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Connected Systems系列

Indigo技术预览

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申明

- 本讲座的内容和演示基于Indigo的第一个CTP (Community Technology Preview)版本；随着产品研发过程的不断进行，本讲座中介绍的Indigo技术特性和实现细节等内容可能会发生变化。

Indigo的设计目标

- Indigo的设计目标:在Windows平台上为安全、可靠的面向服务的应用提供统一的编程模式和运行环境
  - 统一的编程模式
  - 互操作性和集成性
  - 高效的面向服务的编程

统一的编程模式

indigo
ASMX
互操作性
跨平台
.NET
Remoting
.NET 与 .NET之间通讯
分布式事务…
Enterprise
Services
对WS-*规范的支持
WSE
消息队列
System.Messaging

Indigo与Longhorn

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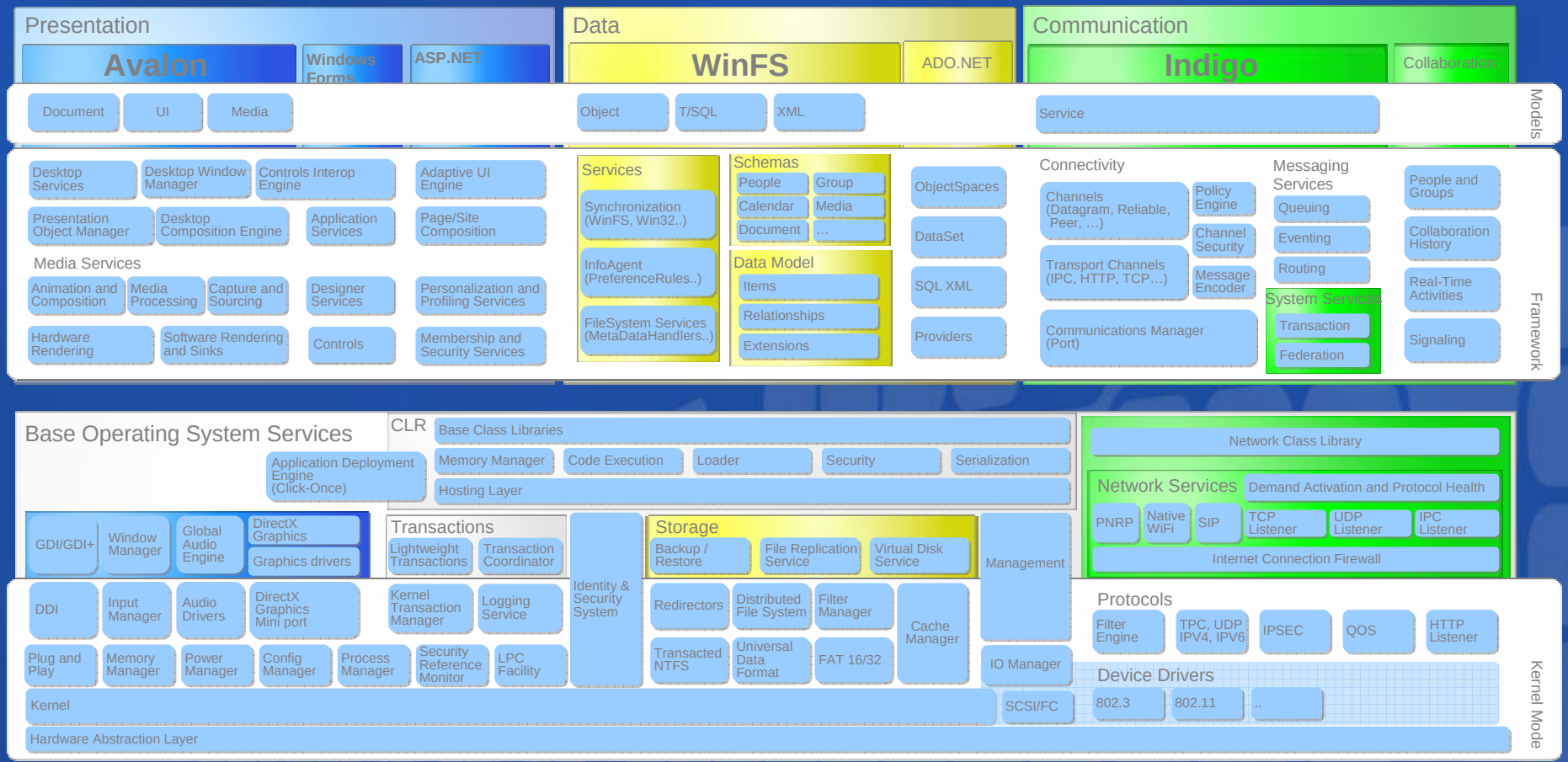

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Indigo 的架构

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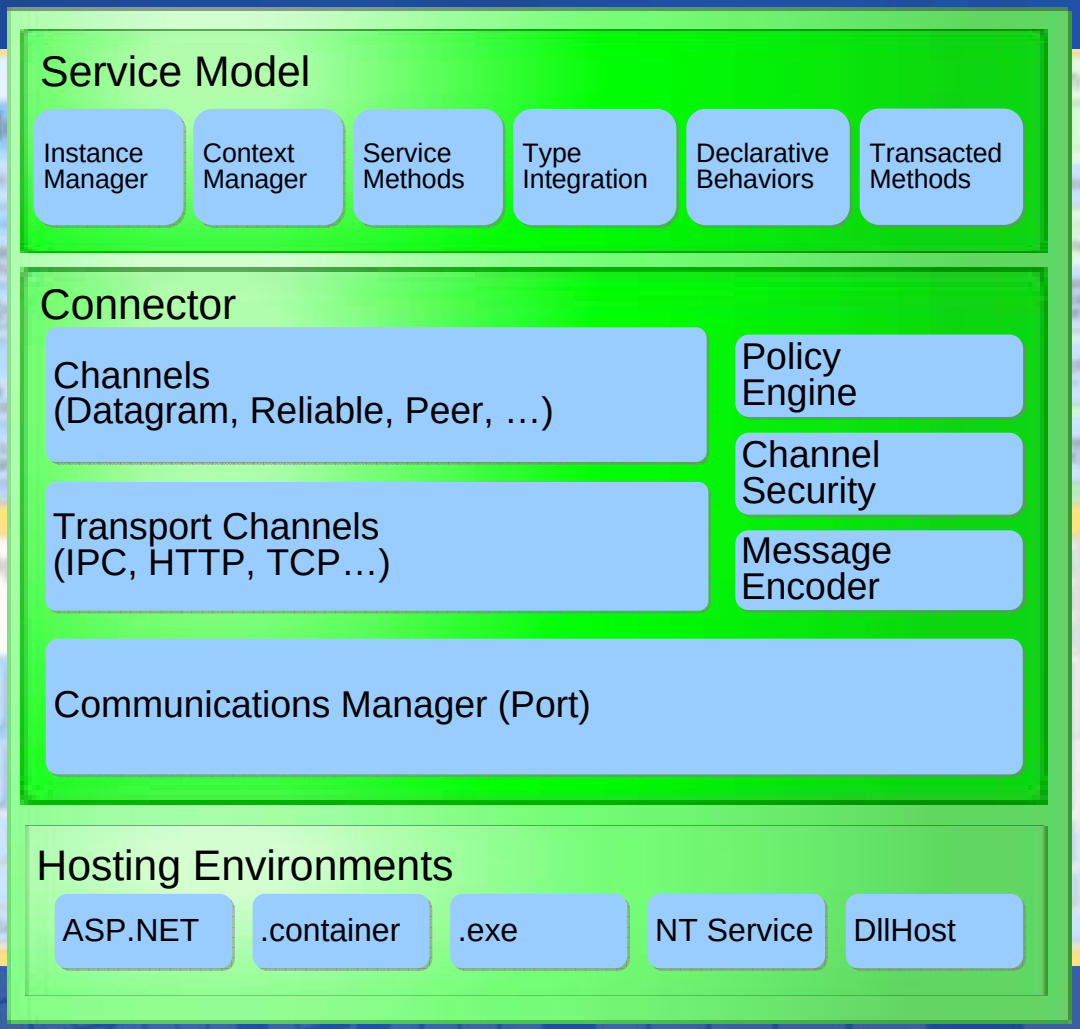
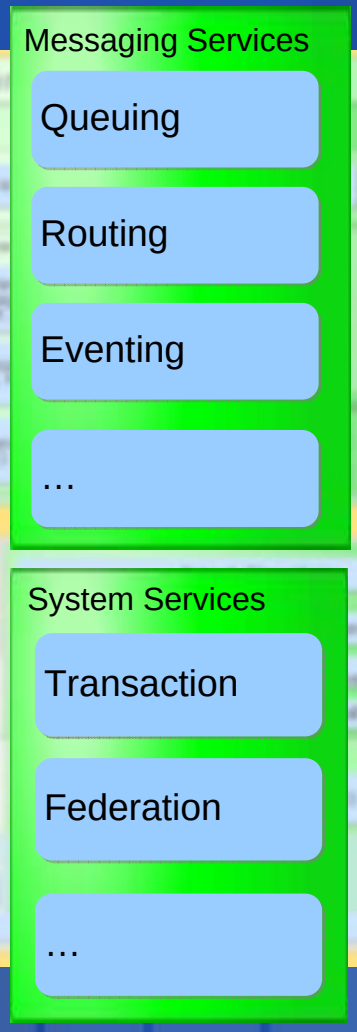
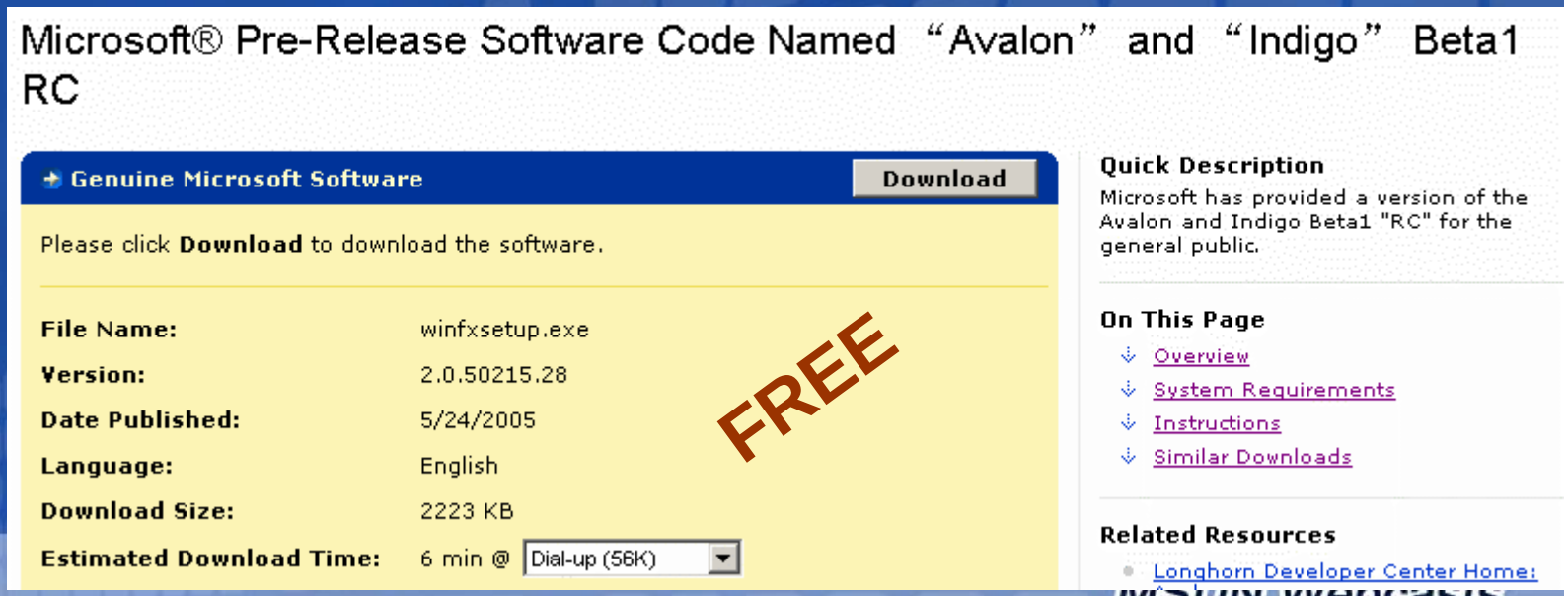




下载WinFx CTP

http://msdn.microsoft.com/longhorn/default.aspx



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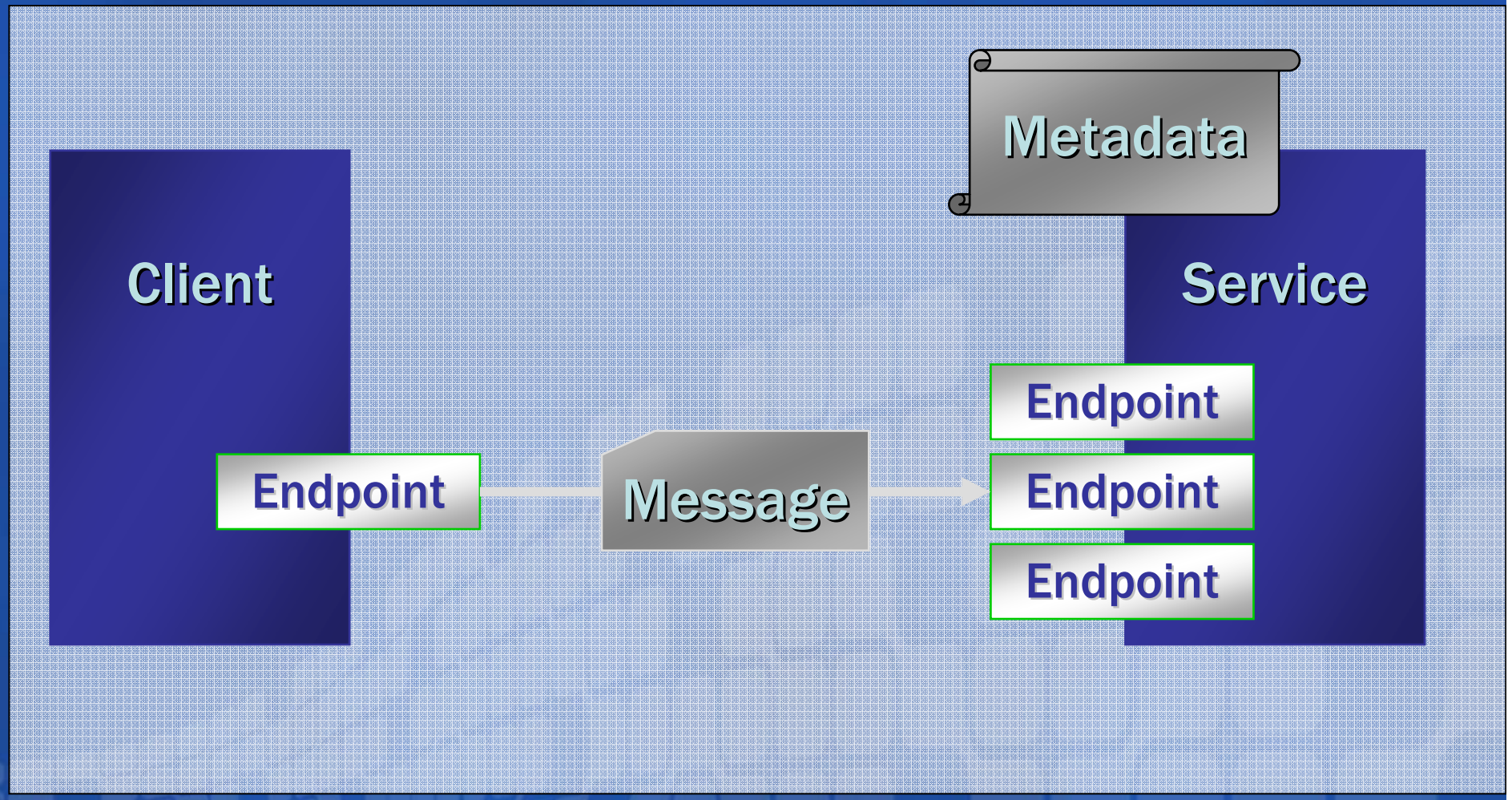
Services and Clients



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Endpoints

Address	Binding	Contract
Where?	How?	What?

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Bindings' Structure

Layer	Options	Required
Context Flow	**ContextFlowBindingElement**	No
Reliability	**ReliableSessionBindingElement**	No
Security	**SecurityBindingElement**	No
Transport	TCP, Named Pipes, HTTP, HTTPS, MSMQ, Custom	Yes
Encoding	Text, Binary, MTOM, Custom	Yes

Binding

预先定义的Binding方式

Binding	Description
BasicProfileBinding	A binding that is suitable for talking to WS-Basic Profile conformant Web Services (for example, ASMX-based services). This binding uses HTTP as the transport and Text/XML as the message encoding.
WsProfileBinding	A secure, reliable, interoperable binding that is suitable for non-duplex service contracts.
WsProfileDualHttpBinding	A secure, reliable, interoperable binding that is suitable for duplex service contracts or communication through SOAP intermediaries.
NetProfileTcpBinding	A secure, reliable, optimized binding suitable for cross-machine communication.
NetProfileDualTcpBinding	A secure, reliable, optimized binding that is suitable for cross-machine communication through SOAP intermediaries.
NetProfileNamedPipeBinding	A secure, reliable, optimized binding that is suitable for on-machine communication.
NetProfileMsmqBinding	A queued binding that is suitable for cross-machine communication.
MsmqIntegrationBinding	A binding that is suitable for communicating with existing MSMQ applications.

组合性(Compatibility)

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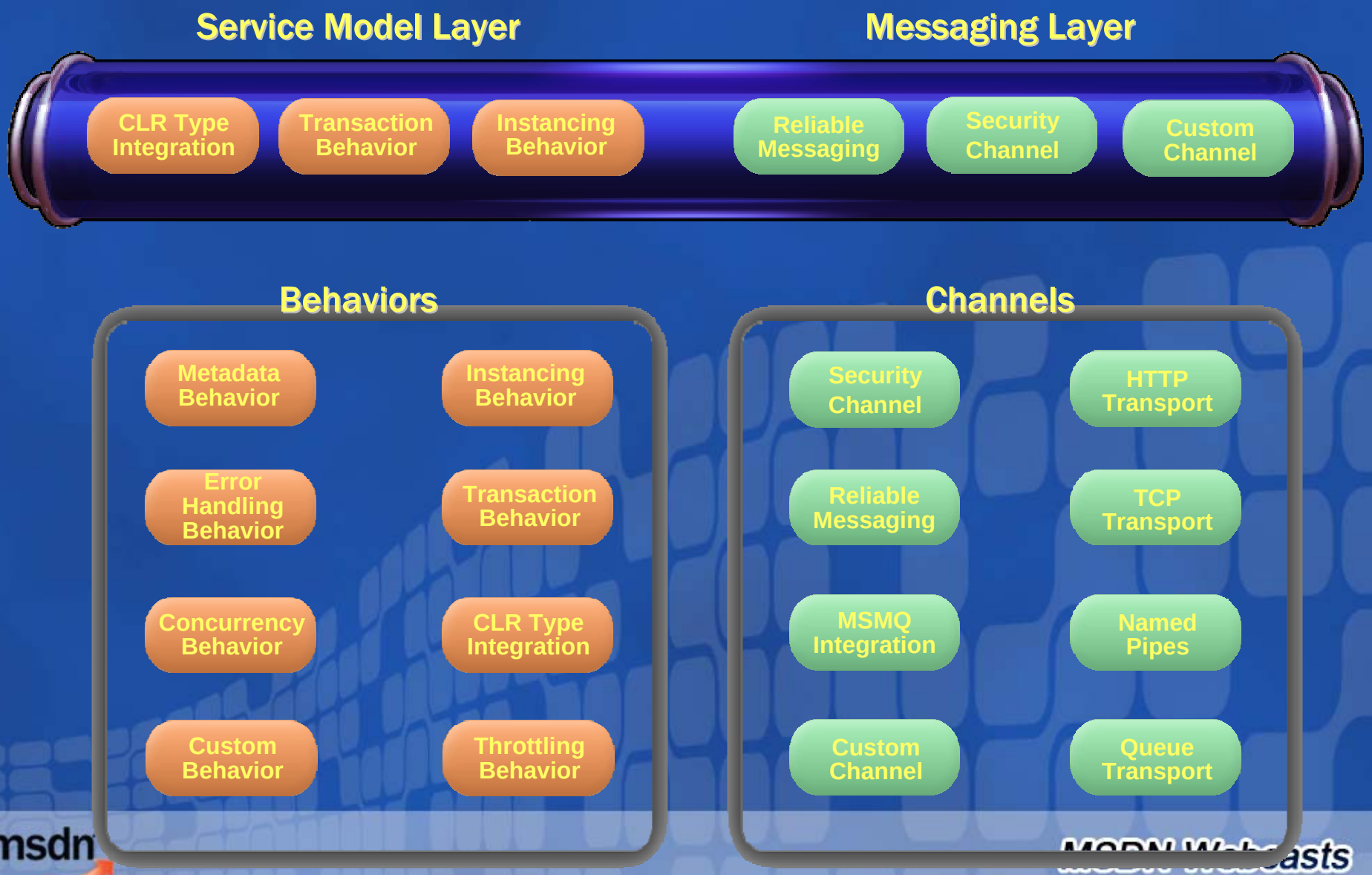

The Four Tenets of Service-Orientation

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Boundaries are Explicit

Developers opt-in to consuming, exposing, and defining public-facing service façade.

Services are autonomous

Services and consumers are independently versioned, deployed, operated, and secured.

Share schema & contract, not class

Data never includes behavior; Objects with data and behavior are a local phenomenon.

Compatibility based on policy

Capabilities and requirements represented by a unique public name; Used to establish service suitability.

Integration

Leveraging Existing Microsoft Investments

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- Side-by-side co-existence with existing distributed technologies
- Seamless communication with applications built on existing technologies
- Smooth upgrade of existing code to Indigo

Designing for Indigo

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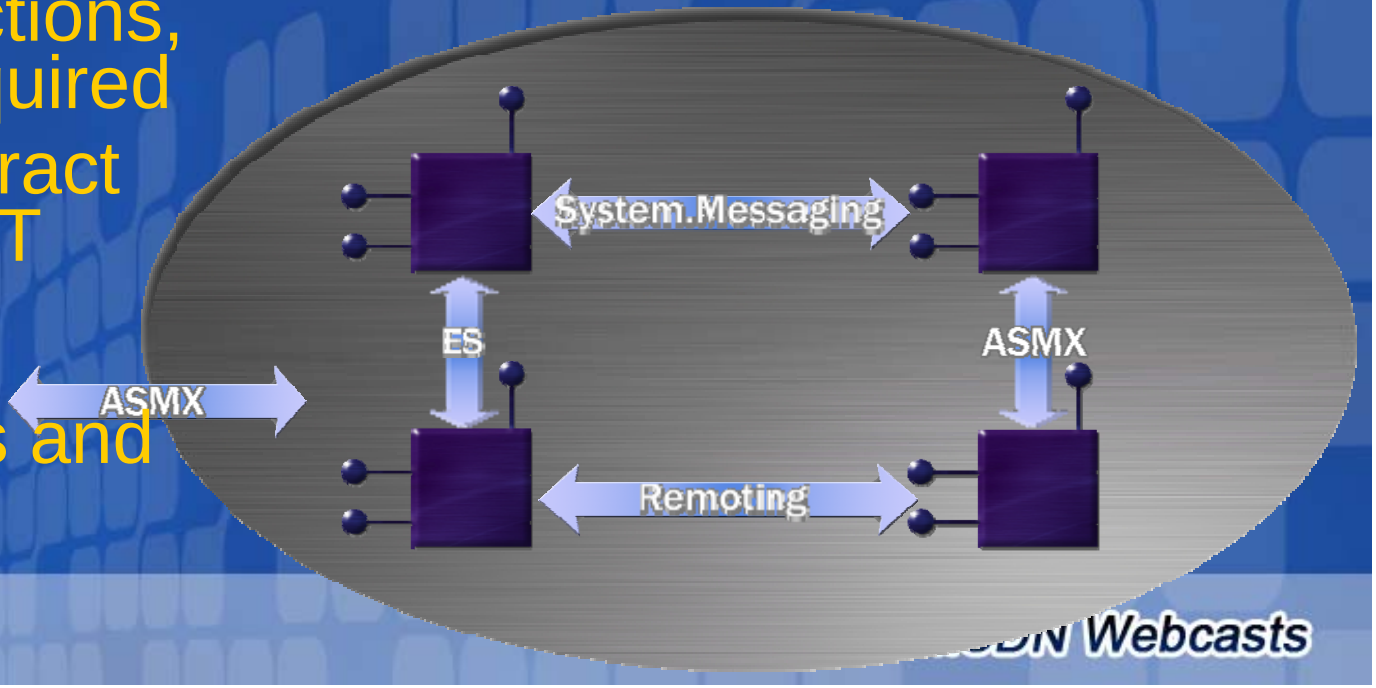
- Build services using ASMX
- Use WSE for WS-* support
- Keep components within your service boundaries
- Use System.Messaging for async queued messaging
- Use Enterprise Services when transactions, activation required
- Avoid or abstract low-level .NET Remoting extensibility such as sinks and channels



资源

- Indigo in Longhorn Center

http://msdn.microsoft.com/Longhorn/default.aspx

- Indigo in MSDN Library

http://msdn.microsoft.com/library/

  - *Introducing Indigo: An Early Look by **David Chappell***

- WINFX SDK DOC

http://winfx.msdn.microsoft.com/library/

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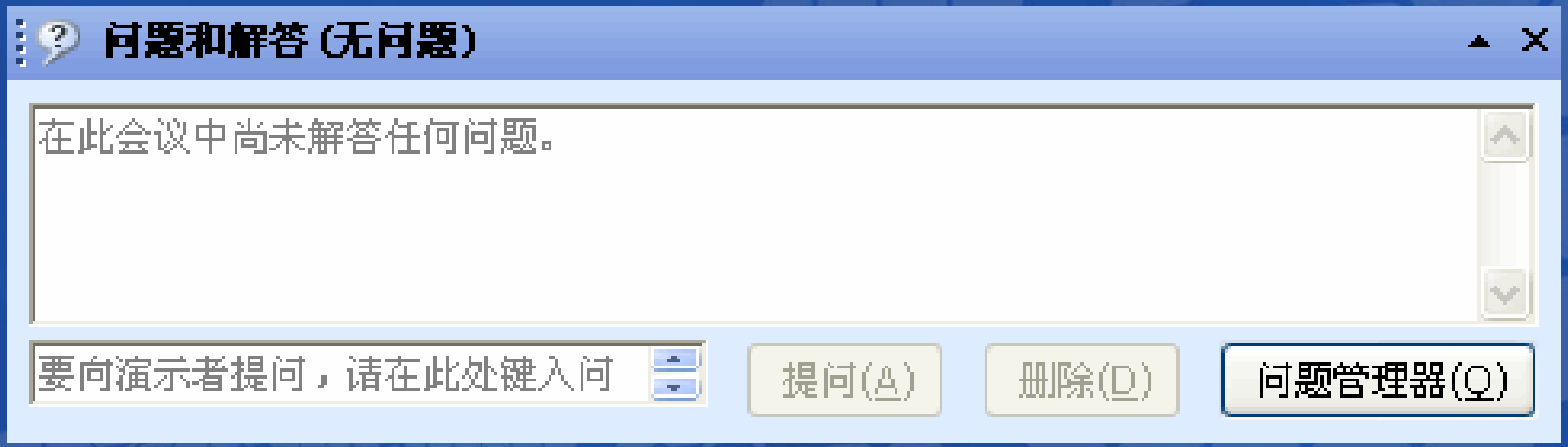
Q & A

如需提出问题，请单击“提问”按钮并在随后显示的浮动面板中输入问题内容。一旦完成问题输入后，请单击“提问”按钮。