



**NORDUGRID**

*Grid Solution for Wide Area  
Computing and Data Handling*

# **GLUE2 Open Enumerations: Status and Issues**

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# Outline

- Enumerations status
- Are these concepts clear?
- How to proceed

# For those who don't know...

- Enumerations are strings used to identify peculiarities of the entities in the GLUE2. Examples are:
  - **ServiceType:** `org.nordugrid.arex`
  - **InterfaceName:** `org.glite.voms`
  - **Capability:** `data.management.transfer,`  
`information.monitoring,`  
`security.accounting`
  - **Osname:** `aix, gentoo, ubuntu`
  - **OsFamily:** `linux, macosx, windows`
  - **JobDescription:** `condor, nordugrid:xrsl`
  - **Platform:** `amd64, i386, itanium`

# Enumerations status 1

- Enumerations are officially provided as csv files on  
<https://github.com/OGF-GLUE/Enumerations>
- Two document **statuses**:
  - **Official**: approved by the group and users. Documents are called with type names.  
Example: `ServiceType_t.csv`
  - **Draft**: community based, not yet revised by the group.  
Documents contain the `-draft` suffix string in the name.  
Example: `Capability_t-draft.csv`

# Enumerations status 2

- Last change: 3 months ago
- Files present:
  - `ServiceType_t.csv`
  - `Capability_t-draft-csv`

I clearly didn't manage to progress much.  
Anybody willing to help?

# Are these concepts clear? 1

- Answer: NO
  - Not within the user community
  - Neither within the group!!
- Examples:
  - Initial values were copied from Glue1. But in Glue1 there was no Service concept. These must be revised.
  - GOCDB/EGI are creating ServiceType of their own. For example, `org.nordugrid.arex` is the official name for the A-REX Service, but when this is used as a Desktop Grid interface it becomes `dg.ARC-CE` but it's exactly the same software configured differently!

# Are these concepts clear? 2

## Examples:

- Some requests that come into the mailing list show that sometimes names are decided by information **provider developers** instead of **actual software developers**
- Suggestions to insert version inside InterfaceName (i.e. gram vs gram5) but later we agreed it makes no sense
- Services with only one endpoint to have same ServiceType and InterfaceName. Is this correct? Does this make always sense?

In general, discussion shows **we don't know what we want to achieve** with these enumerations.

I read many times the sentence

“anyway, it must be published.” **What for?**

# Are these concepts clear? 3

We should:

- Define what each enumeration is useful for.  
My general opinion: **automatic discovery**
- Define what each enumeration actually **means** and **who** has to create it.

Example: is ServiceType an arbitrary value? Is it the developers of a software who have to decide about it, the GLUE2 group or anybody can rewrite it to their own taste?

My view: only developers with the aid of the group.

Names must be fixed for each software, NOT for software configuration, to foster automatic discovery.

But... **How do we represent software configuration?**

- Have a place where to write down decisions after (sometimes confused) discussions on the mailing list.  
My opinion: Maybe **redmine wiki**?



# How to proceed

- Have a meeting in which we **drill down what we want to use open enumerations for**, and what each enumeration represents. Produce a document that clarifies this, if GDF147 is not enough (and so it seems)
- **Suggest a way of creating names** (I have this written somewhere... I'll submit to the group)
- Have regular meetings (once/twice a year) to
  - **Add new easy ones** (i.e. Platform\_t can be added as Stephen suggested in the mailing list)
  - approve documents in the **draft** state.
- Maybe use the **redmine wiki** for keeping track of decisions?
- I need somebody to **help**, regular meetings with relevant people will force me to fix all the enumerations. Or maybe distributing the effort will do as well.

# Thanks!

Questions??