

WEB SERVICES TECHNOLOGY IN THE REAL WORLD

Material:
CLASS SUPPORT

Steven Willmott / 3scale networks
steve@3scale.net
<http://www.3scale.net>
@njyx



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Program in Open Informatics



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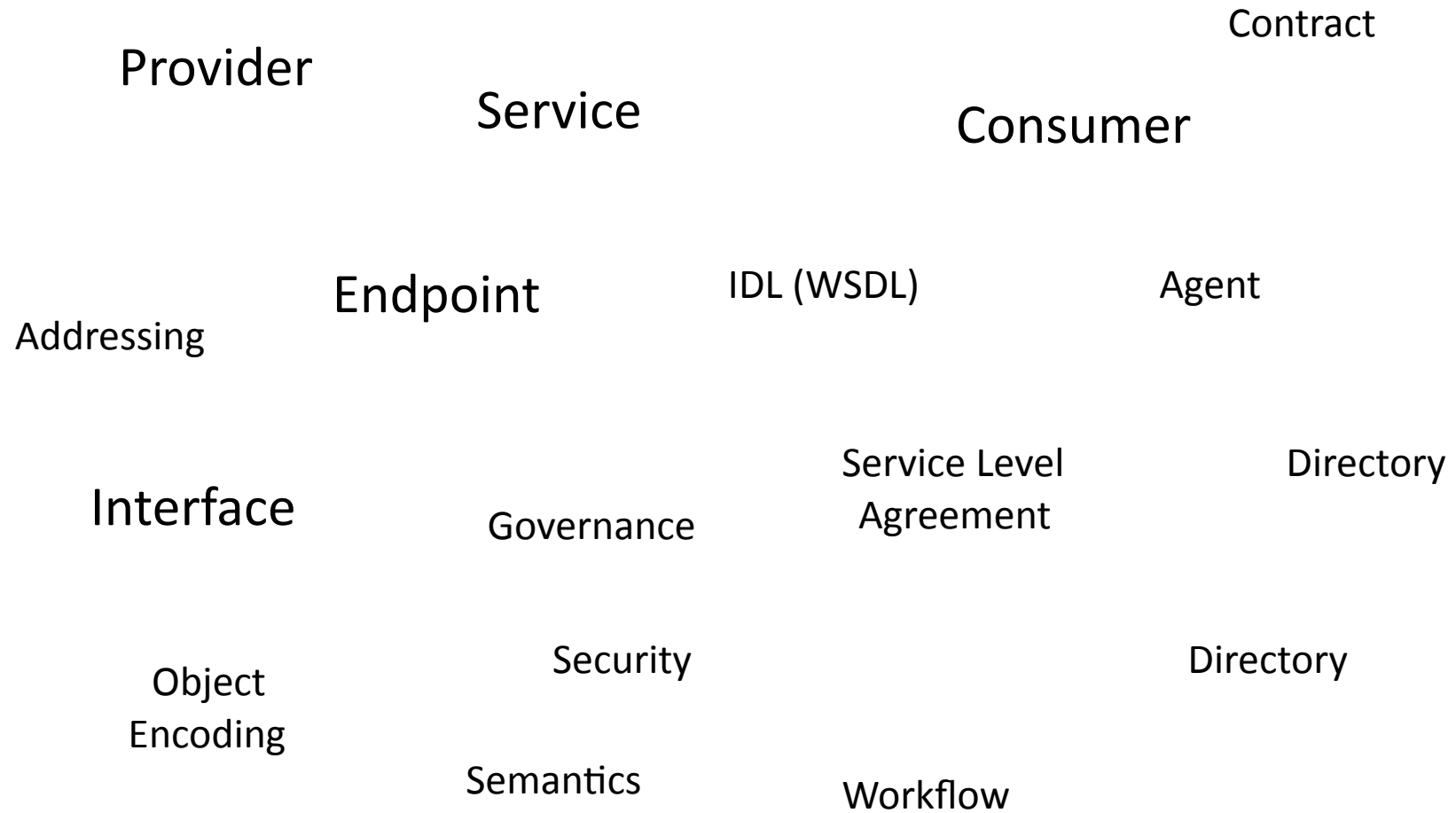
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Topics to Cover

- Web Services and SOA Principles
- What happens on the Web:
 - REST
 - JSON
- Examples
- Building your own Web API 101
- Agile Development

WEB SERVICES AND SOA PRINCIPLES

Important Concepts



WHAT HAPPENS ON THE WEB

Keep It Simple Stupid!

Reasons

- Lack of time / resources
- Lack of worry about what was done with the API (less true now)
- Clients often must be very simple!

Compare...

```
<?xml version='1.0' encoding='utf-8'?>  
  <GeteBayOfficialTimeRequest  
    xmlns="urn:ebay:apis:eBLBaseComponents\">  
    <RequesterCredentials>  
      <eBayAuthToken>TOKENGoesHERE</  
      eBayAuthToken>  
    </RequesterCredentials>  
  </GeteBayOfficialTimeRequest>
```

With...

```
{"menu": {  
  "id": "file",  
  "value": "File",  
  "popup": {  
    "menuitem": [  
      {"value": "New", "onclick": "CreateNewDoc()"},  
      {"value": "Open", "onclick": "OpenDoc()"},  
      {"value": "Close", "onclick": "CloseDoc()"}  
    ]  
  }  
}}
```

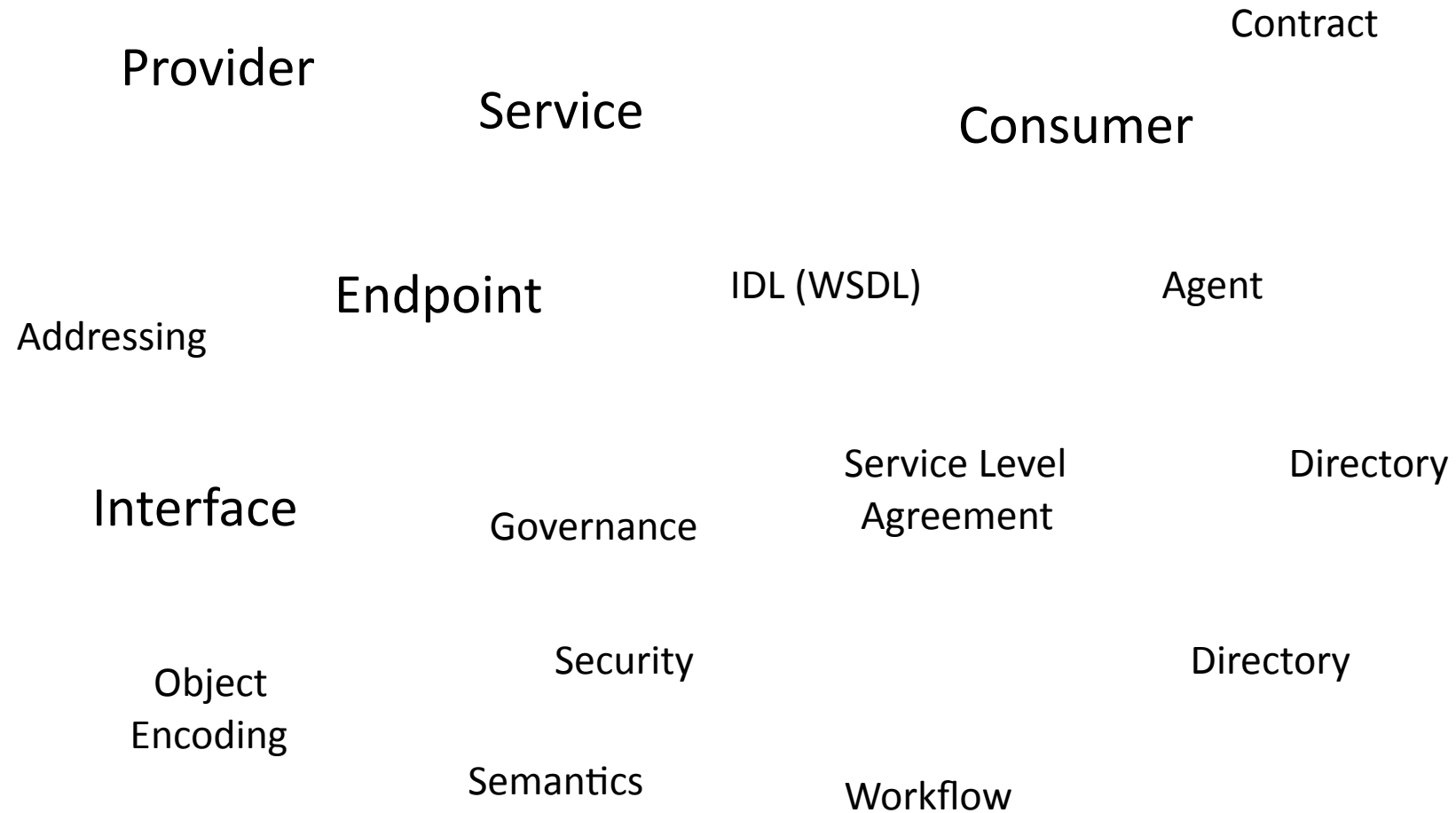
RESTfull Web Services

- Resources
- Resource Identifiers (URIs)
- Representations
- Operators
- Response Codes

Response Codes

- 200 OK Standard success response
- 201 Created
- 202 Accepted
- 301 Moved Permanently
- 400 Bad Request
- 401 Unauthorised
- 402 Payment Required
- 403 Forbidden
- 404 Not Found
- 405 Method Not Allowed

Important Concepts Revisited



Programmableweb.com

CONCLUSIONS & EXAMPLES

Thank You!

steve@3scale.net