future of Sync 2.0? Will it be specific to OpenMRS?
  - Using ATOM feed module (to publish data) along with modules to synchronize data.
  - Some of these tools may be used to connect to another version of OpenMRS or even a non-OpenMRS machine (theoretical)
- How would Sync work with an HIE (like OpenHIE)?
  - Not sure this has been specifically addressed; however, it would be good to think about a path where a site might evolve from Sync to an HIE
- For Sync 1.x? Is it okay to delete a sync record and an encounter to get past a sync issue?
  - Generally not a good thing to do, but could introduce discrepancies that could cause issues down the road (sync issues or incorrect data)
  - If you know that the source of truth is on one server, then you can delete from target server(s) and resync.
  - We re-source everything 1-2x per year (big annoying task, but ensures consistency)
- Will Sync 1.x work on OpenMRS Platform 1.11+?
  - It is feasible it could work, but major sites are not using these versions, so you mileage may very.
- Sometimes (not very often) see duplicate patients with Sync 1.x. Does Sync 1.x have the ability to avoid these duplicates (by comparing demographics)?
  - This bug hasn't been seen widely. If we could find a reproducible case, it could be fixed.
  - There isn't any inherent validation to prevent duplicate patient records from being created.
- Does Sync 1.x deal with interruptions?
  - Yes. It should work for this.
-

OpenMRS Synchronization

Sync Issues and Sync 2.0

2017/12/14 – Lilongwe, Malawi –[om.rs/17](om.rs/17)

Action Items

- Touch base with SolDevelo to see