SET Profile – Work in progress

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Last discussion plan

- Describe all use cases related to Specimen Tracking for all identified macro-areas of interest
- For each use case, identify all information needed for tracking
- Decision for message/standard to be used: postponed after completion of the first two points above

SET Proposal Use Cases

- Completion of LBL profile with Specimens Collection Event
- Specimen tracking in Lab-to-Lab and Hospital-to-Hospital workflow
- Specimen tracking in LDA/LAW profiles
- Specimen tracking in Biobanks
- Specimen tracking for all PaLM profiles use cases

LBL Profile: Specimens Collected

- Once that LAB-63 (Specimens and container delivered) has been performed, the phlebotomist collects the specimens
- SET profile can track the “Specimens collected event” to notify all specimens which have been collected
- Notice that a specimen can be collected into more than one container

Specimens Collected event: main information to track

- Specimen identifier, date and time of collection, number of containers where the specimen has been collected. For each specimen, a set of container information:
  - Container identifier
  - Primary container identifier
  - Cap Type
- Exceptions: collection failed for some reasons related to patient, container broken, etc.

Lab-to-Lab, Hospital-to-Hospital events

- Reference: Inter-Laboratory Workflow supplements. Are there additional use cases?
- Use cases:
  - Specific tests referred to a reference Laboratory
  - Close cooperation between two Laboratories
  - Cooperation between a Hospital and a private specialized Laboratory
  - Specific tests subcontracted to a national reference Laboratory
  - Distributed process in a cooperative group of laboratories

LtL, HtH tracking: main issues

- Specimens travel from a requester (sender Lab/ Hospital) to a Receiver
- Integration between the two actors is different according to use cases (collaboration level)
- This often implies tracking of patient information in addition to specimen information
- In some use cases, the containers are Labeled again at the receiver

LtL, HtH: main information

- Patient identifier (*)
- Specimen and container identifier and type (*)
- Specimen collection, container delivery and receiving datetime
- Requester and receiver institution codes
- Specimen Reject reason
- All required tests codes and description (*)
- Three events can be tracked:
  - Specimens collected by Requester
  - Specimens Sent by Requester
  - Specimens Accepted/Rejected by receiver

(*) Information can be different in Req/Rec, according to integration/collaboration

LtL, HtH: issues to handle

- Specimens labeled by Requester with Patient identifier (no barcode assigned)
- Missing Patient Demographics integration between Req/Rec institutions
- Specimens re-labeled by receiver
- Additional use cases to be added in the analysis? Reference docs?

Specimens tracking in LDA/LAW profiles (Preliminary Analysis)

- For S-WOS we should track:
  - Specimen Arrival and Pre-Processing actions events (sorting, centrifugation, aliquoting, transportation, decapping)
  - Post-processing actions (recapping, transportation, storage)
- For A-WOS we should track:
  - Arrival, Tests execution, leave at every LD
  - Rerun and Reflex tests

LDA/LAW future works

- S-WOS: related to a profile (LDA) which is planned for change: do we go on with the current version, or wait for new developments?
- A-WOS: detail use cases and list set of needed tracking information

Conclusions and next steps

- Complete LDA/LAW analysis
- Collect documents for Biobank analysis
- Remaining PaLM profiles analysis
- First version of a SET proposal to be shared in the Google group