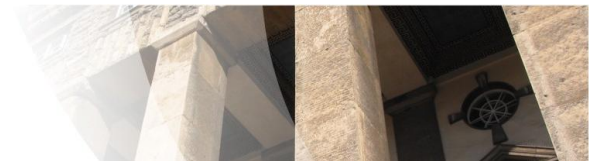


Social Service Brokerage based on UDDI and Social Requirements

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Agenda

- Rationale
- UDDI-based Service Search
- Social Requirements
- Social Service Broker
- Conclusions

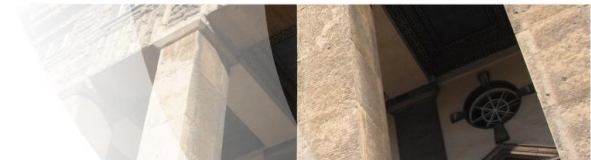


Rationale

Service-Oriented Architecture

A paradigm for organizing and utilizing **distributed capabilities** that may be under the control of **different ownership domains**

OASIS SOA Reference Model



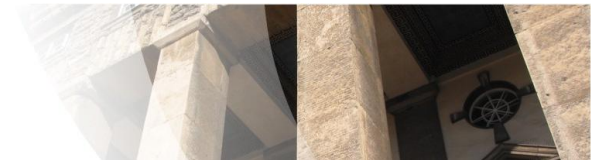
Social Networks

- Facebook, Twitter, Flickr, etc.
- Future employee search
 - Using the employees' social network
 - More than 50% cases
 - 53% (Holzer, 1987)
 - 60% (Bewley, 1999)



Our Research Goal

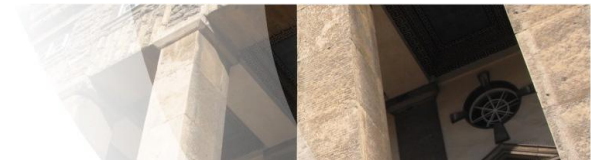
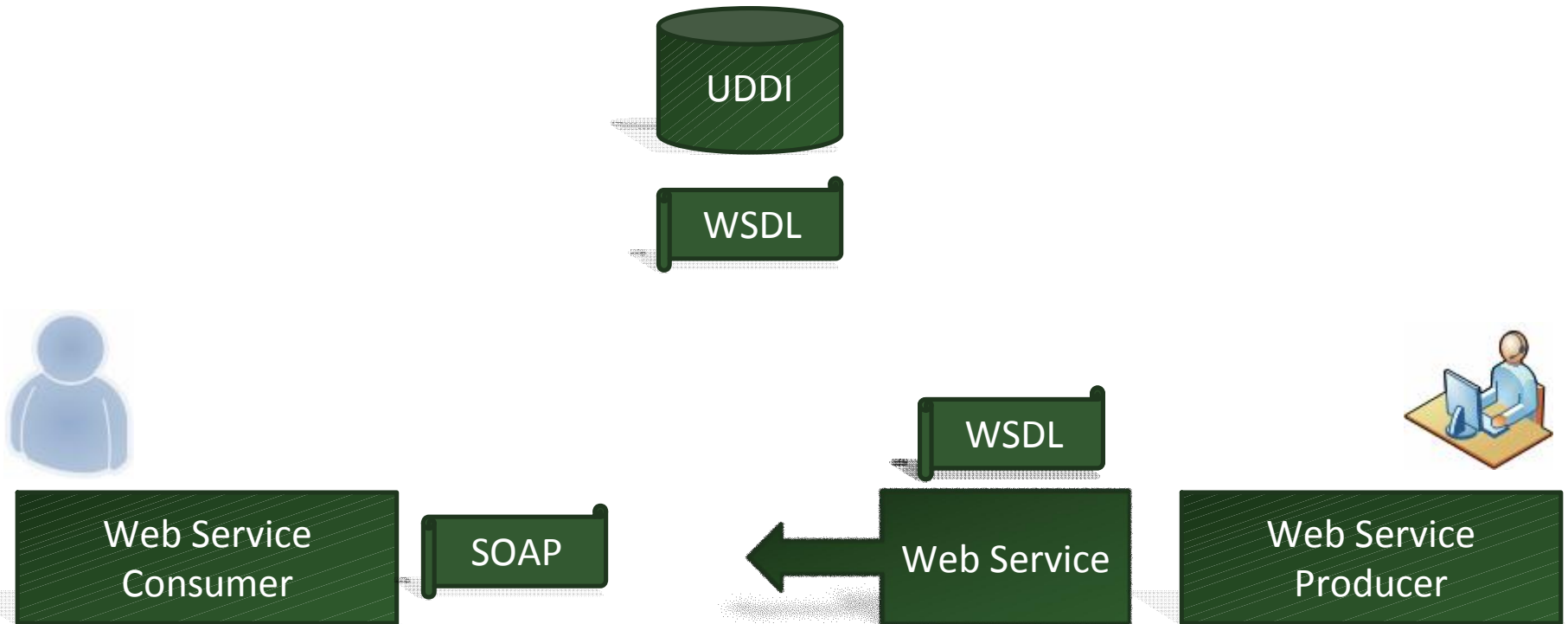
- Service search
 - For VO creation
 - For VO adaptation
- Search criteria
 - Functional requirements
 - Social requirements



UDDI-based Service Search

A WS* World

UDDI-WSDL-SOAP



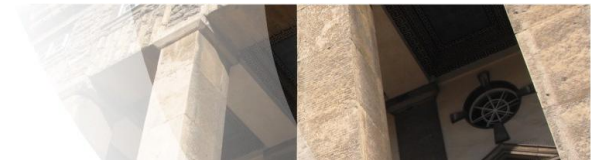
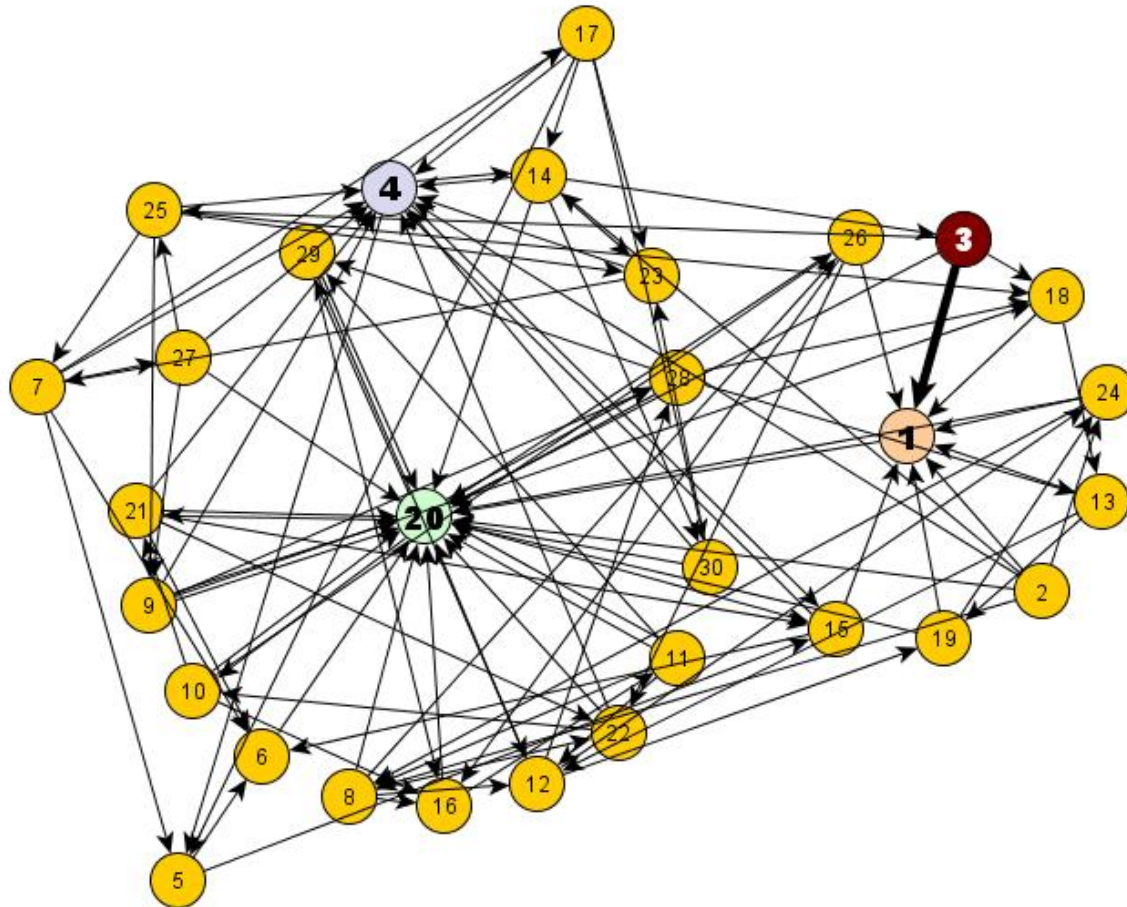
Social Requirements

Social Requirements

- Constraints on social networks
- Predicates based on
 - Network metrics
 - Expected values
- Examples
 - Number of past common projects > 2
 - Number of collaborators > 5



Applying Social Requirements



Social Service Broker

Overview

- Service search
 - UDDI-based
 - Social awareness
- Two-fold requirements
 - Functional requirements
 - Social requirements
- Assumptions
 - UDDI
 - social network (supporting social requirements)

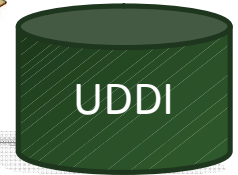
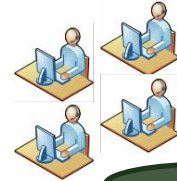


Social Service Broker



Service

Requirements



Social

Requirements



Example

Conclusions

Conclusions

- Social aspects in SOA
 - Not only Web Services
 - SOA at the organization level
- Service search
 - Not only functionality
 - Not only QoS
- Multi-service search?
 - Last paper in session E2



Thank you for your attention

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