



Enabling Grids for E-scienceE

Service Discovery and R-GMA

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RAL

JRA1 All Hands

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Information Society

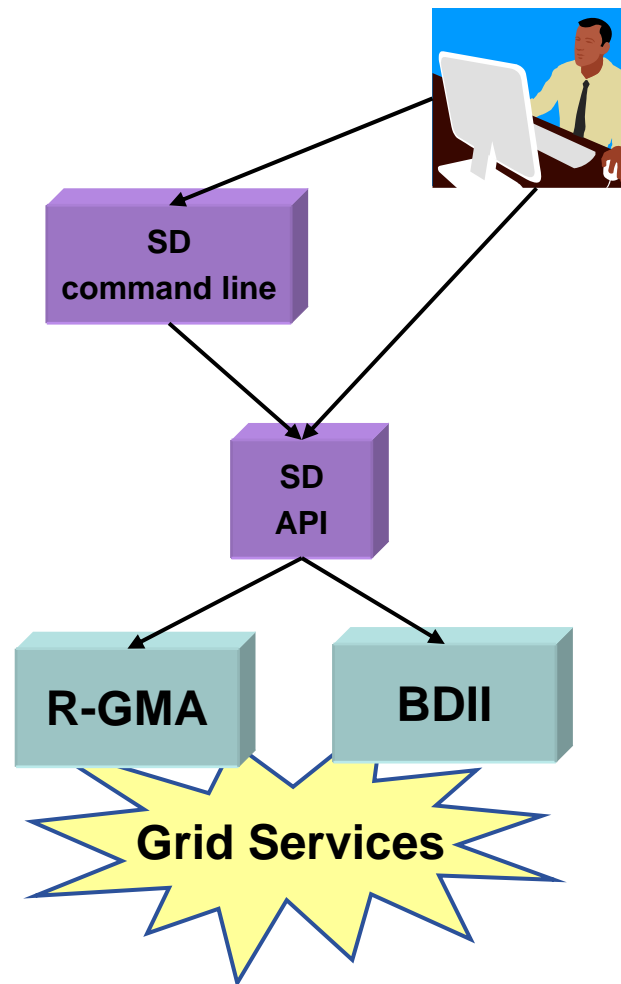


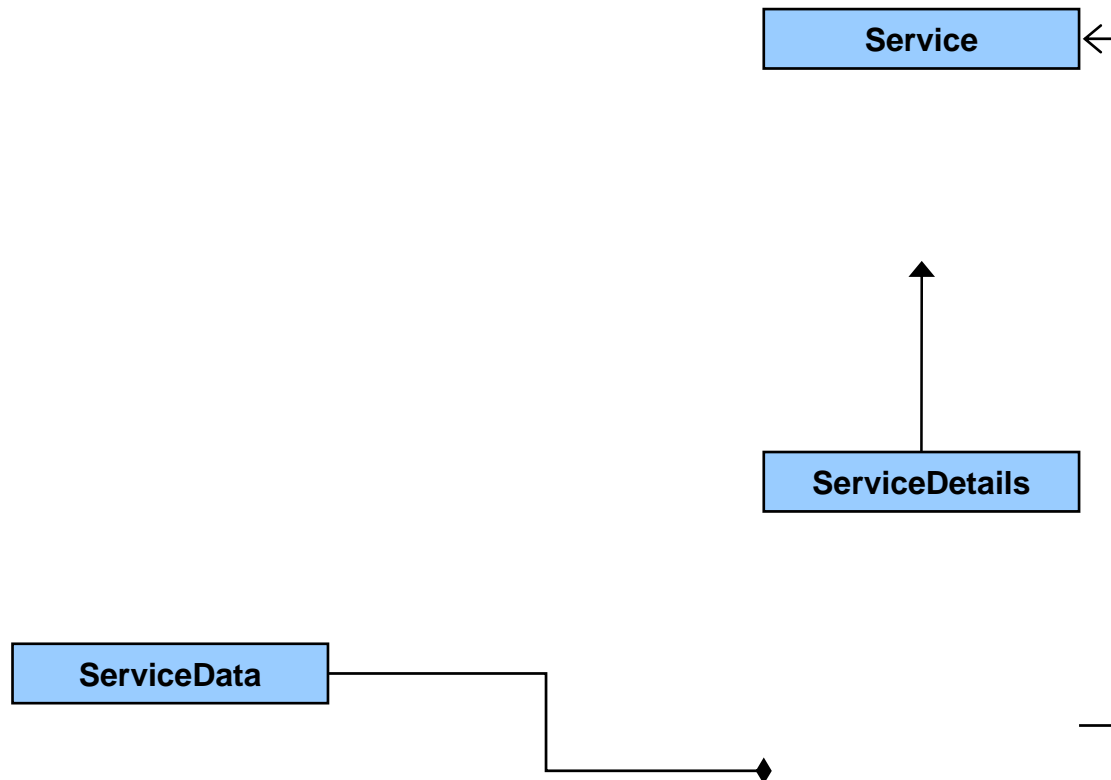
- **Problem**

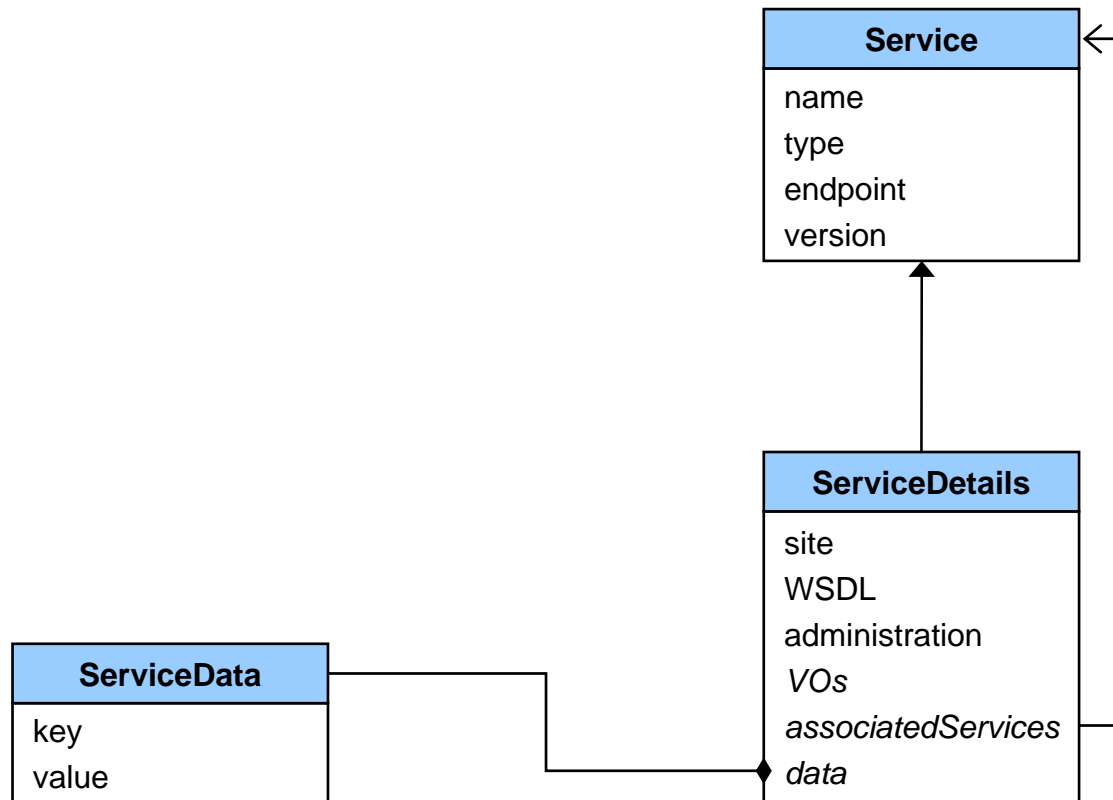
- Finding grid services
- Multiple information systems
 - R-GMA
 - BDII

- **Solution**

- Common Service Discovery API
- Back-ends
 - R-GMA
 - BDII
 - File
- Languages
 - Java
 - C/C++
- Command line







- **Finding services**

- `listServices`
 - `type, site, VOs`
- `listServicesByData`
 - `service data, type, site, VOs`
- `listServicesByHost`
 - `type, host, VOs`
- `listAssociatedServices`
 - `service name, type, site, VOs`

Search Parameters	
Type	org.glite.rgma.Consumer srm_v1 gridice
Site	INFN-CAGLIARI lxn1190.cern.ch
VOs	{alice, atlas, cms}
Host	rgmamon.lnl.infn.it monb001.cern.ch
Service data	{RunningJobs=0, HeldJobs=2}

- **Getting further information**

- `getService, getServiceDetails`
- `getServiceData, getServiceDataItem`
- `getServiceSite, getServiceWSDL`

- **Move from GlueCE/SE/... tables to GlueService***
- **“Streaming” service information**
- **Service publication API**