

# File Staging Profile

# Origins

- Recognized from the beginning
- Began discussion on WG mailing list in mid 2007 (as “data staging profile”)
- New draft for SC2007
- Last call on doc Feb 4, 2008 (terminated Feb 11, submitted to OGF shortly thereafter)

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HPC File Staging Profile

<http://forge.gridforum.org/projects/ogsa-hpcp-wg>

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## HPC File Staging Profile, Version 1.0

### Status of this Memo

This memo provides information to the Grid community regarding the specification of the HPC File Staging Profile. Distribution is unlimited.

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### Abstract

This document profiles the File staging capabilities of the Job Submission Description Language (JSDL) for use by HPC Basic Profile-compliance services. It includes clarifications, refinements, interpretations and amplifications of JSDL which promote interoperability.

# Overview

- Based on JSDL 1.0 DataStaging Elements
- Some clarifications
- Addition of “Credentials” (xsd:any)
- Specification of supported protocols
- Discovery
- File staging failure semantics (and errors)
  - FileNotFound, UnsupportedProtocol, NotAuthorized, DeleteOnTermination, LocalStaging, RemoteStaging

# Supported Protocols

- “requires that compliant services support at least one of the following file transfer protocols: ftp, http and scp”
- this profile mandates that username/password information must not be embedded in URIs.
  - To avoid confusion
- Re: xsd:any: “...compliant services must support the inclusion of at least one of WS-Security UsernameTokens or WS-Security X.509 CertificateTokens within this element.”

# Discovery

- “...placed in the <BESExtension> element of the FactoryResourceAttributesDocument.”
  - <http://www.ogf.org/hpc-fsp/2008/01/protocol/ftp>
  - <http://www.ogf.org/hpc-fsp/2008/01/protocol/http/v11>
  - <http://www.ogf.org/hpc-fsp/2008/01/protocol/scp>

# Status

- Awaiting pub on OGF web page for public comments
- Please record comments!