January 21, 2005

Agenda

Attendees
 Darren
 Sayaka
 Donal
 Ali
 Michal
 Igor
 Andreas

[Text Slide A]

Last weeks actions:
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1) Place an example in the Spec for directory delimiting
CF: From point 2 in last weeks minutes (Andreas)

 - DONE -

2) More exaples for File staging - we have some of these on GridForge, they need to be merged in.
(Andreas, Steve)

 - DONE -

3) Add to spec that overwrite is a commonly used value for CreationFlag
CF: From point 4 in last weeks minutes
(Does anyone have a good reason for making this compulsory? or can we make it optional and
implementation dependent?)
(Steve to post to list)

 - CARRY -

4) Check Darren has done item 5 from two weeks ago
   5. Definition 5.6.6.1:
   "A Source element contains the location and may contain a user on the remote system. This file
   MUST be staged in from the location specified by the URL as the user on the remote host
   before the job has terminated."
   (Action Item) Do you really mean "terminated" or it should be "started"?

 - DONE -

5) Steve to complete action 6 from last week
  6.What is expected as operatingSystemDesc? Is it human readable description?
  Donal> I think that's one of the items we hope to borrow from CIM.
  (Action Item) All element that are of type Description is human readable and should be handled
  as such.

 - CARRY -

6) Andreas to do item 7 from last week

  7. I saw the uses-cases containing descriptions of a job consisting of multiple processes and
  threads requiring multiple resources and/or processors. I guess that specification of
  alternative configurations is not possible, e.g. 4 nodes 4 processors each OR 1 node, 16
  processors?
  (Action Item) We need to show this example using the schema in the spec.

  - CARRY -

7) Steve to add f2f slides into introductory matter in spec (cf point 8 from last week)
  8. I didn't find a specification of the queue name in the new schema. I think it might be
  sometimes useful similarly as an implicit specification of a specific host.
  Group> Again we have removed this because it is part of the scheduling document that is
  outside of the jsdl language.
  (Action Item) Show how a queue can be specified in an example outside of the jsdl language
  and as an extension to jsdl.

  - CARRY -

8) Action Fred's ideas for more thought (cf 9)
  9. Regarding your question in the spec about the webService value of the
  ApplicationTypeEnumeration, we think this is definitely needed (invoking an existing
  WebService).
  (Action Item) Put Fred's example into the spec.
  (Action Item) Discuss Fred's example next week. We need to discuss whether what we currently
  haved sufficient.

  - CARRY -

9) Donal to look into (posix) limits (cf10)

  - DONE/CARRY -

10) [Arial's questions]
There are 3 scenarios here:
1. User specifies that certain filesystems must be available at a certain locations

2. User specifies certain filesystems must be available but doesn't care where, and the information is passed back somehow, e.g., environment variables.

3. User only cares that sufficient DiskSpace is available because there is access to some other mechanism that will deploy/configure the resource before the job is executed.

At the moment we clearly support (1) and somewhat obsurely (2), and perhaps even (3) as Donal mentions. If we agree that these 3 scenarios are equally valid I wonder if we shouldn't make the rules clearer. For example:

- make the MountPoint optional
- if the MountPoint is specified then the filesystem MUST be available at that location
- if the MountPoint is not specified then the filesystem MUST be available at some location and there MUST be an environment variable (subject to the rules of ApplicationType) defined by the execution system with the same name as the "FileSystem id". The value of this environment variable MUST be the location of the filesystem.

And for case (3) we could allow the DiskSpace element to appear directly under Resource.

Andreas

Action: Have two tags MountPoint and MountSource both of which are optional.

 - CARRY -

11) To provide examples of software resource reqirements and where they should go in the document. Probably place these in as extension elements for now (cf 12)

  e.g.
  - interactive application may need additional software (e.g. VNC) to enable users to access
   remotely application's user interface
  - graphical application may need the OpenGL library to run
  - Java applications need Java Virtual Machine installed Therefore, in my opinion such an
   element would be useful and general. Of course, we can add it using the extension
   possibility.

 - CARRY -

[Text Slide C]

Discussion

WebService issue - example

Putting a SOAP Envelope inside a JSDL document as a WS invocation. JSDL Resource-based host selection leads to wsa:Via header being added.

JSDL - restructuring

Alternative application specification for Web Services.

Referencing application specification from the JSDL: e.g. <Application Ref:WSspec>

Take into account Igor's proposal for restructuring and JSDL extensions with JSDL namespace extensions - e.g. for Web Services.

ACTION -> Igor - Donal - Steve --> to take care of adding Igor's suggestions with tune-up into
                                            the schema

 e.g. Command-Line, Web Service, Database examples

 Review Tuesday 15th Feb.

8) Action Fred's ideas for more thought (cf 9)
 9. Regarding your question in the spec about the webService value of the
 ApplicationTypeEnumeration, we think this is definitely needed (invoking an existing
 WebService).
 (Action Item) Put Fred's example into the spec.

(Action Item) Discuss Fred's example next week. We need to discuss whether what we currently haved sufficient.

[Text Slide D]

This Week's Action List

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1) Darren to merge Andreas's changes from actions 1 and 2 from last week as below:

  1) Place an example in the Spec for directory delimiting
  CF: From point 2 in minutes from two weeks ago (Andreas)

  2) More exaples for File staging - we have some of these on GridForge, they need to be
  merged in. (Andreas, Steve)

2) Add to spec that overwrite is a commonly used value for CreationFlag
   CF: From point 4 in minutes from two weeks ago
  (Does anyone have a good reason for making this compulsory?
  or can we make it optional and implementation dependent?)

  We're saying that the CreationFlag is a compulsory attribute of the Data Staging element,
  but that it's value is optional - with no default "overwrite" value, DISCUSS!

  (Ali to post to list)

 [-- additional point: We need a general discussion on whether we have default values specified
   in the schema (spec)?]

3) Darren to take action from Steve to the Spec.

  5) Steve to complete action 6 from last week
   6.What is expected as operatingSystemDesc? Is it human readable description?
   Donal> I think that's one of the items we hope to borrow from CIM.

   -->> (Action Item) All element that are of type Description is human readable and should be
     handled as such.

4) Andreas to continue action.

6) Andreas to do item 7 from last week

   7. I saw the uses-cases containing descriptions of a job consisting of multiple processes and threads Untitled requiring multiple resources and/or processors. I guess that specification of alternative configurations is not possible, e.g. 4 nodes 4 processors each OR 1 node, 16 processors?

   (Action Item) We need to show this example using the schema in the spec.

5) Steve to continue action - to get latest version of spec from Darren

7) Steve to add f2f slides into introductory matter in spec (cf point 8 from last week)

   8. I didn't find a specification of the queue name in the new schema. I think it might be sometimes useful similarly as an implicit specification of a specific host.

   Group> Again we have removed this because it is part of the scheduling document that is outside of the jsdl language.

   (Action Item) Show how a queue can be specified in an example outside of the jsdl language and as an extension to jsdl.

6) Darren to add to spec:

   " 9) Donal to look into (posix) limits (cf10) "

7) Action: Have two tags MountPoint and MountSource both of which are optional.

   Part of fileSystem

   Andreas to look into this (post example to the list - with intro).

8) Carry forward -

11) To provide examples of software resource reqirements and where they should go in the document. Probably place these in as extension elements for now (cf 12)

   e.g.

   - interactive application may need additional software (e.g. VNC) to enable users to access remotely application's user interface

   - graphical application may need the OpenGL library to run

- Java applications need Java Virtual Machine installed Therefore, in my opinion such an element would be useful and general. Of course, we can add it using the extension possibility.
- Software licenses

9) See new action on Slide D for Donal, Igor, and Steve to update Schema with e.g.s and pass onto Darren for updating the spec.

OTHERS -->

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JSDL F2F Actions:
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0. Andreas to clean up document by the next teleconf.

1. Use the figures from Steve's presentation and add text to the spec under purpose/scope, in particular describe how the 'things' outside the JSDL box fit in. (E.g, agreement, policy, workflow, etc.)
   - Andreas,Steve,Darren

2. Provide a non-normative example for the other type of refinement (aka enrichment) of adding profiles to a job document.

3. Add the full version of the normative schema in the appendix (in addition to the pseudo schema description)
   - Pending on full schema definition

4. Add more examples to the document. The following people were identified:
   - Unicore(Michel, Sven), gridMatrix(Darren), Condor(Steve) LSF (Chris), SGE(Dan), Business grid (Andreas), PBS(Bill), Naregi(Saga), Globus(Nathalie)

   - Darren to contact Bill

5. Review and cross-check type information between schema and
   specification after the document is cleaned up and any immediate
   problems with the schema are fixed.
   - Agenda item for first teleconf.

6. Applying preference to profiles. Profiles are named and it is
   expected that preference can be applied to them by an outside
   framework, e.g., WS-Agreement.
   - Andreas to do a WS-Agreement example

7. How to invoke a Web service application type
   - Fred to provide an example WS invocation

8. Give an example extension for software requirements (e.g.,
   required libraries). During the F2F we agreed these would be
   under the resource section.

9. Agreed to define "Description" as a general element to be
   inherited by all elements.
   - Steve to work in the schema
   - Andreas to add explanation in the specification

10. Discuss jsdl compliance levels
    - A teleconf agenda item

11. Add an extensibility example for (disk) performance or
    availability to be addressed. Use the provided extensibility
    point.

12. Review naming of elements for consistency.
    - Andreas to do as part of document cleanup.

13. Agreed to allow operators only in places where they make
    sense.
    - Andreas to do first pass as part of document cleanup (but

others can try to do this too as part of schema refinement)

14. Mounting remote resource to a local location: is this
    configuration (out of scope) or do we need to do something about
    it.
    - Steve to come up with motivating examples.

15. Define 'unlimited' value for limits

16. Dave to do pseudo-code for the profile processing rules

17. Sven to do examples for the profile processing rules

18. Add text on how to write a jsdl document (at a later stage when
    we understand things better)

19. Chris to provide text to motivate and describe the model for
    processTopology

20. Andreas to add boilerplate text in Security section

21. Andreas to add people in Contributors section
    - Send your name to Andreas if you think you should be added
      under Contributors.

22. Revisit xsd:token usage and decide if we want to define new
    types
    - Agreed to define new types to replace xsd:tokens.
    - (People working on schema please check)

23. What are the semantics for an extension that is not supported by
    a system: reject or ignore? Possible need to add explanatory
    text.
    - Andreas to check during document cleanup.

[Text Slide B]