



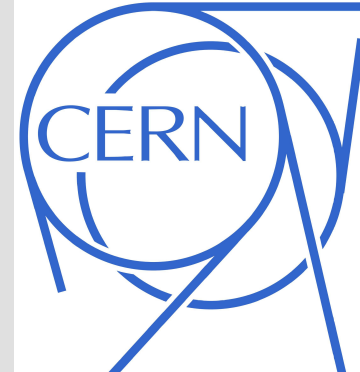
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Pesquisas Físicas

WLCG

(Worldwide LHC Computing
Grid)



WLCG
Worldwide LHC Computing Grid



ATLAS SAMPA Integration Meeting

Agenda

- WLCG
- MoU
- The Computing Grid
- VOs
- Grid sites and Support Units
- SAMPA site

Meeting date: 20/NOV/20

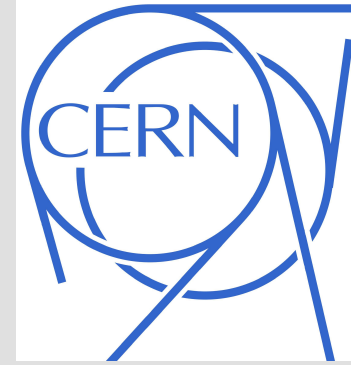
<https://indico.cern.ch/event/977183/>



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- **WLCG**: The big Grid “Umbrella”.
- **Computing Grid**: Concerning hardware, a collection of heterogeneous resources (from notebook to HPCs). Concerning systems/software, mainly divided into 2 main systems (LGC and OSG), tbs later...
- WLCG “Controls/Regulates” the MoU (Memorandum of Understanding), where sites and finance agencies sign a formal document. It’s a “non legal” promise of providing resources to the Grid.
- With the MoU signed, a site can officially join the Grid “inside” a Federation.



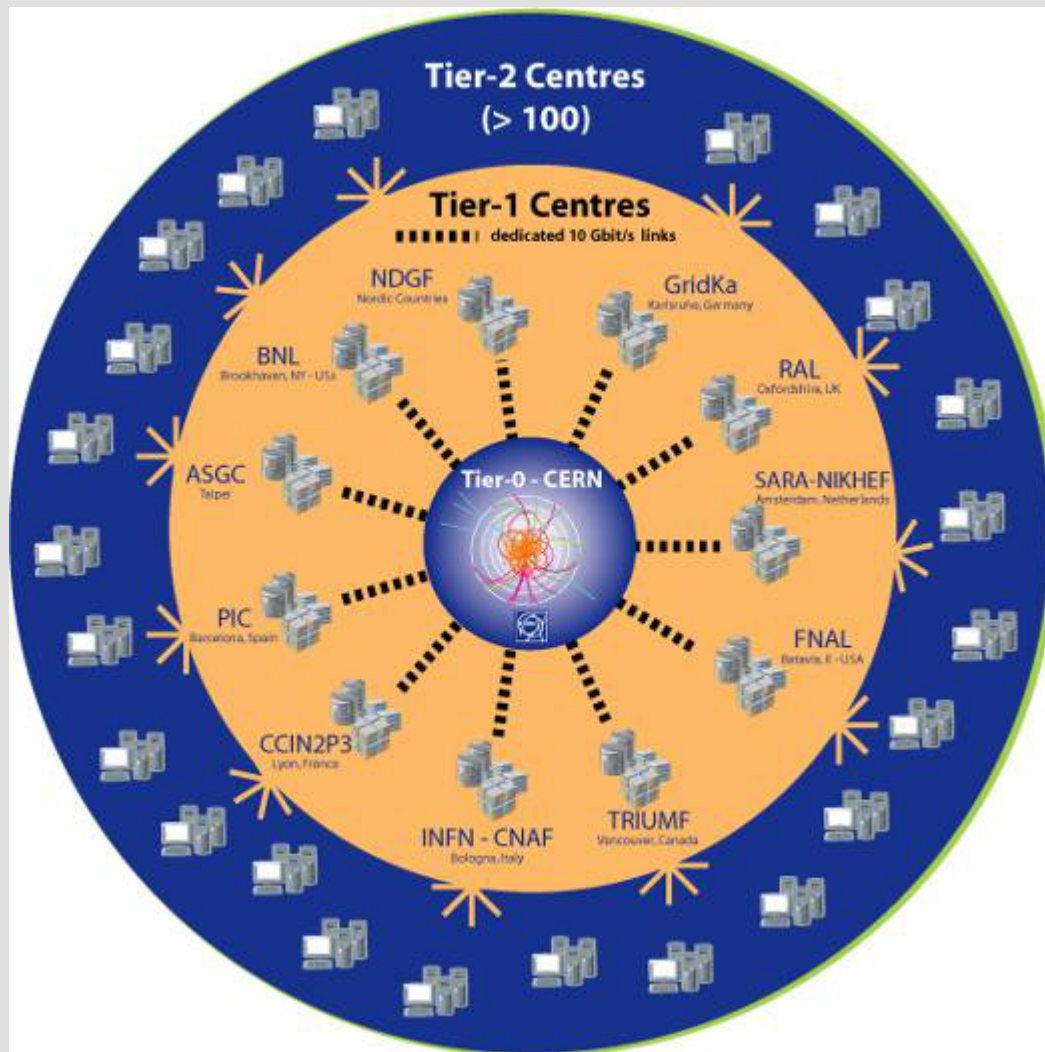
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- Tiers:





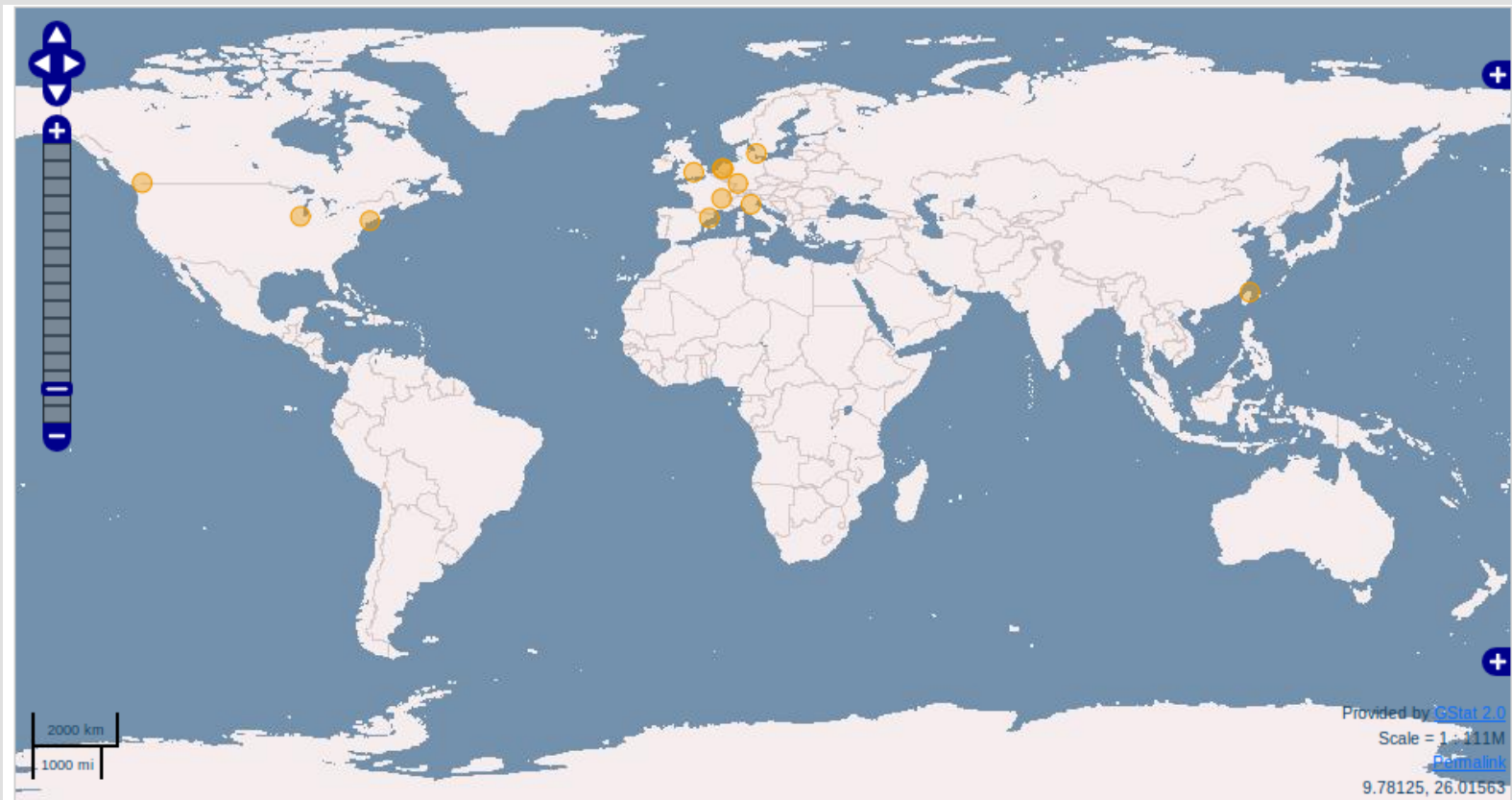
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Tiers-1: 7 in Europe, 3 in US and 1 in Taiwan

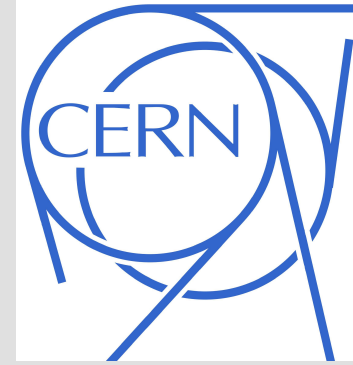




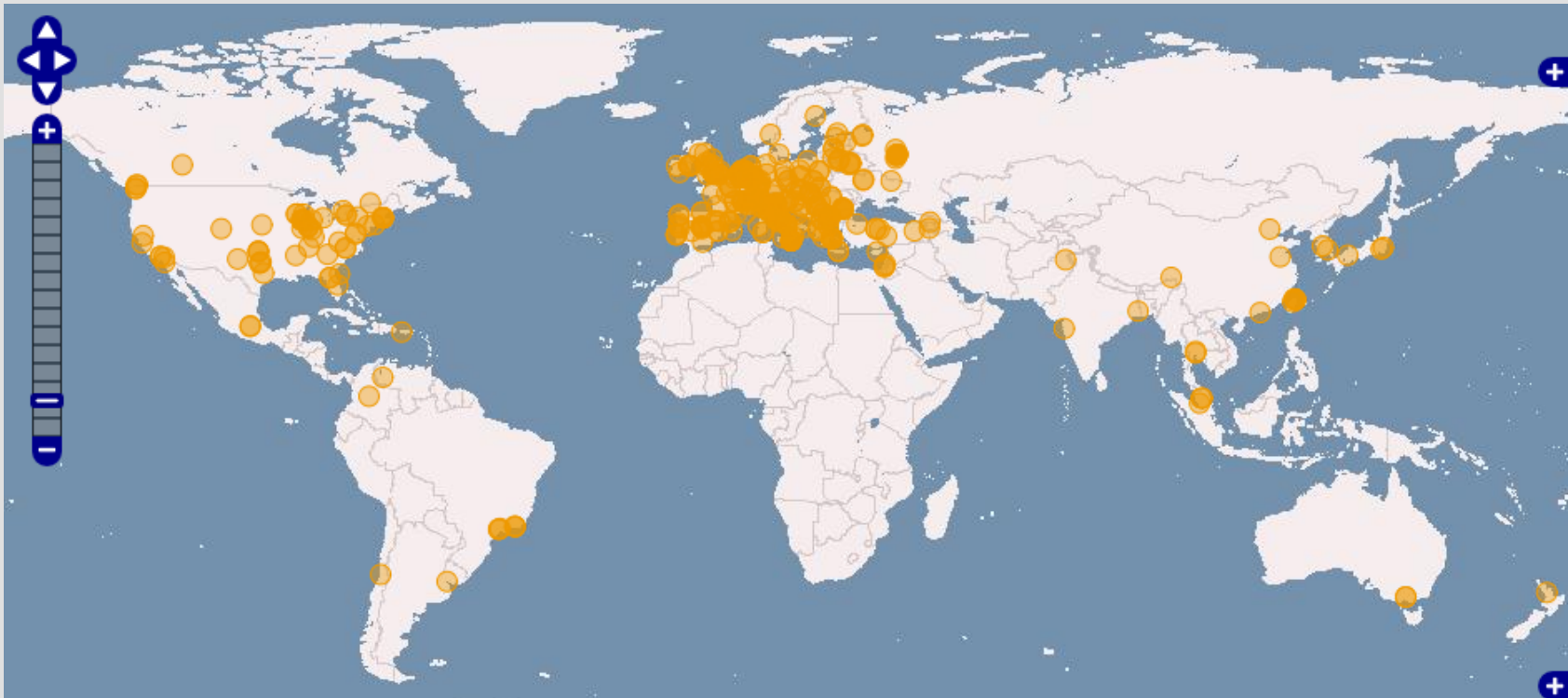
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Tiers-2: aprox. 170 in the World, 11 Latin America, 4 in
Brazil



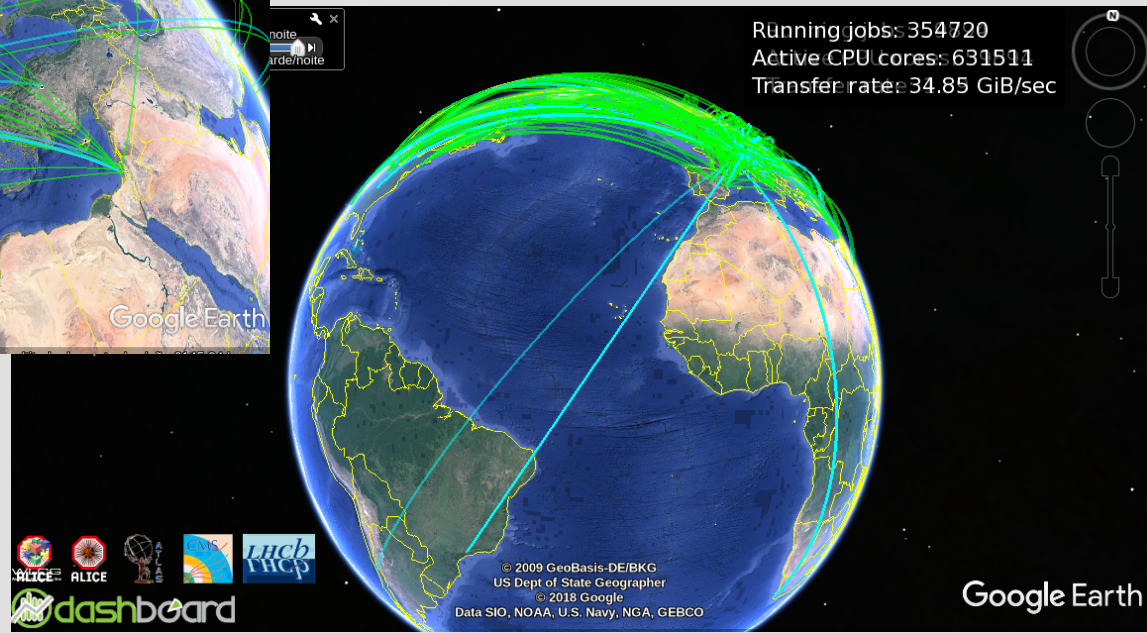


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2 Computing Systems:
LCG : LHC Computing Grid (European)
OSG: Open Science Grid (American)

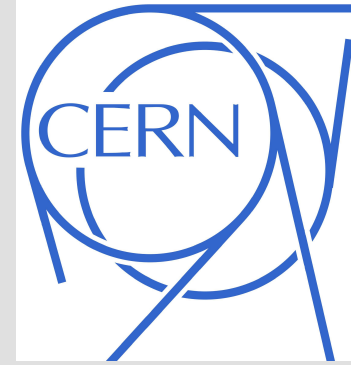




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- Every site has to be “linked/attached” to a support unit, preferably, the local one.
- Local support units, NGIs (National Grid Initiative) or ROCs (Regional Operating Centres, for more than a single country), monitor all linked sites “health”. These units are monitored by WLCG/EGI.
- These support units can:
 - a. View all host and services provided by a site,
 - b. Open/follow tickets when a service is “not OK”,
 - c. Help, as much as possible, with software support,
 - d. Spread communications, etc.



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- There's a “new” portal (CRIC) where sites insert their pledges concerning resources (HEPSPEC and Storage).
- In the Latin America Federation, there are now, active sites:
 - a. CBPF and SAMPA (LCG sites in Brazil)
 - b. UERJ (OSG site in Brazil)
 - c. ATLAND (ATLAS Andino), EELA-UTFSM and AstroGridPUC (LCG sites in Chile)
 - d. ICN-UNAM, SUPERCOMPUTO-UNAM (Mexico)
- There's another “Brazil Federation” with only UNESP site (OSG).
- ROC-LA does not monitor UERJ site since it's an OSG system based site. All the others are LCG.



WLCG ROC-LA



ROC-LA Operations Portal



➔ *New authentication system :
EGI AAI proxy*

Our authentication system has changed and you need to use the EGI AAI proxy

- After choosing your Identity Provider (IDP) and after the initial registration process you will be able to access the Operations Portal
- If you want to use your certificate please use the "IGTF Certificate proxy" login option*
- If you don't retrieve your GOC DB roles, please follow [these instructions](#)



WLCG ROC-LA



ROC-LA Operations Portal

Your Dashboard

Click on the number of items (alarms, tickets...) to access the list of items and related details and actions ! x

- ROD DASHBOARD
- SECURITY DASHBOARD
- HANDOVER 0

Column visibility
Settings

Search: Show 10 entries

Site	Downtimes	Nagios critical	Alarms assign	Tickets	Notepads	Av	Re	Action
EELA-UTFSM	1	6				100.00	100.00	+ Ticket + Notepad
ICN-UNAM		2		4		99.86	99.86	+ Ticket + Notepad
ATLAND	1	2		4		0.00	0.00	+ Ticket + Notepad
SUPERCOMPUTO-UNAM		1	2	2		0.00	0.00	+ Ticket + Notepad
CBPF	1		5	9		0.00	0.00	+ Ticket + Notepad



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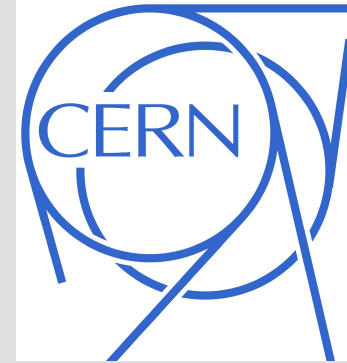
- It is up to the grid sites to support VOs (Virtual Organizations), providing a queue and related information (on the BDII service).
- A VO is a group of people which uses the “same” software and wants more computer capacities.
- There are several VOs. High energy Physics VOs are the ones which uses more computing resources.
- A VO user submits jobs to the “VO queues” only if registered within the VO with his/her certificate.
- In fact, a VO user submits jobs to the grid, not to the site.



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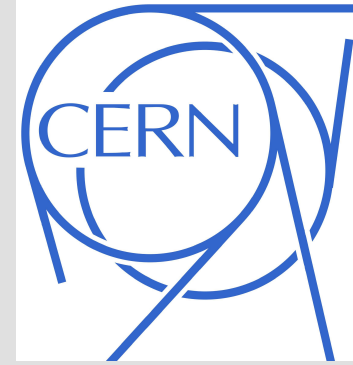
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<input type="checkbox"/> Toxicology	<input type="checkbox"/> Training/Demonstrations	<input type="checkbox"/> Transplantation	<input type="checkbox"/> Transport engineering	<input type="checkbox"/> Tropical medicine	<input type="checkbox"/> Unknown Discipline																																																																																																																																																					
<input type="checkbox"/> Urology and nephrology	<input type="checkbox"/> Virology	<input type="checkbox"/> Zoology																																																																																																																																																								
Data Group:	<input checked="" type="radio"/> Production <input type="radio"/> Tier1 <input type="radio"/> Tier2 <input type="radio"/> OSG																																																																																																																																																									
Chart:	Type: ACCUM BAR <input type="text"/>	Scale: LINEAR <input type="text"/>																																																																																																																																																								
Local Jobs:	<input checked="" type="radio"/> Grid Jobs Only <input type="radio"/> Grid Jobs and Local Jobs <input type="radio"/> Local Jobs Only																																																																																																																																																									



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WLCG

Worldwide LHC Computing Grid



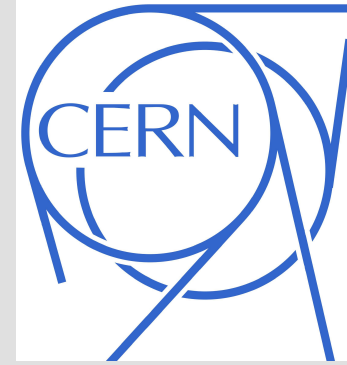
- There's a service (DB), called **GOCDB**, where all sites are registered with several provided information, eg. members (with roles), status (production, or not), supported VOs, even latitude and longitude.
- Site downtimes (scheduled or unscheduled) are also inserted there, whenever necessary.



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https://goc.egi.eu

Welcome to GOCDB

Use of GOCDB is governed by the [EGI Acceptable Use Policy](#) which places restrictions on your use of the service.

The [GOCDB Privacy Notice](#) describes what personal data is collected and why, and your rights regarding this data.

Please read these documents before accessing GOCDB.

[Access GOCDB](#)

Browse the [GOCDB documentation index](#) on the EGI wiki.



Science and
Technology
Facilities Council



The GOCDB service is provided by STFC for EGI, co-funded by EGI.eu and EOSC-hub. Licensed under the Apache 2 License.



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- Scopes
- Role Action Map

Add

- Add Site
- Add Service Group
- Add Service
- Add Downtime

Downtimes

- Active & Imminent
- Downtime Calendar

About GOCDDBS

- Doc, Help & Support

Search

Submit

User Status

Registered as:
Renato Santana

[View Details](#)
[Manage Roles](#)

- Resources and services, including maintenance plans for these resources
- Participating people, and their roles within EGI operations

Data are provided and updated by participating NGIs, and are presented through this web portal.

Please note:

- It is a "catch-all" service. This means it is centrally hosted on behalf of all NGIs.
- If an organisation deploys and uses their own system or a local GOCDDB installation, their data won't appear here.



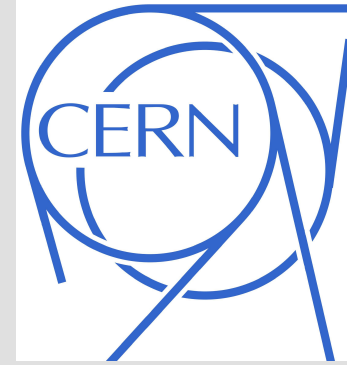
Leaflet | Map data © OpenStreetMap contributors



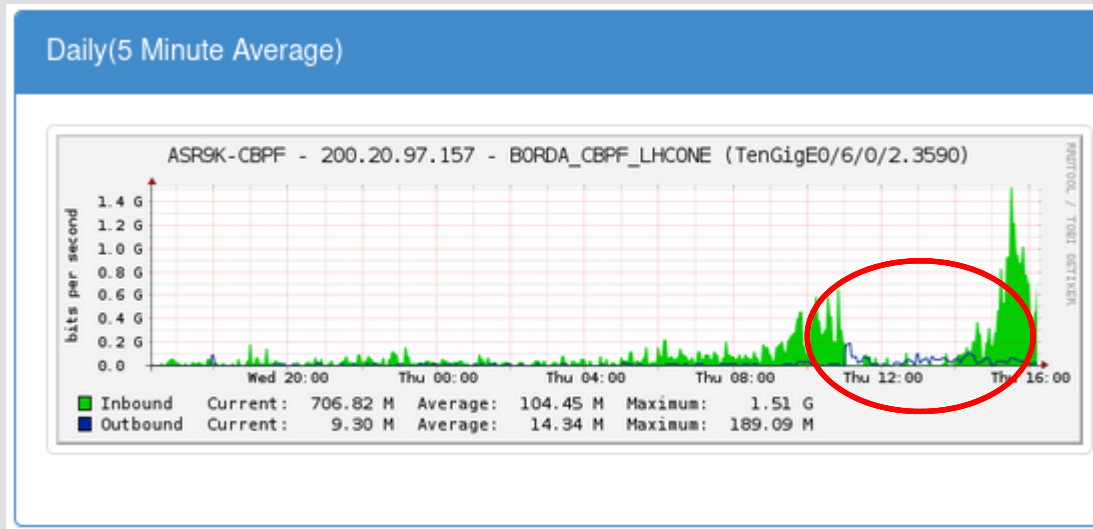
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- **An example:**
- Link between Rio de Janeiro and São Paulo fails...





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GOCD 5.7.5

Browse

- My Resources
- Projects
- NGIs
- Sites
- Service Groups
- Services
- Scopes
- Role Action Map

Add

- Add Site
- Add Service Group
- Add Service
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About GOCD 5.7.5

- Doc, Help & Support

Search

Add Downtime

- To be SCHEDULED, start must be 24hrs in the future
- Time in UTC: **19/11/2020 15:17:37**

Severity:

Outage
Warning

Description:

NREN network issues

You may need to update your site's timezone from UTC to the required value for your site - this version of GOCD uses a new timezone logic with new timezone labels taken from the 'Olsen' database. Where possible, the old values have been copied over, but some legacy values including those starting 'Etc/' are not supported and so UTC is specified by default.

Enter Times In: UTC Site Timezone **UNSCHEDULED**

Starts on: **19/11/2020 12:00 UTC**

19/11/2020



12:00



Ends on: **20/11/2020 18:00 UTC**



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- SAMPA site at GOCDDB

GOCDDB 5.7.5

Site: SAMPA
Departamento de Física Nuclear, Instituto de Física, Universidade de Sao Paulo
GRupo de Ions PEados Relativísticos - GRIPER

Contact Info

E-Mail	sampa-admin@if.usp.br
Telephone	+55 11 30917105
Emergency Tel	+55 11 30917105
CSIRT Tel	+55 11 30917105
CSIRT E-Mail	sampa-admin@if.usp.br
Emergency E-Mail	sampa-admin@if.usp.br
Helpdesk E-Mail	sampa-admin@if.usp.br
Notifications	✘

Project Data

NGI/ROC	ROC_LA
Infrastructure	Production
Certification Status	Certified - Change
Scope Tags	alice(x), EGI, tier2(x), wlcg(x)

Networking

Home URL	http://sampa.if.usp.br
GIIS URL	ldap://sampabdii.if.usp.br:2170/mds-vo-name=SAMPA,o=grid

Location

Country	Brazil
Latitude	-23.5619067

Search



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- SAMPA site at GOCDB

✓ Reserved Tags Directly Assigned *(WARNING - If deselected you will not be able to reselect the tag - it will be moved to the 'Protected Reserved Tags' list)*

alice tier2 wlcg

✗ Protected Reserved Tags *(Can only be assigned on request)*

FedCloud SLA atlas cms elixir lhcb tier1

Action to Take For All Child Service Scopes

Do not modify child Service scopes ▼

Edit Site



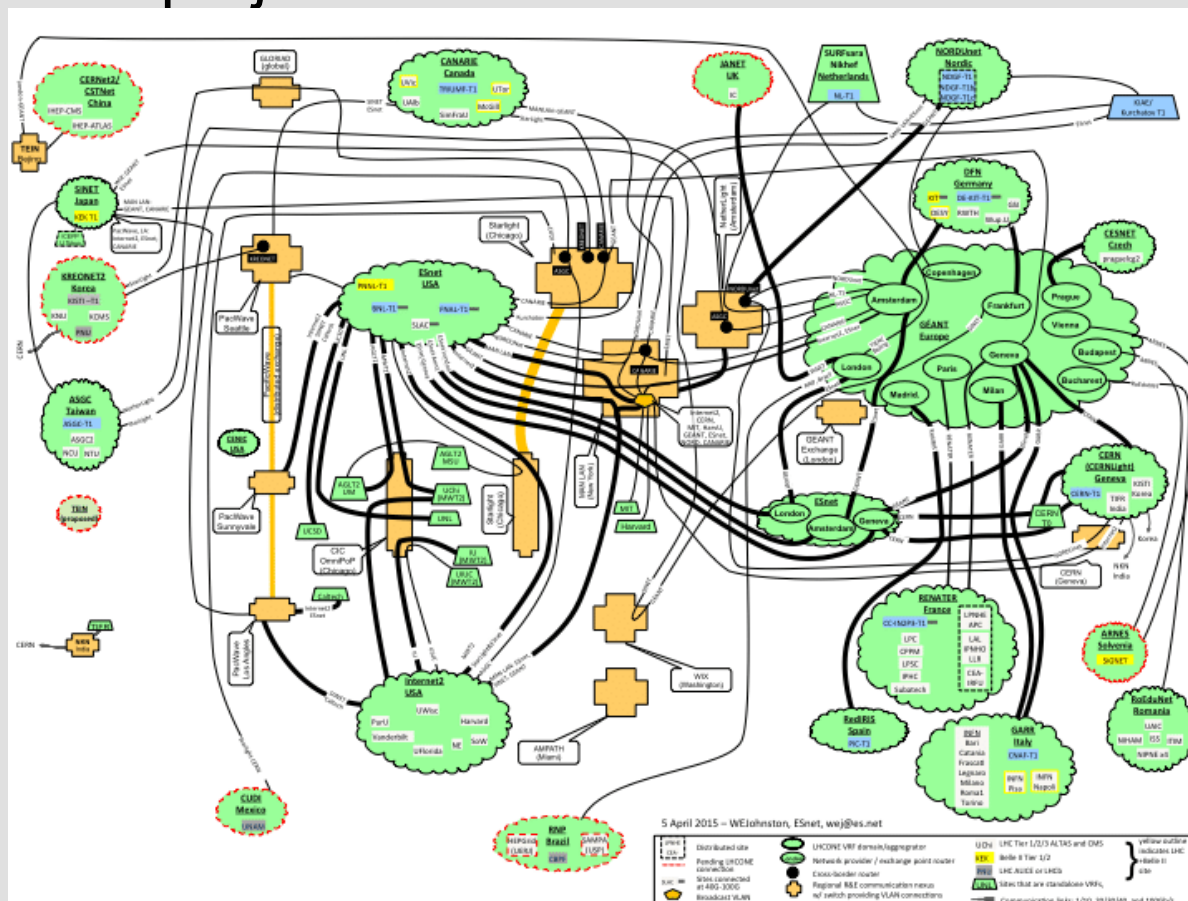
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- Key infrastructure projects for Latin America:
 - a. LHCONE

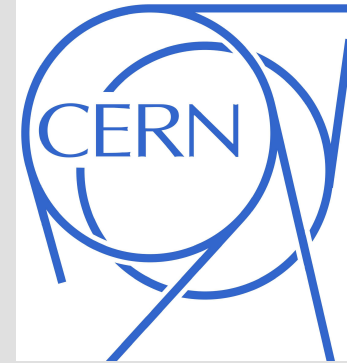




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- Key infrastructure projects for Latin America:
b. BELLA (2021)





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QUESTIONS?

