

Simon Thurman

Architect

Agenda

- Strategy
- Problem Space
- Where's the Bus?
 - BizTalk Services
 - Demos, Demos, Demos, ...

Strategy

Codename 'Oslo'

The Vision: Significantly simplify the effort required to design, build, deploy and manage distributed applications within and across organizations.

- SOA Platform
 - Spans across Client, Server and Cloud
 - Simplify through Modelling
 - General purpose modelling language, tools and a repository
- Capabilities delivered through traditional offerings:
 - E.g. BizTalk Server, BizTalk Services, VS, .Net Fx, ...

Problem Space

- Crossing Boundaries
 - Technology, business, people...
- Some required capabilities:
 - Federated Naming
 - Distributed Identity and Access Control
 - WAN Messaging, and message patterns
 - Discovery
- Appropriate programming model support

WCF Overview

Service

- Endpoint
 - Address
 - *uri*
 - Binding
 - *how it communicates with the outside world*
 - *E.g. TCP, Reliable Messaging, Security considerations, ...*
 - Contract
 - *what operations are supported*
 - Behavior, *extends functionality*

WCF Overview

Client

- Channel
 - *mechanism for sending messages to endpoints*
 - Behavior
 - Endpoints, *just represent target endpoint*
 - Address
 - Binding
 - Contract

Internet Service Bus ISB

- Foundation in the cloud
- Simply Internet naming, e.g. url
- Internet protocols
- Enable developers to build cross-organisation, cross-device, Internet composite applications

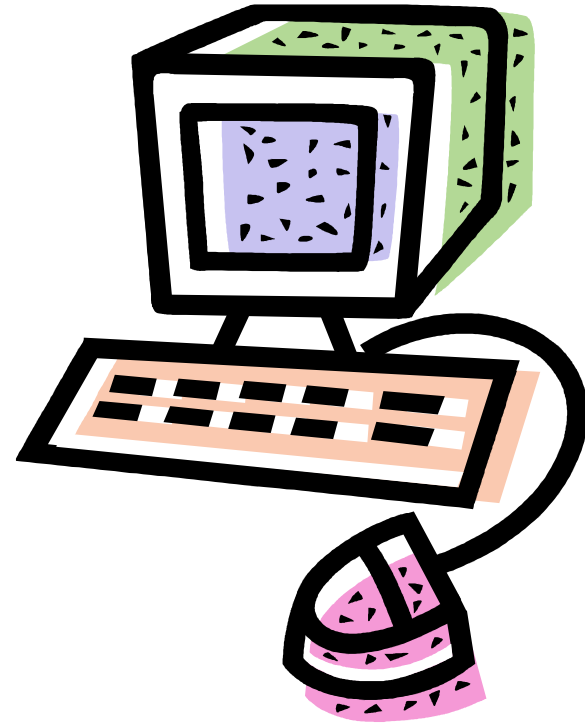
BizTalk Services

- Cloud Based Services
 - BizTalk is not used in the cloud, nor is it required on either side
 - BizTalk branding
- Here today
 - <http://biztalk.net>
 - No idea on how it will be commoditized

BizTalk Services

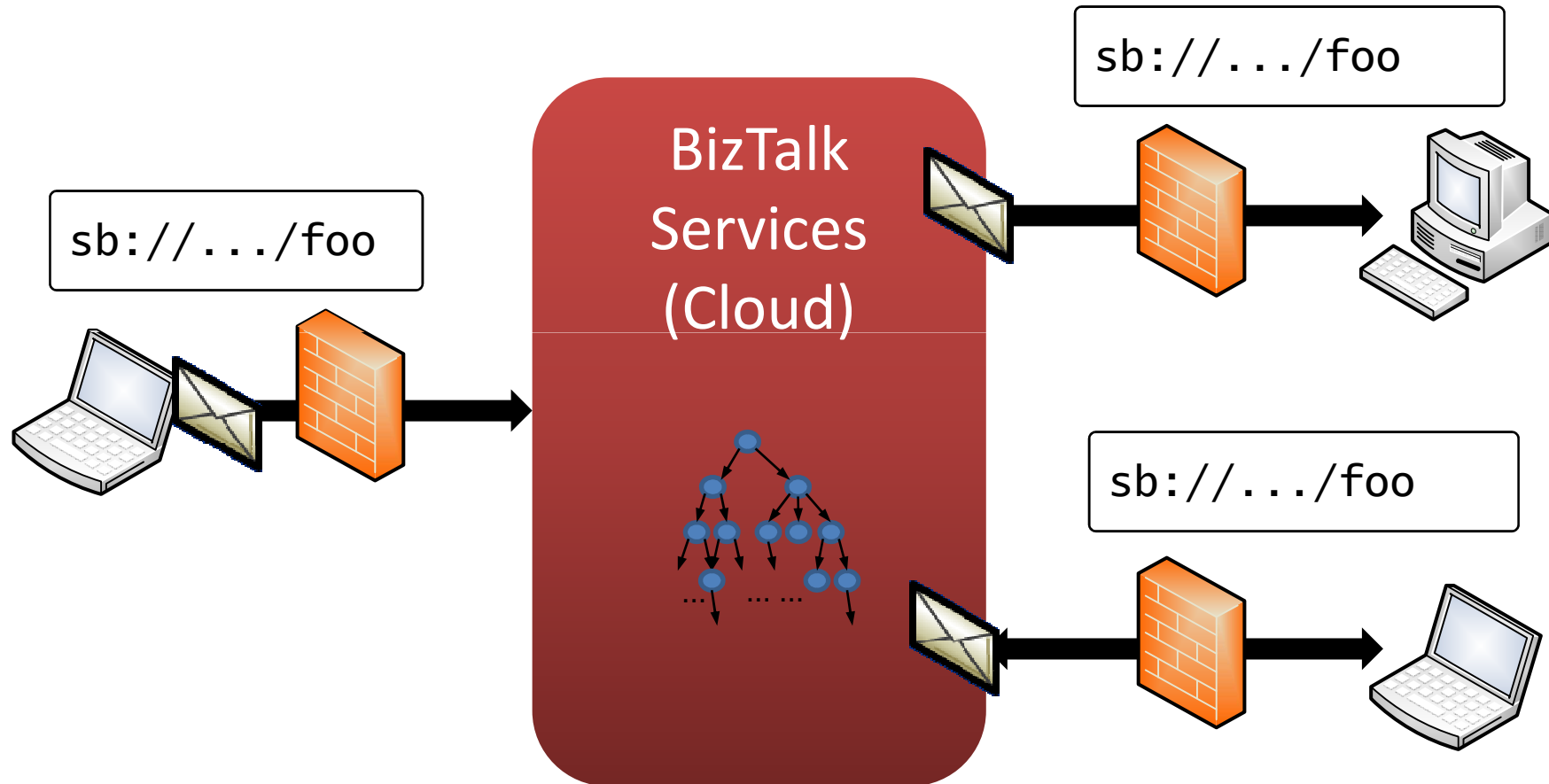
- Connectivity (<http://connect.biztalk.net>)
 - Applications create public addresses
 - Identity provides simple access control
- Identity (<http://identity.biztalk.net>)
 - Delegate identity and access control
 - Federated identity (CardSpace, ADFS)
 - Username and password
- Workflow (coming soon)
 - Pre-defined activities, very early stage development

Hello World 😊



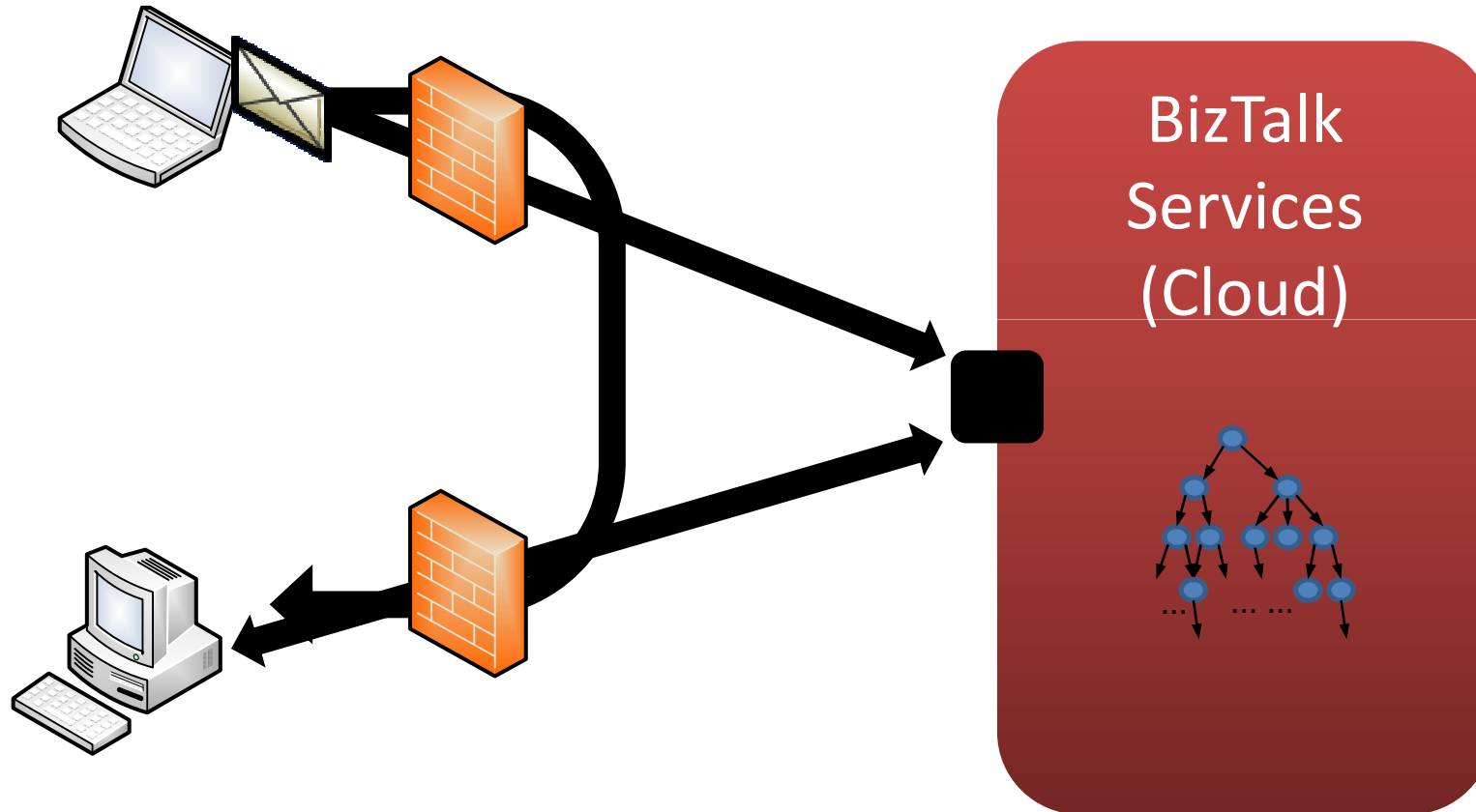
Technologies

Pub / Sub via URIs

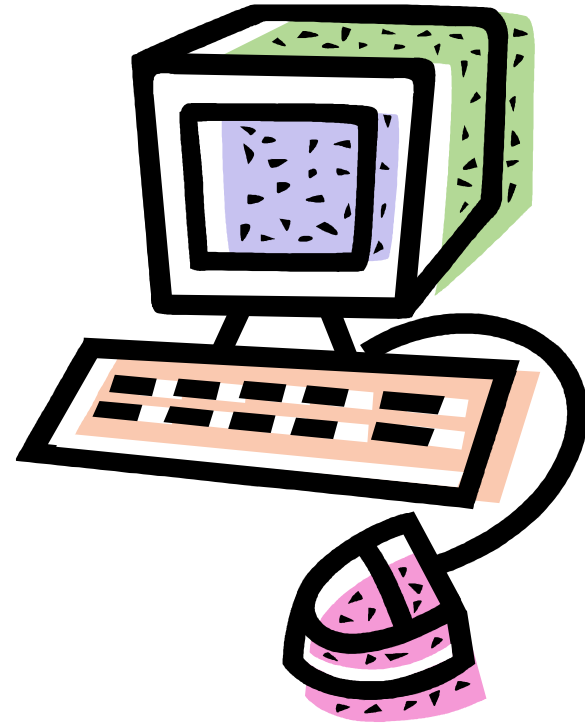


Technologies

Direct Connections



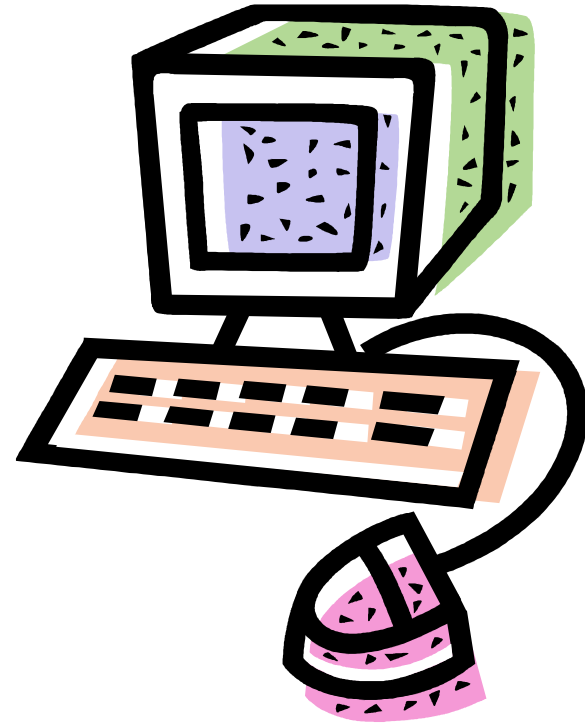
Pub/Sub
MultiCast



BizTalk Services: Identity Service

- Publicly-accessible Security Token Service (STS) (WS:Trust)
- Applications and users can obtain secure authentication tokens from the Identity Provider Service.
- These tokens can then be exchanged, to allow communicating parties to provide proof of their identities.
- “offload” authentication functions and eliminate the overhead of creating and maintaining an authentication and identity subsystem.

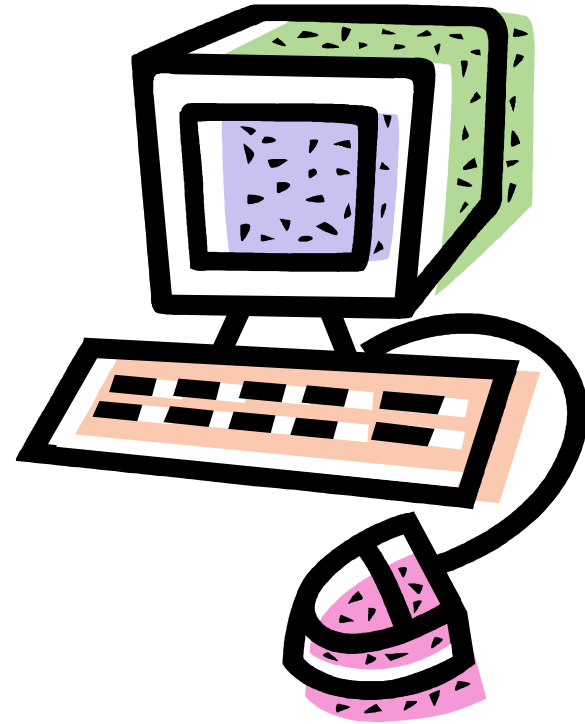
Authorisation
Calculator



RESTful Model

- Utilises extensibility mechanism in WCF
- Decorate resource with attributes
 - WebGet, operation callable via HTTP GET
 - WebInvoke, for other verbs, e.g. PUT, DELETE, POST, ...
 - webHttpBinding, binding for REST services
 - webServiceHost, hosting class for REST services
 - webServiceHostFactory, hosting without config file

Rest
Basic Web Programming



Summary

- Oslo
- ISB
- BizTalk Services
 - Connection
 - Identity / Access Control
 - Web Programming

Thank You 😊