

On the Automatic Agreement Procurement of Web Services

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The **Distributed**
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SEVILLE

Roadmap

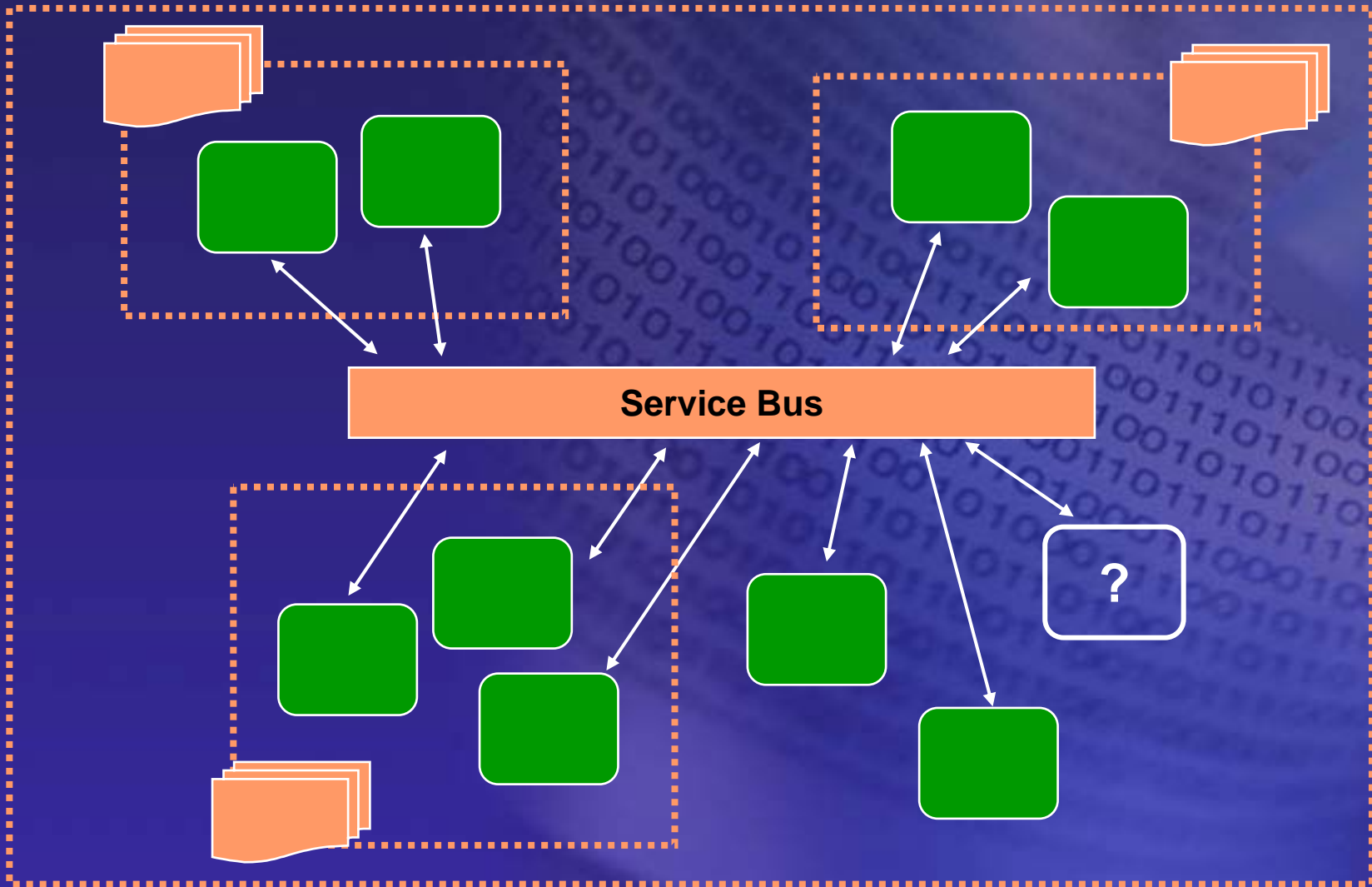
Introduction

Our proposal

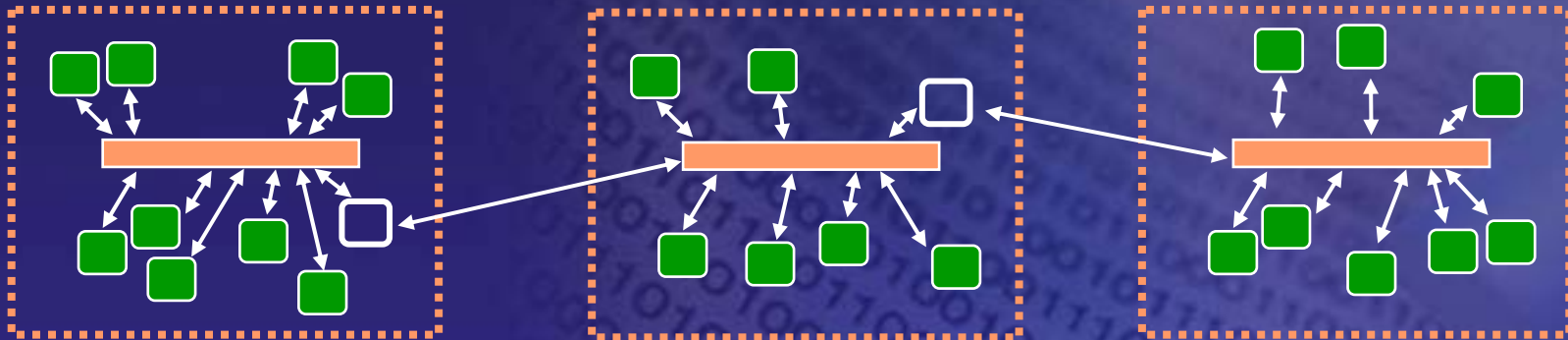
Related Work

Future work

SOA Nowadays



¿SOA Future?



Industry Push

- “On demand business” (IBM)
- “Adaptive Enterprise” (HP)
- ...

Research Push

- Workflow Management
- Semantic Technologies
- ...

Drawbacks

- Semantic Interoperability
- Trust
- Guarantees



SLA

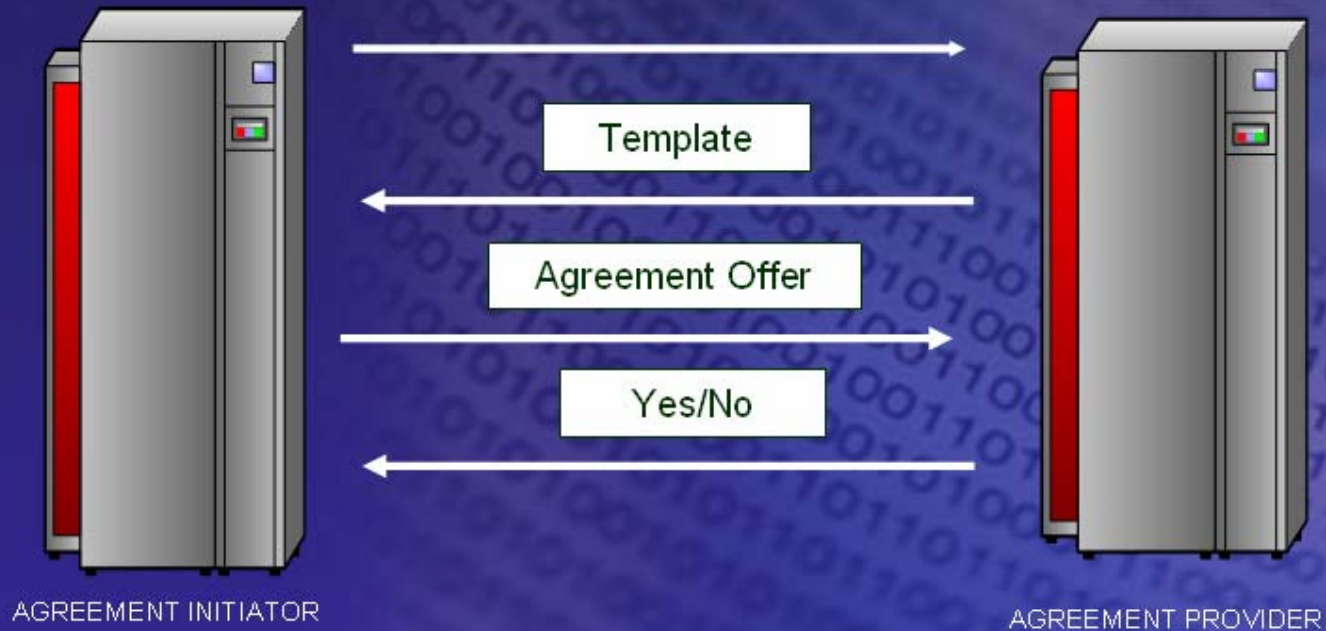
Goal

Automated Agreement Procurement of Web Services

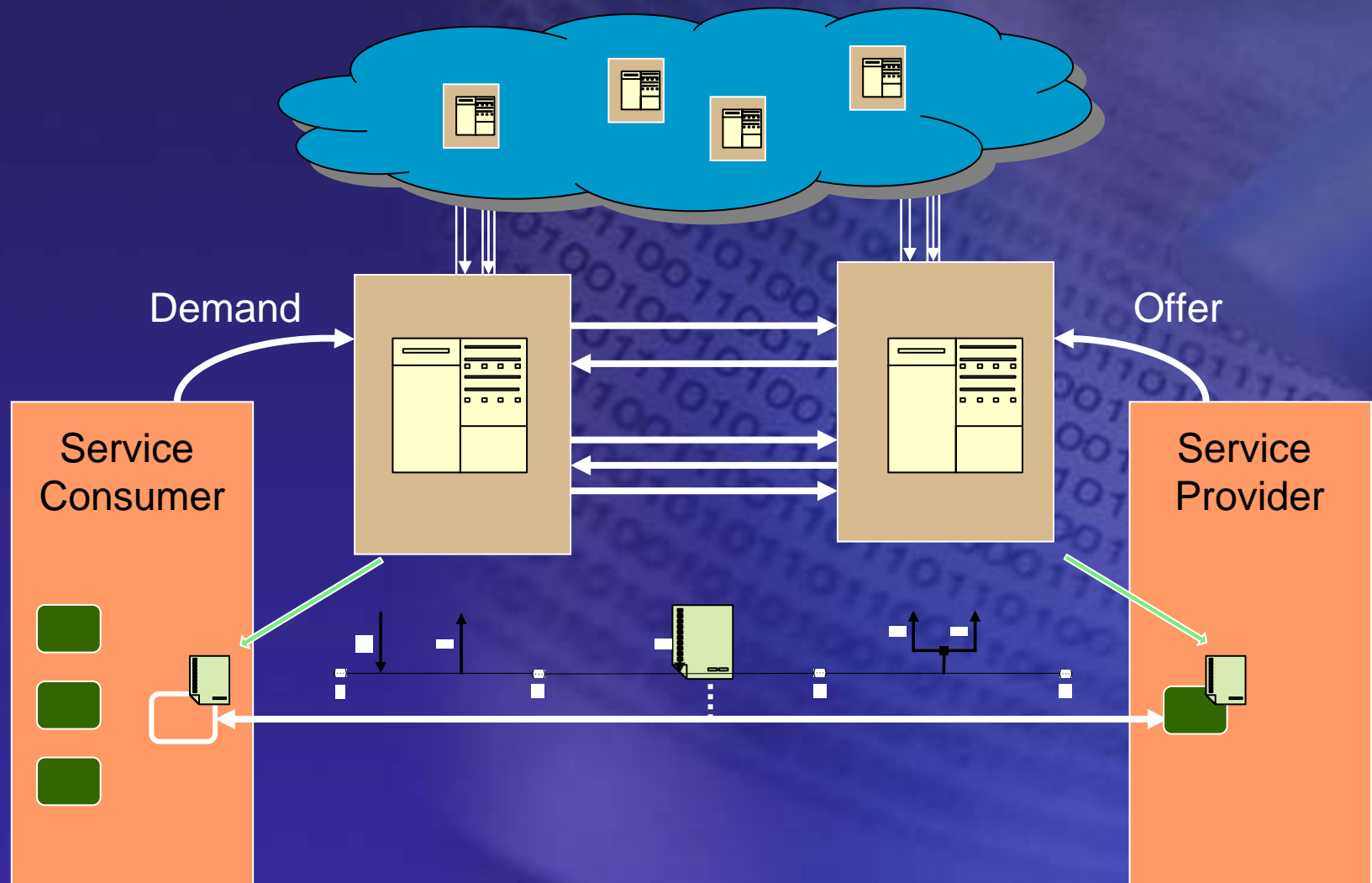
Design Principles

Standards
Many to Many Scenario
Scalability

WS-Agreement



Scenario



Service Trader



Service Trader #2



Related Work

Expressivity

Industry Orientation

Flexibility

Industry Orientation

	<i>a</i>	<i>b</i>	<i>c</i>	<i>d</i>	<i>e</i>	<i>f</i>	<i>g</i>	<i>h</i>	<i>i</i>	<i>j</i>
G-QoS	P	P		F		F	F	F		
Cremona	F				N/A	F	F	P	F	
WS-QoS				F		P		F		
QCWS		F		F			F	F		
GlueQoS	N/A	P			F	N/A		F	F	
EWSF	N/A			P			F	F		
Meteor-S				F		F	F	F	F	
Ours	F	F	F	F	F	F	F	F	F	F

F: Full support
P: Simple/Partial support
N/A: Non Applicable.

- a) There is a document that expresses the agreement or service level.
- b) A negotiation process is supported.
- c) Multiple negotiation protocols can be used.
- d) There is an element that acts as a Mediator, Trader or Broker of services.
- e) Behaviour of system can be parameterised (e. g. with the use of template methods)
- f) Language of offers, demands (and agreement if supported) can be extended to support different service domains.

- g) Language vocabulary can be distributed. There is no need of a centralized vocabulary.
- h) 1-N focus. A customer can select between multiples providers.
- i) Symmetric search. Either customer or provider can select between multiples counterparties.
- j) Incremental refinement of searches

Future Work

Implementation
Industry feedback

Thank You!

Can we improve this talk?

- Contact us at contact@tdg-seville.info
- Drop by our e-page at www.tdg-seville.info



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