

AGIS

status report

on behalf of AGIS team

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Current Status

AGIS core client-server architecture is implemented and deployed on production server (data models, web server, api server, client api architectures, authentications, data providers, serialization, cron jobs, etc)

- Production instance: *atlas-agis.cern.ch*, *version 0.7.0*
 - Downtime Calendar: <http://atlas-agis-cern.ch/agis/calendar/>
 - API services: atlas-agis-api-cern.ch:80
 - WEB Database viewer: <http://atlas-agis-cern.ch>
- Development instance: atlas-agis-dev.cern.ch, atlas-agis-api dev.cern.ch, *version 0.8.2*
 - *We froze production instance,*
 - *all new developments and updates are deployed on dev server first*
 - *New features and requests appear on dev server first*

Changes in AGIS architecture

After many discussions with DDM experts AGIS schema have been updated to satisfy DDM needs more precisely

Major changes:

- Tier and Federation aggregation into one RegionalCenter entity
- Splitting old StorageElement into {StorageElement, StorageArea, DDMEndpoint} entities
- Basic Service object unification, new types of services: Squid, Frontier
- Changes in site names representation in AGIS:
 - GOGDB/OIM site name used as a primary name for site
 - Additional alternative names can be associated with a site (eg. DDM name, site name in Panda, etc.)
- AGIS API and WEB I/F need to be fixed and updated according to schema changes, partially updated, work in progress.
- Full class diagram can be found at AGIS Wiki page:
<https://twiki.cern.ch/twiki/pub/Atlas/AtlasGridInformationSystem/2011.04.04.agis.Main.jpg>

New Data Source: BDII

Data collectors have been implemented to retrieve information from BDII source for ATLAS sites

List of data exported from BDII:

- Site specific information (info url, geocoordinates, etc)
- Computing Elements,
- Site queues
- Storage Elements, SRM services
- Storage Areas
- LFC, FTS services

Storage Elements related data obtained from BDII merged with ToA retrieved one.

Site Topology Export in XML format

AGIS supports data export in ATP xml feed format.

- That's 1st implementation, used to quickly validate and browse database content, to retrieve list of services described in AGIS

<http://atlas-agis-api-dev.cern.ch/request/atp/xml/>

Downtime Calendar updates

Recently implemented changes in AGIS schema allowed to improve downtime calendar:

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

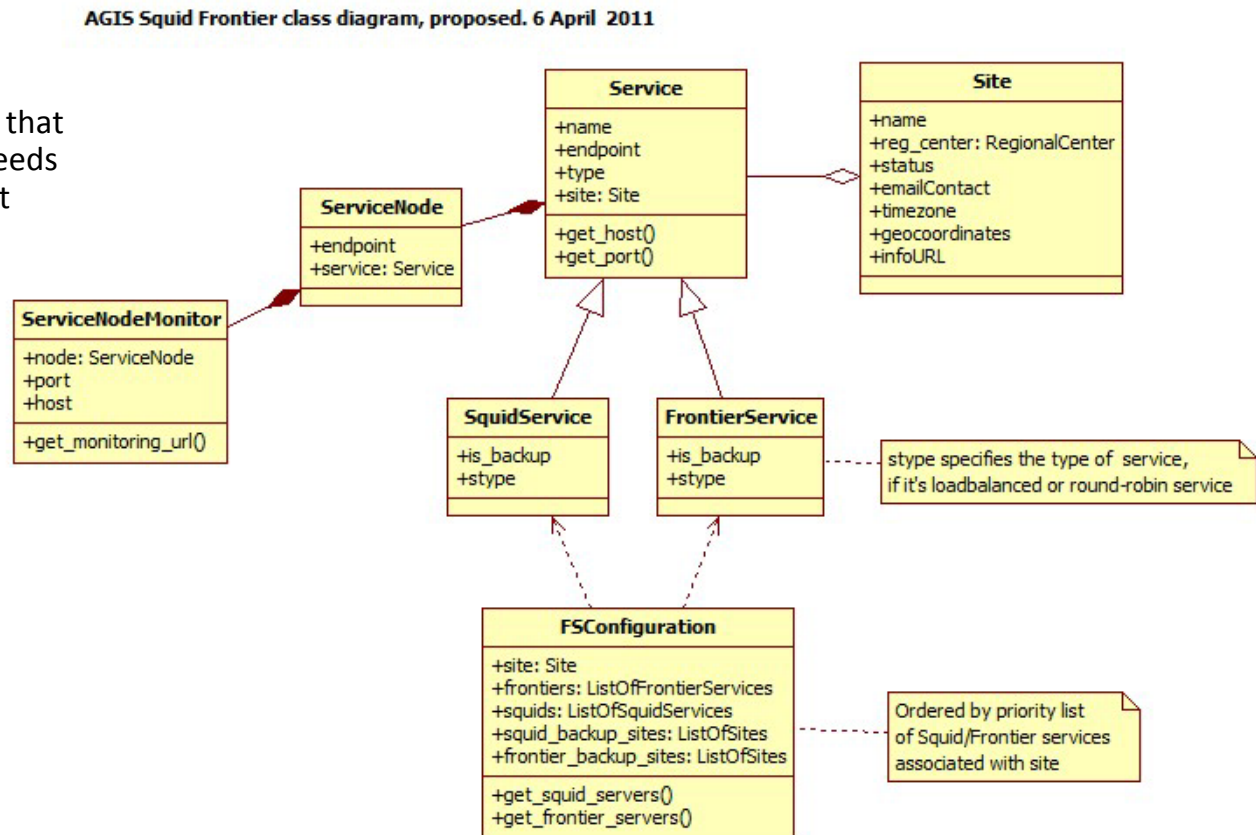
- CEs now appear on the Calendar and are properly taken into account to determine ATLAS site downtime for specific activity
- Importing SEs (using GOCDDB/OIM names as primary ones) helped to solve so called “GRIF problem”
(when one of subsites being in downtime affects other ones, [bug #69100](#), [bug #72704](#))

Frontier/Squid data integration

We are currently in discussion with Frontier/Squid team about requirements and functionality need to be supported and implemented in AGIS, as a result we provided the functional description for AGIS, got corrections and updates back:

https://twiki.cern.ch/twiki/pub/Atlas/AtlasGridInformationSystem/2011.03.28.AGIS.Squid_Frontier_requirements.pdf

- proposed class diagram that should cover basic FS needs with monitoring support



Conclusion. Near terms plans

- AGIS Schema updates:
 - We are reviewing the whole AGIS schema
 - AGIS API, DB Viewer need to be updated and fixed due to schema improvements, [currently in progress](#)
 - Provided ATP feed export functionality should help to validate the database content
- FSquid activity:
 - We still need some feedback and clear understanding on which are the Frontier/Squid requirements for AGIS
 - We will implement client API covered basic needs [in ~2-3 weeks](#), so packages could be deployed and tested on client site:
 - Basic API to retrieve data
 - Basic API to update/add data (eg. to register Squid Service Nodes)
- [DQ2.info replacement](#):
 - [When the global AGIS schema will be ok, we continue development and testing agis.info VS dq2.info clients.](#)
- Update API , VOMS integration:
 - We will provide API to post and to update information
 - VOMS roles will be used to properly handle permissions for posting