ICS Engineering Manual

for an Inventory System with JIRA and EPICS

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1 Overview

There are infinitely ways to develop and maintain an inventory system. However, this inventory is the unique and **temporary** solution for the ICS Lab, especially, where the author works at. This inventory system is designed to minimize our time when we register an item to the existent JIRA ICS HW&I group inventory task. Therefore, it does **NOT** provide any fancy and beautiful ways to interact with users, BUT provide the minimal tool to monitor and track any equipment in ICS, ESS, and any IK partner. And the system only provide the following two features :

- Do stock an item to JIRA, and do Add-and-Print its barcodes.
- Do add-and-print the barcodes of the item, which was registered in JIRA before.

1.1 Inventory Workflow

1.1.1 How to stock an item at the first time to JIRA

1.1.2 How to add and print barcodes for an Item which has registered in JIRA

1.2 Components

1.2.1 Hardware

- Honeywell Xenon 1900g (Wire) Barcode scanner or Honeywell Xenon 1902g (Wireless) Barcode scanner
- DYMO LabelWriter 450 Duo

1.2.2 Software

- Linux OS
- EPICS IOC
- JIRA https://jira.esss.lu.se/projects/TAG/summary
- DYMO LabelWriter 450 Duo CUP Driver http://www.dymo.com/en-US/dymo-label-sdk-and-cups-drivers-for-linux-dymo-label-sdk-cups-linux-p–1

2 Honeywell Xenon Scanners 1900 and 1902g

Note that there are different procedure to setup Xenon 1900 corded scanner and Xenon 1902g cordless scanner. Please consult each manual in detail.

2.1 Basic Configuration

Figure 1 Default Settings.

Figure 2 USB Serial Setting.

Figure 3 Silent Mode for Corded Scanner.

Figure 4 Silent Mode for Cordless Scanner.

3 Predefined Bar Codes

3.1 Vendor Codes

undefined

ess

mrf

ioxos

moxa

nat

concurrent

schroff

struck

caen

raritan

dymo

Honeywell

3.2 FormFactor Codes

undefined

MTCA

PCIE

VME

3.3 Model Codes

undefined

PCIE EVR 300DC

MTCA EVR 300U

Concurrent CPU

MTCA 3U Crate

NAT Power Module

NAT MCH PHYS

Barcode Scanner Xenon 190x

Dymo LabelWriter 450 Duo

4 Action Bar Codes

Clear all scanned PVs

——— place holder ———-

Enable Label Printing after JIRA action (JC)

Disable Label Printing after JIRA action (JC)

——— place holder ———-

Create an JIRA issue

Update an JIRA issue (Define the issue number first)

Delete an JIRA issue (Define the issue number first)

5 Outlook