

フラグシップアーキテクチャOGSA®の最新状況

OGSA-WGおよび関連するWGの状況

20 December, 2007

グリッド協議会 第4回Grid Hotline

OGSA-WG 共同議長 岸本光弘(富士通)

OGSA is a registered trademark and service mark of the Open Grid Forum

アウトライン



- Open Grid Services Architecture とは
- イベント(会議、電話会議)
- ドキュメント
- 優先作業項目
- 今後の予定
- お願い

OGSAとは



- サービス指向のアーキテクチャ
- 交換可能な, コンポーネント指向アーキテクチャ
 - コンポーネントは交換・組み合わせ可能
- 分散環境における, メタOS機能を定義
- Webサービスが規定する各種技術・仕様を利用

SOAとWeb Servicesの利点

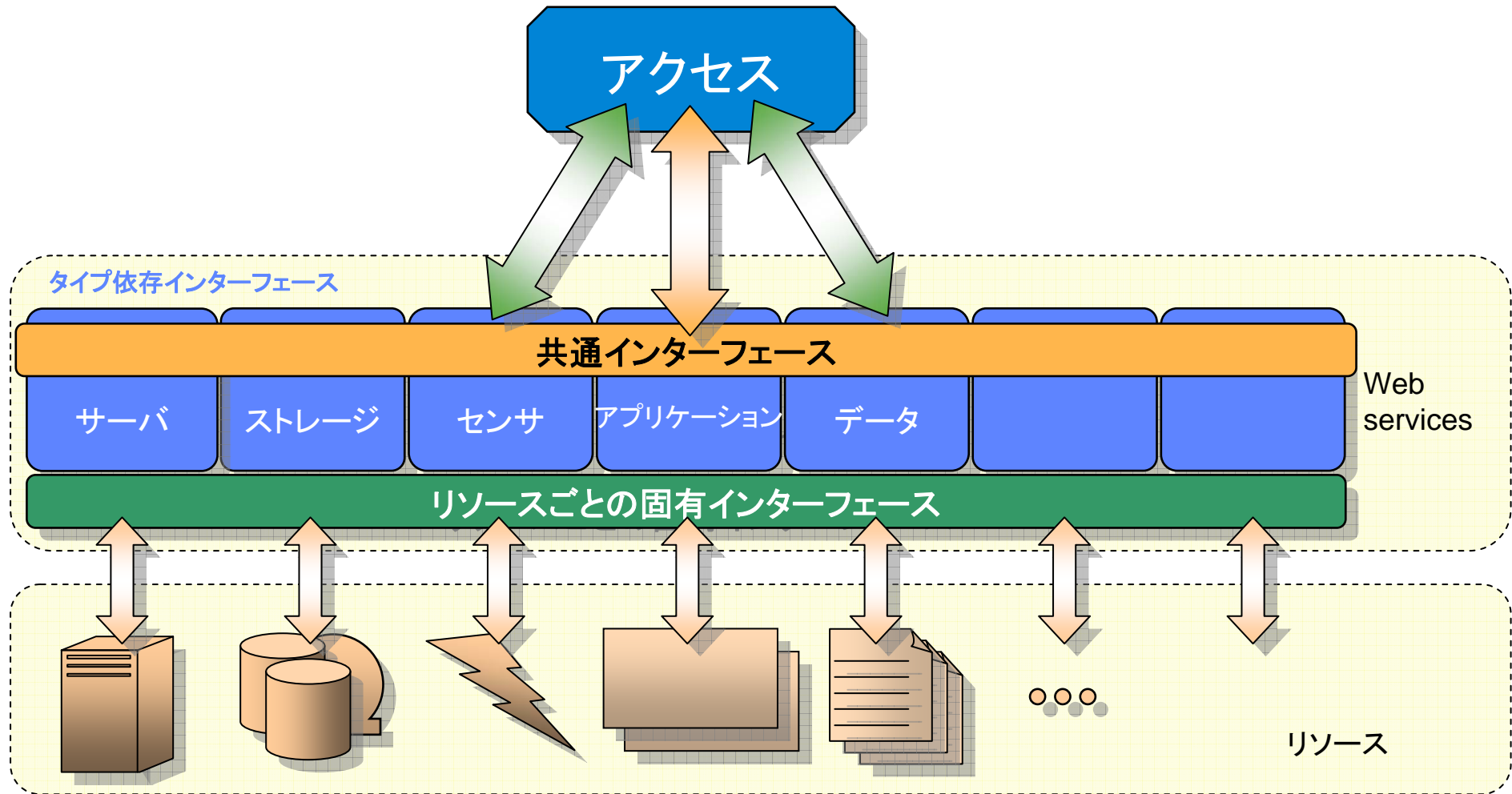
SOA

- 柔軟性
 - 必要なサービスを動的かつ位置透過に利用できる
- スケーラビリティ
 - 必要に応じてサービスを追加・削除
- 置き換え可能
 - ユーザに知らせず、提供サービスを更新可能
- 高可用性
 - 障害発生時には、代替サービスに切り替え

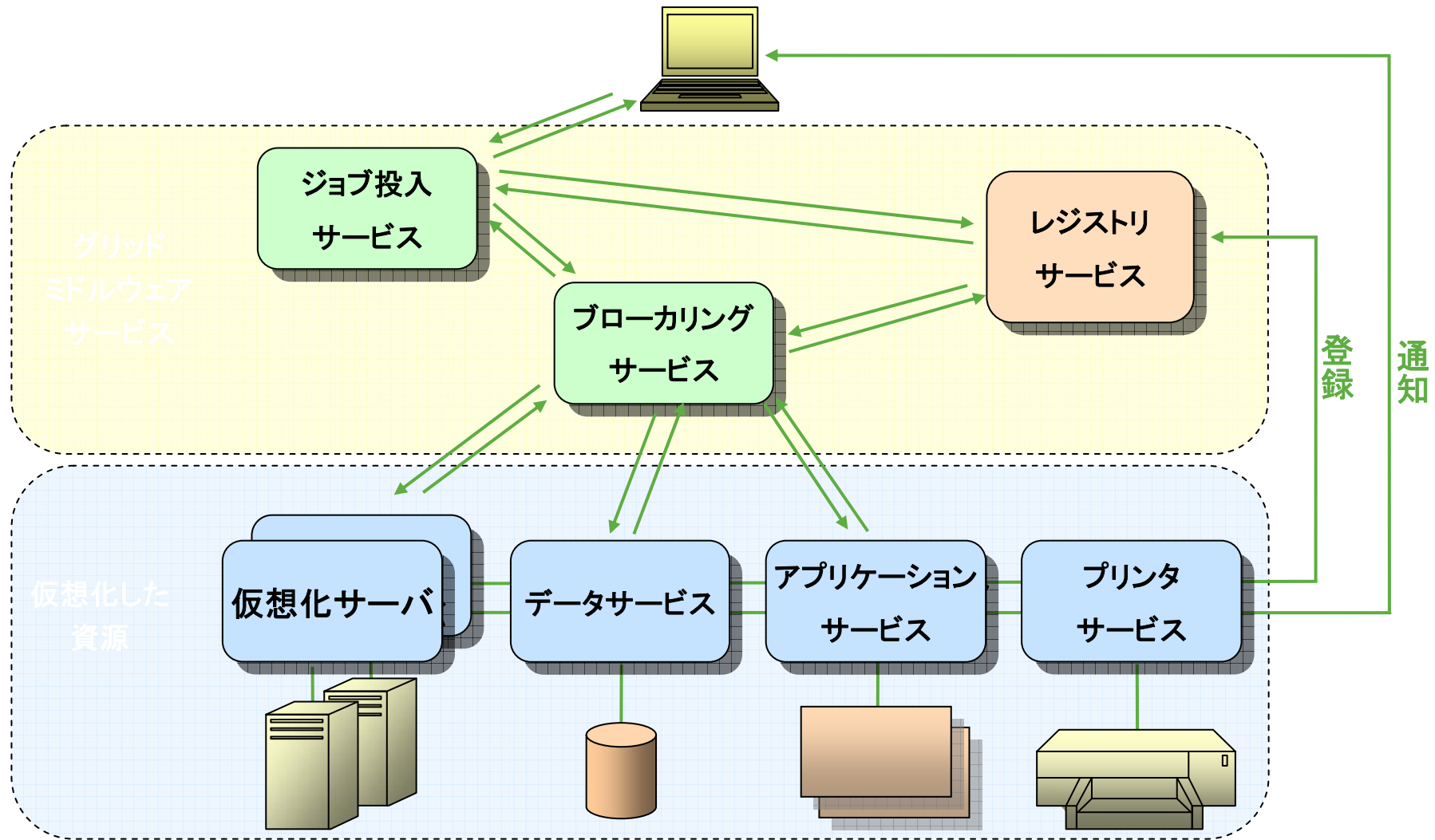
Web Services

- 相互接続性確保
 - 多数の国際標準仕様
- 有力ベンダが強力に推進
 - 完成度の高い開発ツール
 - 書籍やトレーニングなどの教育支援
- 選択と拡張
 - 利用可能な既存仕様を選択し採用
 - 不足機能だけ、グリッド向けの拡張仕様を開発

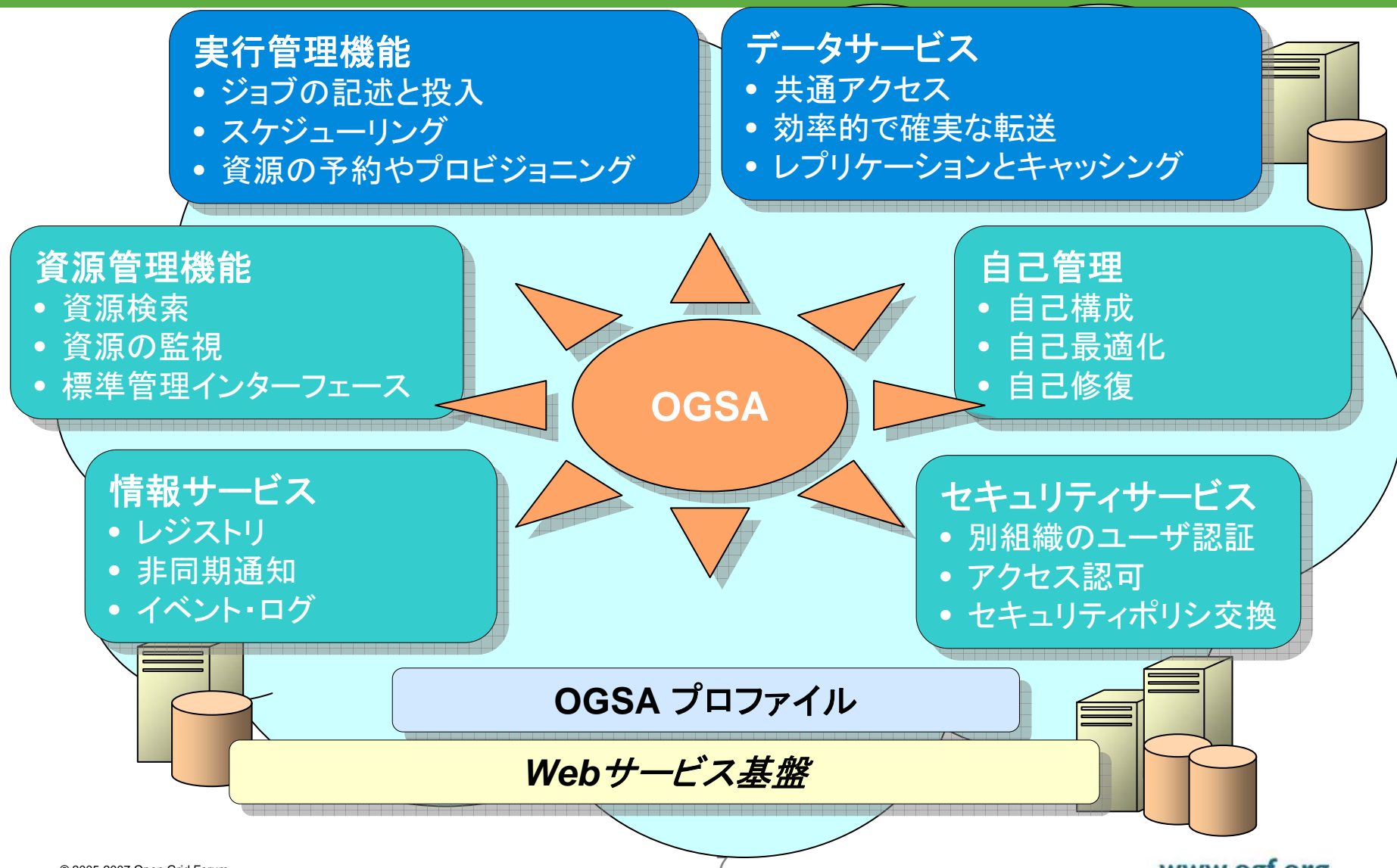
リソースの仮想化



サービス指向のグリッド

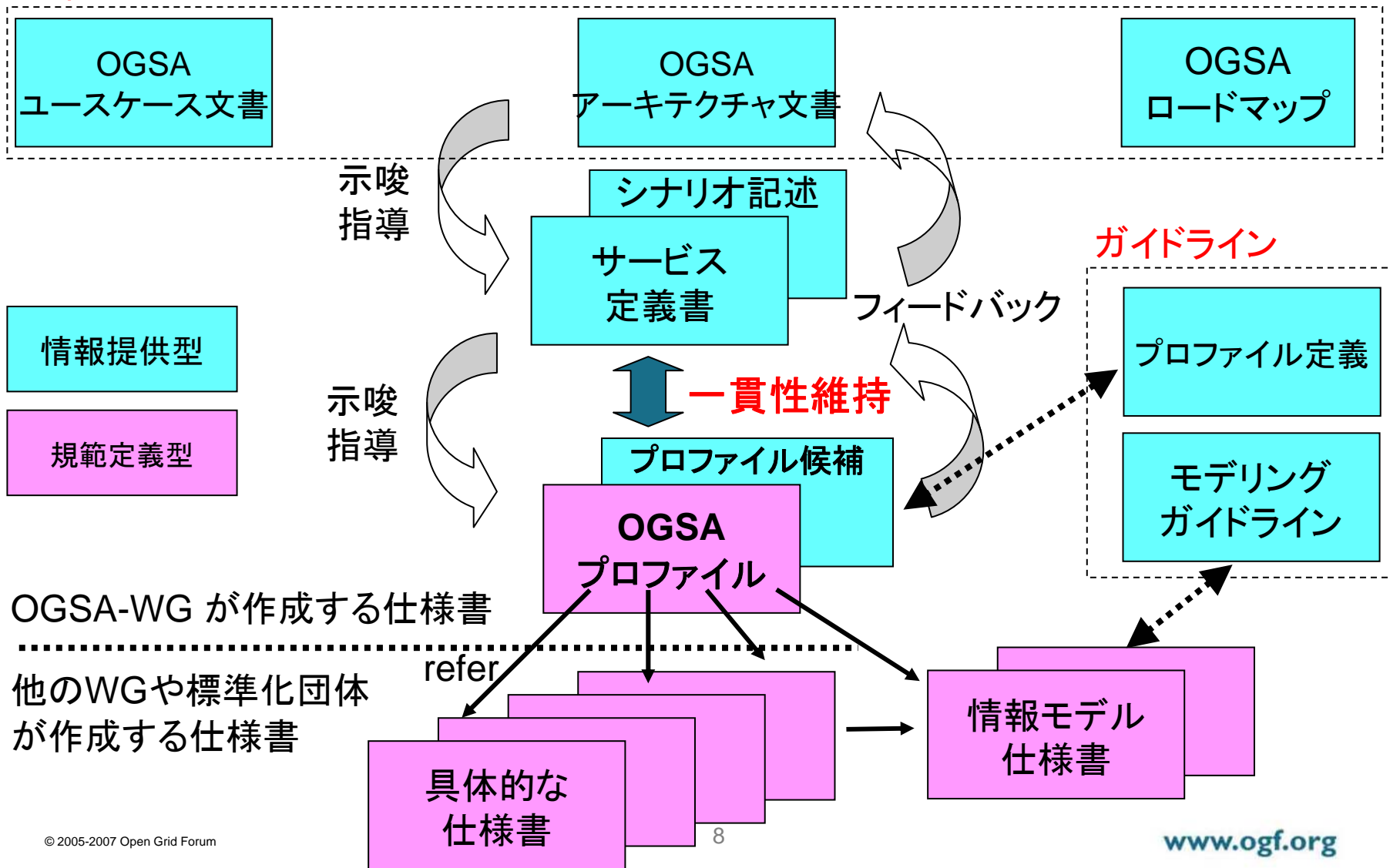


OGSAの6つの主要機能

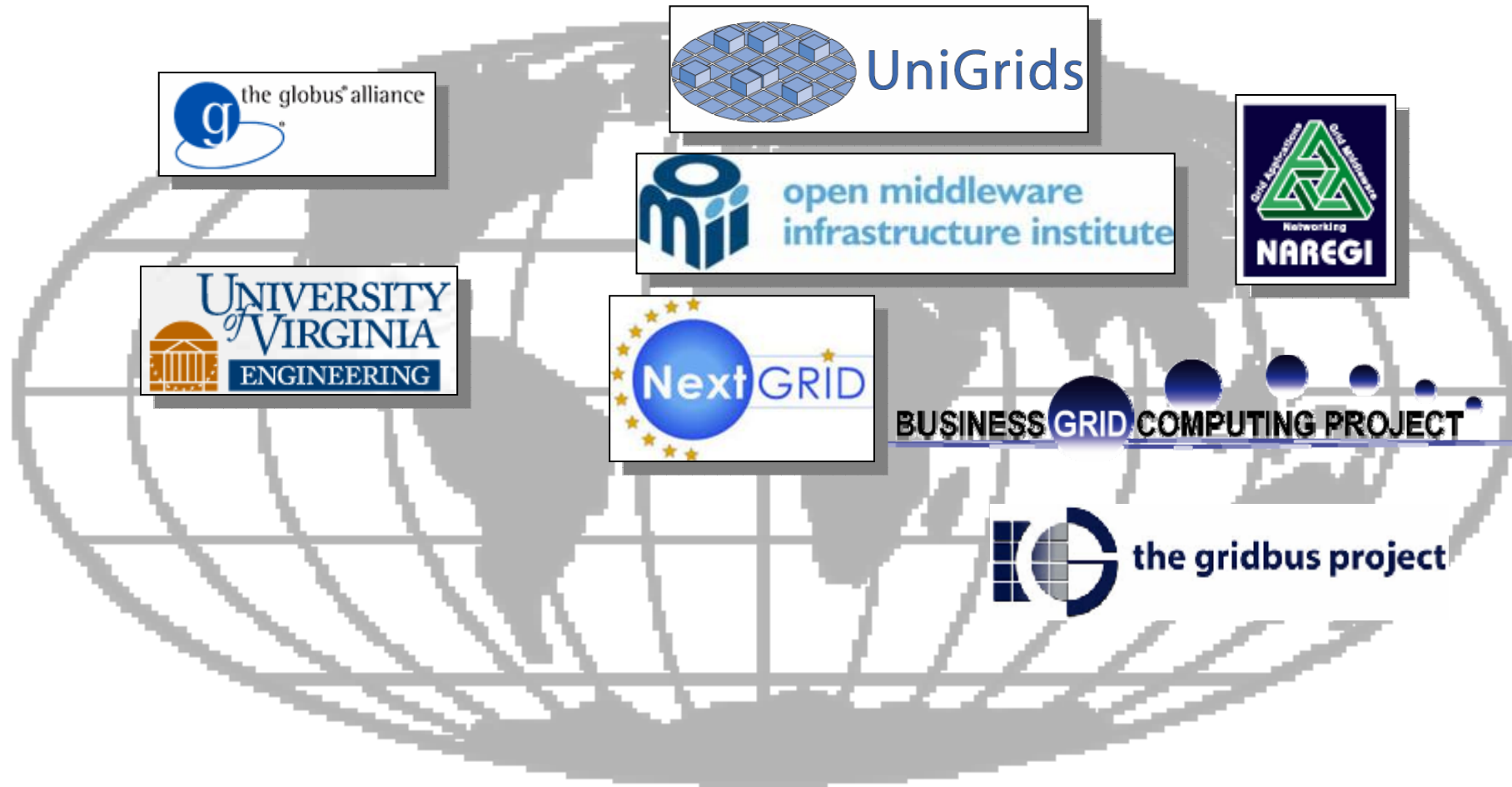


OGSAの仕様書体系

基準文書



OGSAに準拠したグリッドプロジェクト



共同議長の交代

Tom Maguire (EMC)から
Andrew Grimshaw (Univ. of Virginia)へ

OGSA-WG Chairs

| Chair | Start Date | End Date |
|-----------------|------------|----------|
| Dennis Gannon | 9/2002 | 6/2003 |
| Jeff Nick | 9/2002 | 9/2004 |
| Ian Foster | 9/2002 | 6/2005 |
| Hiro Kishimoto | 6/2003 | ... |
| Tom Maguire | 6/2005 | 11/2007 |
| Andrew Grimshaw | 11/2007 | ... |

OGSA-WG Secretaries

| Secretary | Start Date | End Date |
|---------------|------------|----------|
| Ian Foster | 9/2002 | 6/2004 |
| Andreas Savva | 6/2004 | ... |

OGSA is now registered trademark



1. **The first use of OGSA mentioned in communications must be identified in a footnote or attribution.** The attribution should be located either on the page/screen where the OGSA is first used, or in the legal section of the document or web site in which it is referenced.
 - If necessary, **GFD should have "Trademarks" section** which states "OGSA is a registered trademark and service mark of the Open Grid Forum" in its title page.
2. The **first reference** in text to OGSA should be followed by the proper trademark symbol. The proper symbol for registered trademark is ®.
 - On and after second use of OGSA must not have the trademark symbol.
 - Document title is an exception. If necessary, document title may have the trademark symbol.
3. OGSA should be used as an **adjective qualifying a noun** that is a generic description of architecture or specifications. OGSA should only be used in a **singular form**.
 - Examples: The OGSA Architecture defines interoperable web services that support operation and management of grid computing resources ...
4. Do not change the form or representation of OGSA, including **capitalization or punctuation**.

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イベント

- OGF21 (10/15-19)
 - Seattle Grand Hyatt
 - 5 sessions
- OGSA-WG F2F (10/19)
 - Seattle Grand Hyatt
- 電話会議
 - 毎週火曜日 (7~9am)と木曜日 (10pm~midnight)

OGF21 (10/18)



- OGSA Profile interop
 - 公開済みのOGSA profileの実装システム間の相互接続試験
 - OGSA WSRF BP 1.0 のみ
- OGSA information/data modeling
 - JSDL/BES/GLUEの関係、OGSAにおける位置づけ
- OGSA workflow
 - workflowに関する標準化の必要性・現実性
- OGSA Express Authentication Profile
 - 必要最小限の認証サービス
- OGSA Information Services
 - Information Services標準化の活動開始

OGSA Profile interop



- Participant
 - Univ. on Virginia (Genesis II)
 - UNICORE, Jülich Supercomputing Centre
 - Globus
 - Imperial Collage (GridSAM)
 - Fujitsu Laboratories in Europe (USMT)
- Test
 - Get ResourcePropertyNames using specified operations
 - Get FinalWSResourceInterface using specified operations
 - Get WSResourceInterfaces using specified operations
 - Get ResourceEndpointReference using specified operations
 - Destroy the service
 - Use SetTerminationTime to terminate the service
 - Base Faults
 - Subscribe

OGF20 F2F (10/19)



- OGSA Express AuthN profile
- OGSA primer
- OGSA EMS scenario 1.1
- Service Level Term
- General session
- OGSA DMI report out

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GGF21以降に正式公開されたドキュメント



- Execution Environment and Basic Execution Service Model in OGSA[®] Grids (GFD.119)
 - E. Stokes, IBM
 - OGSA BESの情報モデルを定義し、DMTF CIMの拡張を提案
- Open Grid Services Architecture[®] Glossary of Terms Version 1.6 (GFD.120)
 - Jem Treadwell, HP
 - OGSA Data Architecture, Reference Model関連を追加した用語集の改定版
- OGSA[®] Data Architecture (GFD.121)
 - Dave Berry, NeSC
 - Allen Luniewski, IBM
 - Mario Antonioletti, EPCC
 - OGSA Data Serviceのサービス概要

- Guidelines for Information Modeling for OGSA[®] Entities
 - 情報モデルとは何か、APIとの関係は、どうやって定義するかを説明
- Defining the Grid: A Roadmap for OGSA[®] Standards v1.1
 - 関連仕様書の開発ロードマップの改定版

- OGSA[®] Resource Selection Services: Specification
 - Experimental Document
 - Donal Fellows, Univ of Manchester
 - PC end: 8 Jan, 2008

Document schedule (1)



| Document name | Milestones | Current Plan |
|-------------------------------------|--------------|--------------|
| OGSA EMS Architecture scenarios 1.1 | First draft | Nov. 2007 |
| | Ready for PC | Feb. 2008 |
| | Publication | Apr. 2008 |

- HPC Basic Profile and extensions
- JSDL specified File Transfer
- DMI specified File Transfer

completed

delayed

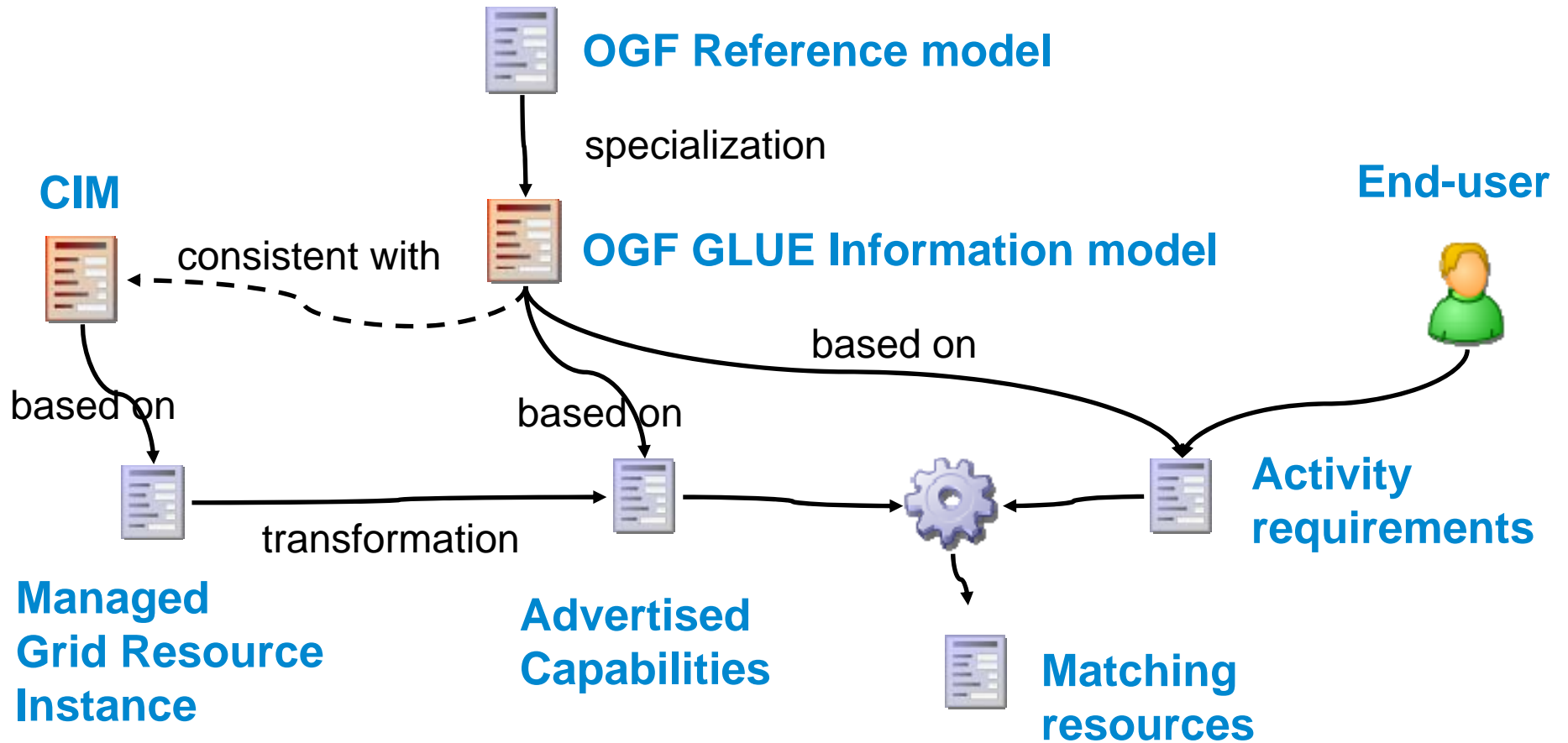
Document schedule (2)



| Document name | Milestones | Current Plan |
|---|--------------|--------------|
| Guidelines for Information Modeling for OGSA Entities (explain necessary process) GFD-I | First draft | Jan. 2006 |
| | Ready for PC | July 2007 |
| | Publication | Jan. 2008 |
| OGSA™ information modeling architecture (GFD-I) | First draft | Oct. 2007 |
| | Ready for PC | Jan. 2008 |
| | Publication | March 2008 |

Glue 2.0 & Reference Model 2.0と同時公開予定

OGSA Information Modeling Architecture

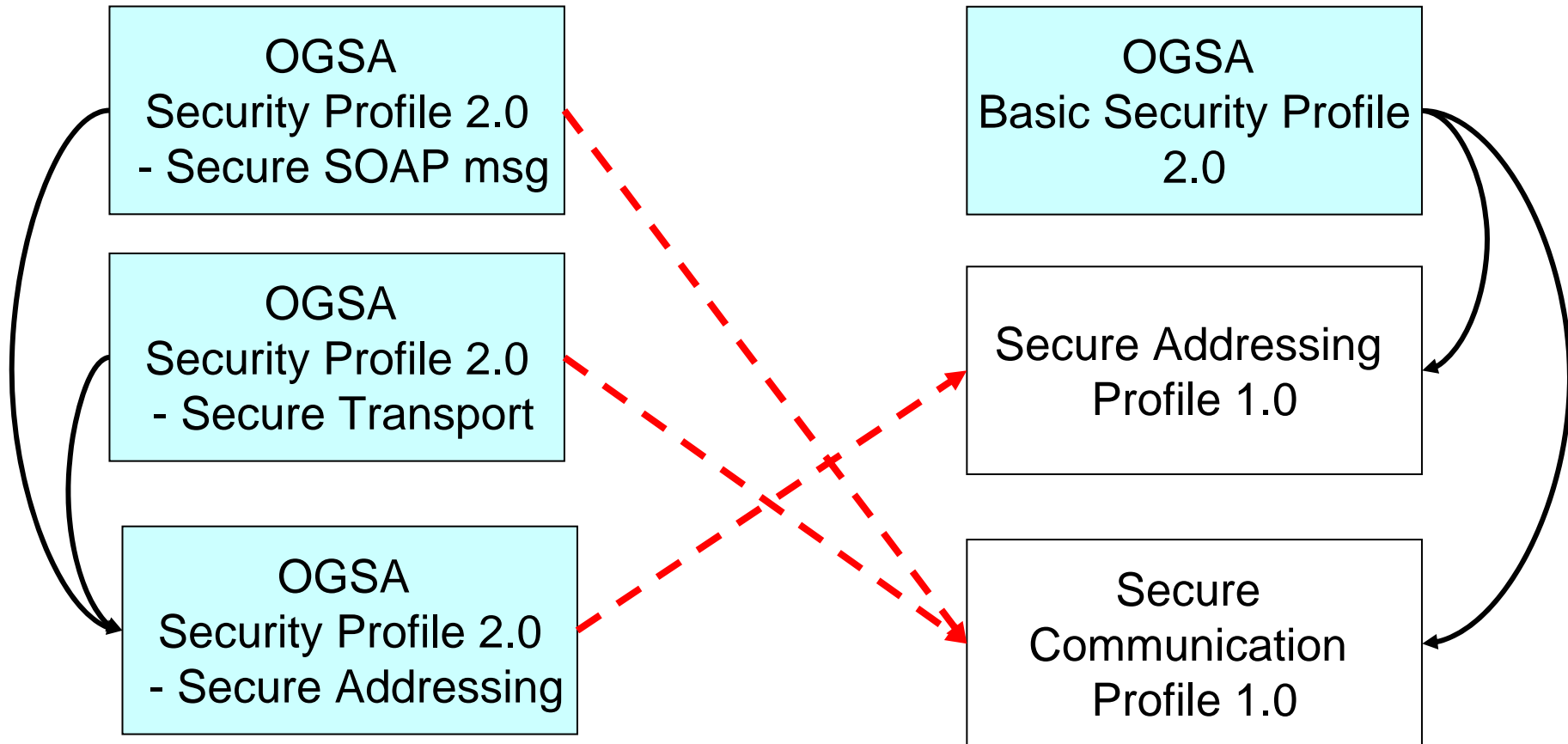


Document schedule (3)



| Document name | Milestones | Plan |
|----------------------------------|--------------|-------------|
| Grid Security Use-Cases 1.0 | First draft | May 2007 |
| | Ready for PC | ?? |
| | Publication | ?? |
| Secure Addressing Profile 1.0 | First draft | May 2007 |
| | Ready for PC | Dec. 2007 |
| | Publication | March. 2008 |
| Secure Communication profile 2.0 | First draft | May 2007 |
| | Ready for PC | Dec. 2007 |
| | Publication | March. 2008 |
| OGSA Basic Security Profile 2.0 | First draft | May 2007 |
| | Ready for PC | Jan. 2008 |
| | Publication | April 2008 |

OGSA Security Profile 2.0



Document schedule (4)



| Document name | Milestones | Current Plan |
|--|--------------|--------------|
| Interoperability Testing for OGSA WSRF Basic Profile 1.0 | First draft | Feb. 2008 |
| | Ready for PC | March 2008 |
| | Publication | May 2008 |

completed

delayed

Document schedule (5)



| Document name | Milestones | Current Plan |
|---|--------------|--------------|
| OGSA workflow community practice | First draft | TBD |
| | Ready for PC | TBD |
| | Publication | TBD |
| OGSA Service Level Terms community practice | First draft | TBD |
| | Ready for PC | TBD |
| | Publication | TBD |

completed

delayed

OGSA primer



- OGSA roadmap document fails to give big picture of OGSA activity
- Provide introduction material to general public
- 5 to 10 pages long article (not GFD)
- Target publications include IEEE Computer, IEEE Internet computing, ACM Communications, or InfoWorld

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- **優先作業項目**
 - Close to completion
 - Full speed
 - Taking off
- 今後の予定
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Tasks: Close to complete



- Security - **Monday**
 - Express AuthN Profiles
 - Duane Merrill and Andrew Grimshaw
 - Joint calls with OGSA-AuthZ-WG and OGSA-AuthN-BoF
 - Joint call don't go well recently

Tasks: Full Speed



- Info/data modeling - **Thursday**
 - Ellen Stokes
- OGSA primer - **Thursday**
 - Andrew Grimshaw
- OGSA Profile interop – **Dec. 10 (1st slot)**
 - David Snelling
- EMS scenario 1.1 – **Monday 1st slot**
 - Steven Newhouse and Andreas Savva

Tasks: Failure to launch



- OGSA workflow - **Thursday**
 - Steven McGough
- Service Level Terms - **Thursday**
 - Steve McGough and Andrew Grimshaw
- Information Services - **Thursday**
 - Laurence Field, Felix Ehm

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OGSA-19 (1/9-11, 2008)



| Wed 1/9 | Thu 1/10 | Fri 1/11 |
|--|---|---|
| 09:00 OGSA-DMI update = | 09:00 OGSA strategy (OGF and OGSA) = | 09:00 Basic Security Profile 2.0 = |
| 10:30 EMS scenario 1.1 = | 10:30 WS-kitchen sink = | 10:30 Service Level Terms = |
| 13:00 OGSA primer = | 13:00 - Demo = | 13:00 information services = |
| 14:00 WS-naming update = | 13:30 Administrative OGF22 F2F telecon = | |
| 15:00 Info/data modeling architecture = | 14:30 WSRF BP profile interop = | |
| | 15:30 Role of interop discussion = | |

Imperial Collage, London

OGF22 sessions



- Hyatt Regency Cambridge
- Cambridge, MA USA
- February 25-29, 2008
- At most three sessions (all 90 minutes)
 - Info/data modeling architecture
 - OGSA EMS scenarios v1.1
 - OGSA profiles Interop presentation

OGF22 F2F meeting



- Feb. 29 (Fri) at Hyatt Regency
- Possible sessions
 - Information Services workshop

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お願い



- Public Comment中のドキュメントを読んで、コメントを寄せてください
 - OGSA[®] Resource Selection Services: Specification

Thank you

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