July 27, 2004

Agenda

GGF12 Schedule (We need to put agendas for 5 meetings)

Logical Operator Discussion.

Attendees

Darren

Fred

Andreas

Subir

Anuj

Saga

Steve

Action Items:

(Darren) Agendas for GGF12 to be circulated for next week.

(Andreas) GridForge Tracker document for the group.

(Steve) Chicken and Egg problem email.

(Andreas) Example of 3-tier Job Request to list.

(Naregi) Example of JSDL for their R&D Job Submission.

(Darren) Process Topology from Chris at Platform

(Steve) Inheritance Mechanism and what issues are involved.

(Andreas) Logical Operators and what to do with it.

(Darren) Review and polish Specification.

(Subir) Cadence Examples to Use JSDL.

(All) Examples for JSDL and Logical Expressions.

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Ideas for the GGF Meetings

Sessions 1-4 - Working session

- Divide up the Document and Cooresponding XSD/XML into four manageable sessions.

Session 5

- 1. Practical Uses of JSDL
- 2. Examples of JSDL
- 3. What people would like to see added to JSDL
- 4. Demo of JSDL in an Actual product.

[Text Slide B]

Logical Operator Discussion

- Defined explicitly, or
- This allows for grouping and other operators besides AND and OR.
- implicitly define the operators
- All things are AND(ed) together unless there are duplicate tags then they are OR(ed)

```
Explicit (Condor):
```

```
Requirements = (CPU == INTEL && CPUSPEED >= 1000Mhz) || (CPU == SPARK && CPUSPEED >= 500Mhz)
```

```
Order = (CPUSPEED + MEMORY)
```

Implicit:

```
CPU == INTEL
```

CPU == SPARK

CPUSPEED >= 1000Mhz

CPUSPEED >= 500Mhz

Do these mean the same?

```
<OR>
```

<CPUSpeed>500Mhz</CPUSpeed>

```
Untitled
```

```
</Resource>
 </alternative>
</OR>
Here is another option.
<requirement name="ConfigureDatabases" operations="Install">
            <alternative name="isDBX_Installed" priority="2">
              <checkItem checkVarName="DBX_Check" />
            </alternative>
            <alternative name="isDBY_Installed" priority="2">
              <checkItem checkVarName="DBY_Check" />
            </alternative>
            <alternative name="isDBZ_Installed" priority="1">
              <checkItem checkVarName="DBZ Check" />
            </alternative>
     </requirement>
http://www.w3.org/Submission/2004/SUBM-InstallableUnit-DD-20040712/
What Logical Operators do we want to support:
```

OR, AND, XOR

[Text Slide C]

Condor Example

```
Requirements = other.Architecture == "INTEL" &&
(other.OpSys == "RH 6.2" ||
other.OpSys == "Solaris 2.6") &&
other.MinPhysicalMemory >= 200 &&
other.OutboundIP == TRUE;
<Resource name="core">
 <CPUArch>INTEL</CPUArch>
 <MinPhysicalMemory>200</MinPhysicalMemory>
 <Extends name="OutboundIP">true</Extends>
</Resource>
<OR>
 <Alternative>
  <Resource basedOn="core">
   OpSys == "RH 6.2"
  </Resource>
 </Alternative>
 <Alternative>
  <Reasource basedOn="core">
   OpSys == "Solaris 2.6"
  </Resource>
 </Alternative>
</OR>
<Resource name="core">
 <CPUArch>INTEL</CPUArch>
 <MinPhysicalMemory>200</MinPhysicalMemory>
 <Extends name="OutboundIP">true</Extends>
 <OR>
  <Alternative>
    OpSys == "RH 6.2"
  </Alternative>
  <Alternative>
```

```
OpSys == "Solaris 2.6"

</Alternative>

</OR>

<OR>

<Alternative>

<DISCSPACE=1024MB</>
</Alternative>

<Alternative>

<Alternative>

<DISCSPACE=2045MB</>
</Alternative>

</OR>

</Resource>
```

[Text Slide E]

Another Logical Expression option.

[Text Slide D]