

GridHotline 4

通常は会員限定
今回、オブザーバーとして会員参加を
検討されている一般の方も何名か参加

- 【OGFオーバービュー】13:30-13:50 伊藤智(産総研)
OGF21 の概要(OGFの動き(BOF、新設WGなど))
- 【OGSA動向】13:50-14:30 岸本光弘(富士通)
フラグシップアーキテクチャOGSAの状況(OGSA-WGおよび関連するWGの状況)
- 【コミュニティ動向】14:30-15:00 関口智嗣(産総研)
e-Science コミュニティからの話題
-Grid と GIS: OGF と OGC(Open Geospatial Consortium) の連携模索について-
- 【トピック紹介】15:15-15:45 濱田正彦(日本IBM)
ITインフラにおける仮想化とグリッド、そしてグリッド・コミュニティにおけるWeb2.0の活用
-企業ITインフラの仮想化とグリッド技術、e-ScicenceにおけるWeb2.0手法の活用事例-
- 【ドキュメント概説】15:45-16:45 田中良夫(産総研)、安崎篤郎(日立製作所)
グリッドプログラミングモデルとそのインタフェース - OGF初のfinal recommendation 成立の裏側 -
「A GridRPC Model and API for End-User Applications」
<http://www.ogf.org/documents/GFD.52.pdf>

休憩15分

ストレージ管理に求められるインターフェース仕様 - グリッドのリソースとしてストレージに求められた要素とは -
「The Storage Resource Manager Interface Specification Version 2.2」
http://www.ogf.org/Public_Comment_Docs/Documents/2007-10/OGF-GSM-SRM-v2.2.pdf

OGF21

- October 15-19, 2007
- Grand Hyatt Seattle
- Seattle, Washington, USA

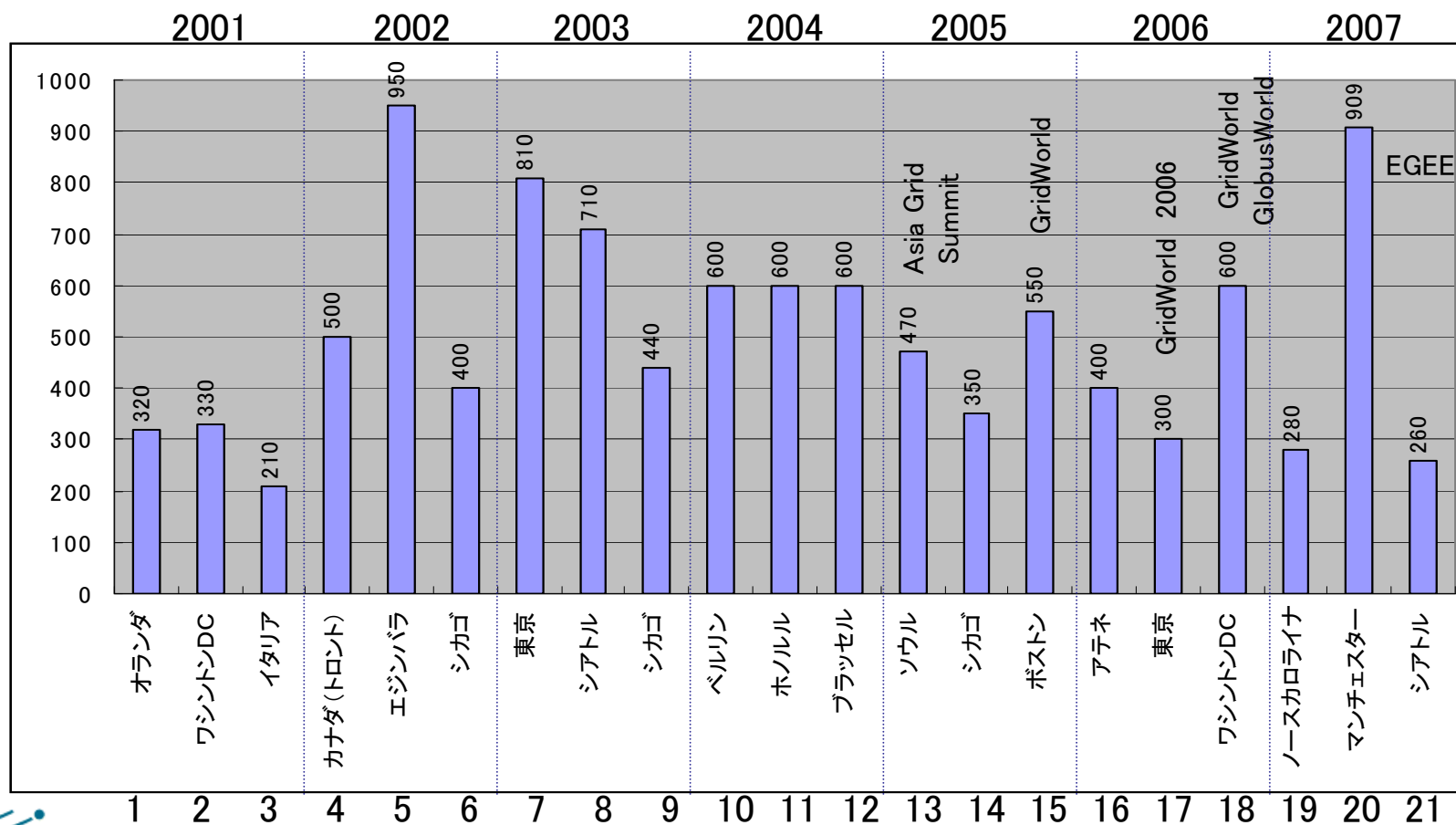
- OGF初のRecommendation
ドキュメントが成立

- ▶ A GridRPC Model and API for End-User Applications
- ▶ Distributed Resource Management Application API
Specification 1.0



OGF21参加者

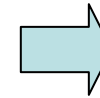
参加者 約260人 (コアなメンバーのみ)



OGF ドキュメントのタイプ

GGF Document (GFD)
Grid Working Drafts (GWD)

GWD-I
GWD-E
GWD-C
GWD-R



GFD-I
GFD-E
GFD-C
GFD-R
GFD-R-P

(Proposed Recommendation)

Informational or Experimental

▶ Purpose: To Inform the community

✦ 相互運用性のテスト結果、プロトコルや仕様の具体的実装 など

Community Practice

▶ Purpose: To Influence the community

✦ GGF ドキュメントプロセス、グリッド運用・手順・サポートのベストプラクティス など

Recommendations Track

標準仕様

▶ Purpose: Define a standard

✦ プロトコル、API、オブジェクト、アーキテクチャの仕様 など

OGFドキュメント

GFD-I	61
GFD-E	12
GFD-C	10
GFD-R-P	27
GFD-R	2

- 2007年8月17日現在 112のドキュメントを発行済み
- GFD-R-P (Proposed Recommendation)
 - ▶ Open Grid Services Infrastructure (OGSI)
 - ▶ GridFTP: Protocol Extensions to FTP for the Grid
 - ▶ GridFTP v2 Protocol Description
 - ▶ A Hierarchy of Network Performance Characteristics for Grid Applications and Services
 - ▶ BytelO Specification 1.0
 - ▶ BytelO OGSA™ WSRF Basic Profile Rendering 1.0
 - ▶ A GridRPC Model and API for End-User Applications
 - ▶ Distributed Resource Management Application API Specification 1.0
 - ▶ Configuration Description, Deployment, and Lifecycle Management (CDDL) SmartFrog-Based Language Specification
 - ▶ Configuration Description, Deployment, and Lifecycle Management (CDDL) Component Model v 1.0
 - ▶ Configuration Description, Deployment, and Lifecycle Management (CDDL) Deployment API
 - ▶ CDDL Configuration Description Language Specification, Version 1.0

OGF初の
Recommendation

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OGFドキュメント(2)

GFD-R-P (Proposed Recommendation)

- ▶ Job Submission Description Language (JSDL) Specification, V1.0
- ▶ JSDL HPC Profile Application Extension, Version 1.0
- ▶ JSDL SPMD Application Extension, Version 1.0
- ▶ OGSA™ Basic Execution Service Version 1.0
- ▶ Application Contents Service Specification 1.0
- ▶ Web Services Data Access and Integration - The Core (WS-DAI) Specification, Version 1.0
- ▶ Web Services Data Access and Integration - The XML Realization (WS-DAIX) Specification, Version 1.0
- ▶ Web Services Data Access and Integration - The Relational Realisation (WS-DAIR) Specification, Version 1.0
- ▶ OGSA™ WSRF Basic Profile 1.0
- ▶ OGSA™ Basic Security Profile 1.0 - Core
- ▶ OGSA™ Security Profile 1.0 - Secure Channel
- ▶ Usage Record - Format Recommendation
- ▶ Resource Namespace Service Specification
- ▶ WS-Naming Specification
- ▶ Web Services Agreement Specification (WS-Agreement)
- ▶ Information Dissemination in the Grid Environment - Base Specifications
- ▶ HPC Basic Profile, Version 1.0

ドキュメントの状況 (OGF20からの差分)

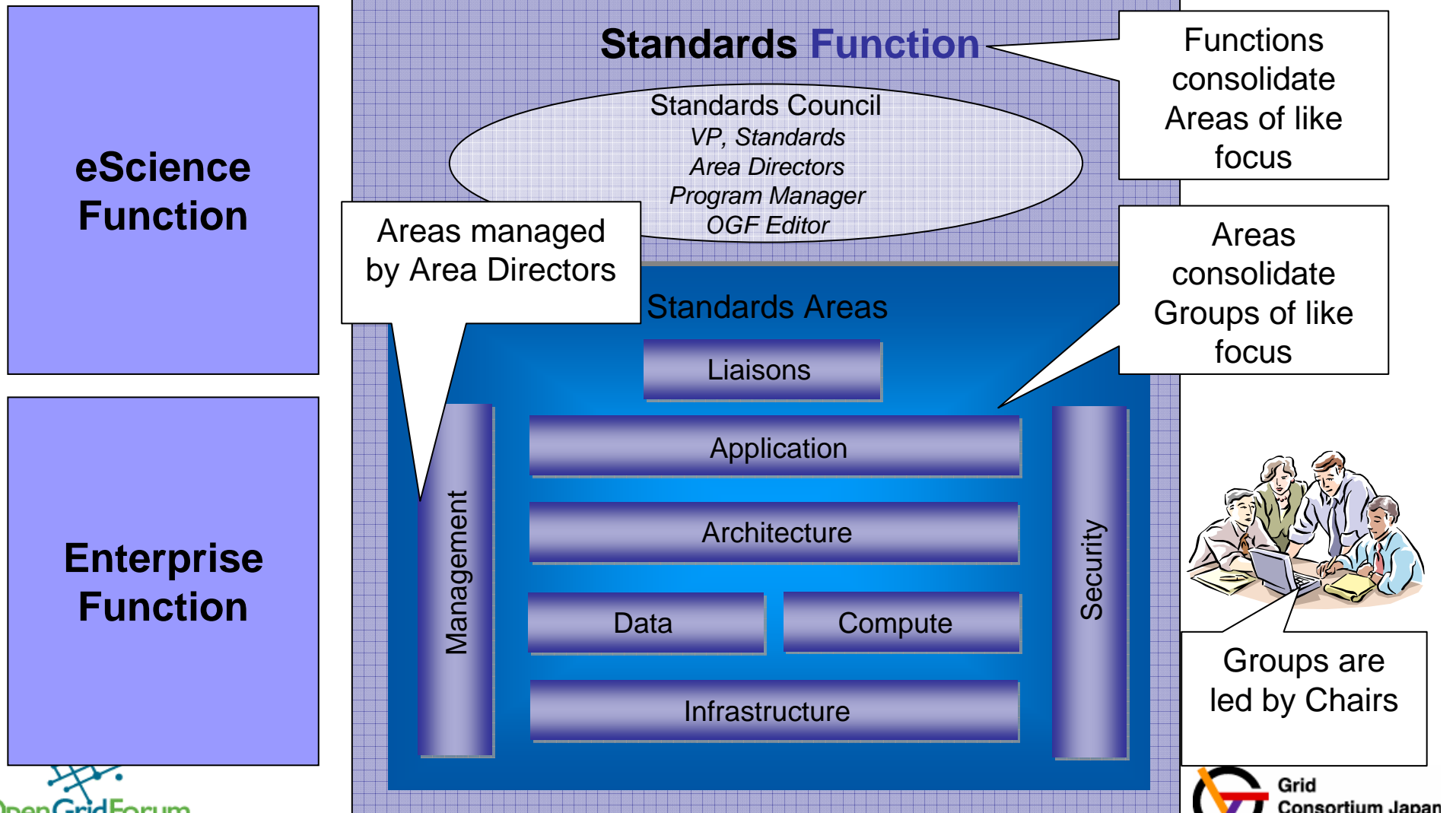
OGF20 以降、10のドキュメントが完成

- GFD.111 (JSDL)-R
 - ▶ JSDL HPC Profile Application Extension, Version 1.0
- GFD.112 (GFSG)-I
 - ▶ Grid - Distributed Computing at Scale, An overview of Grid and the Open Grid Forum
- GFD.114 (HPCP-WG)-R
 - ▶ HPC Basic Profile, Version 1.0
- GFD.115 (JSDL)-R
 - ▶ JSDL SPMD Application Extension, Version 1.0
- GFD.116 (GFSG)-C
 - ▶ Nomination Committee (NOMCOM) Process Charter
- GFD.117 (DRMAA)-E
 - ▶ PBS/Torque DRMAA 1.0 Implementation – Experience Report
- GFD.119 (OGSA-WG)-I
 - ▶ Execution Environment and Basic Execution Service Model in OGSA® Grids
- GFD.120 (OGSA-WG)-I [Obsoletes GFD.81]
 - ▶ Open Grid Services Architecture® Glossary of Terms Version 1.6
- GFD.121 (OGSA-D-WG)-I
 - ▶ OGSA® Data Architecture
- GFD.122 (GHPN-RG)-I
 - ▶ Grid Network Services Use Cases from the e-Science Community

Public コメント受付中

- OGSA® Resource Selection Services: Specification
EXP OGSA-RSS-WG 8 Jan, 2008
- Distributed Resource Management Application API
1.0 - IDL Specification P-REC DRMAA-WG 8 Feb,
2008

Functions/Areas/Groups/Chairs



eScience/Enterprise Functions

eScience Functions (16Groups)

Community Affairs	<ul style="list-style-type: none"> •Build, Test and Certification of Grid Software Community Group (btc-cg) •Education and Training (et-cg) •Grid Reliability and Robustness RG (gridrel-rg)
Grid Operations	<ul style="list-style-type: none"> •Certificate Authority Operations RG (caops-wg) •Grid Interoperation Now Community Group (gin-cg) •Production Grid Services-RG (pgs-rg) •Remote Instrumentation Services in Grid Environment - RG (risge-rg)
Research Applications	<ul style="list-style-type: none"> •Applications Developers and Users RG (apps-rg) •Astronomy Applications RG (astro-rg) •Humanities, Arts, and Social Sciences RG (hass-rg) •Life Sciences Grid RG (lsg-rg) •Particle and Nuclear Physics Applications RG (pnpa-rg) •Preservation Environments RG (pe-rg)
Technology Innovators	<ul style="list-style-type: none"> •Grid Computing Environments RG (gce-rg) •Semantic Grid RG (sem-rg) •Workflow Management RG (wfm-rg)

Enterprise Functions (3Groups)

Industry Applications	<ul style="list-style-type: none"> •Enterprise Grids Requirements RG (egr-rg) •Storage Networking Community Group (sn-cg) •Telecomm Community Group (telco-cg)
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Workshopと主なcommunity session

● Web2.0 and Grid

- ▶ Web 2.0: Social Networking for MSI Researchers
- ▶ Web 2.0 Grids and Cyberinfrastructure
- ▶ Real-time Web 2.0: Evolution of Middleware for Grid-based Instruments and Sensors
- ▶ Web 2.0 technology and Semantic Research Grid (SRG)
- ▶ Web 2.0 infrastructure and applications
- ▶ SciVee Presentation in Grid and Web 2.0
- ▶ Web 2.0 Meets Grids

● ソフトウェア実装と応用

- ▶ Globus and Community for OGF
- ▶ Data Integration Solutions with OGSA-DAI
- ▶ OMII-Europe
- ▶ SAGA-Software Solution Session
- ▶ caGrid 1.0- Update on caGrid Infrastructure Project

● その他

- ▶ OGC-OGF Collaboration
- ▶ GridNet2 eScience Workshop

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報告

関口会長より
報告

Enterprise Community

● 仮想化やデータセンタなど、企業系におけるグリッドとの関連が検討された

- ▶ Understanding Grid in the Distributed Computing Landscape
- ▶ Grids in the IT Data Center
- ▶ Grids and Server Virtualization
- ▶ Data/Computer Affinity - Focus on Data Catching
- ▶ Towards Professional Grid Certification
- ▶ Enterprise Grid - Best Practice Workshop
- ▶ OGF Marketing Workshop
- ▶ Driving Grid Adoption With Industrial-Strength Open-Source Solutions
- ▶ What can Microsoft products do for you?

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報告

Standards Function (35Groups)

Applications	<ul style="list-style-type: none"> •Distributed Resource Management Application API WG (drmaa-wg) •Grid Information Retrieval WG (gir-wg) •Grid Remote Procedure Call WG (gridrpc-wg) •Simple API for Grid Applications Core Working Group (saga-core-wg) 	<ul style="list-style-type: none"> •Simple API for Grid Apps RG (saga-rg)
Architecture	<ul style="list-style-type: none"> •OGSA Naming Working Group (ogsa-naming-wg) •Open Grid Services Architecture WG (ogsa-wg) 	<ul style="list-style-type: none"> •Reference Model Working Group (rm-wg)
Compute	<ul style="list-style-type: none"> •Grid Resource Allocation Agreement Protocol WG (graap-wg) •Grid Scheduling Architecture RG (gsa-rg) •Job Submission Description Language WG (jsdl-wg) •OGSA Basic Execution Services WG (ogsa-bes-wg) •High Performance Computing Profile WG (hpcp-wg) •OGSA Resource Selection Services WG (ogsa-rss-wg) 	
Data	<ul style="list-style-type: none"> •Data Format Description Language WG (dfdl-wg) •Database Access and Integration Services WG (dais-wg) •Grid File System Working Group (gfs-wg) •Grid Storage Management WG (gsm-wg) •GridFTP WG (gridftp-wg) 	<ul style="list-style-type: none"> •Info Dissemination WG (infod-wg) •OGSA ByteIO Working Group (byteio-wg) •OGSA Data Movement Interface WG (ogsa-dmi-wg) •OGSA-Data Working Group (ogsa-d-wg)
Infrastructure	<ul style="list-style-type: none"> •Grid and Virtualizaion Working Group (gridvirt-wg) •Grid High-Performance Networking RG (ghpn-rg) 	<ul style="list-style-type: none"> •Network Mark-up Language Working Group (nml-wg) •Network Measurements Working Group (nm-wg)
Liaison	<ul style="list-style-type: none"> •Standards development organizations Collaboration on networked Resources Management (scrm-wg) 	
Management	<ul style="list-style-type: none"> •Configuration Description, Deployment, and Lifecycle Management WG (cddl-m-wg) •Glue Schema Working Group (glue-wg) •OGSA Resource Usage Service WG (rus-wg) 	<ul style="list-style-type: none"> •Usage Record WG (ur-wg)
Security	<ul style="list-style-type: none"> •Firewall Issues RG (fi-rg) •OGSA Authorization WG (ogsa-authz-wg) 	<ul style="list-style-type: none"> •Levels of Authentication Assurance Research Group (loa-rg)

Group の新設と消滅(2007/6以降の変更)

● 新設

- ▶ Remote Instrumentation Services in Grid Environment - RG (risge-rg)

● 消滅

- ▶ Grid Checkpoint Recovery WG (gridcpr-wg)
- ▶ Application Contents Service WG (acs-wg)

● 名称変更

- ▶ OGSA High Performance Computing Profile WG (ogsa-hpcp-wg)
↓
▶ High Performance Computing Profile WG (hpcp-WG)

● OGF21のBOF

- ▶ 今回は0件

今後の予定

OGF22

- ▶ February 25-29, 2008
- ▶ Hyatt Regency Cambridge, Cambridge, MA
- ▶ Life Science/Pharma and Financial Services sessions in industry
- ▶ Multi-day workshop for data management issues in both research and industry with SNIA

OGF23

- ▶ June 2-6, 2008
- ▶ Barcelona, Spain

OGF24

- ▶ September 15-19, 2008
- ▶ Singapore