Status of the Hardware Database

- The dev. version has been running stably, according to our daily cron job.

- We are very close to release the production version.
- We are left with one final test and minor updates (see the next page).

- The final test is to upload data to both versions of the HWDB.
  This will happen later today.

Some inconsistency behaviors between the WEB UI and the RESR API

- Test Specifications:

  Currently we can't edit the Test Spec definition through the REST,

  while we can in the WEB UI.

- Item Specifications:

  We can update the Item Spec definition in the WEB UI.

  E.g., add new fields. The WEB UI then shows the new and old fields.

  Nevertheless, this allows us to enter to the new fields.

  On the other hand, we are not allowed to add the new required fields

  while keeping the old ones.

- We can define an empty Spec definition in the WEB UI,

  but can't through the REST.

- Still not sure how to GET/POST an image from/to a certain TEST entry

  via the endpoint, /component-tests/{oid}/images.

  How could one obtain an "old"?

Tracking shipments
at a warehouse in Rapid City

The following slides (questions/comments) were induced by Mike's [talk](#)
given at the I&I session of the previous collaboration meeting

- **Met with the FDC Logistics team at the collaboration meeting.**
  (Ladia Jakubec, Susie Thompson, Mike Pfaff)
  The FDC Logistics team bridges communications between Warehouse and DUNE.
- **And learned that:**
  ‣ **Warehouse staff will scan QR-codes that are attached to shipments.**
  ‣ **They like to obtain the corresponding PIDs and descriptions of the components**
     by scanning the QR-codes.
  ‣ **But they will NOT have credentials to access to the HWDB.**

  … so, what is the issue?

QR-code generated by the HWDB

- **HWDB produces a QR code.**

- **The code contains a hyper-link:**

  https://dbweb9.fnal.gov:8443/cdbdev/view/component/150922

  where 150922 uniquely corresponds to the PID, Z00100300001-01388.
- **The relationship between the unique # and the PID can easily be found**
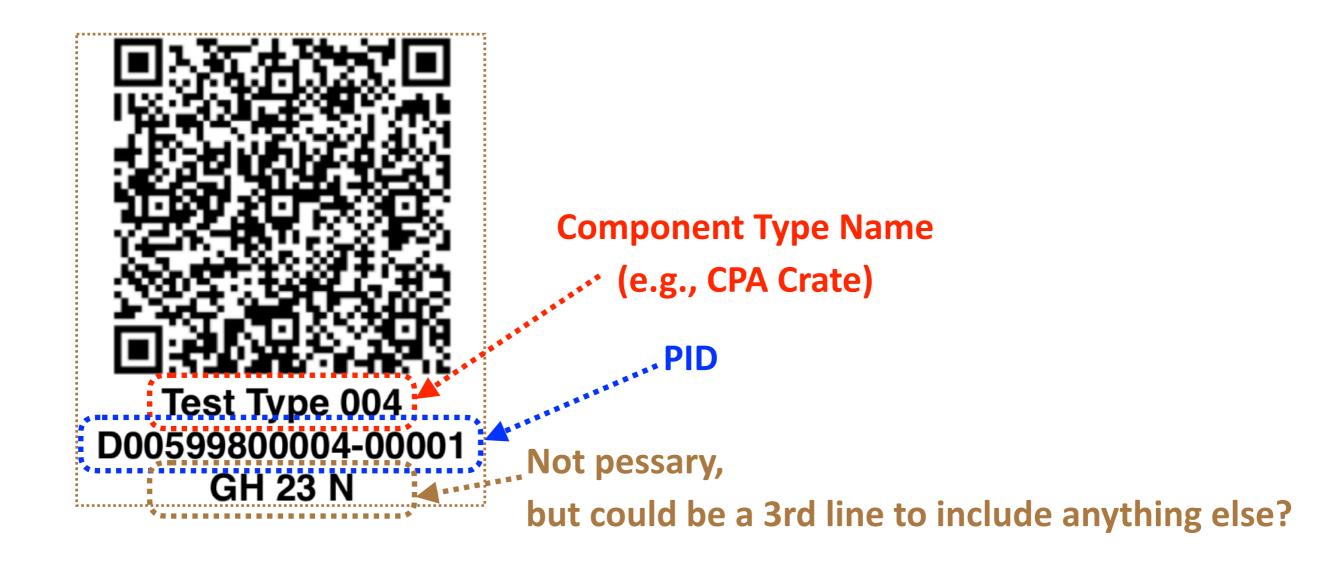
  if you could access to the HWDB.

Changing the embedded path?

- Since the warehouse folks won't be able to access to the HWDB,
  would it be possible to have the HWDB to generate a QR-code that
  contains a hyper-link like;
  https://dbweb9.fnal.gov:8443/cdbdev/view/component/Z00100300001-01388
  instead of
  https://dbweb9.fnal.gov:8443/cdbdev/view/component/150922 ?

  By the way, the above link,
  https://dbweb9.fnal.gov:8443/cdbdev/view/component/Z00100300001-01388
  already works.
  So the change needs to be done only in the generation of QR-code?

Adding human readable extra lines?

- Would it be possible to add some human readable lines right below the code?

Component Type Name
(e.g., CPA Crate)

PID

Test Type 004
D00599800004-00001
GH 23 N

Not pessary,
but could be a 3rd line to include anything else?

... or

- **If we could agree on that our QR-codes do not need to include hyper-links, then one could embed a few human readable lines there, such as;**
  - **PID**
  - **Component Type Name**
  - **Anything else.**
- **I'm sure any scanner could read these.**
  It just will not take you to the corresponding Item site.

... or

- **The HWDB generates Bar-codes as well.**

- **And already prints a PID there.**

- **But not description (name).**

- **Add a Component Name there as well?**

- **Ideally it would be great if we could use BOTH QR/Bar-codes for shipments.**
  (Still prefer QR over Bar though. QR can contain far more # of characters
  and provide faster (less erratic) scanning speed)

How would the shipment info get to the HWDB?

- **Assuming warehouse staff can scan the QR/Bar-codes and**
  can obtain PIDs and descriptions (e.g., Type names) of shipments,
  how would that info reach the HWDB?

- **When a shipment arrives at the warehouse:**
  - ▸ **The warehouse staff scan its QR/Bar-code**
  - ▸ **They perform a visual inspection.**
    If anything wrong, a detail report will be generated, along with photo(s).
  - ▸ **The scanned info will be stored in their inventory system,**
    along with its BoL, tracking #, PO, and the inspection result.

- **The FDC Logistics team generates a report out of the inventory system**
  and provide it to us (see the next page).

(Weekly) Warehouse Report

FDC Logistics team provide weekly report to us.

- **The report is generated based on the inventory system of the warehouse.**
- **"us" needs to be defined, maybe liaisons from each consortia?**
- **It could be daily or monthly, depending on how we want it.**
  We need to request.
- **Provided electronically (emails, likely?).**
- **In pdf, word, photographic images, and/or csv files.**
- **The report includes:**
  - ▸ **Received(@ Warehouse)/Sent(to SURF) dates**
  - ▸ **PID and the corresponding Component Type name**
  - ▸ **Result of visual inspection (w/ photos, if needed)**
  - ▸ **BoL, PO, and tracking #**
    Anything else that we like to be included?

Storing Weekly Warehouse Report in the HWDB

- This info needs to be stored in the HWDB.
  We could provide a generic template for such DB schema once the format of
  the repot is finalized.
- If need to, we could also produce standalone app(s) (iPad's, Python),
  that would, e.g., take a csv and image files as inputs and upload them.