

BizTalk Server 2000

Introduction

Marius Rochon
Technical Evangelist
mrochon@microsoft.com

Agenda

- ❖ **BTS in context**
- ❖ **What does it do?**
- ❖ **How does it work?**

BizTalk Initiative

*To automate business process integration
using Internet-standard protocols and formats*

Framework

- BizTalk Framework (conventions for open XML usage)
- Industry investments (support for industry grammars)

Industry

- Community Services (<http://www.biztalk.org>)
- Content Library Services (for storing schemas)
- Third party products, services and tools

Products

- Windows 2000 (XML/XSL support in platform)
- Visual Studio (tools for working with XML and data)
- BizTalk Server 2000 (business process integration)

What does it do?



- ✓ Hear – Dial tone
 - ✓ Understand
 - ✓ Cooperate
- Protocol transformation
 - Message transformation
 - Orchestration

Messaging Core Tasks

Receive

- ❖ Read message
- ❖ Decode/decrypt (if necessary)
- ❖ Discover document format
- ❖ Extract individual documents
- ❖ Extract routing parameters
- ❖ Perform inbound policy check
- ❖ Convert native documents to XML
- ❖ Identify specific processing rules (pipelines and agreements)
- ❖ Record tracking information (if desired)
- ❖ Perform translation (if necessary)
- ❖ Render native target format from XML
- ❖ Add digital signature (if desired)
- ❖ Perform encryption (if desired)
- ❖ Transport documents

Channel

Port

BTS Message Architecture

Applications
(Partner via
HTTP/SFTP
Server 4.0)

Applications
(e.g., SAP,
Commerce
Server 4.0)

Analysis
(Browser UI)

Document
Tracking

BizTalk
Server
Group

WebDAV
Repository

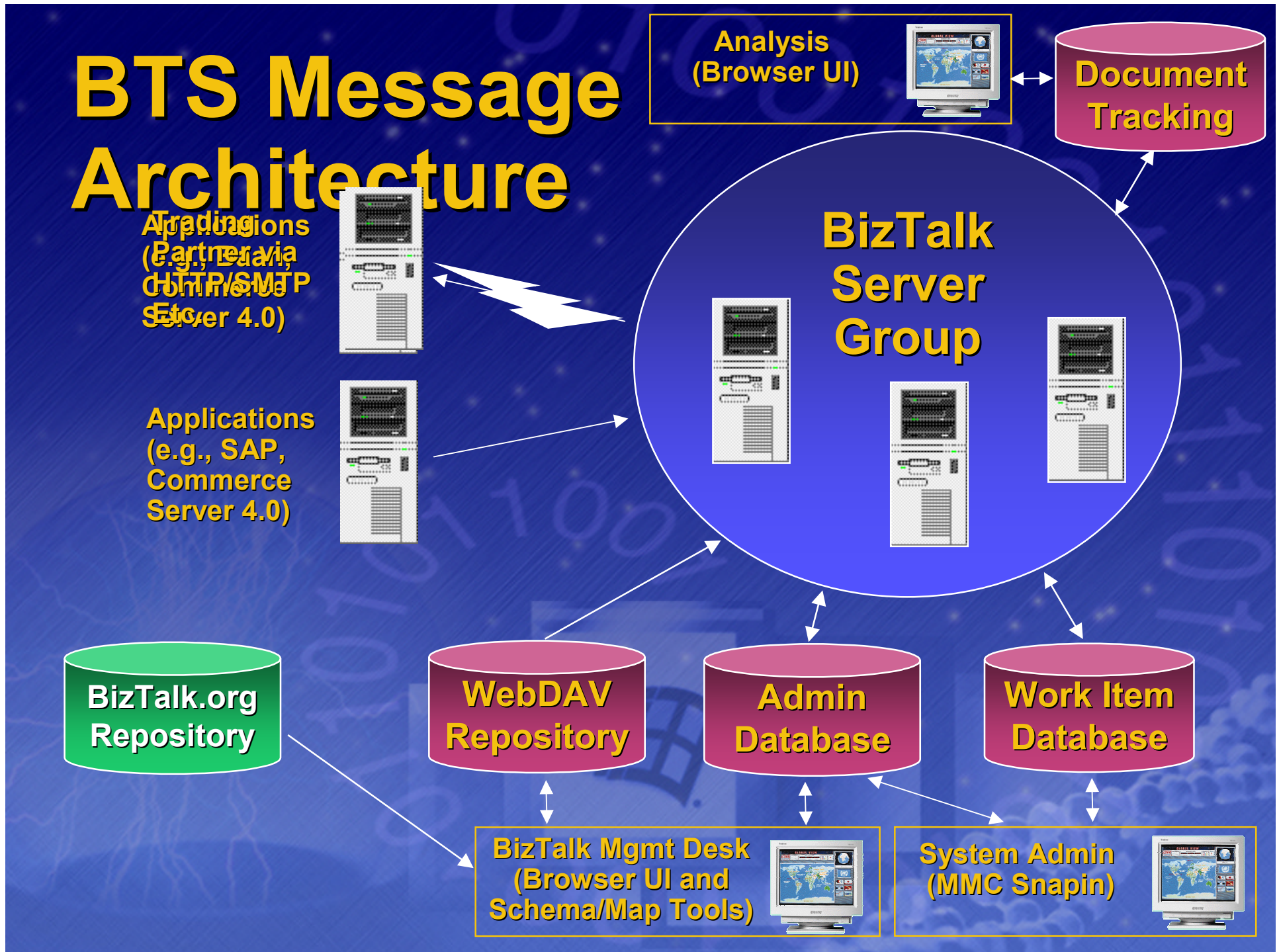
Admin
Database

Work Item
Database

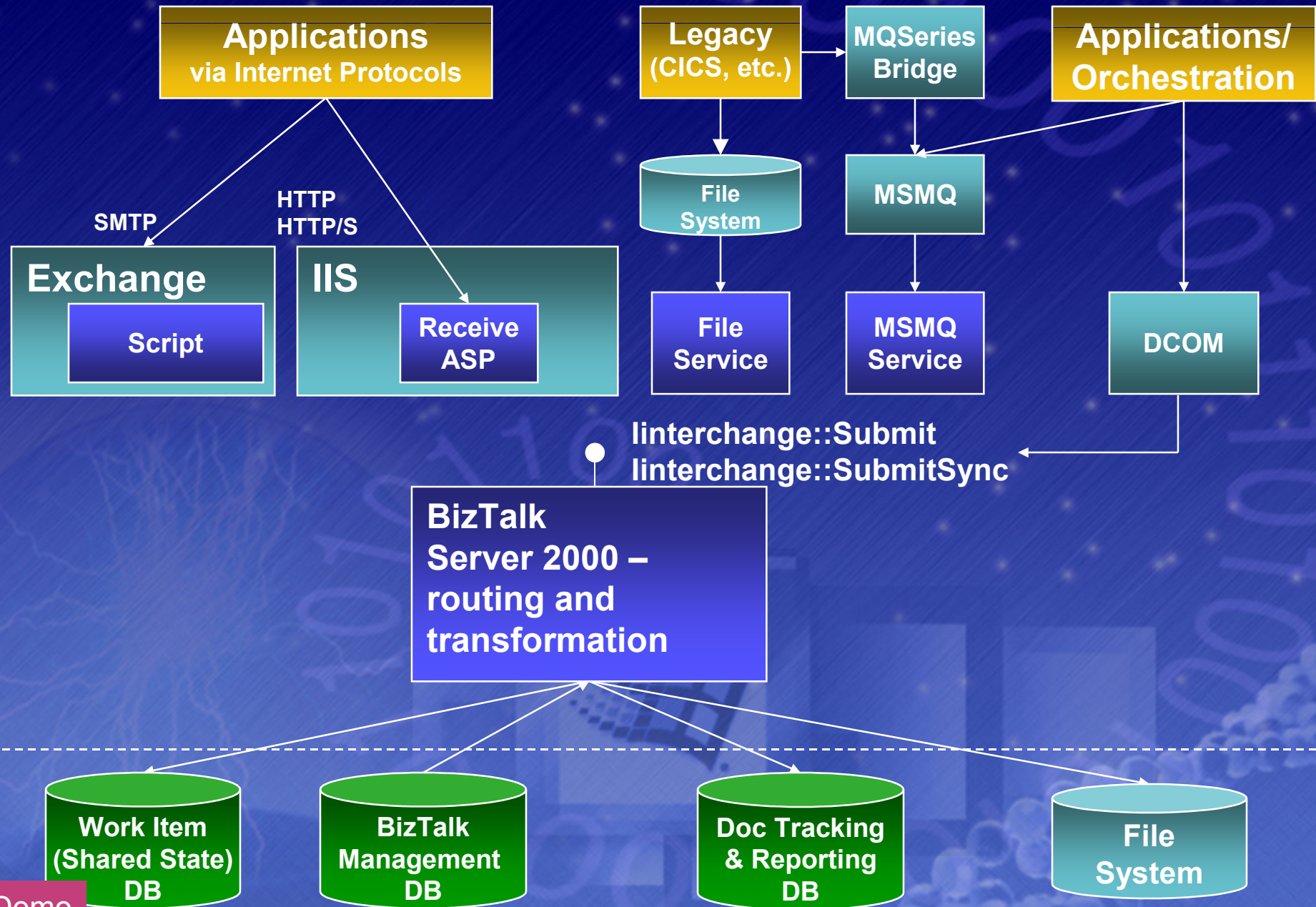
BizTalk.org
Repository

BizTalk Mgmt Desk
(Browser UI and
Schema/Map Tools)

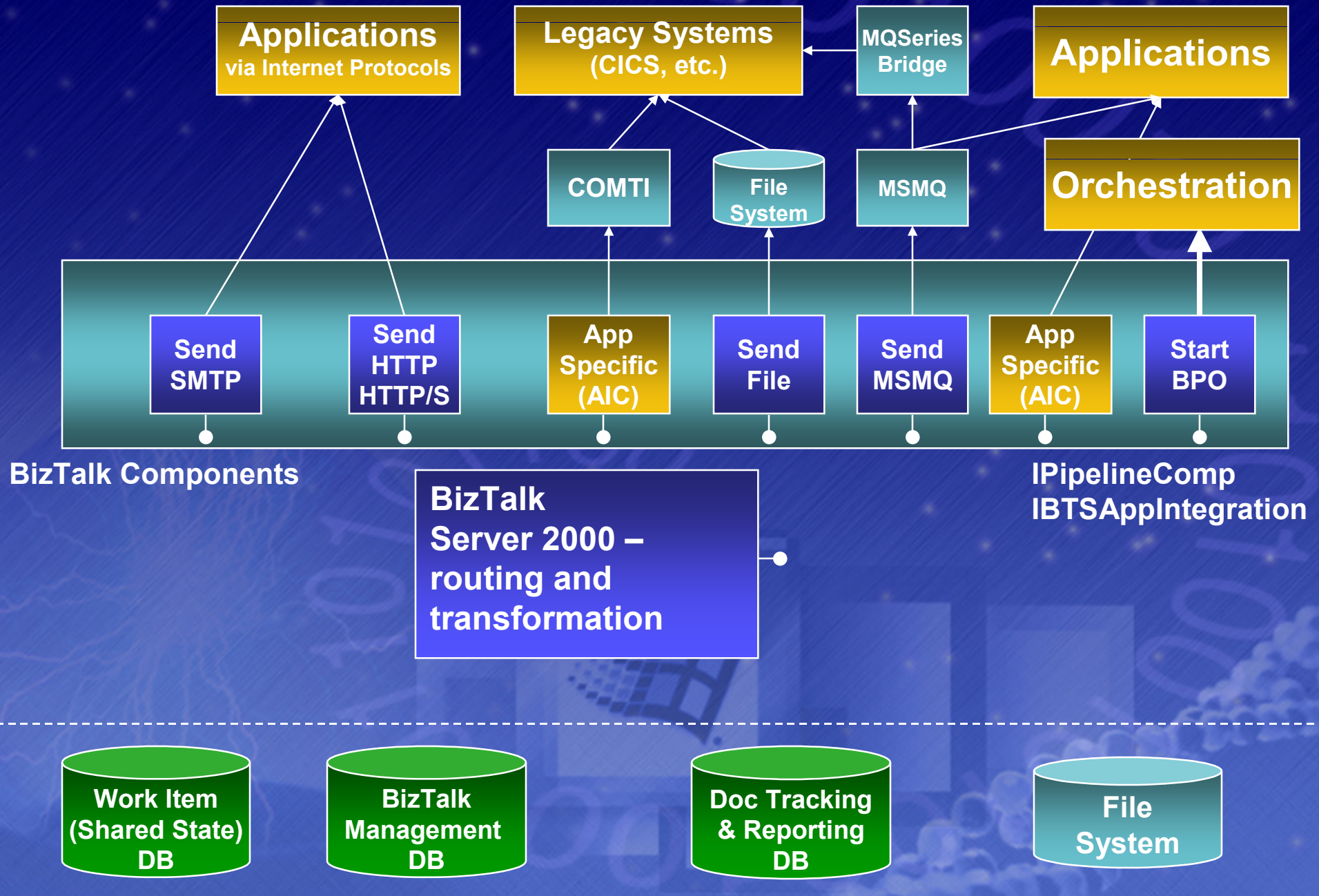
System Admin
(MMC Snapin)



Receive Architecture (Getting Data In)

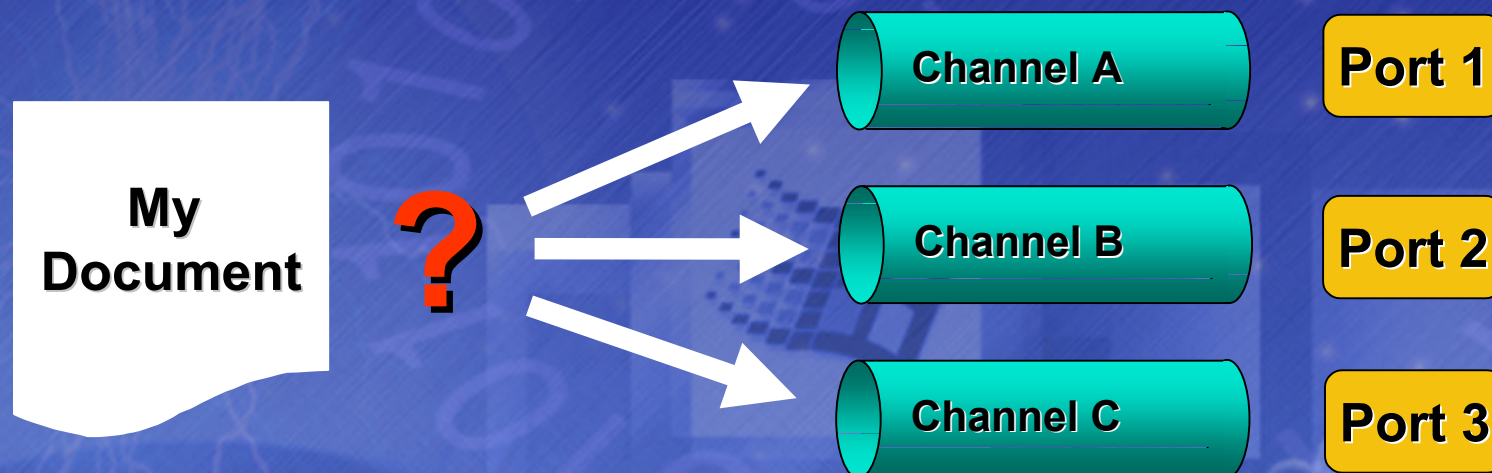


Send Architecture (Getting Data Out)



Routing

- ❖ The process of selecting zero or more BizTalk channels through which to pass a document
- ❖ Self-routing: based all or in part on document content.

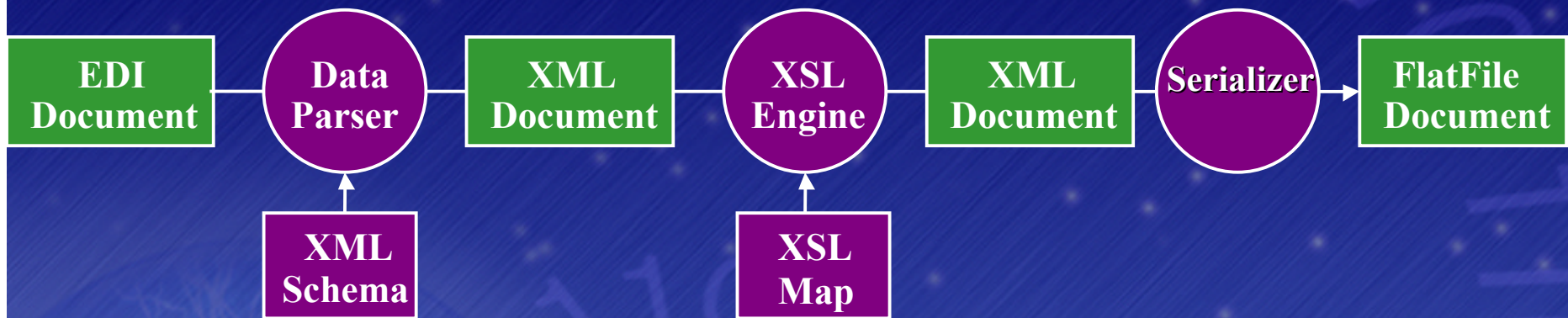


Five Key Data Elements

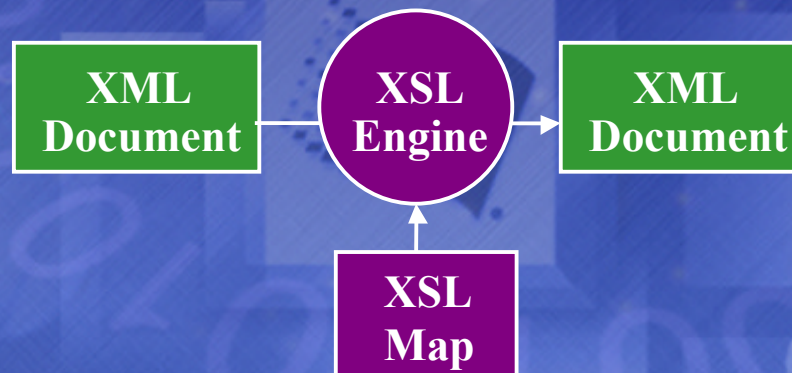
1. **Source Organization Qualifier.**
 2. **Source Organization Value.**
 3. **Destination Organization Qualifier**
 4. **Destination Organization Value.**
 5. **Document Definition Name.**
- ❖ Using these keys, a database query is formulated against InterchangeBTM database resulting in list of channels.
 - ❖ Document is submitted to each channel in the list, error and doc to suspended queue if list is empty.

Format transformation

Example 1: EDI to Flat File

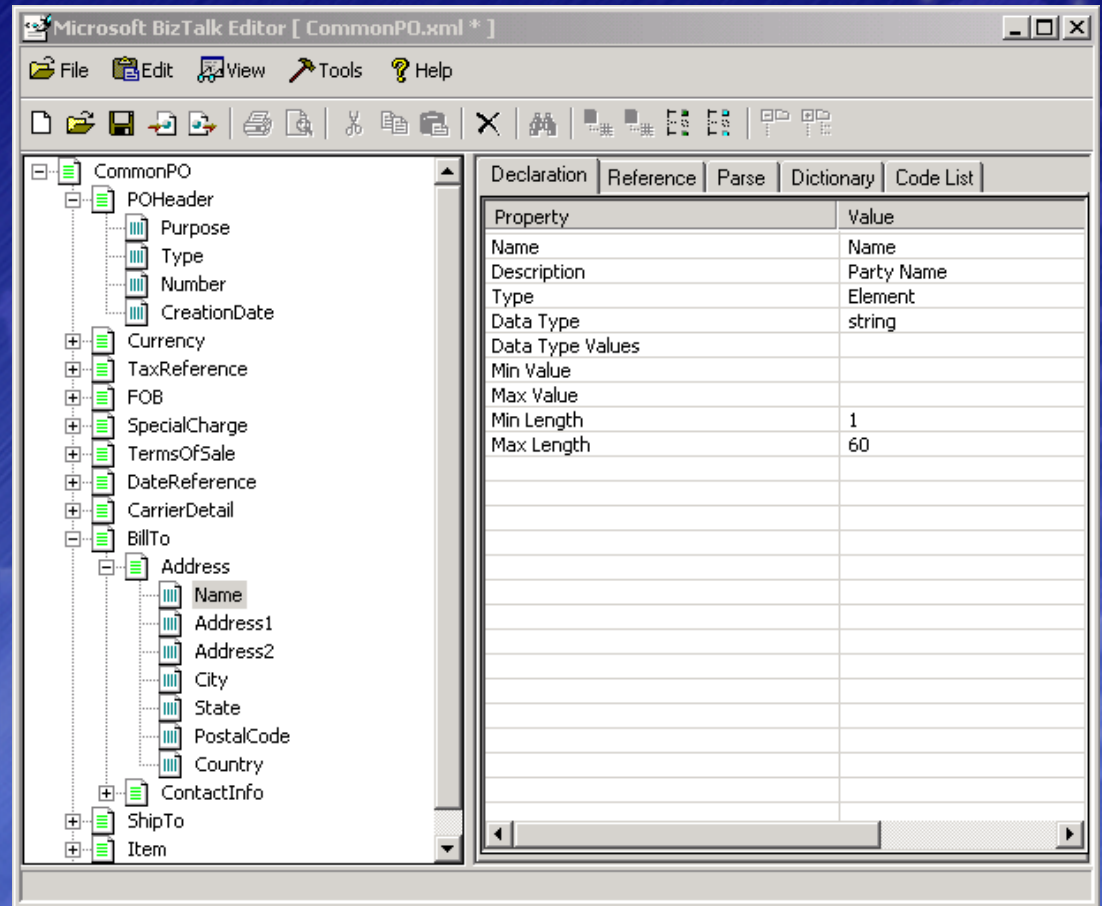


Example 2: XML to XML



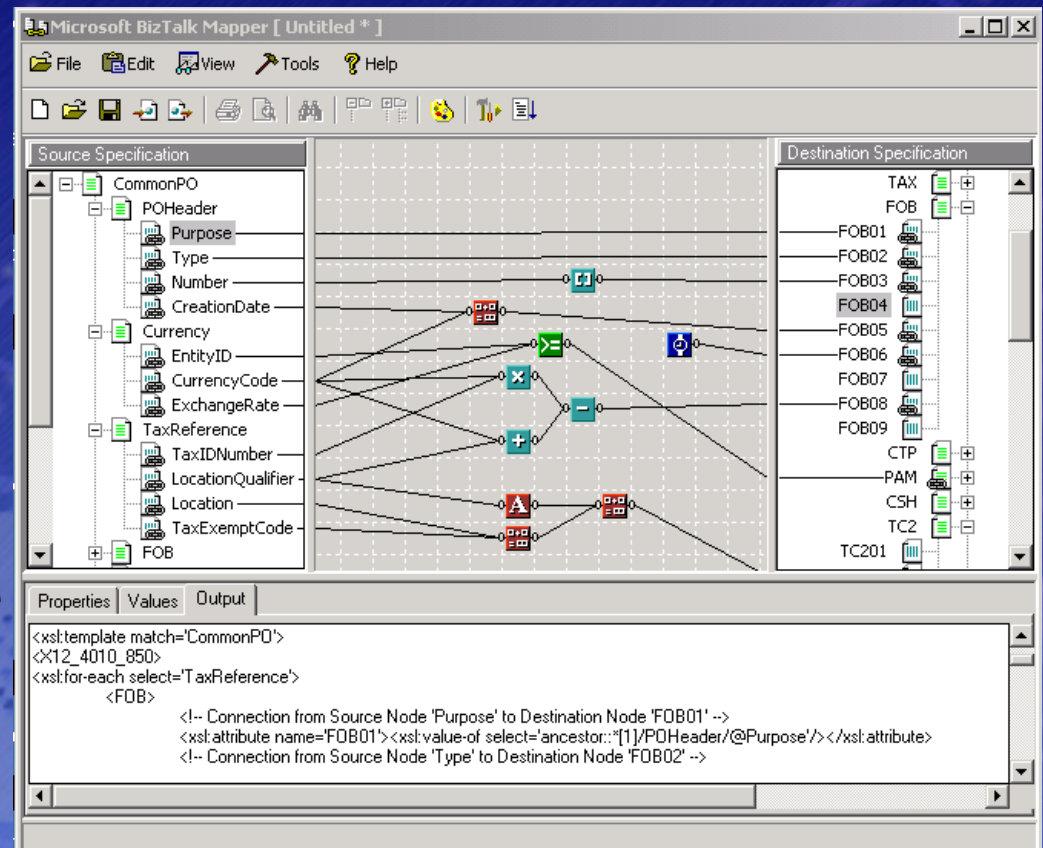
BizTalk Editor

- ❖ Define business document structures
- ❖ Generates BizTalk XDR syntax
- ❖ XML/Non-XML
 - EDI
 - Flat
 - ❖ Delimited
 - ❖ Positional
- ❖ Document Templates
- ❖ Import Modules
 - WF-XML
 - DTD
 - XDR Schema

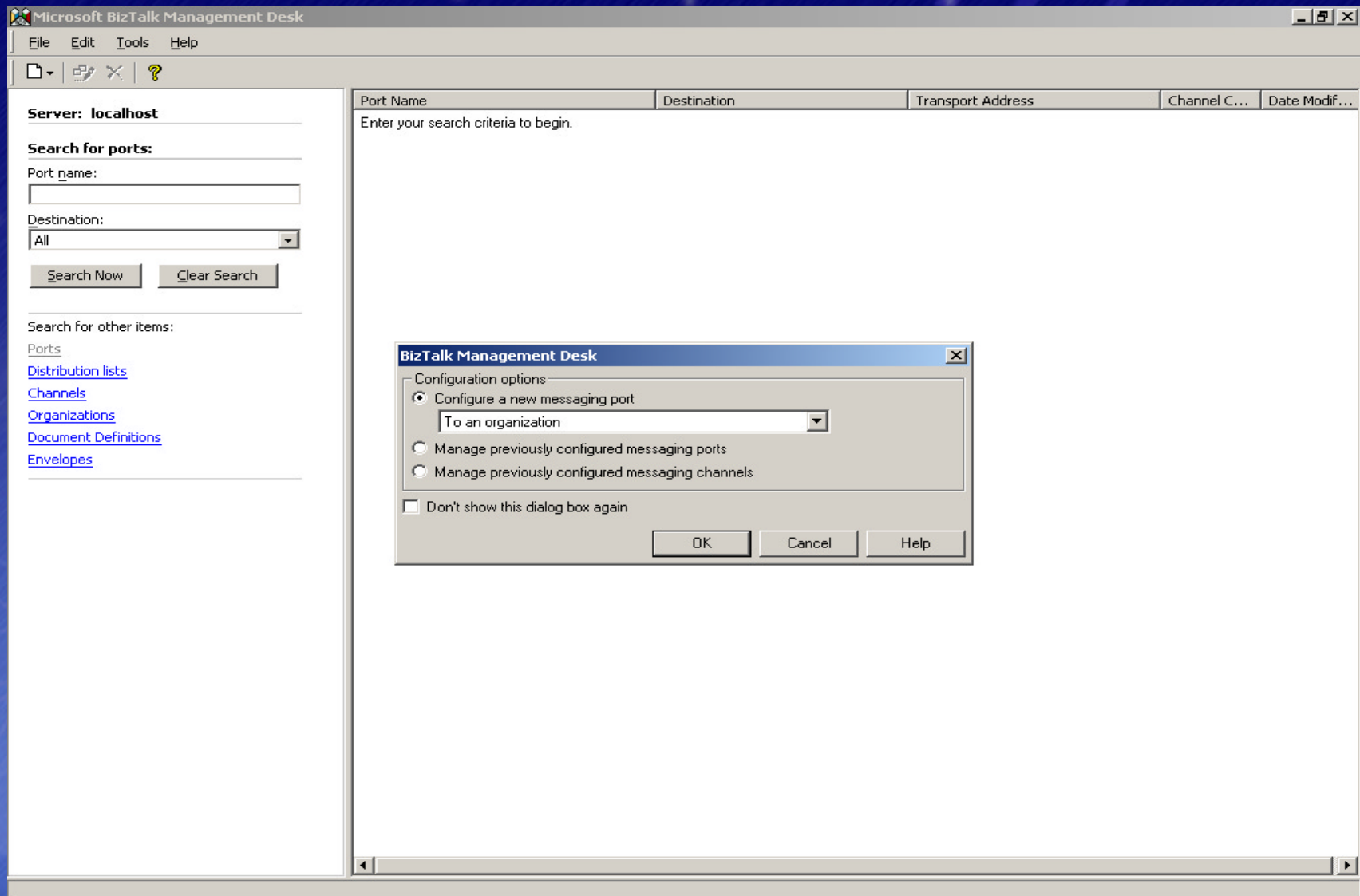


Schema Mapper

- ❖ XSLT Compiler Component
- ❖ Create maps - XDR schemas
- ❖ Extensible
 - Functoids
 - User Defined
 - Script
- ❖ Rich mapping zone



Mgmt Desk



Integrating with BizTalk Server 2000

- ❖ Meta-data (XDR)
 - ❖ Submit/out-bound events
 - ❖ Send from BTS (AIC, orchestration)
-
- ❖ System setup
 - ❖ Partnership setup
 - ❖ BizTalk Framework 2.0