



EUROPEAN
SPALLATION
SOURCE

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ICS Engineering Manual

FOR AN INVENTORY SYSTEM WITH JIRA AND EPICS

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1 Overview

There are infinite 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 three 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.
- Delete an item from JIRA

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>

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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.

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3 Predefined Bar Codes

3.1 Vendor Codes



undefined



ess



mrf



ioxos



moxa



nat



concurrent



schroff

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struck



caen



raritan



dymo



Honeywell

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3.2 FormFactor Codes



undefined



MTCA











PCIE



VME

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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

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Dymo LabelWriter 450 Duo

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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)

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5 Outlook