

BBN Technologies

DAML Integration Contract

GFY – 04 Overview

Presented at the
DARPA DAML PI Conference
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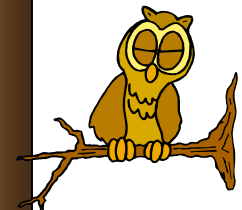
Mike Dean



Jeremy Lerner



Ryan Owens
(InfoEther)



- Overview of the goals and deliverables of your 2004 project
- Current functionality and IP status with respect to your deliverables
- Will your software deliverables be on SemWebCentral? When?
- What are your plans to wrap up and finish (projected status at end of 2004)?

- OWL Support
 - Support through to Full Recommendation
- Services
 - Develop approach
 - Tools, demonstrations & documentation
 - Support development of specification
- Rules
 - Derive Rules specification
 - Support W3C standardization efforts
 - Open Source authoring tools & documentation
- Tools
 - Professional quality Open Source web site
 - Easy to use straight forward collection of tools
 - Useful ontology registry

- Participated in W3C Web Ontology WG
- Co-editor of OWL Reference (Mike Dean)
- Our role essentially complete with W3C Recommendation milestone

W3C Recommendation 10 February 2004

- Participate in DAML Services Coalition
 - OWL-S version 1.0 released
 - Version 1.1 due by 01 June
- Co-chair SWSI Architecture Committee (Dr. Mark Burstein)
 - Draft requirements document now available
 - SWSA Note by September 30

- Chair Joint Committee (Mike Dean)
 - SWRL 0.5
 - SWRL 0.6
 - W3C Member Submission
- RuleML Steering Committee
- XML Schema for SWRL 0.6 XML Concrete Syntax
- SWRL -> CLIPS translator
 - Will be moved to SemWebCentral
- Use of SWRL for ontology translation (CODE Project)

- DAML Tools Assessment
 - Delivered Tools Assessment document
 - On-line/interactive OWL version available at SemWebCentral
- Open Source site for SW Developers
 - Designed, developed & built SemWebCentral
 - Launched on 30 January 2004
 - Currently hosting 23 projects
- Packaged several BBN developed tools as Open Source projects and moved SemWebCentral
 - Dumpont
 - Hyperdaml
 - owl-emacs
 - owl-vim
 - ObjectViewer
 - OWL Validator
 - Kazuki

- SWeDE
 - Custom perspective in Eclipse for managing and sharing Semantic Web resources between plug-ins
 - OWL Development toolkit to support
 - generation, editing & validation of ontologies & instance data
 - automatic generation of Java API classes
 - extension points for integration of tools for completing more Semantic Web workflows
- Other Semantic Web sites maintained
 - daml.org
 - infospherics.org

Transition

(the 5th objective)

- JBI (Joint Battlespace Infosphere)
 - OWL-based subscription matching using JESS into the JBOSS-based JBI 1.0.1 Platform
 - Demonstrated result for the Air Force Scientific Advisory Board review
- Combine
 - IC Customer
 - WWW data retrieval, analysis & management
 - Combination of structured & unstructured
 - Co-reference resolution
- CODE (Common Ontological Data Environment)
 - IC Customer
 - Exploit SW technology for operational use across analysis domains
 - Proof of concept demonstrations last month (April 04)
 - Integrated into COTS GIS system
 - 5 data sources (including MIDB)
 - Dramatic reduction in data preparation time (data matching and deconfliction)
 - Initial implementations of rule-based analysis using SWRL
 - Transition program in planning

- Services
 - SWSI Notes
 - SWSI Example
 - Wrap up by end of September
- Rules
 - Test Cases
 - SWRL Editor
 - SWRL to Jena 2 translator
 - SWRL Validator
- Tools
 - SemWebCentral.org
 - Expanded SWeDE functionality
- Transition
 - Transition IC efforts to new contract vehicles
 - Follow-up with potential new DoD transition opportunities

- All Open Source
- All on SemWebCentral