

Super – FRS data handling, acceptance and reporting

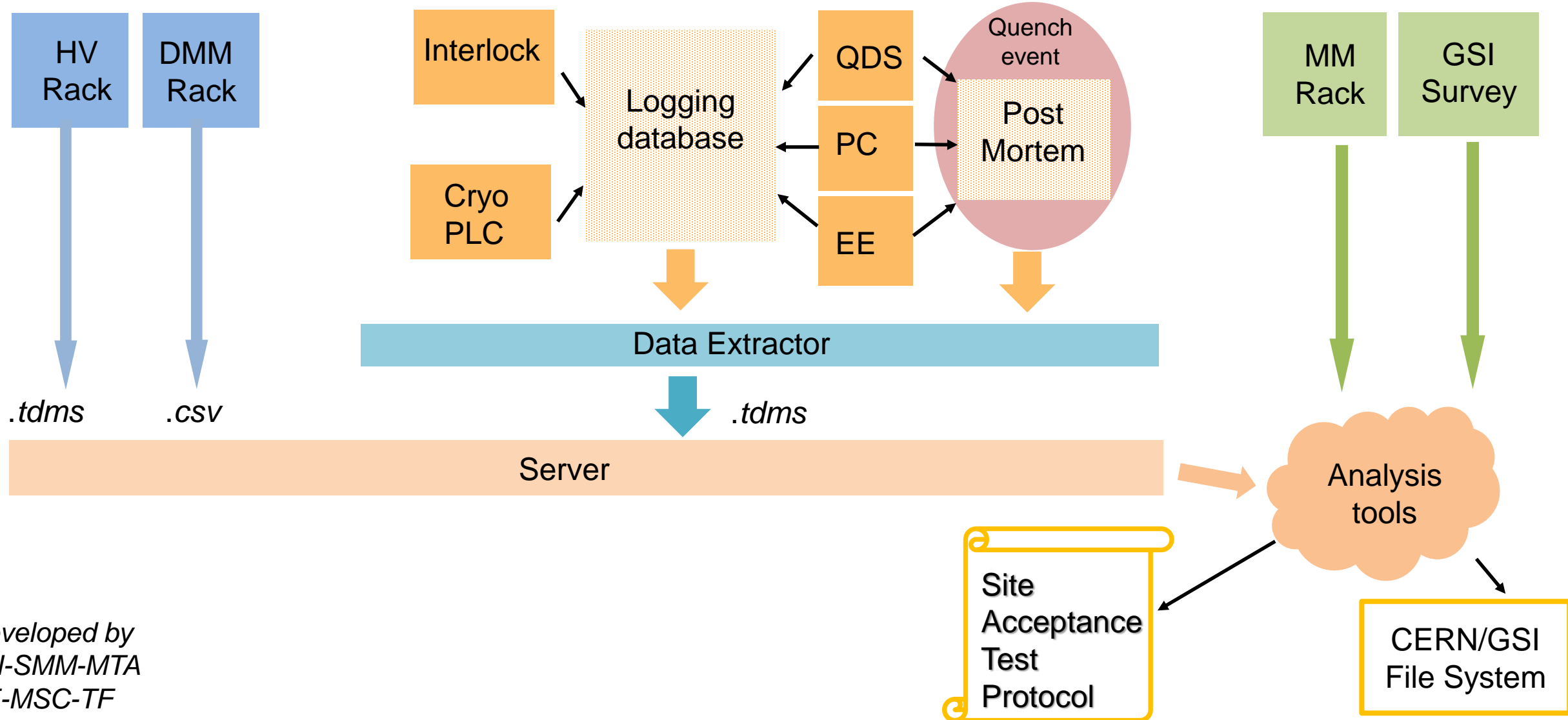
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on behalf of GSI-CERN collaboration on Super-FRS testing

*Collaboration kick-off meeting
CERN, Geneva 3th -4th July, 2019*

- Data handling architecture
- Acceptance and reporting

Data handling architecture



Developed by
EN-SMM-MTA
TE-MS-C-TF

Acceptance and reporting



- Acceptance criteria

Area	Description	Acceptance criteria
at Test bench	Continuity test of Voltage taps	€
	Sensor alive test	
	Process lines leak test	
	Cold mass survey w/o window	
	Cold mass survey w window	
Pump down Cooldown	Cold mass survey w window	
	Cooling down time	
	Temperature difference over the magnet	
	Temperature difference between in/out G-He circuit	

- Acceptance protocols

		Kind of Document: Test Protocol	Date: 2019-04-12
		Dokumenttyp: Prüfprotokoll / Test Record	Page 1 of 2
Wareneingang Multiplet am CERN Incoming Inspection Multiplet at CERN		Seite 1 von 3	<input type="checkbox"/> Ba M11 <input checked="" type="checkbox"/> Bb M12 <input type="checkbox"/>
Ware / Item:	Short Multiplet FoS	Lieferdatum / Date of delivery:	20/02/2019
Hersteller / Manufacturer:	ASG	Anlieferort / Point of delivery:	CERN
Lieferant / Supplier:		Component ID:	02000226053
Bestellnummer / Order no.:		PSP Code:	2.4.2.2.3
Einkaufswagennummer / Shopping cart no.:		Bezeichnung / Nomenclature:	FPF2YMQ12

p. Z.o.o. (Poland)

[00](#)

[01](#)

018

Wareneingangsprüfung / Incoming inspection:

Prüfungen vor dem Abladen / Test before unloading						
Prüfung / Test:	ok	n. ok	Bemerkung, Prüfprotokoll, QAB / Remark, record, NCR	Prüfer / Inspector	Datum / Date:	Unterschrift / Signature:
Identprüfung / Identity check:	X			AC	20/02/2019	
Stückzahl / Amount:	X			AC	20/02/2019	
Transportsicherung / Transport safety	X			AC	20/02/2019	

- Discussion

- Backup slides

Data extractor



Main.vi

TIME

Data: 2018/10/21 [ONLY LOGGING DB] Duration [Days]: 1 DB selector: lhlog

Test Bench: select_bench TB3 Status: Application is running Magnet Assembly Name: Assembly_Mary

Load signal list Save Signal names to signal list

Logging DB

Signal name (use '%' as mask): %

Data type: ALL

Signal search

Variables

Variable name list

Variable name	Data type

Variable's basket

Variable name	Data type
FAIR_RM30_CUR_POSST	NUMERIC
FAIR_RM30_PC_STATUS_FS1.EVSTSEGO1	NUMERIC
FAIR_RM20_PC_STATUS_FS3.IST	NUMERIC

Post Mortem

System: QPS

Class:

Source:

Check Class and Source

Events

Events

Time Stamp	Source	Class
181021-002247.050	272.RQD.272	DQ
181021-003844.910	272.DT8.AG_01	DQ
181021-003844.912	272.DT8.AG_01	DQ
181021-003844.912	272.DT8.AG_01	DQ
181021-012435.611	UA63.RSF1.A56B1	DQ
181021-012435.817	UA63.RSF2.A56B1	DQ
181021-012435.716	UA63.RSD1.A56B1	DQ
181021-012435.620	RSD1.A56B1	DQ

Events basket

Time Stamp	Source	Class
181021-012435.504	RR57.RSS.A56B1	DQ

Signals name

Time Stamp	Signal Name
181021-012435.504	DQEMC.RR57.RSS.A56B1
181021-012435.504	DQEMC.RR57.RSS.A56B1
181021-012435.504	DQEMC.RR57.RSS.A56B1
181021-012435.504	DQEMC.RR57.RSS.A56B1
181021-012435.504	DQEMC.RR57.RSS.A56B1
181021-012435.504	DQEMC.RR57.RSS.A56B1
181021-012435.504	DQEMC.RR57.RSS.A56B1
181021-012435.504	DQEMC.RR57.RSS.A56B1
181021-012435.504	DQEMC.RR57.RSS.A56B1
181021-012435.504	DQEMC.RR57.RSS.A56B1

Signals basket

Signal Name
DQEMC.RR57.RSS.A56B1:ST_SW_OPN
DQEMC.RR57.RSS.A56B1:ST_SYST_CL

General

Logging DB TDMS file name: CALS_Assembly_Mary_TB3_181021_181022_FREE-FIELD

Last path:

PM TDMS file name: PM_Assembly_Mary_TB3_181021_FREE_FIELD

Extract & Save DB Data Extract & Save BOTH Extract & Save PM Data