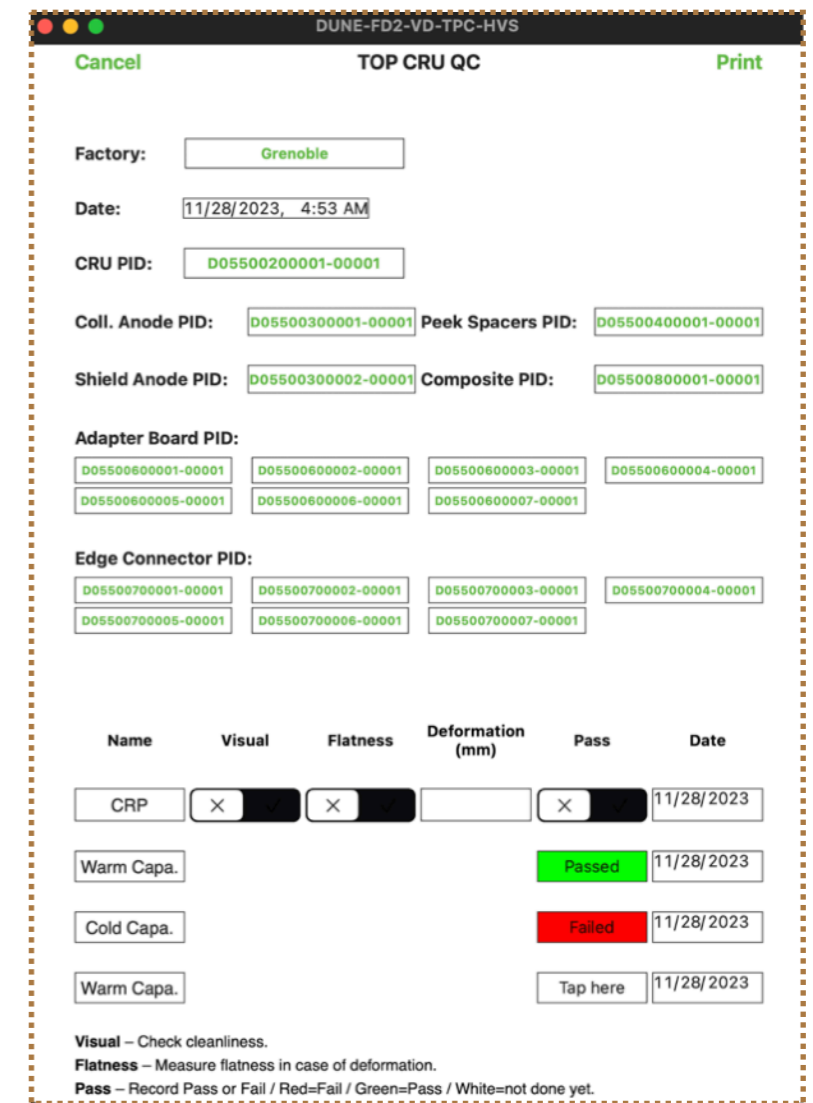
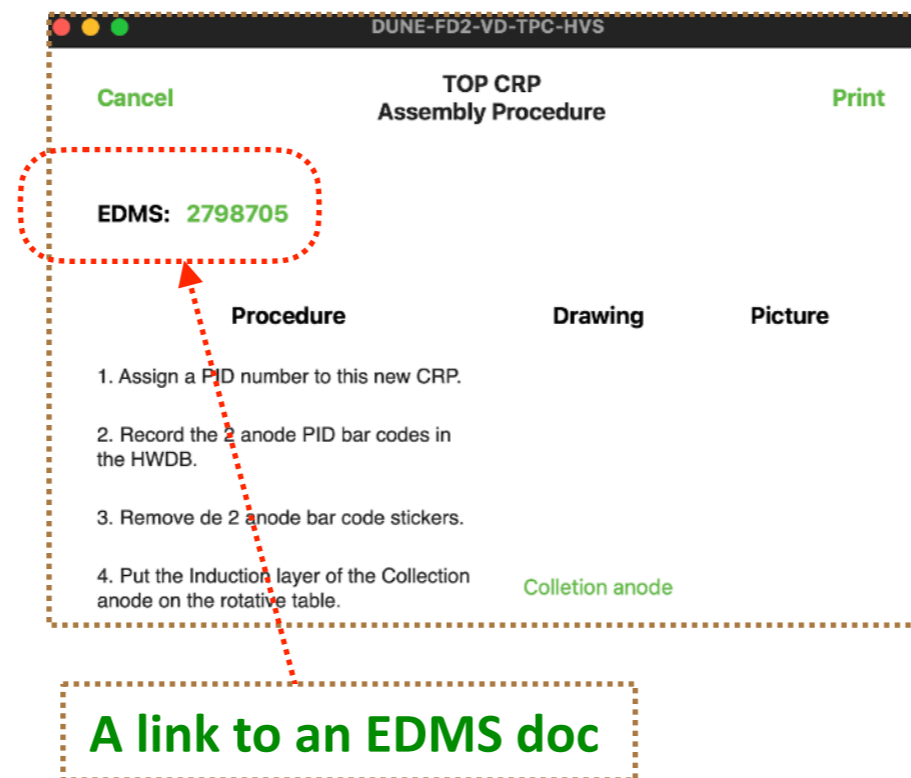
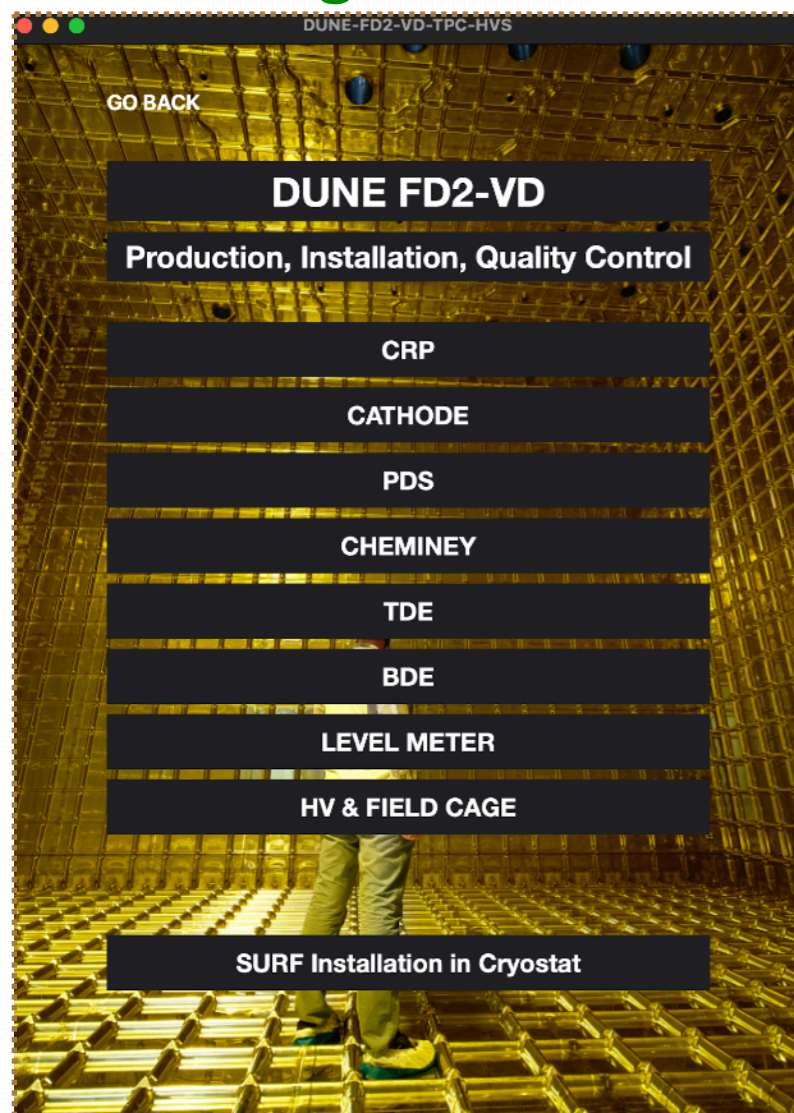


# Presenting the HWDB at ND group meeting

- We were invited to give two presentations:
  1. Intro to the HWDB 3 weeks ago. Jim Stewart also joined.
  2. Intro to our QC apps 1 week ago.
  
- Three things that were brought up.
  1. They need to assign (P)IDs using drawing #s, EDMS #s, and their internal IDs.  
The DUNE PIDs don't allow this. The easiest solution is to use Serial #s  
The HWDB doesn't check its uniqueness, but apps can.
  2. They like to embed direct links in the HWDB to EDMS documents.  
As far as I know, we currently can't (in YAML?), correct?  
We could store them in texts (doc #, versions, and links), of course.  
Our apps can. In fact, we are already doing it in iPad app.
  3. There were questions of how exactly we plan to retrieve the stored data.  
While our iPad app makes PID lists and allow user to access to stored data,  
I admit it currently has minimal searching/displaying functionalities.  
Like to hear more about this from them (how they like to store, and then retrieve)

# Development of the iPad app for the CRP consortium started

- Jean-Francois and Jean-Sebastien (LPSC-Grenoble) contacted us recently and asked us if we could generate some sample pages of checklists/procedures.
- They are now running our iPad app on their iPads and Macs and they are now working with us on an advanced version.



# Shipping Tracker via the HWDB

- To keep track;
  - where a certain shipment (**a PID**) currently is,
  - when it was sent/received and by whom.

These (**a history of a shipment**) are all stored in a “**Test Log**” for a given PID, which allows us to keep updating it.
- Thus, it would be trivial to tell,  
e.g., how many shipments of certain type (**a Component Type**) reside at a certain location.
- Implementing this for tracking CPA crates for now.  
But this can be employed for any Component Type.

# Opening page

For a quick start  
(e.g., when you already have a QR-code),  
tap the “Scan a QR code” to proceed.

Cancel Shipping Tracker Add a Type ID

Scan a QR code

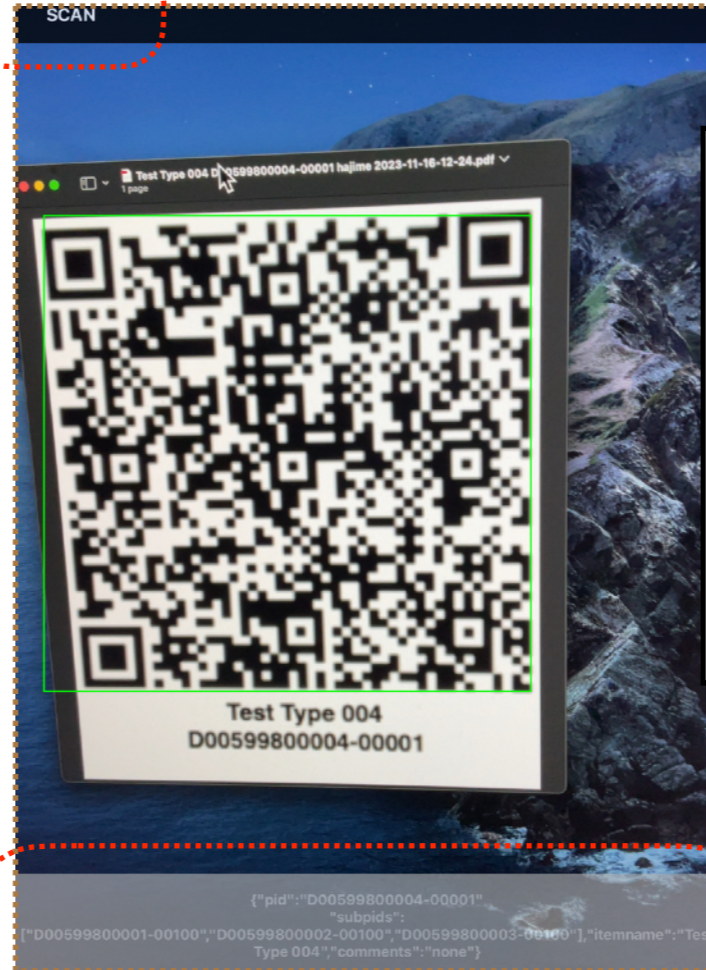
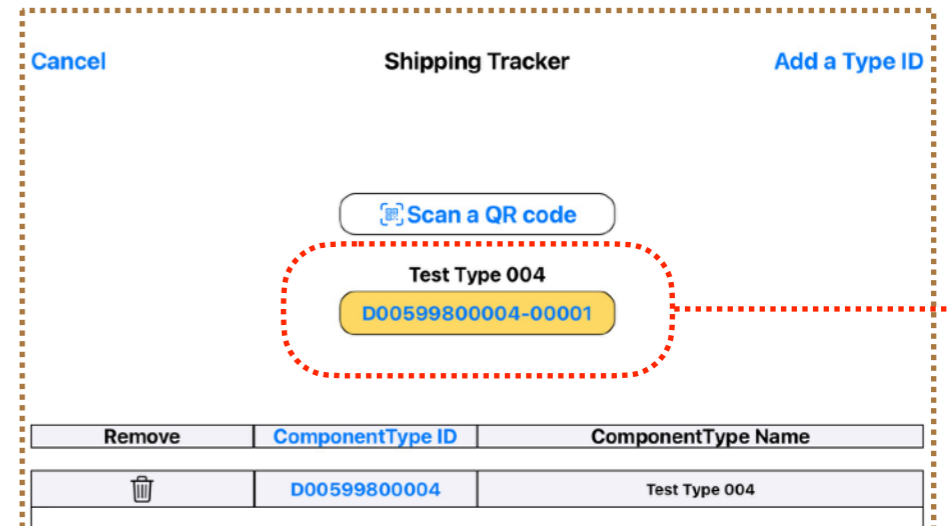
Remove	ComponentType ID	ComponentType Name
	D00599800004	Test Type 004

Remove a Type ID

Else,

- Start with a list of Type IDs.
- A Type ID corresponds to a type of shipment (e.g., CPA Crates).
- A PID correspond to a shipment (e.g., a CPA Crate).
- You can add/remove shipment Type IDs to this list.
- The app remembers the previously employed Type IDs.
- Select a Type ID to proceed.

# Scanning a QR-code



The app reads;

- a PID
- a list of sub-comp PIDs
- Component Type name

out of a QR-code.  
Tap the scanned PID to proceed.

```
{
  "pid" : String,
  "subpids" : [String],
  "comments" : String
}
```

The info in our QR-code is embedded in JSON format. We like it to be as simple as possible so that one can also read it easily directly from the camera session. One could put anything else in the "comments" key. (e.g., "CPA Plane #, CPA Panel #, Lab name" ... etc)

**Tapping the scanned PID takes you to a “history page”,  
that shows the entire shipping history of that shipment (a specific PID).  
See the next slide...**

**Easily/quickly access to a page that shows the entire history of that shipment (a PID).**

Close
History List
QR-code

Selected PID	Selected Component Name
D00599800004-00001	Test Type 004

**Sub-component PIDs (Component Type ID : Functional Position)**

D00599800001-00100 (Test Type 001 : Sub Comp 1)  
D00599800002-00100 (Test Type 002 : Sub Comp 2)  
D00599800003-00100 (Test Type 003 : Sub Comp 3)

Comment on this Item Save

A very important component!

+ Create a new LOG

Destination List

Time (CST)	Location	Sent by	Received by
2023-11-04 18:22:32	Ithaca/NY		Hajime Muramatsu
2023-11-04 11:40:58	Syracuse/NY	Hajime Muramatsu	
2023-11-04 10:12:33	Syracuse/NY		Hajime Muramatsu
2023-11-03 23:50:10	Minneapolis/MN	Hajime Muramatsu	
2023-11-02 20:32:38	Minneapolis/MN		Hajime Muramatsu
2023-11-02 06:08:11		Hajime Muramatsu	

## History page

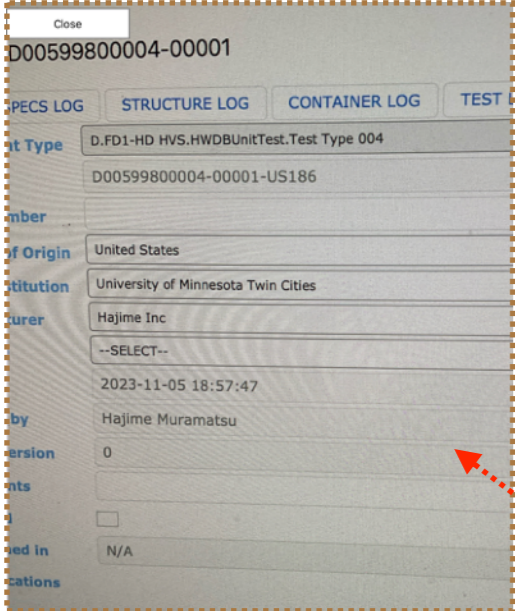
**Could also generate/print the corresponding QR-code (see a later page)**

**A list of sub-components is shown automatically, if any exists.**

**Comments for this shipment can be entered.**

**One can enter a new entry here**

**or modify the existing ones. See the next page.**




# Editing an existing LOG

(a page for entering a new LOG is very similar)


**Shipment Info**

<b>Selected PID</b> D00599800004-00001	<b>Selected Component Name</b> Test Type 004
<b>The last time entered to the HWDB</b> 2023-11-27 06:10:46	<b>The last modified by</b> Hajime Muramatsu

**Comment on this history entry**

 **Take a photo**

**Comment:**



**Location**

St. Paul/MN Minneapolis/MN Syracuse/NY	Minneapolis/MN : 115 Union Street S.E. Minneapolis, MN 55455
----------------------------------------------	--------------------------------------------------------------

**By whom**

Sending	receiving	Hajime Muramatsu
---------	-----------	------------------

**Your Local Date/Time**  
Nov 2, 2023 6:08 AM

**Date/Time in CST**  
Nov 2, 2023 6:08 AM

Comments for each LOG can be entered.

A picture/comment for each LOG can be attached.

A pinch-able image pops up by tapping it

List of locations can be predefined to minimize typos. Or you can type in directly here.

Date/Time is converted to CST... for now. (local time is defined by your iPad) Should it be the time at SURF or more like GMT?

A LOG can be deleted as well.



# Generate/Save/Print a QR-code

[Close](#) Generate a QR-code Print QR-code

Selected PID	Selected Component Name
D00599800004-00001	Test Type 004

**Sub-component PIDs (Component Type ID : Functional Position)**

D00599800001-00100 (Test Type 001 : Sub Comp 1)

D00599800002-00100 (Test Type 002 : Sub Comp 2)

D00599800003-00100 (Test Type 003 : Sub Comp 3)

[Display the QR-code](#)



Test Type 004  
D00599800004-00001

Additional lines?

Save as:

PNG

JPG

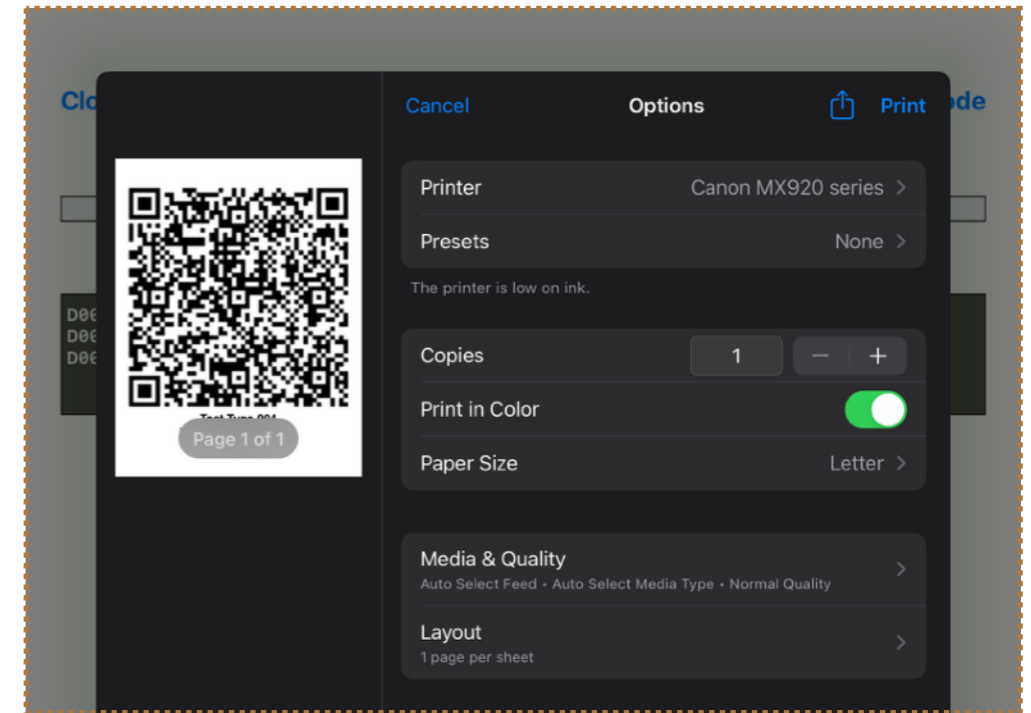
PDF

Where to save?:

/Tracker/QRImages/

Photos

[Save It!](#)



- QR-code includes main+sub PIDs in the JSON format.

```
{
  "pid" : String,
  "subpids" : [String],
  "comments" : String
}
```

- By default, two extra lines are attached right below the code:
  - Its Component Type Name
  - The main PID

# Without scanning a QR-code to start

[Close](#) PID List

Selected Component Type ID D00599800004	Selected Component Name Test Type 004
--------------------------------------------	------------------------------------------

[+ Add a new PID](#)

PID	Last modified	Latest location	By whom
<a href="#">D00599800004-00002</a>			
<a href="#">D00599800004-00001</a>	2023-11-03 11:25:00	Minneapolis/MN	Hajime Muramatsu

On the very 1st page, you could select a particular Type ID to proceed.

That takes you to this page, PID List. Shows a list of PIDs of that selected Type ID.

The listed PIDs are not all available PIDs, but only the ones that already have our **Shipment Test Type** defined.

One can add existing PIDs to this list, or generate completely new PIDs and add them to this list.

# Adding a new shipment (PID)

[Close](#) Adding a new PID

Selected Country/Institution: **United States / University of Minnesota Twin Cities**

Manufacturers: NONE  
Hajime Inc  
CERN

Selected Type ID	Selected Component Name
D00599800004	Test Type 004

3 sub-components are expected.

Func. Pos.	Type ID	Selected PID
Sub Comp 1	D00599800001	<a href="#">Tap here to select</a>
Sub Comp 2	D00599800002	<a href="#">Tap here to select</a>
Sub Comp 3	D00599800003	<a href="#">Tap here to select</a>

Comment on this new Item.

[+ Add this PID](#)

Straightforward to add a new PID, once a particular Type ID is selected in the Intro page.

One can assign sub-component PIDs here as well using the “PID Display”.

- **Will start to test this functionality along with the CPA Shipping Crate checklist... probably later this week and see how it flows.**