Current status

Matthew J. Graham, Caltech

Standards update

- **Universal Worker Service (UWS)**
  - IVOA Recommendation
- **WS Basic Profile**
  - TCG RFC: 10/25/2010 – 11/25/2010
  - Submitted to EXEC for approval 12/06/2010
- **VO Support Interface (VOSI)**
  - RFC: 04/09/2010 – 05/14/2010
    - Some clarification and restructuring required
  - New version: 12/06/2010
  - Start TCG RFC: 12/08/2010 – 01/07/2011
- **REST Basic Profile**
  - New version this week from Andre Schaaff
- **VOPipe**
  - Defining it (see Tamas' talk)

"Our standards are very high. We even have high double standards."

VOSpace 2.0: changes

- New Working Draft 11/12/2010
- Changes since last version (discussions and agreements from Victoia):
  - VOSpace relation to IVOA architecture
  - Compliance matrix
  - Corrected XML Schema (TransferType)
  - Removed mention of WSDL/WADL
  - Node hierarchy diagram

VOSpace 2.0: use of UWS - I

- Data transfers (move, copy, pushTo, pullTo, pushFrom, pullFrom) and searching
- How it was (03/23/10):
  - Post Job representation to initiate job
  - Use parameters list for details:

  ```
  <uws:parameters>
      <uws:parameter id="target">vos://nvo.caltech!vospace/mydata1</uws:parameter>
      <uws:parameter id="direction">pushToVoSpace</uws:parameter>
      <uws:parameter id="view">ivo://net.ivoa/vospace/core#fits</uws:parameter>
      <uws:parameter id="protocol">ivo://net.ivoa/vospace/core#httpput</uws:parameter>
  </uws:parameters>
  ```

  - vos:group attribute to identify repeated groups, re.g., protocol/protocolEndpoint
- Latest version (11/12/10):
  - Post Job representation to initiate job
  - Use jobInfo for details:

  ```
  <uws:jobInfo>
    <vos:transfer>
        <vos:target>vos://nvo.caltech!vospace/mydata1</vos:target>
        <vos:direction>pushToVoSpace</vos:direction>
        <vos:view>ivo://net.ivoa/vospace/core#fits</vos:view>
        <vos:protocol uri="ivo://net.ivoa/vospace/core#httpput"/>
    </vos:transfer>
  <uws:jobInfo>
  ```

VOSpace 2.0: use of UWS - II

- New proposal:
  - Use job description (transfer/search representation):
    ```
    <vos:transfer>
        <vos:target>vos://nvo.caltech!vospace/mydata1</vos:target>
        <vos:direction>pushToVoSpace</vos:direction>
        <vos:view>ivo://net.ivoa/vospace/core#fits</vos:view>
        <vos:protocol uri="ivo://net.ivoa/vospace/core#httpput"/>
    </vos:transfer>
    ```
  - Meet these patterns:
    - curl –d @transfer.xml http://foo.com/bar/transfers
    - curl –d '' http://foo.com/bar/transfers
      curl –d @transfer.xml http://foo.com/bar/transfers/123
    - curl –d '' http://foo.com/bar/transfers
      curl –d @transfer.xml http://foo.com/bar/transfers/123/jobInfo

What's next

- Address RFC comments on VOSI ✔
- VOSpace 2.0:
  - Registry extension schema for VOSpace
  - VOSpace + Provenance DM
  - VOSpace + SAMP
  - VOSpaceProxy
- REST Basic Profile
- VOPipe
- Workflows?