

Initial cut at full paper submission outline for “Social Semantics Special Issue”

ABSTRACT	2
INTRODUCTION	2
XDI AS A DESCRIPTION LOGIC	2
CORRECTNESS	2
CONSISTENCY	2
SETS VS. CLASSES AND INSTANCES.....	2
<i>Core dollar words: \$has, \$is, \$a</i>	2
<i>Using sets to define relationships</i>	2
<i>Community and Individual vs. Class and Instance: A subtle but powerful distinction</i>	2
DOLLAR WORDS	2
<i>\$has for composition through set membership</i>	2
<i>\$has for qualification through set membership</i>	2
<i>The semantic relationship between \$has, \$is, and \$a</i>	2
KEY DIFFERENTIATORS.....	2
<i>Semantically Meaningful Identifiers</i>	2
<i>Identifier Resolution as Assertion</i>	2
<i>Sets allow Classes to be predicates</i>	2
<i>Sets mean no collection classes like Bag, Set, or List</i>	2
<i>Ordered sets expressible in XDI</i>	2
XDI: FOUNDATIONAL FOR THE SEMANTIC SOCIAL WEB	3
I-NAMES: SEMANTIC SOCIAL IDENTIFIERS FOR INDIVIDUALS AND COMMUNITIES.....	3
SMART XRI RESOLVERS FOR PUBLISHING/SUBSCRIBING OF SOCIAL DATA.....	3
PERSONAL DATA EXCHANGE	3
ONGOING WORK	3
XDI ENTAILMENT RULES	3
PERSONAL DATA EXCHANGE	3
STANDARDIZED METHOD FOR EFFICIENT LEGACY ONTOLOGY REUSE	3
OASIS XDI AND XRI TECHNICAL COMMITTEES	3
PDX.ORG	3
RELATED WORKS	3
COLLABORATIVE NOT COMPETITIVE	3
<i>XDI and RDF</i>	3
<i>XDI and OWL DL</i>	3
<i>XDI and OWL 2</i>	3
ONTOLOGY USE WITHIN XDI	3
<i>Reusing an upper ontology like SUMO, BFO, OpenCyc</i>	3
<i>Reusing a domain ontology like SKOS, SIOC</i>	3
CONCLUSIONS	3
COLLABORATIVE WITH OWL, NOT COMPETITIVE.....	3
BENEFITS FROM XDI’S DIFFERENTIATORS	3
A SUMMARY OF OPEN ISSUES	3
ACKNOWLEDGEMENTS	4

Abstract

Introduction

XDI as a Description Logic

Does this title throw down the gauntlet too much and hence need softening, am on the fence about that myself – Bill.

Correctness

Consistency

Sets vs. Classes and Instances

Core dollar words: \$has, \$is, \$a

Using sets to define relationships

Community and Individual vs. Class and Instance: A subtle but powerful distinction

Dollar words

\$has for composition through set membership

\$has for qualification through set membership

The semantic relationship between \$has, \$is, and \$a

I'd insert a revised (if needed) triangle diagram from Drummond here with some exposition afterward.

Key Differentiators

Semantically Meaningful Identifiers

Identifier Resolution as Assertion

Sets allow Classes to be predicates

Sets mean no collection classes like Bag, Set, or List

Ordered sets expressible in XDI

See slides on addressing each element in a group

XDI: Foundational for the Semantic Social Web

i-names: Semantic Social identifiers for individuals and communities

Smart XRI Resolvers for Publishing/Subscribing of Social Data

Personal Data Exchange

Ongoing Work

XDI Entailment Rules

Personal Data Exchange

Standardized method for efficient legacy ontology reuse

OASIS XDI and XRI Technical Committees

PDX.ORG

Related Works

Collaborative not Competitive

XDI and RDF

XDI and OWL DL

XDI and OWL 2

Ontology Use Within XDI

Reusing an upper ontology like SUMO, BFO, OpenCyc

Reusing a domain ontology like SKOS, SIOC

Conclusions

Collaborative with OWL, not competitive

Benefits from XDI's Differentiators

A Summary of Open Issues

Acknowledgements