Language Grid Bangkok and Its Service Networking

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Language Grid Networking

• Platform for sharing language resources and services
• Developed by the Service Grid Initiative
• Operated by several centers
  – Kyoto, Japan (http://langrid.org/)
  – Bangkok, Thailand (http://servicegrid-bangkok.org/)
  – Jakarta, Indonesia (http://langrid.cs.ui.ac.id/langrid-2.0/)
  – Turin, Italy (http://www.linguagrid.org/)
• Based on SOAP protocol
International Workshop on Worldwide Language Service Infrastructure, Kyoto University, October 13, 2013
Benefit

• Sharing resources and services
• Unifying service communication
• Utilizing standard SOAP protocol
• Access control
• Auditing
• Usage regulation
Language Services (providers)

- Thai Computational Linguistics Laboratory 15 services
- National Electronics and Computer Technology Center (NECTEC) 10 services
- Knowledge Information & Data Management Laboratory (KINDML) 7 services
- ASEAN MT Group 6 services
Language Services (types)

- 38 nodes of language services
  - Concept Dictionary  14
  - Translation        10
  - Language Identification  5
  - Paraphrase        3
  - Morphological Analysis  2
  - Bilingual Dictionary  2
  - Pictogram Dictionary  1
  - Text To Speech   1
Service Awareness

- Service recruitment
  - Roadshow
- Web service wrapper development
  - Workshop, Hands on training
  - Contest
- Mashup service development
  - Mashup service interface
  - Mashup service developer guide
- QoS
- Service grid participation contract
Open Standards Principles

• Everyone should be free to implement open standards in both proprietary and open source software.
• Open standards should be available to everyone on royalty-free terms.
• Open standards should be developed using a collaborative, balanced, and consensus-based approval process.
• Open standards should be developed under formal and binding commitments for the disclosure and licensing of copyrights and patent claims.
• Open standards should be made available under reasonable reciprocal licenses that require licensees to share under the same terms their own patent claims reading on the standard.
• The specifications for open standards should be available to everyone on open source copyright license terms.

Defining Open Standards, Lawrence Rosen, Rosenlaw & Einschlag

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Framework for Open API Development

- Cultural Heritage
- Agriculture
- Healthcare
- Thailand One Click

Services (GUI for Mashup, Analogy, Complementary, etc.)

Contents (LOD)

Tools (Open API)

Platform (Billing, Repository, Registry, Authentication, etc.)

Infrastructure (Cloud, InterCloud, Stability, Expsansibility, Big Data, etc.)

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API Market Place
http://www.apidd.com/

API Discovery and Distribution
The marketplace where you can explore public APIs and publish both public and private ones.

Empowering 18 APIs
Target Group

• User
  – Obtain various data and service via APIs

• Programmer
  – Expose applications in terms of service APIs

• Mashup Programmer
  – Mashup to create innovative solutions
Use Cases

General Public/App Developers

Explore
- easily search or browse APIs

Register
- no need to register again and again for each new API

Expose
- bring your creation to the mass

Try it now
- try it out instantly

Mashup
- mix & match to create new apps

Buy
- buy with confident using Paypal or credit cards

Use
- use it internally
Use Cases

Mashup
- mix & match to create new services

Register
- tell us about your new API

Distribute
- tell the world about your services

Monetize
- customize flexible billing plans

Explore
- easily search or browse APIs

Software house/Service&Content Developers

Monitor
- health check with notifications
Thailand One Click
--An example of implementation in Tourism Domain--
API Marketplace
(User-centric Service Creation Platform)

- Eliminate difficulties in managing the provided research solutions
- Selective service packages
- Efficiency in further solution development
- Benchmark for research and improvement