Supporting Content Provision in Environmental Information Infrastructures

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Conclusion

Deployment is the main bottleneck in sharing environmental content. We propose a solution: The GEOSS Service Factory (GSF). Deployment of simulations/models remains challenging. We test(ed) implementations in for EFFIS. Security issues remain to be addressed.
EII – Use Cases

END USER

search

View & download

exploit

content

register

deploy

PROVIDER
EII – Use Cases

- search
- View & download
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END USER

PROVIDER
EII – Architecture
EII – Architecture extended (with GSF)
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- Deploy as a Service
- Data as a Service
- Model as a Service
- Warning as a Service

Applications
- Workflow Engine
- Application Logic
- Service Connector

- Warning Services
- Processing Services
- Data and Metadata Services
- Discovery
- View
- Download

(GEOSS) Service Factory

Geospatial Content
EII – Architecture extended (with GSF)

Applications
- Workflow Engine
- Application Logic
- Service Connector

Warning Services
- Warning as a Service

Processing Services
- Model as a Service

Data and Metadata Services
- Data as a Service
  - Discovery
  - View
  - Download

(GEOSS) Service Factory

Geospatial Content

register
How may we provide models in EII's? (1/4)
How may we provide models in Ells? (1/4)
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Challenges
No information on model semantics
How may we provide models in EII? (1/4)

Challenges
- No information on model semantics
  > Might use EII community vocabulary
How may we provide models in Ells? (2/4)
How may we provide models in EIs? (2/4)

deploy
How may we provide models in EIs? (2/4)

deploy

register
How may we provide models in Ells? (2/4)

Challenges

- Metadata for model discovery, evaluation, and use
- Practical problem of obsolescence
How may we provide models in Ells? (3/4)
How may we provide models in Ells? (3/4)
How may we provide models in Ells? (3/4)

deploy

register
How may we provide models in Ells? (3/4)

Challenges
- Metadata for model discovery, evaluation, and use (also easier)
- Limitation of execution languages, e.g. BPEL
How may we provide models in EIs? (4/4)
How may we provide models in Ells? (4/4)
How may we provide models in EIIs? (4/4)
How may we provide models in Ells? (4/4)

Challenges
- Metadata for component discovery, evaluation, and use
- Diversity of required operating systems, programming languages, etc.
Summary and Conclusion

**Deployment** is the main bottleneck in sharing *environmental content*. We propose a solution: The **GEOSS Service Factory** (GSF)

*Deployment of simulations/models remains challenging*

We test(ed) implementations in for EFFIS

**Security** issues remain to be addressed
Summary and Conclusion

Deployment is the main bottleneck in sharing environmental content. We propose a solution: The **GEOSS Service Factory** (GSF). Deployment of simulations/models remains challenging. We test(ed) implementations in for EFFIS. Security issues remain to be addressed.

> Our requirements ‘related to Infrastructures and Platforms as a Service’
Thank you for your attention!

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