

ATLAS Grid Information System (AGIS)

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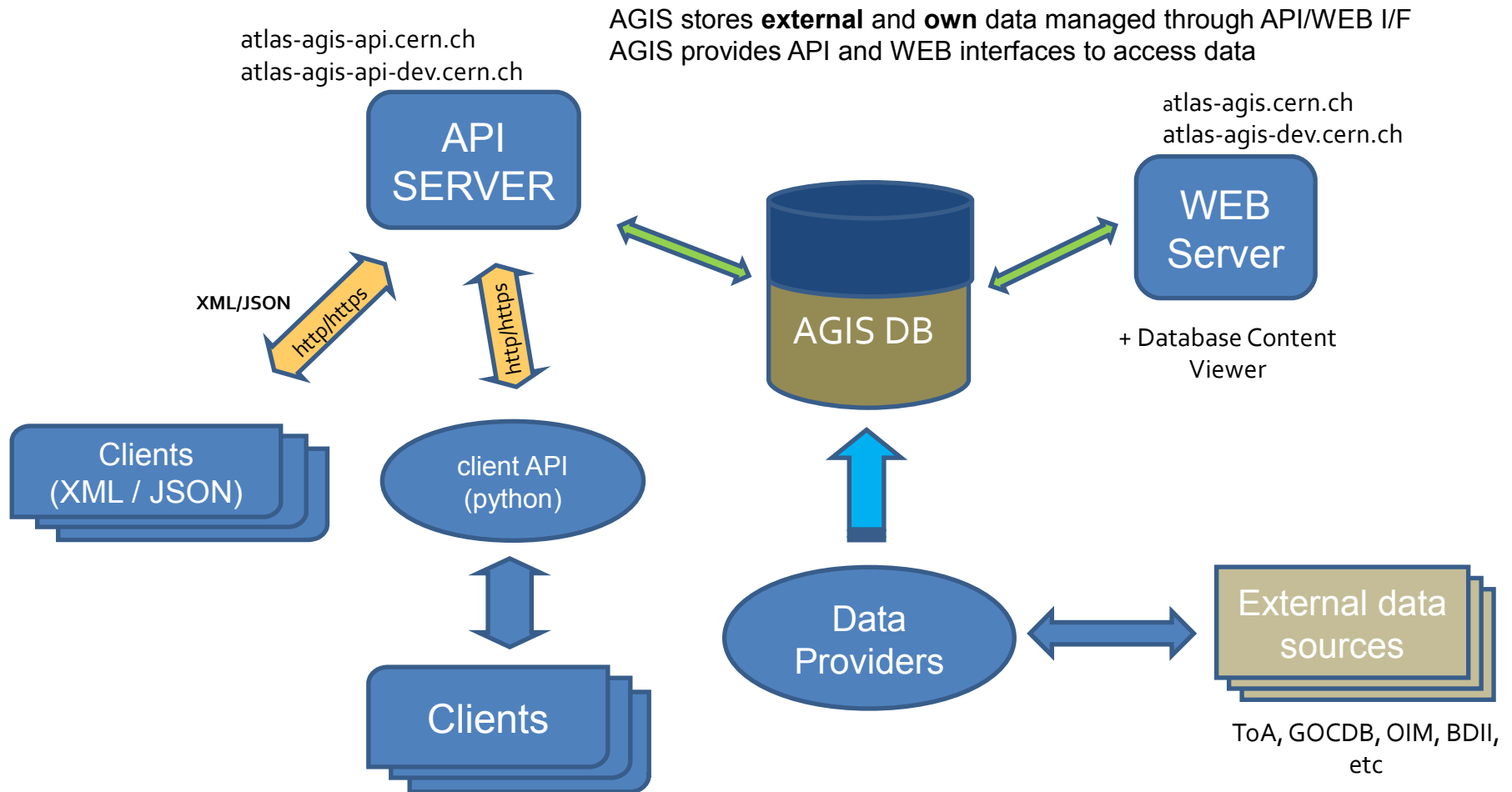
Budker Institute of Nuclear Physics
(BINP, Novosibirsk)

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Objectives

- AGIS was designed as one place to store and to expose all parameters needed by Distributed Computing applications: sites availability, topology, resources description, configuration parameters, downtime information, etc...
- It is an ORACLE based database system
- WEB, API, CLI interfaces to view and to modify database content

Architecture overview



Main milestones

- The project was started in September 2009
- First release at the end of October 2009
- Jan 2010: first version of AGIS API introduced
- Feb 2010: API/CLI in production
- Jun 2010: new phase of active development
- Jul 2010: implementation of DQ2.info interface via AGIS API
- Aug 2010: caching mechanism, performance optimizations in AGIS API client

AGIS status

- Sites Downtime calendar is implemented
- TierOfATLAS info is migrated into AGIS
- API/CLI is in production
- AGIS.info wrapper is implemented as a transparent replacement for DQ2.info interface
- ToA topology in XML format can be obtained via WEB
- First-shot implementation of WEB interface to view and to modify database content is done
 - to be extended next

Current tasks

- AGIS WEB interface is being extended to all AGIS entities
- *Tier* and *Federation* concepts are being replaced by common *RegionalCenter* one
 - this will help to resolve some inconsistencies in current topology
- GRIF-problem is being investigated
 - when site is divided into several sub-sites, current AGIS implementation does not allow to correctly resolve it
- Bugs fixing

Next steps

- To improve Services support inside AGIS
 - due to extending list of services and data providers, some modifications needed
- To finish implementation of BDII data provider
- To support Frontier/Squid services
 - to be discussed on tomorrow's Frontier meeting
- To check performance critical for external applications
 - caching mechanism for database access is implemented, high-load testing is required

AGIS database viewer

<http://atlas-agis-dev.cern.ch>

Site

ID: 1264 **Time zone:** *Not set* **Served LFC:** *Not set*
Name: DESY-HH **Geo coordinates:** *Not set* **Url with more info:** *Not set*
Tier: DETIER2S **Email Contact:** *Not set* **Last Modified:** 2010-08-18 08:47

Operations:  

Storage Elements

ID	Name	Type	Token	Status	Last Modified
7989	ALFA	ALFA	ATLASALFA		2010-08-18 08:47
7912	DATADISK	DATA	ATLASDATADISK		2010-08-18 08:47
7914	HOTDISK	ATLASHOTDISK	ATLASHOTDISK		2010-08-18 08:47
7917	LOCALGROUPDISK	LOCALGROUP	ATLASLOCALGROUPDISK		2010-08-18 08:47
7913	MCDISK	MC	ATLASMCDISK		2010-08-18 08:47
7918	PERF-TAU	GROUP	ATLASGROUPDISK		2010-08-25 15:00
7919	PHYS-SM	GROUP	ATLASGROUPDISK		2010-08-25 15:00
7920	PHYS-SUSY	GROUP	ATLASGROUPDISK		2010-08-25 15:00
7915	PRODDISK	PROD	ATLASPRODDISK		2010-08-18 08:47
7916	SCRATCHDISK	SCRATCH	ATLASSCRATCHDISK		2010-08-18 08:47

Alternative Names

Alias	Provider	Last Modified
DESY-HH	GOCDB	2010-08-18 08:47

Services

ID	Name	Type	Endpoint
1565	FZKLFC	LFC	lfc://atlas-lfc-fzk.gridka.de:/grid/atlas/
1477	None	SRM	srm://dcache-se-atlas.desy.de:8443/srm/managerv2?SFN=

[AGIS main page](#)

[Downtimes](#)

[Topology management](#)

- [Clouds management](#)
- [Tiers management](#)
- [Sites management](#)
- [Site Altnames management](#)
- [Federation management](#)
- [Virtual Organization management](#)
- [Countries management](#)

[Services management](#)

- [Service management](#)
- [Computing element management](#)
- [Storage element management](#)
- [Storage System management](#)
- [Queues management](#)

[Subscription management](#)

- [Subscription Policy management](#)
- [Subscription Policy Group management](#)
- [Subscription Policy Data management](#)

[Activity management](#)

- [Activity management](#)
- [ActivityType management](#)

[Other](#)

[User management](#)

Site Operations:



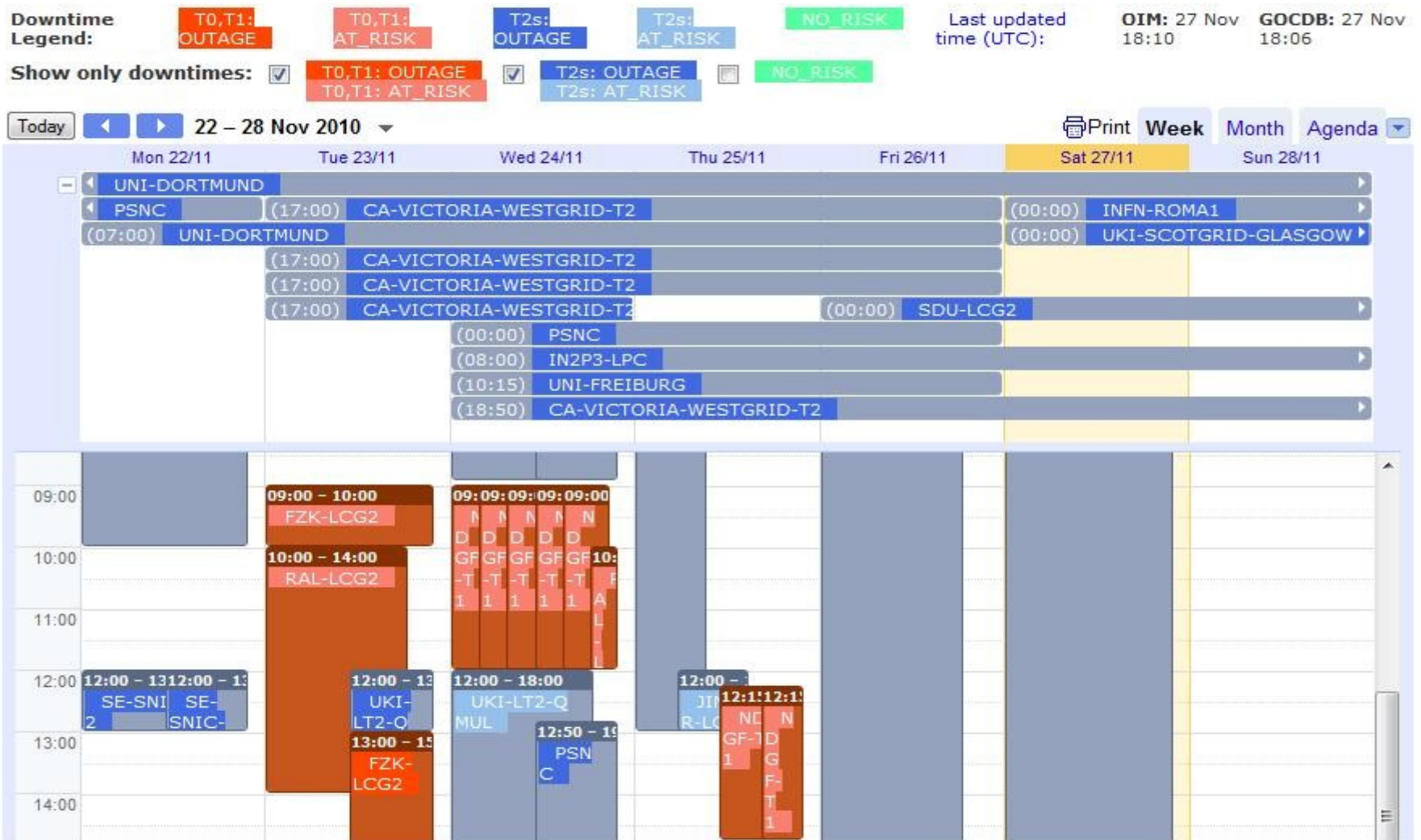
[Site list](#)



[Site create](#)

AGIS Downtimes calendar

<http://atlas-agis-dev.cern.ch/agis/calendar/>



Summary

- AGIS stable release in production
- Stage of functionality extending and bugs fixing
- Nearest goals:
 - To finish WEB interface to all entities
 - To introduce RegionalCenter concept
 - To resolve GRIF issue
 - To finish BDII data provider implementation
 - To support Frontier/Squid services

More AGIS info

- Twiki page

<https://twiki.cern.ch/twiki/bin/view/Atlas/AtlasGridInformationSystem>

- Information, documentation, API client rpms, ...

- Savannah project

<https://savannah.cern.ch/projects/atlas-adc-agis>

- Wishes, requests, bugs, ...

- Mailing list

atlas-adc-agis@cern.ch