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EMI Execution Service page

Mission and goals

This activity has to provide "an agreement in the consortium on which interfaces and protocols we use in order to enable computational job submission and management required across technologies." Then, this EMI-ES specification should be implemented in the three middleware. Furthermore, based on the implementation experience the specification and the implementations should be updated in an iterative manner. The ultimate goal is to have a functional, production ready specification with as complete implementations as possible by the three stacks.

The task force

Participants

- ARC: Aleksandr, Balazs, Oxana, Martin, Florido, (Balazs, Oxana during the definition phase)
- gLite: Lisa, Eric (Massimo during the spec definition)
- UNICORE: Bernd, Shahbaz, Shiraz, Bjorn
- editorial team: Florido (takes July), Aleksandr (can take September), a glite person (?)

Timeline, ACTIONS

Timeline:

- 12 November: Update of the EMI-ES spec including schema updates to v1.16 (Aleksandr)
- 16 November: end of feature coding, synching with v1.16

ACTIONS (due 16th Nov at the latest):

- All committed to support https datastaging
- xpath query in the request: Aleksandr and Shiraz comes with a solution
- Florido updates EMI-ES spec with xpath no namespace info
- Timestamp:
 - ◆ Alexandr clarifies semantic of timestamp across the spec, others check if they understood the timesteps the same way
 - ◆ Shiraz proposes timestamp changes to GLUE2 group to on the timestamp issue AND changes the emi-es xsd to use native datetime
- NotifyService: Lisa clarifies it in the specification.
- Delegation: gridsite problem with empty soap messages. Lisa asks Paul if it's possible to remove the suboperation
- Capability issues: Aleksandr, Martin, Florido check arc clients. ResourceInfo Documents look fine.
- Security issue on VOMS certificates etc.: customize CREAM ARGUS configuration to solve that

Meetings, notes

list, link here meeting indico records, notes

- JRA1 meeting on EMI-ES: Friday, 6th July 11-12,
<https://indico.cern.ch/conferenceDisplay.py?confId=199177>

- JRA1 meeting on EMI-ES: Friday, 20th July 10-11, No minutes for this meeting as it was an explanation of the new Spec. Actions that followed are recorded above. Comments during the meeting have been added to Specification v1.14, see log.

The EMI-ES specification

The specification and schemas:

- EMI-ES Specification
https://twiki.cern.ch/twiki/pub/EMI/EmiExecutionService/EMI-ES-Specification_v1.16.odt
- WSDL/XSD <https://twiki.cern.ch/twiki/pub/EMI/EmiExecutionService/es-schemas-1.16-src.tar>

Requested updates

Changes requested can have different severity levels:

- editorial: only typos, inconsistent naming, etc. These will not require discussion, and the editor can simply implement them
- implementation: changes that influence how the specification is translated into xsd/wSDL. These require approval by all the implementors.
- semantic: changes that would modify the actual meaning of the specification. These require discussion and agreement before they can be adopted

Implementations

- tracked through Savannah, https://savannah.cern.ch/search/?words=EMI-ES&type_of_search=task
- Not Implemented (30.October): Pause/Resume mandatory operation (ARC, UNICORE, CREAM), activity history (ARC, UNICORE), multiple data sources (UNICORE), parallel ADL elements (NO Cream, partially ARC and Unicore)

Implementation choices, details:

GLUE2

ARC

CREAM

UNICORE

EMI-ES

I mean ActivityID as defined in the spec. I guess the full XML chunk representing it will be nice. --
FlorioPaganelli - 12-Jul-2012

ARC String of alphanumeric characters. For example
"kOJLDm2F5fgnyOkhppsXjgoABFKDmABFKDmTYLKDmABFKDmbTcD8m".

CREAM The activityId looks like "CR_ES047938432"

UNICORE We use UUIDs, for example "556a7fbc-28ff-414e-bcee-6d1116c7d399"

EMI-ES

ARC

More... Close

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EmiExecutionService < EMI < TWiki

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EmiExecutionService < EMI < TWiki

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  <FreeSlots>1</FreeSlots>
  <FreeSlotsWithDuration>1</FreeSlotsWithDuration>
  <UsedSlots>0</UsedSlots>
  <RequestedSlots>0</RequestedSlots>
  <Associations>
    <ComputingEndpointID>urn:ogf:ComputingEndpoint:mobile2.vdnet.lt:gridftpjob:gsiftp:/
    <ComputingEndpointID>urn:ogf:ComputingEndpoint:mobile2.vdnet.lt:xbes:https://mobile
    <ComputingEndpointID>urn:ogf:ComputingEndpoint:mobile2.vdnet.lt:emies:https://mobil
    <ExecutionEnvironmentID>urn:ogf:ExecutionEnvironment:mobile2.vdnet.lt:execenv0</Exe
  </Associations>
</ComputingShare>
<ComputingManager BaseType="Manager" CreationTime="2012-10-15T13:51:47Z" Validity="60">
  <ID>urn:ogf:ComputingManager:mobile2.vdnet.lt:fork</ID>
```

EmiExecutionService < EMI < TWiki

```
<ProductName>fork</ProductName>
<ProductVersion>0.9</ProductVersion>
<BulkSubmission>>false</BulkSubmission>
<TotalLogicalCPUs>1</TotalLogicalCPUs>
<TotalSlots>1</TotalSlots>
<SlotsUsedByLocalJobs>0</SlotsUsedByLocalJobs>
<SlotsUsedByGridJobs>0</SlotsUsedByGridJobs>
<Homogeneous>>true</Homogeneous>
<LogicalCPUDistribution>1:1</LogicalCPUDistribution>
<WorkingAreaShared>>true</WorkingAreaShared>
<WorkingAreaGuaranteed>>false</WorkingAreaGuaranteed>
<WorkingAreaTotal>46</WorkingAreaTotal>
<WorkingAreaFree>2</WorkingAreaFree>
<WorkingAreaLifeTime>604800</WorkingAreaLifeTime>
<CacheTotal>46</CacheTotal>
<CacheFree>2</CacheFree>
<ExecutionEnvironments>
  <ExecutionEnvironment BaseType="Resource" CreationTime="2012-10-15T13:51:47Z" Valid
    <ID>urn:ogf:ExecutionEnvironment:mobile2.vdnet.lt:execenv0</ID>
    <Name>execenv0</Name>
    <Platform>i686</Platform>
    <TotalInstances>1</TotalInstances>
    <UsedInstances>0</UsedInstances>
    <UnavailableInstances>0</UnavailableInstances>
    <PhysicalCPUs>1</PhysicalCPUs>
    <LogicalCPUs>1</LogicalCPUs>
    <CPUMultiplicity>singlecpu-singlecore</CPUMultiplicity>
    <CPUVendor>GenuineIntel</CPUVendor>
    <CPUModel>Intel (R) Celeron (R) M CPU          420</CPUModel>
    <CPUClockSpeed>1600</CPUClockSpeed>
    <MainMemorySize>1507</MainMemorySize>
    <VirtualMemorySize>4432</VirtualMemorySize>
    <OSFamily>linux</OSFamily>
    <ConnectivityIn>true</ConnectivityIn>
    <ConnectivityOut>true</ConnectivityOut>
    <Associations>
      <ComputingShareID>urn:ogf:ComputingShare:mobile2.vdnet.lt:fork</ComputingShareID>
    </Associations>
  </ExecutionEnvironment>
</ExecutionEnvironments>
<ApplicationEnvironments>
</ApplicationEnvironments>
</ComputingManager>
<Associations>
  <ServiceID>urn:ogf:ComputingService:mobile2.vdnet.lt:arex</ServiceID>
</Associations>
</ComputingService>
</esrinfo:Services>
</esrinfo:GetResourceInfoResponse>
```

CREAM

More... Close

```
<GetResourceInfoResponse xmlns="http://www.eu-emi.eu/es/2010/12/resourceinfo/types">
  <Services>
    <ComputingService xmlns="http://schemas.ogf.org/glue/2009/03/spec_2.0_r1" xmlns:xsi="http://www
      <ID>cream-47.pd.infn.it_ESComputingElement</ID>
      <Name>Computing Service cream-47.pd.infn.it_ESComputingElement</Name>
      <OtherInfo>InfoProviderName=glite-ce-glue2-computingservice-static</OtherInfo>
      <OtherInfo>InfoProviderVersion=1.1</OtherInfo>
      <OtherInfo>InfoProviderHost=cream-47.pd.infn.it</OtherInfo>
      <Capability>executionmanagement.jobcreation</Capability>
      <Capability>executionmanagement.jobdescription</Capability>
      <Capability>executionmanagement.jobmanagement</Capability>
```

EmiExecutionService < EMI < TWiki

```

<Capability>data.access.stageindir.gridftp</Capability>
<Capability>data.access.stageoutdir.gridftp</Capability>
<Capability>data.transfer.cepull.*</Capability>
<Capability>data.transfer.cephush.*</Capability>
<Capability>information.monitoring</Capability>
<Capability>information.discovery</Capability>
<Capability>information.discovery.resource</Capability>
<Capability>information.lookup.job</Capability>
<Capability>information.query.xpath1</Capability>
<Capability>security.delegation</Capability>
<Type>org.ogf.emies</Type>
<QualityLevel>production</QualityLevel>
<Complexity>endpointType=2, share=9, resource=1</Complexity>
<ComputingEndpoint xsi:type="ComputingEndpoint_t" CreationTime="2012-10-18T14:36:42.000+02:00">
  <ID>cream-47.pd.infn.it_org.ogf.glue.emies.delegation</ID>
  <Name>cream-47.pd.infn.it_org.ogf.glue.emies.delegation</Name>
  <OtherInfo>HostDN=/C=IT/O=INFN/OU=Host/L=Padova/CN=cream-47.pd.infn.it</OtherInfo>
  <OtherInfo>InfoProviderName=glite-ce-glue2-endpoint-static</OtherInfo>
  <OtherInfo>InfoProviderVersion=1.1</OtherInfo>
  <OtherInfo>InfoProviderHost=cream-47.pd.infn.it</OtherInfo>
  <OtherInfo>MiddlewareName=EMI</OtherInfo>
  <OtherInfo>MiddlewareVersion=2.3.0-1</OtherInfo>
  <OtherInfo>This CREAM-CE is not using Argus</OtherInfo>
  <URL>https://cream-47.pd.infn.it:8443/ce-cream-es/services/DelegationService</URL>
  <Capability>security.delegation</Capability>
  <Technology>webservice</Technology>
  <InterfaceName>org.ogf.glue.emies.delegation</InterfaceName>
  <InterfaceVersion>1.15</InterfaceVersion>
  <WSDL>https://cream-47.pd.infn.it:8443/ce-cream-es/services/DelegationService?wsdl</WSDL>
  <SupportedProfile>https://twiki.cern.ch/twiki/bin/view/EMI/EmiExecutionService</SupportedProfile>
  <Semantics>https://twiki.cern.ch/twiki/bin/view/EMI/EmiExecutionService</Semantics>
  <Implementor>gLite</Implementor>
  <ImplementationName>CREAM</ImplementationName>
  <QualityLevel>production</QualityLevel>
  <HealthState>unknown</HealthState>
  <HealthStateInfo>N/A</HealthStateInfo>
  <ServingState>production</ServingState>
  <StartTime>2012-10-18T14:36:42.000+02:00</StartTime>
  <IssuerCA>/C=IT/O=INFN/CN=INFN CA</IssuerCA>
  <TrustedCA>IGTF</TrustedCA>
  <DowntimeInfo>See the GOC DB for downtimes: https://goc.egi.eu/</DowntimeInfo>
  <AccessPolicy xsi:type="AccessPolicy_t" CreationTime="2012-10-18T14:36:42.000+02:00">
    <ID>cream-47.pd.infn.it_org.ogf.glue.emies.delegation_Policy</ID>
    <Name>Access control rules for Endpoint cream-47.pd.infn.it_org.ogf.glue.emies.delegation</Name>
    <OtherInfo>InfoProviderName=glite-ce-glue2-endpoint-static</OtherInfo>
    <OtherInfo>InfoProviderVersion=1.1</OtherInfo>
    <OtherInfo>InfoProviderHost=cream-47.pd.infn.it</OtherInfo>
    <Scheme>org.glite.standard</Scheme>
    <Rule>VO:dteam</Rule>
    <Rule>VO:infngird</Rule>
    <Rule>VO:testers.eu-emi.eu</Rule>
  </AccessPolicy>
  <Staging>staginginout</Staging>
  <JobDescription/>
</ComputingEndpoint>
<ComputingEndpoint xsi:type="ComputingEndpoint_t" CreationTime="2012-10-18T14:36:42.000+02:00">
  <ID>cream-47.pd.infn.it_org.ogf.glue.emies.activityinfo</ID>
  <Name>cream-47.pd.infn.it_org.ogf.glue.emies.activityinfo</Name>
  <OtherInfo>HostDN=/C=IT/O=INFN/OU=Host/L=Padova/CN=cream-47.pd.infn.it</OtherInfo>
  <OtherInfo>InfoProviderName=glite-ce-glue2-endpoint-static</OtherInfo>
  <OtherInfo>InfoProviderVersion=1.1</OtherInfo>
  <OtherInfo>InfoProviderHost=cream-47.pd.infn.it</OtherInfo>
  <OtherInfo>MiddlewareName=EMI</OtherInfo>
  <OtherInfo>MiddlewareVersion=2.3.0-1</OtherInfo>
  <OtherInfo>This CREAM-CE is not using Argus</OtherInfo>
  <URL>https://cream-47.pd.infn.it:8443/ce-cream-es/services/ActivityInfoService</URL>
  <Capability>information.monitoring</Capability>

```

EmiExecutionService < EMI < TWiki

```
<Capability>information.discovery</Capability>
<Capability>information.lookup.job</Capability>
<Technology>webservice</Technology>
<InterfaceName>org.ogf.glue.emies.activityinfo</InterfaceName>
<InterfaceVersion>1.15</InterfaceVersion>
<WSDL>https://cream-47.pd.infn.it:8443/ce-cream-es/services/ActivityInfoService?wsdl</WSDL>
<SupportedProfile>https://twiki.cern.ch/twiki/bin/view/EMI/EmiExecutionService</SupportedProfile>
<Semantics>https://twiki.cern.ch/twiki/bin/view/EMI/EmiExecutionService</Semantics>
<Implementor>gLite</Implementor>
<ImplementationName>CREAM</ImplementationName>
<QualityLevel>production</QualityLevel>
<HealthState>unknown</HealthState>
<HealthStateInfo>N/A</HealthStateInfo>
<ServingState>production</ServingState>
<StartTime>2012-10-18T14:36:42.000+02:00</StartTime>
<IssuerCA>/C=IT/O=INFN/CN=INFN CA</IssuerCA>
<TrustedCA>IGTF</TrustedCA>
<DowntimeInfo>See the GOC DB for downtimes: https://goc.egi.eu/</DowntimeInfo>
<AccessPolicy xsi:type="AccessPolicy_t" CreationTime="2012-10-18T14:36:42.000+02:00">
  <ID>cream-47.pd.infn.it_org.ogf.glue.emies.activityinfo_Policy</ID>
  <Name>Access control rules for Endpoint cream-47.pd.infn.it_org.ogf.glue.emies.activityinfo</Name>
  <OtherInfo>InfoProviderName=glite-ce-glue2-endpoint-static</OtherInfo>
  <OtherInfo>InfoProviderVersion=1.1</OtherInfo>
  <OtherInfo>InfoProviderHost=cream-47.pd.infn.it</OtherInfo>
  <Scheme>org.glite.standard</Scheme>
  <Rule>VO:dteam</Rule>
  <Rule>VO:infngrid</Rule>
  <Rule>VO:testers.eu-emi.eu</Rule>
</AccessPolicy>
<Staging>staginginout</Staging>
<JobDescription/>
</ComputingEndpoint>
<ComputingEndpoint xsi:type="ComputingEndpoint_t" CreationTime="2012-10-18T14:36:42.000+02:00">
  <ID>cream-47.pd.infn.it_org.ogf.glue.emies.resourceinfo</ID>
  <Name>cream-47.pd.infn.it_org.ogf.glue.emies.resourceinfo</Name>
  <OtherInfo>HostDN=/C=IT/O=INFN/OU=Host/L=Padova/CN=cream-47.pd.infn.it</OtherInfo>
  <OtherInfo>InfoProviderName=glite-ce-glue2-endpoint-static</OtherInfo>
  <OtherInfo>InfoProviderVersion=1.1</OtherInfo>
  <OtherInfo>InfoProviderHost=cream-47.pd.infn.it</OtherInfo>
  <OtherInfo>MiddlewareName=EMI</OtherInfo>
  <OtherInfo>MiddlewareVersion=2.3.0-1</OtherInfo>
  <OtherInfo>This CREAM-CE is not using Argus</OtherInfo>
  <URL>https://cream-47.pd.infn.it:8443/ce-cream-es/services/ResourceInfoService</URL>
  <Capability>information.discovery.resource</Capability>
  <Capability>information.query.xpath1</Capability>
  <Technology>webservice</Technology>
  <InterfaceName>org.ogf.glue.emies.resourceinfo</InterfaceName>
  <InterfaceVersion>1.15</InterfaceVersion>
  <WSDL>https://cream-47.pd.infn.it:8443/ce-cream-es/services/ResourceInfoService?wsdl</WSDL>
  <SupportedProfile>https://twiki.cern.ch/twiki/bin/view/EMI/EmiExecutionService</SupportedProfile>
  <Semantics>https://twiki.cern.ch/twiki/bin/view/EMI/EmiExecutionService</Semantics>
  <Implementor>gLite</Implementor>
  <ImplementationName>CREAM</ImplementationName>
  <QualityLevel>production</QualityLevel>
  <HealthState>unknown</HealthState>
  <HealthStateInfo>N/A</HealthStateInfo>
  <ServingState>production</ServingState>
  <StartTime>2012-10-18T14:36:42.000+02:00</StartTime>
  <IssuerCA>/C=IT/O=INFN/CN=INFN CA</IssuerCA>
  <TrustedCA>IGTF</TrustedCA>
  <DowntimeInfo>See the GOC DB for downtimes: https://goc.egi.eu/</DowntimeInfo>
  <AccessPolicy xsi:type="AccessPolicy_t" CreationTime="2012-10-18T14:36:42.000+02:00">
    <ID>cream-47.pd.infn.it_org.ogf.glue.emies.resourceinfo_Policy</ID>
    <Name>Access control rules for Endpoint cream-47.pd.infn.it_org.ogf.glue.emies.resourceinfo</Name>
    <OtherInfo>InfoProviderName=glite-ce-glue2-endpoint-static</OtherInfo>
    <OtherInfo>InfoProviderVersion=1.1</OtherInfo>
    <OtherInfo>InfoProviderHost=cream-47.pd.infn.it</OtherInfo>
  </AccessPolicy>
</ComputingEndpoint>
```

EmiExecutionService < EMI < TWiki

```
<Scheme>org.glite.standard</Scheme>
<Rule>VO:dteam</Rule>
<Rule>VO:infngrid</Rule>
<Rule>VO:testers.eu-emi.eu</Rule>
</AccessPolicy>
<Staging>staginginout</Staging>
<JobDescription/>
</ComputingEndpoint>
<ComputingEndpoint xsi:type="ComputingEndpoint_t" CreationTime="2012-10-18T14:36:42.000+02:00"
  <ID>cream-47.pd.infn.it_org.ogf.glue.emies.activitycreation</ID>
  <Name>cream-47.pd.infn.it_org.ogf.glue.emies.activitycreation</Name>
  <OtherInfo>HostDN=/C=IT/O=INFN/OU=Host/L=Padova/CN=cream-47.pd.infn.it</OtherInfo>
  <OtherInfo>InfoProviderName=glite-ce-glue2-endpoint-static</OtherInfo>
  <OtherInfo>InfoProviderVersion=1.1</OtherInfo>
  <OtherInfo>InfoProviderHost=cream-47.pd.infn.it</OtherInfo>
  <OtherInfo>MiddlewareName=EMI</OtherInfo>
  <OtherInfo>MiddlewareVersion=2.3.0-1</OtherInfo>
  <OtherInfo>This CREAM-CE is not using Argus</OtherInfo>
  <URL>https://cream-47.pd.infn.it:8443/ce-cream-es/services/ActivityCreationService</URL>
  <Capability>executionmanagement.jobcreation</Capability>
  <Capability>executionmanagement.jobdescription</Capability>
  <Capability>data.access.stageindir.gridftp</Capability>
  <Capability>data.access.stageoutdir.gridftp</Capability>
  <Technology>webservice</Technology>
  <InterfaceName>org.ogf.glue.emies.activitycreation</InterfaceName>
  <InterfaceVersion>1.15</InterfaceVersion>
  <WSDL>https://cream-47.pd.infn.it:8443/ce-cream-es/services/ActivityCreationService?wsdl</WSDL>
  <SupportedProfile>https://twiki.cern.ch/twiki/bin/view/EMI/EmiExecutionService</SupportedProfile>
  <Semantics>https://twiki.cern.ch/twiki/bin/view/EMI/EmiExecutionService</Semantics>
  <Implementor>gLite</Implementor>
  <ImplementationName>CREAM</ImplementationName>
  <QualityLevel>production</QualityLevel>
  <HealthState>unknown</HealthState>
  <HealthStateInfo>N/A</HealthStateInfo>
  <ServingState>production</ServingState>
  <StartTime>2012-10-18T14:36:42.000+02:00</StartTime>
  <IssuerCA>/C=IT/O=INFN/CN=INFN CA</IssuerCA>
  <TrustedCA>IGTF</TrustedCA>
  <DowntimeInfo>See the GOC DB for downtimes: https://goc.egi.eu/</DowntimeInfo>
  <AccessPolicy xsi:type="AccessPolicy_t" CreationTime="2012-10-18T14:36:42.000+02:00"
    <ID>cream-47.pd.infn.it_org.ogf.glue.emies.activitycreation_Policy</ID>
    <Name>Access control rules for Endpoint cream-47.pd.infn.it_org.ogf.glue.emies.activitycreation</Name>
    <OtherInfo>InfoProviderName=glite-ce-glue2-endpoint-static</OtherInfo>
    <OtherInfo>InfoProviderVersion=1.1</OtherInfo>
    <OtherInfo>InfoProviderHost=cream-47.pd.infn.it</OtherInfo>
    <Scheme>org.glite.standard</Scheme>
    <Rule>VO:dteam</Rule>
    <Rule>VO:infngrid</Rule>
    <Rule>VO:testers.eu-emi.eu</Rule>
  </AccessPolicy>
  <Staging>staginginout</Staging>
  <JobDescription>emies:adl</JobDescription>
</ComputingEndpoint>
<ComputingEndpoint xsi:type="ComputingEndpoint_t" CreationTime="2012-10-18T14:36:42.000+02:00"
  <ID>cream-47.pd.infn.it_org.ogf.glue.emies.activitymanagement</ID>
  <Name>cream-47.pd.infn.it_org.ogf.glue.emies.activitymanagement</Name>
  <OtherInfo>HostDN=/C=IT/O=INFN/OU=Host/L=Padova/CN=cream-47.pd.infn.it</OtherInfo>
  <OtherInfo>InfoProviderName=glite-ce-glue2-endpoint-static</OtherInfo>
  <OtherInfo>InfoProviderVersion=1.1</OtherInfo>
  <OtherInfo>InfoProviderHost=cream-47.pd.infn.it</OtherInfo>
  <OtherInfo>MiddlewareName=EMI</OtherInfo>
  <OtherInfo>MiddlewareVersion=2.3.0-1</OtherInfo>
  <OtherInfo>This CREAM-CE is not using Argus</OtherInfo>
  <URL>https://cream-47.pd.infn.it:8443/ce-cream-es/services/ActivityManagementService</URL>
  <Capability>executionmanagement.jobmanagement</Capability>
  <Capability>information.lookup.job</Capability>
  <Capability>data.access.stageindir.gridftp</Capability>
```

EmiExecutionService < EMI < TWiki

```
<Capability>data.access.stageoutdir.gridftp</Capability>
<Capability>data.transfer.cepull.*</Capability>
<Capability>data.transfer.cepush.*</Capability>
<Technology>webservice</Technology>
<InterfaceName>org.ogf.glue.emies.activitymanagement</InterfaceName>
<InterfaceVersion>1.15</InterfaceVersion>
<WSDL>https://cream-47.pd.infn.it:8443/ce-cream-es/services/ActivityManagementService?wsdl
<SupportedProfile>https://twiki.cern.ch/twiki/bin/view/EMI/EmiExecutionService</SupportedProfile>
<Semantics>https://twiki.cern.ch/twiki/bin/view/EMI/EmiExecutionService</Semantics>
<Implementor>gLite</Implementor>
<ImplementationName>CREAM</ImplementationName>
<QualityLevel>production</QualityLevel>
<HealthState>unknown</HealthState>
<HealthStateInfo>N/A</HealthStateInfo>
<ServingState>production</ServingState>
<StartTime>2012-10-18T14:36:42.000+02:00</StartTime>
<IssuerCA>/C=IT/O=INFN/CN=INFN CA</IssuerCA>
<TrustedCA>IGTF</TrustedCA>
<DowntimeInfo>See the GOC DB for downtimes: https://goc.egi.eu/</DowntimeInfo>
<AccessPolicy xsi:type="AccessPolicy_t" CreationTime="2012-10-18T14:36:42.000+02:00">
  <ID>cream-47.pd.infn.it_org.ogf.glue.emies.activitymanagement_Policy</ID>
  <Name>Access control rules for Endpoint cream-47.pd.infn.it_org.ogf.glue.emies.activity
  <OtherInfo>InfoProviderName=glite-ce-glue2-endpoint-static</OtherInfo>
  <OtherInfo>InfoProviderVersion=1.1</OtherInfo>
  <OtherInfo>InfoProviderHost=cream-47.pd.infn.it</OtherInfo>
  <Scheme>org.glite.standard</Scheme>
  <Rule>VO:dteam</Rule>
  <Rule>VO:infngrid</Rule>
  <Rule>VO:testers.eu-emi.eu</Rule>
</AccessPolicy>
<Staging>staginginout</Staging>
<JobDescription/>
</ComputingEndpoint>
<ComputingShare xsi:type="ComputingShare_t" CreationTime="2012-10-18T14:37:23.000+02:00">
  <ID>cert_dteam_cream-47.pd.infn.it_ESComputingElement</ID>
  <OtherInfo>ServiceType=org.ogf.emies</OtherInfo>
  <OtherInfo>InfoProviderName=glite-ce-glue2-share-static</OtherInfo>
  <OtherInfo>InfoProviderVersion=1.1</OtherInfo>
  <OtherInfo>InfoProviderHost=cream-47.pd.infn.it</OtherInfo>
  <Description>Share of cert for dteam</Description>
  <MappingPolicy xsi:type="MappingPolicy_t" CreationTime="2012-10-18T14:36:42.000+02:00">
    <ID>cert_dteam_cream-47.pd.infn.it_ESComputingElement_policy</ID>
    <Scheme>org.glite.standard</Scheme>
    <Rule>VO:dteam</Rule>
  </MappingPolicy>
  <MappingQueue>cert</MappingQueue>
  <MaxWallTime>999999999</MaxWallTime>
  <DefaultWallTime>999999999</DefaultWallTime>
  <MaxCPUTime>999999999</MaxCPUTime>
  <DefaultCPUTime>999999999</DefaultCPUTime>
  <MaxRunningJobs>216</MaxRunningJobs>
  <ServingState>production</ServingState>
  <TotalJobs>0</TotalJobs>
  <RunningJobs>0</RunningJobs>
  <WaitingJobs>0</WaitingJobs>
  <EstimatedAverageWaitingTime>2146660842</EstimatedAverageWaitingTime>
  <EstimatedWorstWaitingTime>2146660842</EstimatedWorstWaitingTime>
  <FreeSlots>0</FreeSlots>
</ComputingShare>
<ComputingShare xsi:type="ComputingShare_t" CreationTime="2012-10-18T14:37:23.000+02:00">
  <ID>cert_infngrid_cream-47.pd.infn.it_ESComputingElement</ID>
  <OtherInfo>ServiceType=org.ogf.emies</OtherInfo>
  <OtherInfo>InfoProviderName=glite-ce-glue2-share-static</OtherInfo>
  <OtherInfo>InfoProviderVersion=1.1</OtherInfo>
  <OtherInfo>InfoProviderHost=cream-47.pd.infn.it</OtherInfo>
  <Description>Share of cert for infngrid</Description>
  <MappingPolicy xsi:type="MappingPolicy_t" CreationTime="2012-10-18T14:36:42.000+02:00">
```

EmiExecutionService < EMI < TWiki

```
<ID>cert_infnggrid_cream-47.pd.infn.it_ESComputingElement_policy</ID>
<Scheme>org.glite.standard</Scheme>
<Rule>VO:infnggrid</Rule>
</MappingPolicy>
<MappingQueue>cert</MappingQueue>
<MaxWallTime>999999999</MaxWallTime>
<DefaultWallTime>999999999</DefaultWallTime>
<MaxCPUTime>999999999</MaxCPUTime>
<DefaultCPUTime>999999999</DefaultCPUTime>
<MaxRunningJobs>216</MaxRunningJobs>
<ServingState>production</ServingState>
<TotalJobs>0</TotalJobs>
<RunningJobs>0</RunningJobs>
<WaitingJobs>0</WaitingJobs>
<EstimatedAverageWaitingTime>2146660842</EstimatedAverageWaitingTime>
<EstimatedWorstWaitingTime>2146660842</EstimatedWorstWaitingTime>
<FreeSlots>0</FreeSlots>
</ComputingShare>
<ComputingShare xsi:type="ComputingShare_t" CreationTime="2012-10-18T14:37:23.000+02:00">
  <ID>creamcert1_dteam_cream-47.pd.infn.it_ESComputingElement</ID>
  <OtherInfo>ServiceType=org.ogf.emies</OtherInfo>
  <OtherInfo>InfoProviderName=glite-ce-glue2-share-static</OtherInfo>
  <OtherInfo>InfoProviderVersion=1.1</OtherInfo>
  <OtherInfo>InfoProviderHost=cream-47.pd.infn.it</OtherInfo>
  <Description>Share of creamcert1 for dteam</Description>
  <MappingPolicy xsi:type="MappingPolicy_t" CreationTime="2012-10-18T14:36:42.000+02:00">
    <ID>creamcert1_dteam_cream-47.pd.infn.it_ESComputingElement_policy</ID>
    <Scheme>org.glite.standard</Scheme>
    <Rule>VO:dteam</Rule>
  </MappingPolicy>
  <MappingQueue>creamcert1</MappingQueue>
  <MaxWallTime>999999999</MaxWallTime>
  <DefaultWallTime>999999999</DefaultWallTime>
  <MaxCPUTime>999999999</MaxCPUTime>
  <DefaultCPUTime>999999999</DefaultCPUTime>
  <MaxRunningJobs>216</MaxRunningJobs>
  <ServingState>production</ServingState>
  <TotalJobs>0</TotalJobs>
  <RunningJobs>0</RunningJobs>
  <WaitingJobs>0</WaitingJobs>
  <EstimatedAverageWaitingTime>2146660842</EstimatedAverageWaitingTime>
  <EstimatedWorstWaitingTime>2146660842</EstimatedWorstWaitingTime>
  <FreeSlots>0</FreeSlots>
</ComputingShare>
<ComputingShare xsi:type="ComputingShare_t" CreationTime="2012-10-18T14:37:23.000+02:00">
  <ID>creamcert2_dteam_cream-47.pd.infn.it_ESComputingElement</ID>
  <OtherInfo>ServiceType=org.ogf.emies</OtherInfo>
  <OtherInfo>InfoProviderName=glite-ce-glue2-share-static</OtherInfo>
  <OtherInfo>InfoProviderVersion=1.1</OtherInfo>
  <OtherInfo>InfoProviderHost=cream-47.pd.infn.it</OtherInfo>
  <Description>Share of creamcert2 for dteam</Description>
  <MappingPolicy xsi:type="MappingPolicy_t" CreationTime="2012-10-18T14:36:42.000+02:00">
    <ID>creamcert2_dteam_cream-47.pd.infn.it_ESComputingElement_policy</ID>
    <Scheme>org.glite.standard</Scheme>
    <Rule>VO:dteam</Rule>
  </MappingPolicy>
  <MappingQueue>creamcert2</MappingQueue>
  <MaxWallTime>999999999</MaxWallTime>
  <DefaultWallTime>999999999</DefaultWallTime>
  <MaxCPUTime>999999999</MaxCPUTime>
  <DefaultCPUTime>999999999</DefaultCPUTime>
  <MaxRunningJobs>216</MaxRunningJobs>
  <ServingState>production</ServingState>
  <TotalJobs>0</TotalJobs>
  <RunningJobs>0</RunningJobs>
  <WaitingJobs>0</WaitingJobs>
  <EstimatedAverageWaitingTime>2146660842</EstimatedAverageWaitingTime>
```

EmiExecutionService < EMI < TWiki

```
<EstimatedWorstWaitingTime>2146660842</EstimatedWorstWaitingTime>
<FreeSlots>0</FreeSlots>
</ComputingShare>
<ComputingShare xsi:type="ComputingShare_t" CreationTime="2012-10-18T14:37:23.000+02:00">
  <ID>creamcert1_infnggrid_cream-47.pd.infn.it_ESComputingElement</ID>
  <OtherInfo>ServiceType=org.ogf.emies</OtherInfo>
  <OtherInfo>InfoProviderName=glite-ce-glue2-share-static</OtherInfo>
  <OtherInfo>InfoProviderVersion=1.1</OtherInfo>
  <OtherInfo>InfoProviderHost=cream-47.pd.infn.it</OtherInfo>
  <Description>Share of creamcert1 for infnggrid</Description>
  <MappingPolicy xsi:type="MappingPolicy_t" CreationTime="2012-10-18T14:36:42.000+02:00">
    <ID>creamcert1_infnggrid_cream-47.pd.infn.it_ESComputingElement_policy</ID>
    <Scheme>org.glite.standard</Scheme>
    <Rule>VO:infnggrid</Rule>
  </MappingPolicy>
  <MappingQueue>creamcert1</MappingQueue>
  <MaxWallTime>999999999</MaxWallTime>
  <DefaultWallTime>999999999</DefaultWallTime>
  <MaxCPUTime>999999999</MaxCPUTime>
  <DefaultCPUTime>999999999</DefaultCPUTime>
  <MaxRunningJobs>216</MaxRunningJobs>
  <ServingState>production</ServingState>
  <TotalJobs>0</TotalJobs>
  <RunningJobs>0</RunningJobs>
  <WaitingJobs>0</WaitingJobs>
  <EstimatedAverageWaitingTime>2146660842</EstimatedAverageWaitingTime>
  <EstimatedWorstWaitingTime>2146660842</EstimatedWorstWaitingTime>
  <FreeSlots>0</FreeSlots>
</ComputingShare>
<ComputingShare xsi:type="ComputingShare_t" CreationTime="2012-10-18T14:37:23.000+02:00">
  <ID>creamcert2_infnggrid_cream-47.pd.infn.it_ESComputingElement</ID>
  <OtherInfo>ServiceType=org.ogf.emies</OtherInfo>
  <OtherInfo>InfoProviderName=glite-ce-glue2-share-static</OtherInfo>
  <OtherInfo>InfoProviderVersion=1.1</OtherInfo>
  <OtherInfo>InfoProviderHost=cream-47.pd.infn.it</OtherInfo>
  <Description>Share of creamcert2 for infnggrid</Description>
  <MappingPolicy xsi:type="MappingPolicy_t" CreationTime="2012-10-18T14:36:42.000+02:00">
    <ID>creamcert2_infnggrid_cream-47.pd.infn.it_ESComputingElement_policy</ID>
    <Scheme>org.glite.standard</Scheme>
    <Rule>VO:infnggrid</Rule>
  </MappingPolicy>
  <MappingQueue>creamcert2</MappingQueue>
  <MaxWallTime>999999999</MaxWallTime>
  <DefaultWallTime>999999999</DefaultWallTime>
  <MaxCPUTime>999999999</MaxCPUTime>
  <DefaultCPUTime>999999999</DefaultCPUTime>
  <MaxRunningJobs>216</MaxRunningJobs>
  <ServingState>production</ServingState>
  <TotalJobs>0</TotalJobs>
  <RunningJobs>0</RunningJobs>
  <WaitingJobs>0</WaitingJobs>
  <EstimatedAverageWaitingTime>2146660842</EstimatedAverageWaitingTime>
  <EstimatedWorstWaitingTime>2146660842</EstimatedWorstWaitingTime>
  <FreeSlots>0</FreeSlots>
</ComputingShare>
<ComputingShare xsi:type="ComputingShare_t" CreationTime="2012-10-18T14:37:23.000+02:00">
  <ID>cert_testers.eu-emi.eu_cream-47.pd.infn.it_ESComputingElement</ID>
  <OtherInfo>ServiceType=org.ogf.emies</OtherInfo>
  <OtherInfo>InfoProviderName=glite-ce-glue2-share-static</OtherInfo>
  <OtherInfo>InfoProviderVersion=1.1</OtherInfo>
  <OtherInfo>InfoProviderHost=cream-47.pd.infn.it</OtherInfo>
  <Description>Share of cert for testers.eu-emi.eu</Description>
  <MappingPolicy xsi:type="MappingPolicy_t" CreationTime="2012-10-18T14:36:42.000+02:00">
    <ID>cert_testers.eu-emi.eu_cream-47.pd.infn.it_ESComputingElement_policy</ID>
    <Scheme>org.glite.standard</Scheme>
    <Rule>VO:testers.eu-emi.eu</Rule>
  </MappingPolicy>
```


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```
<MappingQueue>cert</MappingQueue>
<MaxWallTime>999999999</MaxWallTime>
<DefaultWallTime>999999999</DefaultWallTime>
<MaxCPUTime>999999999</MaxCPUTime>
<DefaultCPUTime>999999999</DefaultCPUTime>
<MaxRunningJobs>216</MaxRunningJobs>
<ServingState>production</ServingState>
<TotalJobs>0</TotalJobs>
<RunningJobs>0</RunningJobs>
<WaitingJobs>0</WaitingJobs>
<EstimatedAverageWaitingTime>2146660842</EstimatedAverageWaitingTime>
<EstimatedWorstWaitingTime>2146660842</EstimatedWorstWaitingTime>
<FreeSlots>0</FreeSlots>
</ComputingShare>
<ComputingShare xsi:type="ComputingShare_t" CreationTime="2012-10-18T14:37:23.000+02:00">
  <ID>creamcert1_testers.eu-emi.eu_cream-47.pd.infn.it_ESComputingElement</ID>
  <OtherInfo>ServiceType=org.ogf.emies</OtherInfo>
  <OtherInfo>InfoProviderName=glite-ce-glue2-share-static</OtherInfo>
  <OtherInfo>InfoProviderVersion=1.1</OtherInfo>
  <OtherInfo>InfoProviderHost=cream-47.pd.infn.it</OtherInfo>
  <Description>Share of creamcert1 for testers.eu-emi.eu</Description>
  <MappingPolicy xsi:type="MappingPolicy_t" CreationTime="2012-10-18T14:36:42.000+02:00">
    <ID>creamcert1_testers.eu-emi.eu_cream-47.pd.infn.it_ESComputingElement_policy</ID>
    <Scheme>org.glite.standard</Scheme>
    <Rule>VO:testers.eu-emi.eu</Rule>
  </MappingPolicy>
  <MappingQueue>creamcert1</MappingQueue>
  <MaxWallTime>999999999</MaxWallTime>
  <DefaultWallTime>999999999</DefaultWallTime>
  <MaxCPUTime>999999999</MaxCPUTime>
  <DefaultCPUTime>999999999</DefaultCPUTime>
  <MaxRunningJobs>216</MaxRunningJobs>
  <ServingState>production</ServingState>
  <TotalJobs>0</TotalJobs>
  <RunningJobs>0</RunningJobs>
  <WaitingJobs>0</WaitingJobs>
  <EstimatedAverageWaitingTime>2146660842</EstimatedAverageWaitingTime>
  <EstimatedWorstWaitingTime>2146660842</EstimatedWorstWaitingTime>
  <FreeSlots>0</FreeSlots>
</ComputingShare>
<ComputingShare xsi:type="ComputingShare_t" CreationTime="2012-10-18T14:37:23.000+02:00">
  <ID>creamcert2_testers.eu-emi.eu_cream-47.pd.infn.it_ESComputingElement</ID>
  <OtherInfo>ServiceType=org.ogf.emies</OtherInfo>
  <OtherInfo>InfoProviderName=glite-ce-glue2-share-static</OtherInfo>
  <OtherInfo>InfoProviderVersion=1.1</OtherInfo>
  <OtherInfo>InfoProviderHost=cream-47.pd.infn.it</OtherInfo>
  <Description>Share of creamcert2 for testers.eu-emi.eu</Description>
  <MappingPolicy xsi:type="MappingPolicy_t" CreationTime="2012-10-18T14:36:42.000+02:00">
    <ID>creamcert2_testers.eu-emi.eu_cream-47.pd.infn.it_ESComputingElement_policy</ID>
    <Scheme>org.glite.standard</Scheme>
    <Rule>VO:testers.eu-emi.eu</Rule>
  </MappingPolicy>
  <MappingQueue>creamcert2</MappingQueue>
  <MaxWallTime>999999999</MaxWallTime>
  <DefaultWallTime>999999999</DefaultWallTime>
  <MaxCPUTime>999999999</MaxCPUTime>
  <DefaultCPUTime>999999999</DefaultCPUTime>
  <MaxRunningJobs>216</MaxRunningJobs>
  <ServingState>production</ServingState>
  <TotalJobs>0</TotalJobs>
  <RunningJobs>0</RunningJobs>
  <WaitingJobs>0</WaitingJobs>
  <EstimatedAverageWaitingTime>2146660842</EstimatedAverageWaitingTime>
  <EstimatedWorstWaitingTime>2146660842</EstimatedWorstWaitingTime>
  <FreeSlots>0</FreeSlots>
</ComputingShare>
<ComputingManager xsi:type="ComputingManager_t" CreationTime="2012-10-18T14:37:23.000+02:00">
```

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```
<ID>cream-47.pd.infn.it_ESComputingElement_Manager</ID>
<Name>Computing Manager on cream-47.pd.infn.it</Name>
<OtherInfo>InfoProviderName=glite-ce-glue2-manager-static</OtherInfo>
<OtherInfo>InfoProviderVersion=1.1</OtherInfo>
<OtherInfo>InfoProviderHost=cream-47.pd.infn.it</OtherInfo>
<OtherInfo>CPUScalingReferenceSI00=10</OtherInfo>
<ProductName>lsf</ProductName>
<ProductVersion>7 Update 6</ProductVersion>
<Benchmark xsi:type="Benchmark_t" CreationTime="2012-10-18T14:36:42.000+02:00">
  <ID>cream-.pd.infn.it_hep-spec06</ID>
  <Name>Benchmark hep-spec06</Name>
  <OtherInfo>InfoProviderName=glite-ce-glue2-benchmark-static</OtherInfo>
  <OtherInfo>InfoProviderVersion=1.1</OtherInfo>
  <OtherInfo>InfoProviderHost=cream-47.pd.infn.it</OtherInfo>
  <Type>hep-spec06</Type>
  <Value>100.0</Value>
</Benchmark>
<Benchmark xsi:type="Benchmark_t" CreationTime="2012-10-18T14:36:42.000+02:00">
  <ID>cream-.pd.infn.it_specfp2000</ID>
  <Name>Benchmark specfp2000</Name>
  <OtherInfo>InfoProviderName=glite-ce-glue2-benchmark-static</OtherInfo>
  <OtherInfo>InfoProviderVersion=1.1</OtherInfo>
  <OtherInfo>InfoProviderHost=cream-47.pd.infn.it</OtherInfo>
  <Type>specfp2000</Type>
  <Value>1496.0</Value>
</Benchmark>
<Benchmark xsi:type="Benchmark_t" CreationTime="2012-10-18T14:36:42.000+02:00">
  <ID>cream-.pd.infn.it_specint2000</ID>
  <Name>Benchmark specint2000</Name>
  <OtherInfo>InfoProviderName=glite-ce-glue2-benchmark-static</OtherInfo>
  <OtherInfo>InfoProviderVersion=1.1</OtherInfo>
  <OtherInfo>InfoProviderHost=cream-47.pd.infn.it</OtherInfo>
  <Type>specint2000</Type>
  <Value>1286.0</Value>
</Benchmark>
<ApplicationEnvironments>
  <ApplicationEnvironment xsi:type="ApplicationEnvironment_t" CreationTime="2012-10-18T14:36:42.000+02:00">
    <ID>MPICH_cream-.pd.infn.it</ID>
    <OtherInfo>InfoProviderName=glite-ce-glue2-applicationenvironment-dynamic</OtherInfo>
    <OtherInfo>InfoProviderVersion=1.1</OtherInfo>
    <OtherInfo>InfoProviderHost=cream-47.pd.infn.it</OtherInfo>
    <AppName>MPICH</AppName>
  </ApplicationEnvironment>
  <ApplicationEnvironment xsi:type="ApplicationEnvironment_t" CreationTime="2012-10-18T14:36:42.000+02:00">
    <ID>LCG-2_cream-.pd.infn.it</ID>
    <OtherInfo>InfoProviderName=glite-ce-glue2-applicationenvironment-dynamic</OtherInfo>
    <OtherInfo>InfoProviderVersion=1.1</OtherInfo>
    <OtherInfo>InfoProviderHost=cream-47.pd.infn.it</OtherInfo>
    <AppName>LCG-2</AppName>
  </ApplicationEnvironment>
  <ApplicationEnvironment xsi:type="ApplicationEnvironment_t" CreationTime="2012-10-18T14:36:42.000+02:00">
    <ID>R-GMA_cream-.pd.infn.it</ID>
    <OtherInfo>InfoProviderName=glite-ce-glue2-applicationenvironment-dynamic</OtherInfo>
    <OtherInfo>InfoProviderVersion=1.1</OtherInfo>
    <OtherInfo>InfoProviderHost=cream-47.pd.infn.it</OtherInfo>
    <AppName>R-GMA</AppName>
  </ApplicationEnvironment>
  <ApplicationEnvironment xsi:type="ApplicationEnvironment_t" CreationTime="2012-10-18T14:36:42.000+02:00">
    <ID>PADOVA_cream-.pd.infn.it</ID>
    <OtherInfo>InfoProviderName=glite-ce-glue2-applicationenvironment-dynamic</OtherInfo>
    <OtherInfo>InfoProviderVersion=1.1</OtherInfo>
    <OtherInfo>InfoProviderHost=cream-47.pd.infn.it</OtherInfo>
    <AppName>PADOVA</AppName>
  </ApplicationEnvironment>
  <ApplicationEnvironment xsi:type="ApplicationEnvironment_t" CreationTime="2012-10-18T14:36:42.000+02:00">
    <ID>LCG-2_5_0_cream-.pd.infn.it</ID>
    <OtherInfo>InfoProviderName=glite-ce-glue2-applicationenvironment-dynamic</OtherInfo>
```


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```
<ApplicationEnvironment xsi:type="ApplicationEnvironment_t" CreationTime="2012-10-18T14
  <ID>GLITE-3_1_0_cream-.pd.infn.it</ID>
  <OtherInfo>InfoProviderName=glite-ce-glue2-applicationenvironment-dynamic</OtherInfo>
  <OtherInfo>InfoProviderVersion=1.1</OtherInfo>
  <OtherInfo>InfoProviderHost=cream-47.pd.infn.it</OtherInfo>
  <AppName>GLITE-3_1_0</AppName>
</ApplicationEnvironment>
<ApplicationEnvironment xsi:type="ApplicationEnvironment_t" CreationTime="2012-10-18T14
  <ID>SI00MeanPerCPU_870_cream-.pd.infn.it</ID>
  <OtherInfo>InfoProviderName=glite-ce-glue2-applicationenvironment-dynamic</OtherInfo>
  <OtherInfo>InfoProviderVersion=1.1</OtherInfo>
  <OtherInfo>InfoProviderHost=cream-47.pd.infn.it</OtherInfo>
  <AppName>SI00MeanPerCPU_870</AppName>
</ApplicationEnvironment>
<ApplicationEnvironment xsi:type="ApplicationEnvironment_t" CreationTime="2012-10-18T14
  <ID>MPI_HOME_NOTSHARED_cream-.pd.infn.it</ID>
  <OtherInfo>InfoProviderName=glite-ce-glue2-applicationenvironment-dynamic</OtherInfo>
  <OtherInfo>InfoProviderVersion=1.1</OtherInfo>
  <OtherInfo>InfoProviderHost=cream-47.pd.infn.it</OtherInfo>
  <AppName>MPI_HOME_NOTSHARED</AppName>
</ApplicationEnvironment>
<ApplicationEnvironment xsi:type="ApplicationEnvironment_t" CreationTime="2012-10-18T14
  <ID>SF00MeanPerCPU_790_cream-.pd.infn.it</ID>
  <OtherInfo>InfoProviderName=glite-ce-glue2-applicationenvironment-dynamic</OtherInfo>
  <OtherInfo>InfoProviderVersion=1.1</OtherInfo>
  <OtherInfo>InfoProviderHost=cream-47.pd.infn.it</OtherInfo>
  <AppName>SF00MeanPerCPU_790</AppName>
</ApplicationEnvironment>
</ApplicationEnvironments>
</ComputingManager>
<ToStorageService xsi:type="ToStorageService_t" CreationTime="2012-10-18T14:36:42.000+02:00
  <ID>cream-47.pd.infn.it_ESComputingElement_prod-se-01.pd.infn.it</ID>
  <Name>cream-47.pd.infn.it_ESComputingElement_prod-se-01.pd.infn.it</Name>
  <OtherInfo>InfoProviderName=glite-ce-glue2-tostorageservice-static</OtherInfo>
  <OtherInfo>InfoProviderVersion=1.1</OtherInfo>
  <OtherInfo>InfoProviderHost=cream-47.pd.infn.it</OtherInfo>
  <LocalPath>none</LocalPath>
  <RemotePath>none</RemotePath>
  <Associations>
    <StorageServiceID>prod-se-01.pd.infn.it</StorageServiceID>
  </Associations>
</ToStorageService>
</ComputingService>
</Services>
</GetResourceInfoResponse>
```

UNICORE

More... Close

```
<typ:GetResourceInfoResponse xmlns:typ="http://www.eu-emi.eu/es/2010/12/resourceinfo/types" xmlns
  <typ:Services>
    <spec:ComputingService xmlns:spec="http://schemas.ogf.org/glue/2009/03/spec_2.0_r1">
      <spec:ID>urn:unicore:emi-es:https://localhost:65321/services</spec:ID>
      <spec:Capability>executionmanagement.jobmanagement</spec:Capability>
      <spec:Capability>data.transfer.cepush.ftp</spec:Capability>
      <spec:Capability>information.query.xpath1</spec:Capability>
      <spec:Capability>security.delegation</spec:Capability>
      <spec:Capability>information.lookup.job</spec:Capability>
      <spec:Capability>executionmanagement.jobdescription</spec:Capability>
      <spec:Capability>data.transfer.cepush.http</spec:Capability>
      <spec:Capability>data.access.stageoutdir.gsiftp</spec:Capability>
      <spec:Capability>data.access.stageindir.gsiftp</spec:Capability>
      <spec:Capability>data.transfer.cepull.http</spec:Capability>
      <spec:Capability>information.discovery.job</spec:Capability>
      <spec:Capability>executionmanagement.jobcreation</spec:Capability>
      <spec:Capability>data.access.sessiondir.gsiftp</spec:Capability>
```

EmiExecutionService < EMI < TWiki

```
<spec:Capability>data.transfer.cepull.gsiftp</spec:Capability>
<spec:Capability>data.transfer.cepush.gsiftp</spec:Capability>
<spec:Capability>information.discovery.resource</spec:Capability>
<spec:Capability>data.transfer.cepush.mailto</spec:Capability>
<spec:Capability>data.transfer.cepull.ftp</spec:Capability>
<spec:Type>emi-es</spec:Type>
<spec:QualityLevel>development</spec:QualityLevel>
<spec:ComputingEndpoint>
  <spec:ID>urn:unicore:emi-es:https://localhost:65321/services:delegation</spec:ID>
  <spec:URL>https://localhost:65321/services/services/DelegationService</spec:URL>
  <spec:Capability>security.delegation</spec:Capability>
  <spec:InterfaceName>org.ogf.glue.emies.delegation</spec:InterfaceName>
  <spec:InterfaceVersion>1.15</spec:InterfaceVersion>
  <spec:QualityLevel>development</spec:QualityLevel>
  <spec:HealthState>ok</spec:HealthState>
  <spec:ervingState>production</spec:ervingState>
</spec:ComputingEndpoint>
<spec:ComputingEndpoint>
  <spec:ID>urn:unicore:emi-es:https://localhost:65321/services:activitycreation</spec:ID>
  <spec:URL>https://localhost:65321/services/services/CreateActivityService</spec:URL>
  <spec:Capability>executionmanagement.jobcreation</spec:Capability>
  <spec:Capability>executionmanagement.jobdescription</spec:Capability>
  <spec:Capability>data.access.sessiondir.gsiftp</spec:Capability>
  <spec:Capability>data.access.stageindir.gsiftp</spec:Capability>
  <spec:Capability>data.access.stageoutdir.gsiftp</spec:Capability>
  <spec:Capability>data.transfer.cepull.gsiftp</spec:Capability>
  <spec:Capability>data.transfer.cepull.http</spec:Capability>
  <spec:Capability>data.transfer.cepull.ftp</spec:Capability>
  <spec:Capability>data.transfer.cepush.gsiftp</spec:Capability>
  <spec:Capability>data.transfer.cepush.mailto</spec:Capability>
  <spec:Capability>data.transfer.cepush.http</spec:Capability>
  <spec:Capability>data.transfer.cepush.ftp</spec:Capability>
  <spec:InterfaceName>org.ogf.glue.emies.activitycreation</spec:InterfaceName>
  <spec:InterfaceVersion>1.15</spec:InterfaceVersion>
  <spec:QualityLevel>development</spec:QualityLevel>
  <spec:HealthState>ok</spec:HealthState>
  <spec:ervingState>production</spec:ervingState>
</spec:ComputingEndpoint>
<spec:ComputingEndpoint>
  <spec:ID>urn:unicore:emi-es:https://localhost:65321/services:activitymanagement</spec:ID>
  <spec:URL>https://localhost:65321/services/services/ActivityManagementService</spec:URL>
  <spec:Capability>executionmanagement.jobmanagement</spec:Capability>
  <spec:Capability>information.lookup.job</spec:Capability>
  <spec:Capability>data.access.sessiondir.gsiftp</spec:Capability>
  <spec:Capability>data.access.stageindir.gsiftp</spec:Capability>
  <spec:Capability>data.access.stageoutdir.gsiftp</spec:Capability>
  <spec:Capability>data.transfer.cepull.gsiftp</spec:Capability>
  <spec:Capability>data.transfer.cepull.http</spec:Capability>
  <spec:Capability>data.transfer.cepull.ftp</spec:Capability>
  <spec:Capability>data.transfer.cepush.gsiftp</spec:Capability>
  <spec:Capability>data.transfer.cepush.mailto</spec:Capability>
  <spec:Capability>data.transfer.cepush.http</spec:Capability>
  <spec:Capability>data.transfer.cepush.ftp</spec:Capability>
  <spec:InterfaceName>org.ogf.glue.emies.activitymanagement</spec:InterfaceName>
  <spec:InterfaceVersion>1.15</spec:InterfaceVersion>
  <spec:QualityLevel>development</spec:QualityLevel>
  <spec:HealthState>ok</spec:HealthState>
  <spec:ervingState>production</spec:ervingState>
</spec:ComputingEndpoint>
<spec:ComputingEndpoint>
  <spec:ID>urn:unicore:emi-es:https://localhost:65321/services:resourceinfo</spec:ID>
  <spec:URL>https://localhost:65321/services/services/ResourceInfoService</spec:URL>
  <spec:Capability>information.discovery.resource</spec:Capability>
  <spec:Capability>information.query.xpath1</spec:Capability>
  <spec:InterfaceName>org.ogf.glue.emies.resourceinfo</spec:InterfaceName>
  <spec:InterfaceVersion>1.15</spec:InterfaceVersion>
  <spec:QualityLevel>development</spec:QualityLevel>
```

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```
<spec:HealthState>ok</spec:HealthState>
<spec:ervingState>production</spec:ervingState>
</spec:ComputingEndpoint>
<spec:ComputingEndpoint>
  <spec:ID>urn:unicore:emi-es:https://localhost:65321/services:activityinfo</spec:ID>
  <spec:URL>https://localhost:65321/services/services/ActivityInfoService</spec:URL>
  <spec:Capability>information.discovery.job</spec:Capability>
  <spec:Capability>information.lookup.job</spec:Capability>
  <spec:InterfaceName>org.ogf.glue.emies.activityinfo</spec:InterfaceName>
  <spec:InterfaceVersion>1.15</spec:InterfaceVersion>
  <spec:QualityLevel>development</spec:QualityLevel>
  <spec:HealthState>ok</spec:HealthState>
  <spec:ervingState>production</spec:ervingState>
</spec:ComputingEndpoint>
</spec:ComputingService>
</typ:Services>
</typ:GetResourceInfoResponse>
```

EMI-ES.xpath1

ARC

Not implemented yet.

More... Close

Your XML code here!

CREAM (two examples)

1) xpath 1 query: //ComputingEndpoint/InterfaceName

More... Close

```
<QueryResourceInfoResponse xmlns="http://www.eu-emi.eu/es/2010/12/resourceinfo/types">
  <QueryResourceInfoItem>
    <InterfaceName xmlns="">org.ogf.glue.emies.delegation</InterfaceName>
  </QueryResourceInfoItem>
  <QueryResourceInfoItem>
    <InterfaceName xmlns="">org.ogf.glue.emies.activityinfo</InterfaceName>
  </QueryResourceInfoItem>
  <QueryResourceInfoItem>
    <InterfaceName xmlns="">org.ogf.glue.emies.resourceinfo</InterfaceName>
  </QueryResourceInfoItem>
  <QueryResourceInfoItem>
    <InterfaceName xmlns="">org.ogf.glue.emies.activitycreation</InterfaceName>
  </QueryResourceInfoItem>
  <QueryResourceInfoItem>
    <InterfaceName xmlns="">org.ogf.glue.emies.activitymanagement</InterfaceName>
  </QueryResourceInfoItem>
</QueryResourceInfoResponse>
```

2) xpath query: /ComputingService/ComputingEndpoint/ID

More... Close

```
<QueryResourceInfoResponse xmlns="http://www.eu-emi.eu/es/2010/12/resourceinfo/types">
  <QueryResourceInfoItem>
    <ID xmlns="">cream-47.pd.infn.it_org.ogf.glue.emies.delegation</ID>
  </QueryResourceInfoItem>
  <QueryResourceInfoItem>
    <ID xmlns="">cream-47.pd.infn.it_org.ogf.glue.emies.activityinfo</ID>
  </QueryResourceInfoItem>
</QueryResourceInfoResponse>
```

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```
<QueryResourceInfoItem>
  <ID xmlns="">cream-47.pd.infn.it_org.ogf.glue.emies.resourceinfo</ID>
</QueryResourceInfoItem>
<QueryResourceInfoItem>
  <ID xmlns="">cream-47.pd.infn.it_org.ogf.glue.emies.activitycreation</ID>
</QueryResourceInfoItem>
<QueryResourceInfoItem>
  <ID xmlns="">cream-47.pd.infn.it_org.ogf.glue.emies.activitymanagement</ID>
</QueryResourceInfoItem>
</QueryResourceInfoResponse>
```

UNICORE Here are two examples

* query (using namespace declaration which is system specific): declare namespace
spec='http://schemas.ogf.org/glue/2009/03/spec_2.0_r1'; //spec:ID

More... Close

```
<typ:QueryResourceInfoResponse xmlns:typ="http://www.eu-emi.eu/es/2010/12/resourceinfo/types" xml
  <typ:QueryResourceInfoItem>urn:unicore:emi-es:https://localhost:65321/services</typ:QueryResour
  <typ:QueryResourceInfoItem>urn:unicore:emi-es:https://localhost:65321/services:delegation</typ:
  <typ:QueryResourceInfoItem>urn:unicore:emi-es:https://localhost:65321/services:activitycreation
  <typ:QueryResourceInfoItem>urn:unicore:emi-es:https://localhost:65321/services:activitymanagem
  <typ:QueryResourceInfoItem>urn:unicore:emi-es:https://localhost:65321/services:resourceinfo</ty
  <typ:QueryResourceInfoItem>urn:unicore:emi-es:https://localhost:65321/services:activityinfo</ty
</typ:QueryResourceInfoResponse>
```

* query (without namespaces, being more portable): //*[local-name()='ID']

More... Close

```
<typ:QueryResourceInfoResponse xmlns:typ="http://www.eu-emi.eu/es/2010/12/resourceinfo/types" xml
  <typ:QueryResourceInfoItem>urn:unicore:emi-es:https://localhost:65321/services</typ:QueryResour
  <typ:QueryResourceInfoItem>urn:unicore:emi-es:https://localhost:65321/services:delegation</typ:
  <typ:QueryResourceInfoItem>urn:unicore:emi-es:https://localhost:65321/services:activitycreation
  <typ:QueryResourceInfoItem>urn:unicore:emi-es:https://localhost:65321/services:activitymanagem
  <typ:QueryResourceInfoItem>urn:unicore:emi-es:https://localhost:65321/services:resourceinfo</ty
  <typ:QueryResourceInfoItem>urn:unicore:emi-es:https://localhost:65321/services:activityinfo</ty
</typ:QueryResourceInfoResponse>
```

EMI-ES

ARC

More... Close

```
<esainfo:GetActivityStatusResponse xmlns:esainfo="http://www.eu-emi.eu/es/2010/12/activity/types"
  <esainfo:ActivityStatusItem>
    <estypes:ActivityID>X91MDmGX0hgnOSAtDmABFKDmABFKDmABFKDmUiGKDmABFKDmVnfvbm</estypes:ActivityI
    <estypes:ActivityStatus>
      <estypes:Status>terminal</estypes:Status>
      <estypes:Attribute>client-stageout-possible</estypes:Attribute>
      <estypes:Timestamp>2012-10-15 17:09:37</estypes:Timestamp>
    </estypes:ActivityStatus>
  </esainfo:ActivityStatusItem>
</esainfo:GetActivityStatusResponse>
```

CREAM

More... Close

```
<GetActivityStatusResponse xmlns="http://www.eu-emi.eu/es/2010/12/activity/types">
  <ActivityStatusItem>
    <s3:ActivityID xmlns:s3="http://www.eu-emi.eu/es/2010/12/types">CR_ES041037324</s3:ActivityID>
    <ActivityStatus xmlns="http://www.eu-emi.eu/es/2010/12/types">
      <Status>terminal</Status>
      <Attribute>processing-cancel</Attribute>
      <Timestamp>2012-10-11T17:22:37.000+02:00</Timestamp>
      <Description>cancelled by the user</Description>
    </ActivityStatus>
  </ActivityStatusItem>
  <ActivityStatusItem>
    <s4:ActivityID xmlns:s4="http://www.eu-emi.eu/es/2010/12/types">blahblah</s4:ActivityID>
    <ActivityNotFoundFault xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xsi:type="Activi
      <s5:Message xmlns:s5="http://www.eu-emi.eu/es/2010/12/types">Activity not found!</s5:Message>
      <s6:Timestamp xmlns:s6="http://www.eu-emi.eu/es/2010/12/types">2012-10-18T13:18:48.946+02:0
    </ActivityNotFoundFault>
  </ActivityStatusItem>
</GetActivityStatusResponse>
```

UNICORE**More... Close**

```
<typ:GetActivityStatusResponse xmlns:typ="http://www.eu-emi.eu/es/2010/12/activity/types" xmlns:x
  <typ:ActivityStatusItem>
    <typ1:ActivityID xmlns:typ1="http://www.eu-emi.eu/es/2010/12/types">801c5774-0076-4ac5-b21a-a
    <typ1:ActivityStatus xmlns:typ1="http://www.eu-emi.eu/es/2010/12/types">
      <typ1:Status>accepted</typ1:Status>
      <typ1:Attribute>validating</typ1:Attribute>
      <typ1:Attribute>client-stagein-possible</typ1:Attribute>
      <typ1:Attribute>client-stageout-possible</typ1:Attribute>
      <typ1:Timestamp>2012-10-18T21:19:50.321+02:00</typ1:Timestamp>
    </typ1:ActivityStatus>
  </typ:ActivityStatusItem>
</typ:GetActivityStatusResponse>
```

EMI-ES. fulldocument**ARC****More... Close**

```
<esainfo:GetActivityInfoResponse xmlns:esainfo="http://www.eu-emi.eu/es/2010/12/activity/types" x
  <esainfo:ActivityInfoItem>
    <estypes:ActivityID>X91MDmGX0hgnOSAtDmABFKDmABFKDmABFKDmUiGKDmABFKDmVNfVbm</estypes:ActivityID>
    <esainfo:ActivityInfoDocument xmlns:glue2pre="http://schemas.ogf.org/glue/2008/05/spec_2.0_d4
      <glue2pre:ID>urn:ogf:ComputingActivity:mobile2.vdnet.lt:X91MDmGX0hgnOSAtDmABFKDmABFKDmABFKD
      <glue2pre:Type>single</glue2pre:Type>
      <glue2pre:IDFromEndpoint>X91MDmGX0hgnOSAtDmABFKDmABFKDmABFKDmUiGKDmABFKDmVNfVbm</glue2pre:I
      <glue2pre:JobDescription>ogf:jsdl:1.0</glue2pre:JobDescription>
      <glue2pre:State>nordugrid:FINISHED</glue2pre:State>
      <glue2pre:State>bes:Finished</glue2pre:State>
      <glue2pre:State>emies:terminal</glue2pre:State>
      <glue2pre:State>emiesattr:client-stageout-possible</glue2pre:State>
      <glue2pre:ExitCode>0</glue2pre:ExitCode>
      <glue2pre:Owner>/O=Grid/O=NorduGrid/OU=uiu.no/CN=Aleksandr Konstantinov</glue2pre:Owner>
      <glue2pre:LocalOwner>sanjak</glue2pre:LocalOwner>
      <glue2pre:RequestedSlots>1</glue2pre:RequestedSlots>
      <glue2pre:StdIn>/dev/null</glue2pre:StdIn>
      <glue2pre:StdOut>out.txt</glue2pre:StdOut>
      <glue2pre:StdErr>err.txt</glue2pre:StdErr>
      <glue2pre:LogDir>gmlog</glue2pre:LogDir>
```


EmiExecutionService < EMI < TWiki

```
<glue2pre:ExecutionNode>mobile2.vdnet.lt</glue2pre:ExecutionNode>
<glue2pre:Queue>fork</glue2pre:Queue>
<glue2pre:UsedTotalWallTime>0</glue2pre:UsedTotalWallTime>
<glue2pre:UsedTotalCPUTime>0</glue2pre:UsedTotalCPUTime>
<glue2pre:UsedMainMemory>0</glue2pre:UsedMainMemory>
<glue2pre:SubmissionTime>2012-10-15T14:09:18Z</glue2pre:SubmissionTime>
<glue2pre:EndTime>2012-10-15T14:09:37Z</glue2pre:EndTime>
<glue2pre:WorkingAreaEraseTime>2012-10-15T15:09:37Z</glue2pre:WorkingAreaEraseTime>
<glue2pre:ProxyExpirationTime>2012-10-16T01:51:55Z</glue2pre:ProxyExpirationTime>
<glue2pre:SubmissionHost>127.0.0.1</glue2pre:SubmissionHost>
<glue2pre:Associations>
  <glue2pre:ComputingShareID>urn:ogf:ComputingShare:mobile2.vdnet.lt:fork</glue2pre:ComputingShareID>
</glue2pre:Associations>
<esainfo:StageInDirectory>https://mobile2.vdnet.lt:60000/arex/X91MDmGX0hgnOSAtDmABFKDmABFKD
<esainfo:StageOutDirectory>https://mobile2.vdnet.lt:60000/arex/X91MDmGX0hgnOSAtDmABFKDmABFKD
<esainfo:SessionDirectory>https://mobile2.vdnet.lt:60000/arex/X91MDmGX0hgnOSAtDmABFKDmABFKD
</esainfo:ActivityInfoDocument>
</esainfo:ActivityInfoItem>
</esainfo:GetActivityInfoResponse>
```

CREAM

More... Close

```
<GetActivityInfoResponse xmlns="http://www.eu-emi.eu/es/2010/12/activity/types">
  <ActivityInfoItem>
    <s2:ActivityID xmlns:s2="http://www.eu-emi.eu/es/2010/12/types">CR_ES041037324</s2:ActivityID>
    <ActivityInfoDocument xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xsi:type="ActivityInfoDocument">
      <s3:ID xmlns:s3="http://schemas.ogf.org/glue/2009/03/spec_2.0_r1">CR_ES041037324</s3:ID>
      <s4:Name xmlns:s4="http://schemas.ogf.org/glue/2009/03/spec_2.0_r1">LISA</s4:Name>
      <Type xmlns="http://schemas.ogf.org/glue/2009/03/spec_2.0_r1">single</Type>
      <s5:IDFromEndpoint xmlns:s5="http://schemas.ogf.org/glue/2009/03/spec_2.0_r1">https://cream
      <s6:LocalIDFromManager xmlns:s6="http://schemas.ogf.org/glue/2009/03/spec_2.0_r1">lsf/20121
      <JobDescription xmlns="http://schemas.ogf.org/glue/2009/03/spec_2.0_r1">emi:adl</JobDescription>
      <State xmlns="http://schemas.ogf.org/glue/2009/03/spec_2.0_r1">emies:terminal</State>
      <State xmlns="http://schemas.ogf.org/glue/2009/03/spec_2.0_r1">emiesattr:processing-cancel</State>
      <s7:UserDomain xmlns:s7="http://schemas.ogf.org/glue/2009/03/spec_2.0_r1">dteam</s7:UserDomain>
      <s8:Owner xmlns:s8="http://schemas.ogf.org/glue/2009/03/spec_2.0_r1">CN_Lisa_Zangrando_L_Pa
      <s9:LocalOwner xmlns:s9="http://schemas.ogf.org/glue/2009/03/spec_2.0_r1">dteam042</s9:LocalOwner>
      <s10:StdIn xmlns:s10="http://schemas.ogf.org/glue/2009/03/spec_2.0_r1">stdout</s10:StdIn>
      <s11:StdErr xmlns:s11="http://schemas.ogf.org/glue/2009/03/spec_2.0_r1">stderr</s11:StdErr>
      <s12:ExecutionNode xmlns:s12="http://schemas.ogf.org/glue/2009/03/spec_2.0_r1">prod-wn-001</s12:ExecutionNode>
      <s13:Queue xmlns:s13="http://schemas.ogf.org/glue/2009/03/spec_2.0_r1">creamtest2</s13:Queue>
      <SubmissionTime xmlns="http://schemas.ogf.org/glue/2009/03/spec_2.0_r1">2012-10-11T17:21:35
      <ComputingManagerSubmissionTime xmlns="http://schemas.ogf.org/glue/2009/03/spec_2.0_r1">201
      <StartTime xmlns="http://schemas.ogf.org/glue/2009/03/spec_2.0_r1">2012-10-11T17:21:41.000+
      <ComputingManagerEndTime xmlns="http://schemas.ogf.org/glue/2009/03/spec_2.0_r1">2012-10-11
      <EndTime xmlns="http://schemas.ogf.org/glue/2009/03/spec_2.0_r1">2012-10-11T17:22:37.000+02
      <StageInDirectory>gsiftp://cream-47.pd.infn.it/var/cream_es_sandbox/dteam/CN_Lisa_Zangrando
      <StageOutDirectory>gsiftp://cream-47.pd.infn.it/var/cream_es_sandbox/dteam/CN_Lisa_Zangrand
      <ComputingActivityHistory>
        <ActivityStatus xmlns="http://www.eu-emi.eu/es/2010/12/types">
          <Status>accepted</Status>
          <Timestamp>2012-10-11T17:21:35.000+02:00</Timestamp>
        </ActivityStatus>
        <ActivityStatus xmlns="http://www.eu-emi.eu/es/2010/12/types">
          <Status>preprocessing</Status>
          <Timestamp>2012-10-11T17:21:35.000+02:00</Timestamp>
        </ActivityStatus>
        <ActivityStatus xmlns="http://www.eu-emi.eu/es/2010/12/types">
          <Status>processing-accepting</Status>
          <Timestamp>2012-10-11T17:21:35.000+02:00</Timestamp>
        </ActivityStatus>
        <ActivityStatus xmlns="http://www.eu-emi.eu/es/2010/12/types">
          <Status>processing-queued</Status>
          <Timestamp>2012-10-11T17:21:40.000+02:00</Timestamp>
        </ActivityStatus>
      </ComputingActivityHistory>
    </ActivityInfoDocument>
  </ActivityInfoItem>
</GetActivityInfoResponse>
```

EmiExecutionService < EMI < TWiki

```
</ActivityStatus>
<ActivityStatus xmlns="http://www.eu-emi.eu/es/2010/12/types">
  <Status>processing-running</Status>
  <Timestamp>2012-10-11T17:21:41.000+02:00</Timestamp>
</ActivityStatus>
<ActivityStatus xmlns="http://www.eu-emi.eu/es/2010/12/types">
  <Status>processing-running</Status>
  <Attribute>app-running</Attribute>
  <Timestamp>2012-10-11T17:21:41.000+02:00</Timestamp>
</ActivityStatus>
<ActivityStatus xmlns="http://www.eu-emi.eu/es/2010/12/types">
  <Status>terminal</Status>
  <Attribute>processing-cancel</Attribute>
  <Timestamp>2012-10-11T17:22:37.000+02:00</Timestamp>
  <Description>cancelled by the user</Description>
</ActivityStatus>
<Operation>
  <RequestedOperation>create_activity</RequestedOperation>
  <Timestamp>2012-10-11T17:21:35.000+02:00</Timestamp>
  <Success>>true</Success>
</Operation>
<Operation>
  <RequestedOperation>start_activity</RequestedOperation>
  <Timestamp>2012-10-11T17:21:40.000+02:00</Timestamp>
  <Success>>true</Success>
</Operation>
<Operation>
  <RequestedOperation>cancel_activity</RequestedOperation>
  <Timestamp>2012-10-11T17:22:28.000+02:00</Timestamp>
  <Success>>true</Success>
</Operation>
</ComputingActivityHistory>
</ActivityInfoDocument>
</ActivityInfoItem>
</GetActivityInfoResponse>
```

UNICORE

More... Close

```
<typ:GetActivityInfoResponse xmlns:typ="http://www.eu-emi.eu/es/2010/12/activity/types" xmlns:xsd
  <typ:ActivityInfoItem>
    <typ1:ActivityID xmlns:typ1="http://www.eu-emi.eu/es/2010/12/types">7f5e04d8-62b5-4c0f-b46c-7
    <typ:ActivityInfoDocument>
      <spec:ID xmlns:spec="http://schemas.ogf.org/glue/2009/03/spec_2.0_r1">urn:ogf:ComputingActi
      <spec:IDFromEndpoint xmlns:spec="http://schemas.ogf.org/glue/2009/03/spec_2.0_r1">7f5e04d8-
      <spec:State xmlns:spec="http://schemas.ogf.org/glue/2009/03/spec_2.0_r1">emies:terminal</sp
      <spec:State xmlns:spec="http://schemas.ogf.org/glue/2009/03/spec_2.0_r1">emiesattr:client-s
      <spec:ExitCode xmlns:spec="http://schemas.ogf.org/glue/2009/03/spec_2.0_r1">0</spec:ExitCod
      <spec:Owner xmlns:spec="http://schemas.ogf.org/glue/2009/03/spec_2.0_r1">C=DE,O=unicore.eu,
      <spec:StdOut xmlns:spec="http://schemas.ogf.org/glue/2009/03/spec_2.0_r1">stdout</spec:StdO
      <spec:StdErr xmlns:spec="http://schemas.ogf.org/glue/2009/03/spec_2.0_r1">stderr</spec:StdE
      <typ:StageInDirectory>gsiftp://localhost:2811/tmp/xnjs-test-data/FILESPACE/7f5e04d8-62b5-4c
      <typ:StageOutDirectory>gsiftp://localhost:2811/tmp/xnjs-test-data/FILESPACE/7f5e04d8-62b5-4
      <typ:SessionDirectory>gsiftp://localhost:2811/tmp/xnjs-test-data/FILESPACE/7f5e04d8-62b5-4c
    </typ:ActivityInfoDocument>
  </typ:ActivityInfoItem>
</typ:GetActivityInfoResponse>
```

EMI-ES.filtered (please specify the request filter)

ARC

Only filtering by date is implemented.

EMI-ES GetActivityInfo.filtered (please specify the request filter)

[More... Close](#)

Your XML code here!

CREAM

[More... Close](#)

FILTERED by ID, Name, LocalOwner, Owner, State

```
<GetActivityInfoResponse xmlns="http://www.eu-emi.eu/es/2010/12/activity/types">
  <ActivityInfoItem>
    <s2:ActivityID xmlns:s2="http://www.eu-emi.eu/es/2010/12/types">CR_ES041037324</s2:ActivityID>
    <AttributeInfoItem>
      <AttributeName>ID</AttributeName>
      <AttributeValue>CR_ES041037324</AttributeValue>
    </AttributeInfoItem>
    <AttributeInfoItem>
      <AttributeName>Name</AttributeName>
      <AttributeValue>LISA</AttributeValue>
    </AttributeInfoItem>
    <AttributeInfoItem>
      <AttributeName>LocalOwner</AttributeName>
      <AttributeValue>dteam042</AttributeValue>
    </AttributeInfoItem>
    <AttributeInfoItem>
      <AttributeName>Owner</AttributeName>
      <AttributeValue>CN_Lisa_Zangrando_L_Padova_OU_Personal_Certificate_O_INFN_C_IT_dteam_Role_N
    </AttributeInfoItem>
    <AttributeInfoItem>
      <AttributeName>State</AttributeName>
      <AttributeValue>emies:terminal</AttributeValue>
    </AttributeInfoItem>
    <AttributeInfoItem>
      <AttributeName>State</AttributeName>
      <AttributeValue>emiesattr:processing-cancel</AttributeValue>
    </AttributeInfoItem>
  </ActivityInfoItem>
</GetActivityInfoResponse>
```

UNICORE

Filter by Owner and State

[More... Close](#)

```
<typ:GetActivityInfoResponse xmlns:typ="http://www.eu-emi.eu/es/2010/12/activity/types" xmlns:xsd="http://www.w3.org/2001/XMLSchema" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">
  <typ:ActivityInfoItem>
    <typ1:ActivityID xmlns:typ1="http://www.eu-emi.eu/es/2010/12/types">e3dbbb17-bb24-4f3d-a4c7-0
    <typ:ActivityInfoDocument>
      <spec:State xmlns:spec="http://schemas.ogf.org/glue/2009/03/spec_2.0_r1">emies:processing-a
      <spec:State xmlns:spec="http://schemas.ogf.org/glue/2009/03/spec_2.0_r1">emiesattr:client-s
      <spec:State xmlns:spec="http://schemas.ogf.org/glue/2009/03/spec_2.0_r1">emiesattr:client-s
      <spec:Owner xmlns:spec="http://schemas.ogf.org/glue/2009/03/spec_2.0_r1">C=DE,O=unicore.eu,
    </typ:ActivityInfoDocument>
  </typ:ActivityInfoItem>
</typ:GetActivityInfoResponse>
```

Deployments, Interoperability testing

Server endpoints from the TestBed

ARC

- <https://testbed-emi4.grid.upjs.sk:60000/arex> - automatically deployed from latest code, hence can be unavailable if code did not build
- <https://testbed-emi5.grid.upjs.sk:60000/arex> - part of EMI3 tetbed

CREAM

- <https://cream-47.pd.infn.it:8443/ce-cream-es/services/ActivityCreationService>
- <https://cream-47.pd.infn.it:8443/ce-cream-es/services/ActivityManagementService>
- <https://cream-47.pd.infn.it:8443/ce-cream-es/services/ActivityInfoService>
- <https://cream-47.pd.infn.it:8443/ce-cream-es/services/DelegationService>
- <https://cream-47.pd.infn.it:8443/ce-cream-es/services/ResourceInfoService>

UNICORE

- <https://zam052v02.zam.kfa-juelich.de:8080/EMI-ES/services/CreateActivityService>
- <https://zam052v02.zam.kfa-juelich.de:8080/EMI-ES/services/ActivityInfoService>
- <https://zam052v02.zam.kfa-juelich.de:8080/EMI-ES/services/ActivityManagementService>
- <https://zam052v02.zam.kfa-juelich.de:8080/EMI-ES/services/DelegationService>
- <https://zam052v02.zam.kfa-juelich.de:8080/EMI-ES/services/ResourceInfoService>

Tests

- Creation and Management Testsuite (implemented using UNICORE UCC)
<http://unicore-dev.zam.kfa-juelich.de/release-candidates/emi/>

This topic: EMI > EmiExecutionService

Topic revision: r110 - 2013-01-29 - unknown



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