Web Application in J-PARC

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J-PARC

- Japan Proton Accelerator Research Complex
- Joint project of : <u>KEK</u> (High Energy Accelerator Research Organization) and <u>JAEA</u> (Japan Atomic Energy Agency)



Shuei YAMADA @ EPICS Collaboration Meeting June 2019

KEK

Network and Policy



Three Categories of Network



Web application in J-PARC

Demand for web applications

- Accelerator operation status
- Status monitor for equipment
 - Magnet/RF power supplies
 - Coolant temperature and pressure
 - Etc.
- Operation is not considered (for the moment)
- Httpd receives data via file (at present)
- No active web-app development on top of EPICS
 - Neither in KEK
 - Collecting information modestly

One and Only Web-App

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i www-cont.j-parc.jp/accutil/mr/BeamDestShot.html

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Accelerator Operation Status

Fri May 31 2019 11:35:53 GMT+0900 (日本標準時)

日付	最新の運転状況	備考
Date & Time	Latest Operation Status	notes
2019-05-29	Status(状況):In Operation for Experiments. ビーム供給中 Description(詳細):MLF:利用運転中	
17:44:59		



One and Only Web-App



Previous Attempt

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J-PARC LINAC Status

status on Thu Apr 25 10:47:11 2019





S10B:SCT00 53.15mA 48.86mA S11B:SCT00 S12B:SCT00 50.15mA 49.18mA S13B:SCT00 48.76mA S14B:SCT00 S15B:SCT00 53.92mA ACS03A:SCT00 0.00mA ACS03B:SCT00 52.03mA ACS11B:SCT01 0.00mA L3BT:SCT06 44.60mA L3BT:SCT12 50.88mA L3BT:SCT14 0.00mA BD0:SCT06 0.04mA BD03:SCT04 0.00mA BD90:SCT04 -0.15mA BD100:SCT04 0.12mA L3BT:SCT45 48.95mA

IS/RFQ section: LEBT:SCT01, MEBT1:SCT01~SCT05 DTL section:DTL1:01~DTL3:SCT01 SDTL section:S01B:SCT00 - S15B:SCT00 A0BT section:ACS03A:SCT00 ~ ACS11B:SCT01 L3BT section:L3BT:SCT06 ~L3BT:SCT14



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javascript code for this page:(c) N. Yamamoto, KEK, JAPAN, 2006.

Shul To MS-IE users: You may need to change a chace control setting of your browser, otherwise data will not be updated until you restart IE.



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J-PARC LINAC Status

status on Thu Apr 25 10:47:11 2019



 S10B:SCT00
 S1.15:MA

 S11B:SCT00
 48.86mA

 S12B:SCT00
 9.18mA

 S13B:SCT00
 49.78mA

 S14B:SCT00
 5.92mA

 ACS03A:SCT0
 0.00mA

 ACS03B:SCT0
 5.03mA

 L3BT:SCT10
 0.04mA

 L3BT:SCT04
 0.04mA

 BD0:SCT04
 0.01mA

 BD0:SCT04
 0.15mA

 BD10:SCT04
 0.12mA

 L3BT:SCT04
 4.12mA

Developed in 2006
 Not maintained anymore since 2011

SDTL section:S01B:SCT00 - S15B:SCT00 A0BT section:ACS03A:SCT00 ~ ACS11B:SCT01 L3BT section:L3BT:SCT06 ~L3BT:SCT14



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Summary

- There are demand for web application in J-PARC
 - Strong are the restriction on network policy
 - Present solution is file-based data transfer
- One web application in service
 - Might increase variety of captured OPI image, at most 10 – 20 kinds of images?
- Collecting information modestly
 - Client-side rendering is preffered
 - Simple and easy way to convert from existing OPI panels?
 edm, medm, css/boy