

# Table of Contents

<b>Neutrino Platform Experimental Hall (EHN1) - Computing Activity.....</b>	<b>1</b>
coordinators: Nektarios Benekos (NP), Elisabetta Pennachio(NP02), Ruth Pordes(NP04).....	1
<b>Computing Infrastructure.....</b>	<b>2</b>
Specs.....	2
Ganglia Cluster Monitor.....	2
<b>Neutrino Platform EHN1 Cluster Computing Model For Use By ProtoDUNEs.....</b>	<b>3</b>
<b>Action List:.....</b>	<b>4</b>
<b>Schedule:.....</b>	<b>5</b>
<b>Online Computing resources and services definitions:.....</b>	<b>6</b>
<b>Prompt Processing Computing resources and services definitions:.....</b>	<b>7</b>
<b>Databases:.....</b>	<b>8</b>
<b>Key Links.....</b>	<b>9</b>



# Computing Infrastructure

Rack01 <a href="#">↗</a> <a href="#">↘</a>	Rack02 <a href="#">↗</a> <a href="#">↘</a>	Rack03 <a href="#">↗</a> <a href="#">↘</a>	Rack04 <a href="#">↗</a> <a href="#">↘</a>	Rack05 <a href="#">↗</a> <a href="#">↘</a>	Rack06 <a href="#">↗</a> <a href="#">↘</a>	Rack07 <a href="#">↗</a> <a href="#">↘</a>	Rack08 <a href="#">↗</a> <a href="#">↘</a>
np-cmp-0101 to np-cmp-0123	np-cmp-0201 to np-cmp-0224	np-cmp-0301 to np-cmp-0323	np-cmp-0401 to np-cmp-0424	np-cmp-0501 to np-cmp-0523	np-cmp-0601 to np-cmp-0624	np-cmp-0701 to np-cmp-0723	np-cmp-0801 to np-cmp-0824
				problematic nodes : 0510, 0511, 0518			
							missing nodes 0814,0823,0824

## Specs

Model	Cores	Memory(GB)	OS
DELL PowerEdge 1950 <a href="#">↗</a>	8	16	CERN CentOS 7 (CC7) <a href="#">↗</a>

## Ganglia Cluster Monitor

The EHN1 cluster load and each rack can be monitored from:  
<http://cenf-ehn1.cern.ch/ganglia/> [↗](#)

# **Neutrino Platform EHN1 Cluster Computing Model For Use By ProtoDUNEs**

# Action List:

- **The goal is to create a complete computing architecture for the 2 detectors (NP02 and NP04) that includes:**
  - ◆ Network
  - ◆ Security
  - ◆ DAQ (NP02, NP04, NP04 Online WebViewer<sup>?</sup>)
  - ◆ Slow Controls (NP02, NP04)
  - ◆ Online/Express Monitoring
  - ◆ Offline Data Transfer to EOS
  - ◆ Web services
  - ◆ Databases
  - ◆ Control room

## Schedule:

Action	Resp NP02	Resp NP04	When	Status
Operational online computing testing		DAQ/Geoff/Nektarios	May 2017	TODO
Requirements and design		Geoff/Nektarios	April 2017	TODO
Define procedure/steps		Geoff/Nektarios	April 2017	TODO
HW installation/computing racks		Geoff/Nektarios	Early summer 2017	TODO
Network	IT/Exp	IT/Exp	April 2017	TODO
Online Computing		Giovanna/Karol/Geoff/Nektarios	April 2017	TODO
Prompt processing Computing		Brett/Maxim/Nektarios	April 2017	TODO
DAQ		Giovanna/Karol	April 2017	TODO

## Online Computing resources and services definitions:

Action	Resp NP02	Resp NP04	When	Status
Secure access		Geoff/Nektarios	May 2017	TODO
Grant user access to resources		Geoff/Nektarios		TODO
File storage and backup source code, configurations		Geoff/Nektarios		TODO
Operational accounts				TODO
Resource allocation: Network, NAS, control room computers/screens, security-gateway computers		Geoff/Nektarios	April 2017	TODO
Services allocation: webservers, DHCP, DNS, Ganglia/Nagios, Backup		Geoff/Nektarios	April 2017	TODO
Testing&Insuring stable operation		Geoff/Nektarios	April 2017	TODO

## Prompt Processing Computing resources and services definitions:

Action	Resp NP02	Resp NP04	When	Status
Secure access		Brett/Maxim/Nektarios	May 2017	TODO
Grant user access to resources		Brett/Maxim/Nektarios		TODO
Prompt Processing Monitoring : File storage and backup source code, configurations		Brett/Maxim/Nektarios		TODO
Operational accounts				TODO
Resource allocation: Network, NAS, control room computers/screens, security-gateway computers		Brett/Maxim/Nektarios	April 2017	TODO
Services allocation: webserver, DHCP, DNS, Ganglia/Nagios, Backup		Brett/Maxim/Nektarios	April 2017	TODO
Testing&Insuring stable operation		Brett/Maxim/Nektarios	April 2017	TODO



## Databases:

Action	Resp NP02	Resp NP04	When	Status
e-Logbook				TODO
DAQ/Run Conditions				TODO
DCS/Slow controls				TODO
Beam instrumentation				TODO

# Key Links

Meetings and e-groups	
Meetings	
e-mail Group	<a href="#">✉ CENF-EHN1-Computing-Integration</a>
CERN/Fermilab/DUNE Computing Interface	<a href="#">FNAL indico agenda</a>
CERN-JIRA	<a href="#">NP02/NP04 JIRA Open issues</a>
NP04 Integration, Testing, and Installation Meetings	<a href="https://indico.fnal.gov/categoryDisplay.py?categId=623">https://indico.fnal.gov/categoryDisplay.py?categId=623</a>
	<a href="#">NP04 Detector Integration and Installation Contact List Comments</a>
	<a href="#">✉ Integration, Testing, and Installation FNAL mailing list</a>
	<a href="#">NP04 Data Preparation TWiki page</a>
	<a href="#">Neutrino Data Quality Monitoring Computing Cluster at CERN</a>

[📄 Back to CENF-Computing Main Page](#)

## Major updates:

-- NectarB - 2017-02-08

This topic: CENF > EHN1Computing

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