

Application Contents Service (ACS)

OGF19 January 29 - February 2, 2007 @ Chapel Hill, North Carolina

ACS-WG session, Tuesday, January 30 4:00 pm - 5:30 pm (Windflower)

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Common procedure

- Introduction
- Note taker & time keeper
- Agenda bashing
- Presentations and discussions ...

Agenda bashing

- Overall status - where are we? what we do?
- ACS Specification
- Status report of the NAREGI PSE
 - Prof. Usami of NII will present slides and demo
- ACS part of the EMS Scenario
- How we can promote the ACS (brainstorm)

Where were we?

- GGF12 ACS-BOF: September 2004, Brussels
- Approved as WG: January 2005
- GGF13 first WG meeting: March 2005, Seoul, Korea
 - Participation to CDDLIM-WG discussions
- Interim F2F: May 2005, Washington DC
 - NAREGI PSE
- GGF14 second WG meeting: June 2005, Chicago, IL
 - Concepts, Glossary items
 - Joint discussion with CDDLIM-WG
- Interim F2F: August 2005, RTP, NC
 - Refinement of the concepts
- GGF15 final WG review: October 2005, Boston, MA
- ACS spec. to GGF editor: November 2005

Where are we?

- Public Comments started: February 2006
- Final spec submitted to GGF editor: May 2006
 - Improvements are included to the spec.
- Published on September 4, 2006
 - <http://www.ggf.org/gf/docs/?final>
- GGF18 @ Washington DC September 2006
 - Reviewed status of the projects

ACS Specification 1.0

- 81 pages in total
 - Normative specification and non-normative text description
 - Normative XML Schema for Archive Format and Repository I/F
- Cover page looks like this->
- Now you can see the specification as GFD-R-P.073 on the GGF Document Series page:
 - <http://www.ogf.org/gf/docs/?final>

GFD-R-P.073
Category: Recommendation
Application Contents Service Working Group
<https://forge.gridforum.org/projects/acs-wg>

Editor:
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May 8, 2006

Application Contents Service Specification 1.0

Status of This Document

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Abstract

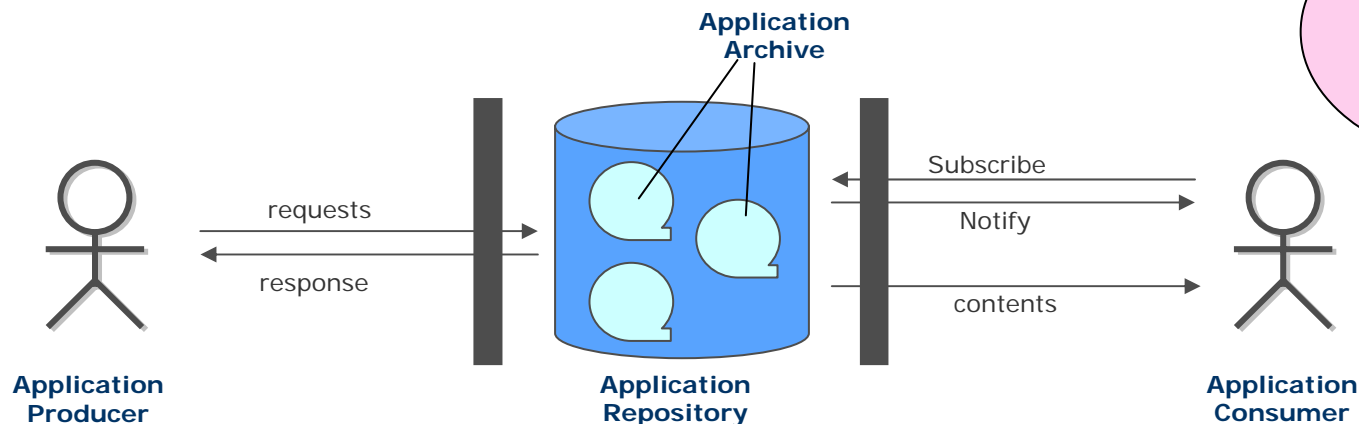
In order to install and operate complex systems such as three-tier systems more efficiently and automatically, it is essential to transfer and manage as a unit of various application-related information, which we call Application Contents. Application Contents may include deployable contents such as program binaries, configuration data, and descriptions of the hardware resources typically required for application execution as well as other contents such as descriptions of procedures for lifecycle management and management policies applied to the running system.

In this document, we define Application Contents Service (ACS) to manage Application Contents. ACS is an OGSA service, which maintains Application Contents as an Application Archive. The ACS repository provides functions to retrieve the contents and their change histories. We also define a standard format of an Application Archive for its management and exchange.

What is ACS?

- Specification for the ACS repository.
 - ACS: Application Contents Service
- Application Contents Repository Interface (ARI)
 - WSRF interface for ACS repository to create, retrieve, update and delete archives in the repository
- Application Contents Archive transport Format (AAF)
 - Transport format for contents in an archive. Information for lifecycle operations can be included in contents in a archive.
 - Not a schema for internal format in a repository.

Deployment, data staging, workflow, etc.



ACS specification 1.0

NAREGI PSE presentation

presented by Prof. Usami

ACS part of the EMS Scenario

Promote the ACS!

How we can promote the ACS

- Ideas
 - Contribution / collaboration with major projects
 - Globus, Apache, etc.
 - Demonstration of the reference/implementation of ACS
 - Evaluation
 - Proposal for adoption
 - More use cases, business plans