CASFI Data Sharing Platform: Progress report

April 5, 2009
Nicolas Aycirieix (KAIST)
Presentation outline

- Introduction: review
- Development steps
- Internal management module DEMO
- The strengths of the DSP
- Plan until september
- Conclusion
Introduction: review
Introduction: review

Web Interface

Internet

Daemons

XML-RPC

NFS

Storages
Development steps

1. Internal data management module
2. Automatic exchange of metadata between the institutions’ DSPs
3. Remote data processing
DEMO scenario

Upload of 2 files:
- pcap file
- custom format file

Features shown:
- automatic metadata extraction
- new type creation
- post-processing metadata
Strengths

FLEXIBILITY

- Adapted to any network architecture
- Any format of file
- Any tool to extract metadata
- Freedom for uploading (FTP, SCP, SFTP,...)
Strengths

EASE OF USE

- Simple interface
- Assisted metadata extraction and new data type creation
- Query any institution from the local interface
<table>
<thead>
<tr>
<th></th>
<th>Plan</th>
<th>CASFI Data Sharing Platform</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Mar.</strong></td>
<td>1. Internal management module</td>
<td></td>
</tr>
<tr>
<td><strong>Apr.</strong></td>
<td>1. Internal management module finalization +</td>
<td>Get feedback from AN Lab. and ChungNam University</td>
</tr>
<tr>
<td><strong>May.</strong></td>
<td>2. Federation</td>
<td>Get feedback from CASFI Universities</td>
</tr>
<tr>
<td><strong>Jun.</strong></td>
<td>Tests / fix bugs / design Documentation</td>
<td></td>
</tr>
<tr>
<td><strong>Jul.</strong></td>
<td>3. Remote processing</td>
<td>Get feedback from CASFI Universities</td>
</tr>
<tr>
<td><strong>Aug.</strong></td>
<td>DSP available online</td>
<td>Get feedback from users</td>
</tr>
<tr>
<td><strong>Sep.</strong></td>
<td>PAM 2010 paper</td>
<td></td>
</tr>
</tbody>
</table>
Conclusion

- The DSP’s new approach to sharing measurement data and metadata allows institutions to manage their files and browse/process remote files through the same simple interface.

- There are technical challenges

- The greatest challenge is to provide incentives for sharing.

FLEXIBILITY and EASE OF USE
Thank you!

Questions or suggestions?