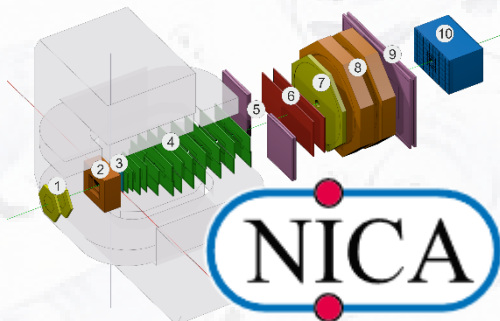


Status of the Online Configuration System for BM@N online processing

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11th Collaboration Meeting of the
BM@N Experiment at the NICA Facility,
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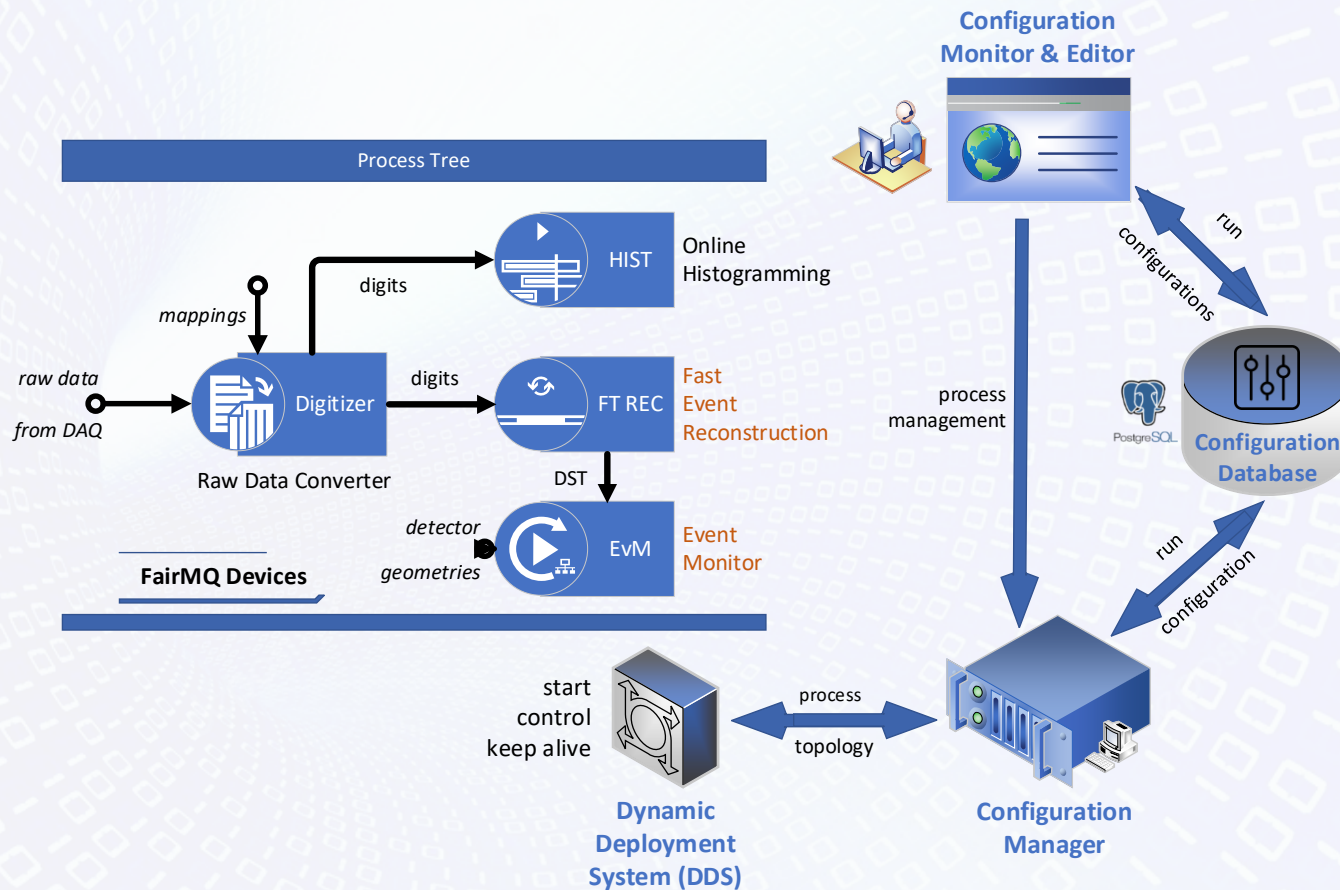


Joint Institute for Nuclear Research

Possibilities

- **can store and provide configuration data for online processing :**
 - **set of various detectors configuration parameters (working voltage etc.)**
 - **setup data including sequences of software tasks with their dependencies**
- **can start, stop and monitor setup tasks during experiment sessions**

BM@N online processes to be controlled by Configuration manager



Solved problems on production hosts

- **did not run on hosts with different OS**
 - use the same OS in all hosts where controlled tasks are running
- **requests from web to Configuration manager did not work**
 - found that http 1.0 protocol was used on debug host, on production host – refused to work with 1.0. Moved to protocol 1.1.
- **WEB client could not interpret correctly getLog requests responses**
 - fixed

Web-interface. Configuration Manager and Task Monitor panels

Menu


TASK MONITOR

CONFIGURATION MANAGER

SESSION LOGS

DICTIONARY SET

Get in touch

 [Konstantin Gertsenberger](mailto:Konstantin.Gertsenberger)



Configuration Manager

Select Setup Run:




BM@N Run 8





Control panel

[UPDATE](#)

[STOP](#)

Host	bmn-config-w1				
Task Name	Module	Status	Log	Start Time	End Time
bmn-online-digitizer	OnlineDataProcessing	Started		2023-11-29 07:37:59	
bmn-online-processor	OnlineDataProcessing	Started		2023-11-29 07:37:59	
monStreamDecoder	OnlineDataProcessing	Started		2023-11-29 07:37:59	

[ADD SETUP MODULE](#)

Module Name	Parent Name	Actions
OnlineDataProcessing		 

Task Monitor

Select task

Select setup





Select module

Started

Select host

[FILTER](#)

[RESET](#)

Task Name	Setup:Run	Module	Status	Log	Start Time	End Time	Host
bmn_event_display_imit	BMN:7	OnlineControl	Started		2023-05-05 18:39:16		vps104.jinr.ru
bmn_fast_event_reco_imit	BMN:7	OnlineControl	Started		2023-05-05 18:39:16		vm221-85.jinr.ru
bmn_online_histo_imit	BMN:7	OnlineControl	Started		2023-05-05 18:39:16		vps104.jinr.ru
bmn_root_digi_imit	BMN:7	OnlineControl	Started		2023-05-05 18:39:16		vps104.jinr.ru

Next steps

- **check DDS features**
 - online setup update (add or delete task to activated setup)
 - restart feature (possibility to restart task in case of crash)
- **add Grafana monitoring in order to set alarms in case of problem**
- **moving to use REST API in all public communications**