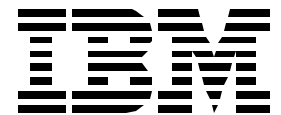




MQSeries Adapters: The NEON Adapters

Robert Gage/San Francisco/IBM
Dan Sherwood / New Era of Networks

March, 2001



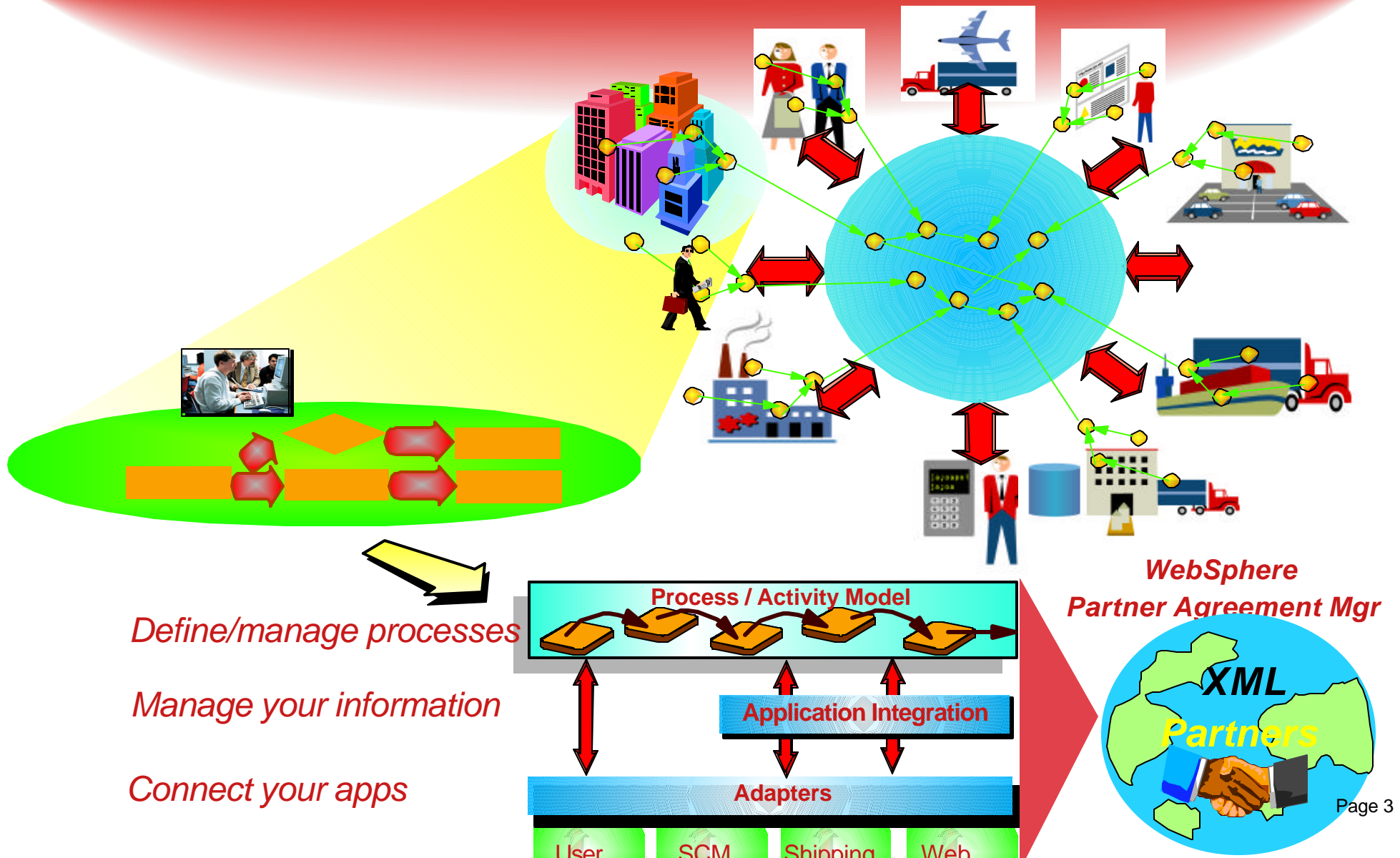
Objectives

You will leave this session

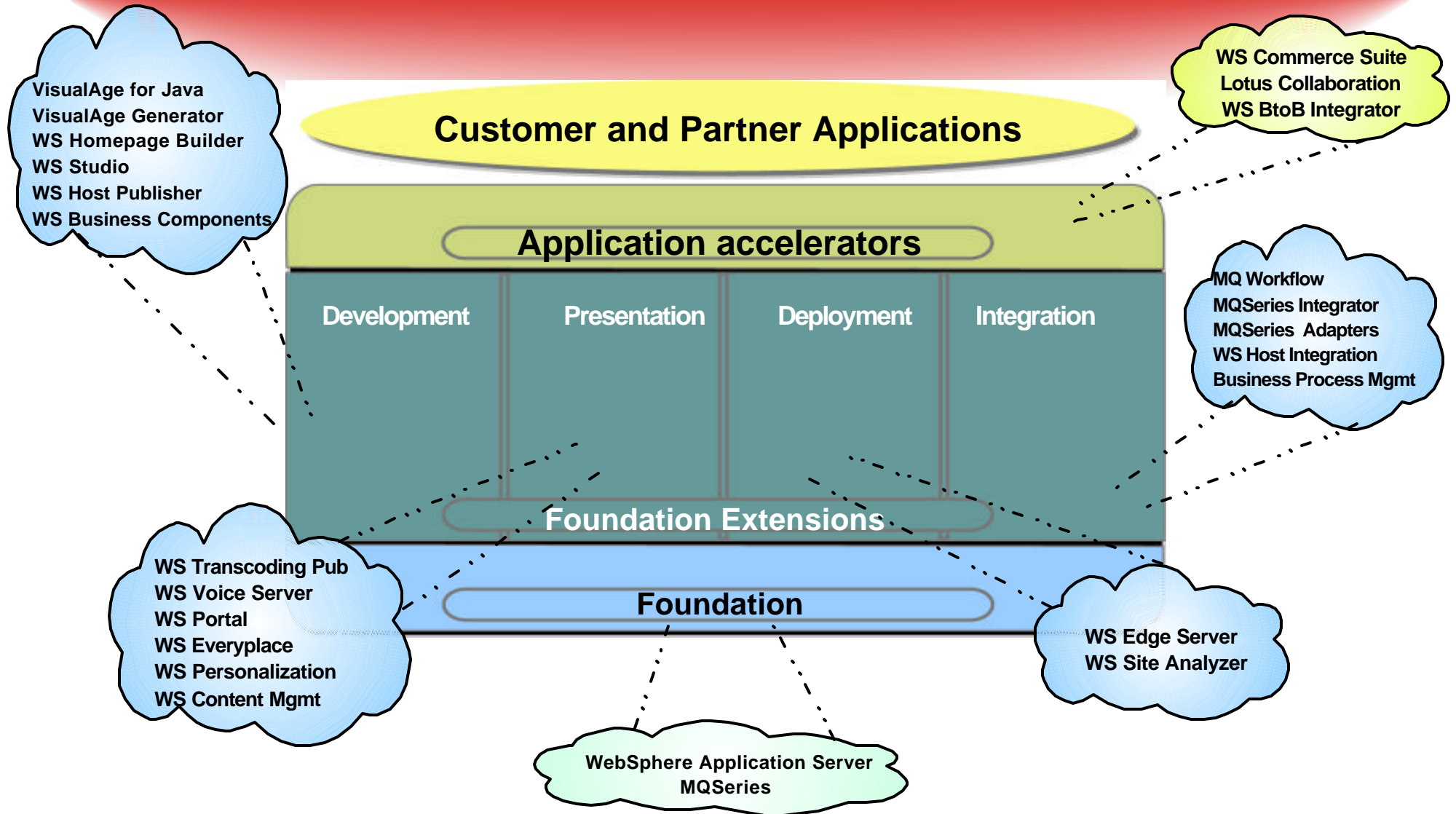
- Understanding positioning and the environment
- Understanding NEON adapter specifics:
 - The Neon adapters
- Understanding customer motivations leading to:
 - An understanding of our adapter strategy
 - An understanding of how to build a solution for your customer
- Understanding how the competition fits into the adapter environment
- Knowing where to find more information

WebSphere Software Platform

Integrate e-Business, Inside & Out

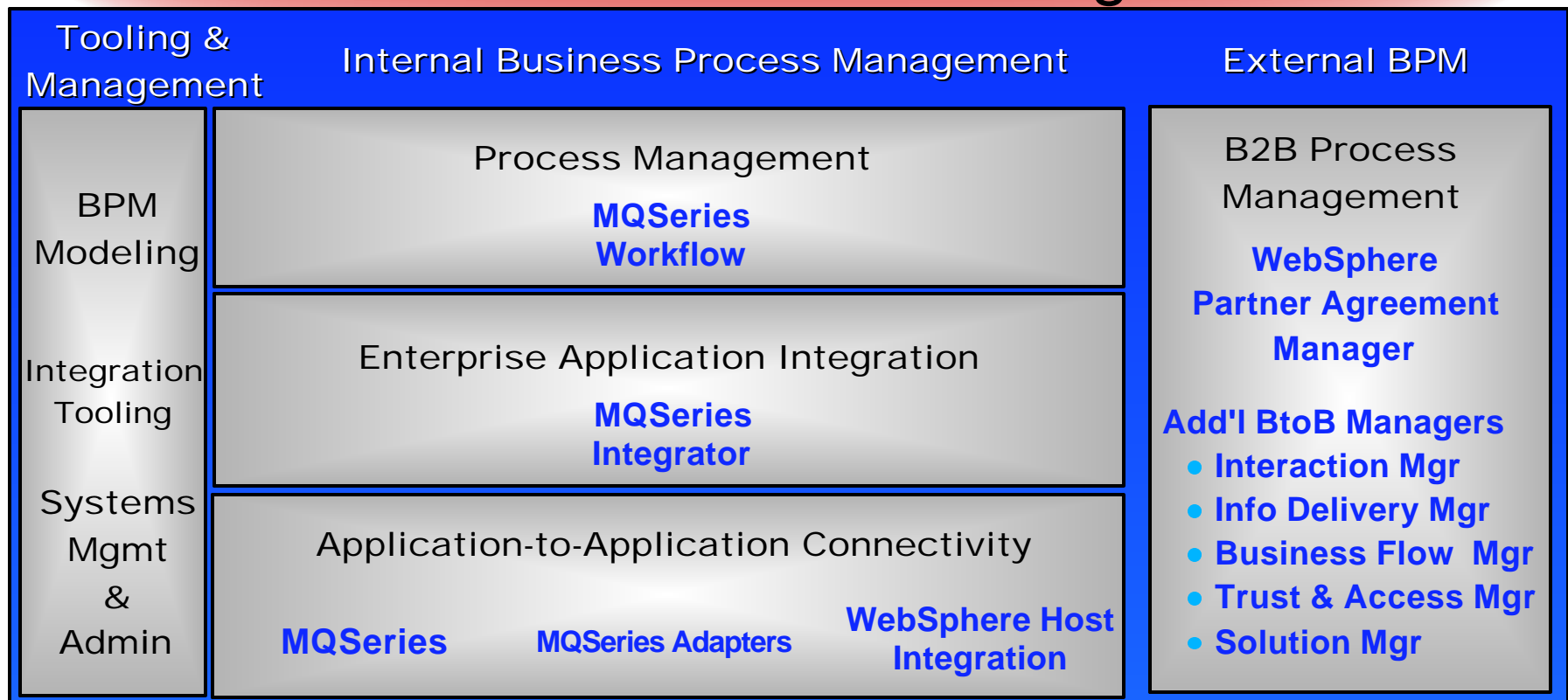


IBM Makes the Difference with the Power of the *WebSphere Software Platform*



Tying It all together ... Integration in the WebSphere Software Platform

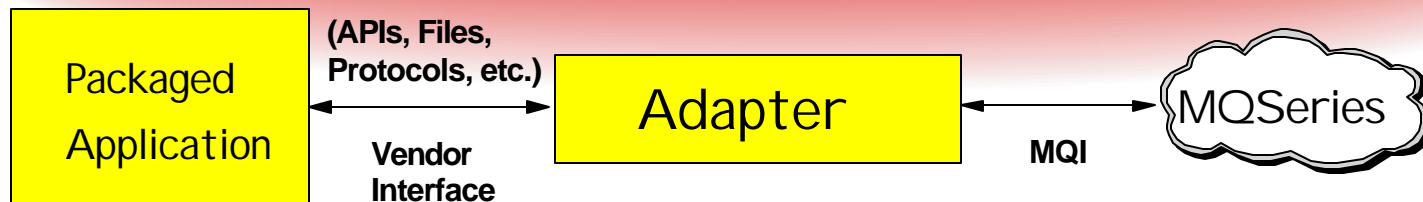
Business Process Management



WebSphere BtoB Integrator

- Single view of processes and transactions within, and beyond, the enterprise
- Rapid development and deployment of high ROI solutions
- Support for new and emerging device types
- Support for legacy and new applications

What is an "MQSeries adapter"?



- An adapter is MQSeries-enabled "Bridge" code that enables communication between an MQSeries application and a non-MQSeries application
- A very simple adapter will simply pass information between the two environments
- A more sophisticated adapter may have additional functions:
 - Message transformation, send-reply support, transactional support, etc.
- Note: Some applications do not have well-defined external interfaces or may not have message-based interfaces

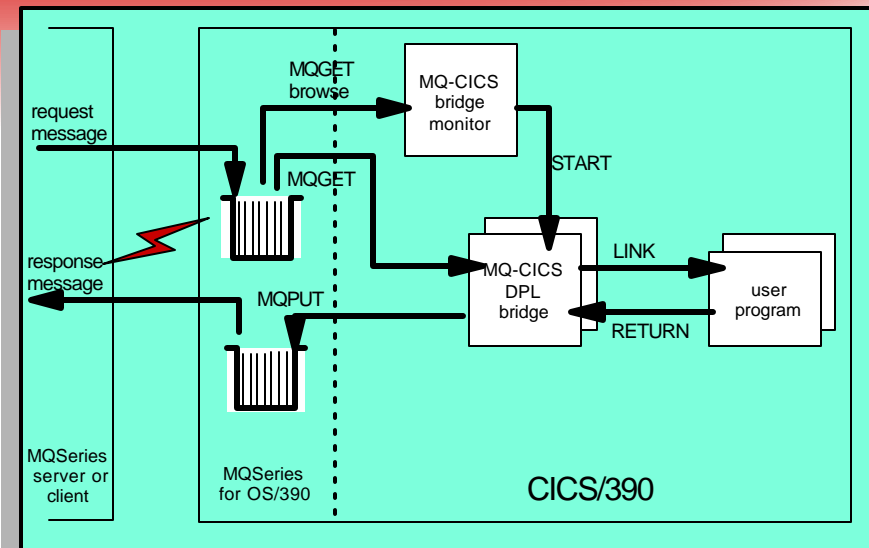
Complicating Factors for Integration

- Multiple versions of products (e.g. SAP R/2, R/3)
- Multiple sub-systems within products
- Multiple platforms
 - i.e. Operating systems and Databases
- Customization
 - i.e. configuration, tailoring, source code mod's
- Variety of interfaces
 - ▶ API s, File, Comm's (protocol), Database
 - ▶ Access to meta-data
 - ▶ Transactional capabilities
 - ▶ Performance requirements
 - ▶ Batch, synchronous & asynchronous styles

Examples of simple adapters: MQSeries-CICS DPL & 3270 Bridges

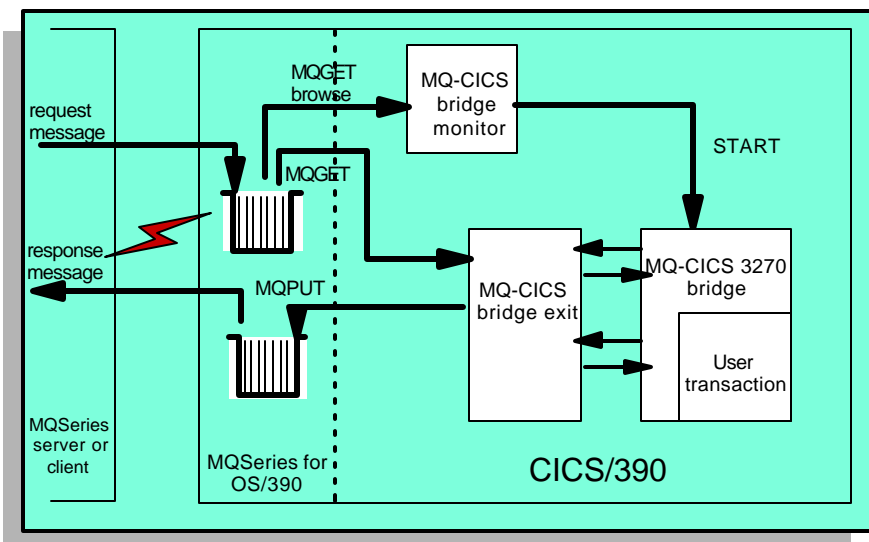
For CICS applications using
a communications area
(COMMAREA):

MQ-CICS DPL Bridge



For native 3270 CICS
applications:

MQ-CICS 3270 Bridge



Simple Adapters

- Non-intrusive technology
- Application programmers know nothing of the transport (MQSeries)
- Independent of the other side
- But ...
 - Translation is up to you
 - Someone must deal with IDOCs, COMAreas, Headers, etc.

More functional adapters:

- Provide translation capabilities
 - ▶ Metadata imported into the Formatter
 - ▶ XML and a DTD
 - ▶ Some industry standard such as OAG or Rosettanet
- Transactional characteristics
- Examples:
 - ▶ Neon adapters
 - ▶ MQAO

The customer vision:

- Off the shelf for every application they have
 - Any application version, any platform, any DB, etc
- One vendor
- Plug - in
- Reliable
- Scalable
- No training required
- No services required
- Shrink-wrap software

Reality:

- Adapters will require service
 - ▶ not truly off the shelf
- There will be training required
- Building an adapter requires application knowledge
- For complex customer situations you will need:
 - ▶ off the shelf from business partners
 - ▶ custom made for some applications

General strategy:

- ***Know the customer situation***
- **Lead with off the shelf adapters**
 - ▶ Neon where possible
 - ▶ Extricity or other business partners next
 - ▶ Others where nothing else fits
- **MQAO**
 - ▶ where no 'off the shelf' adapters are available
 - ▶ where you are using selling B2BI
 - ▶ where you have a strong build vs buy mentality
 - ▶ where packaged with IGS or AIM Services offering

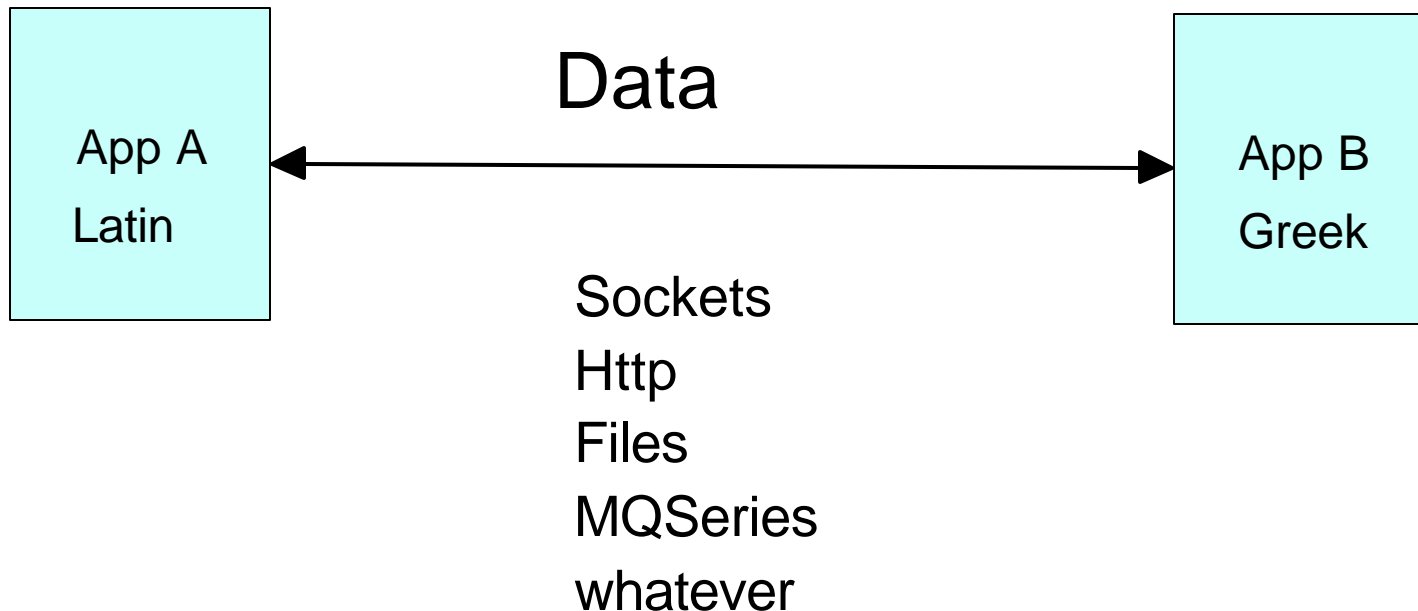
Good news, Bad news

- You need to sell MQSeries first
 - ▶ Our competitors work with or without MQSeries
- Our solution is flexible, scalable, robust
- Our solution may be more complex and more expensive
- Our solution will probably involve business partners
- The customer will most likely need services to implement



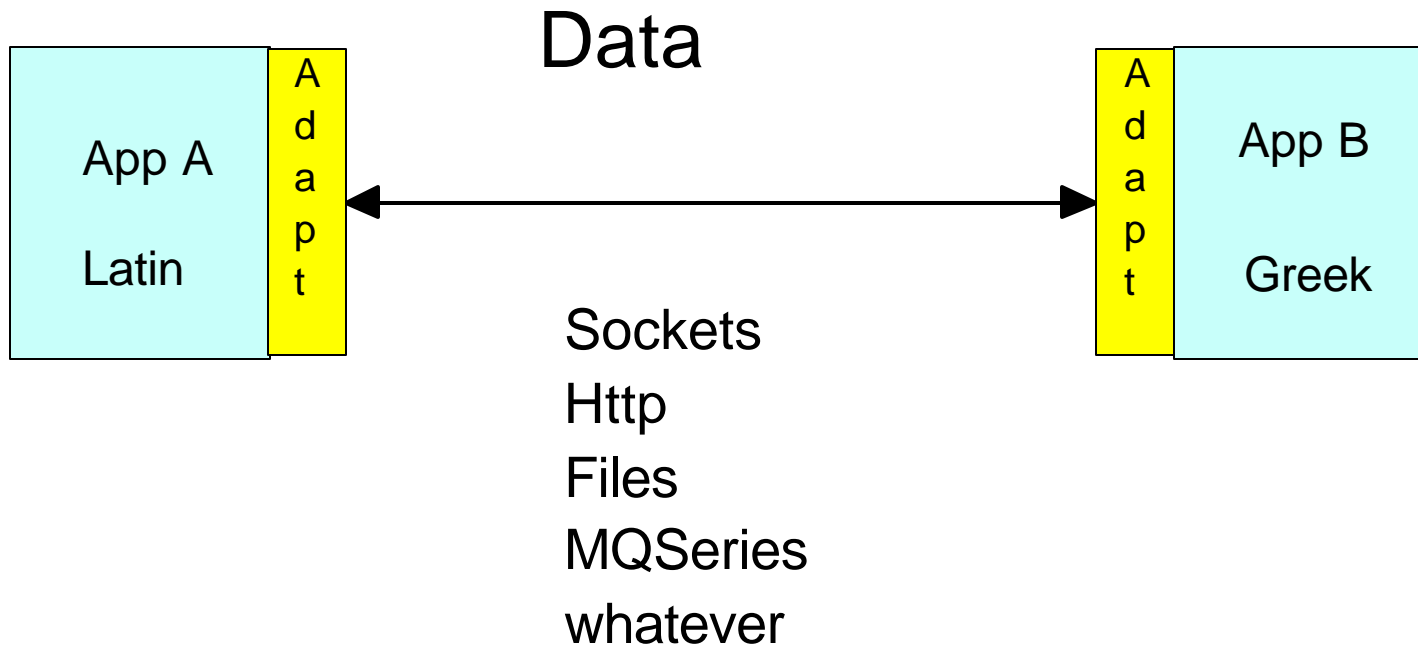
An example

- Two applications need to exchange data
- They need a translator
- The customer is not an MQSeries customer
- They don't care about the transport



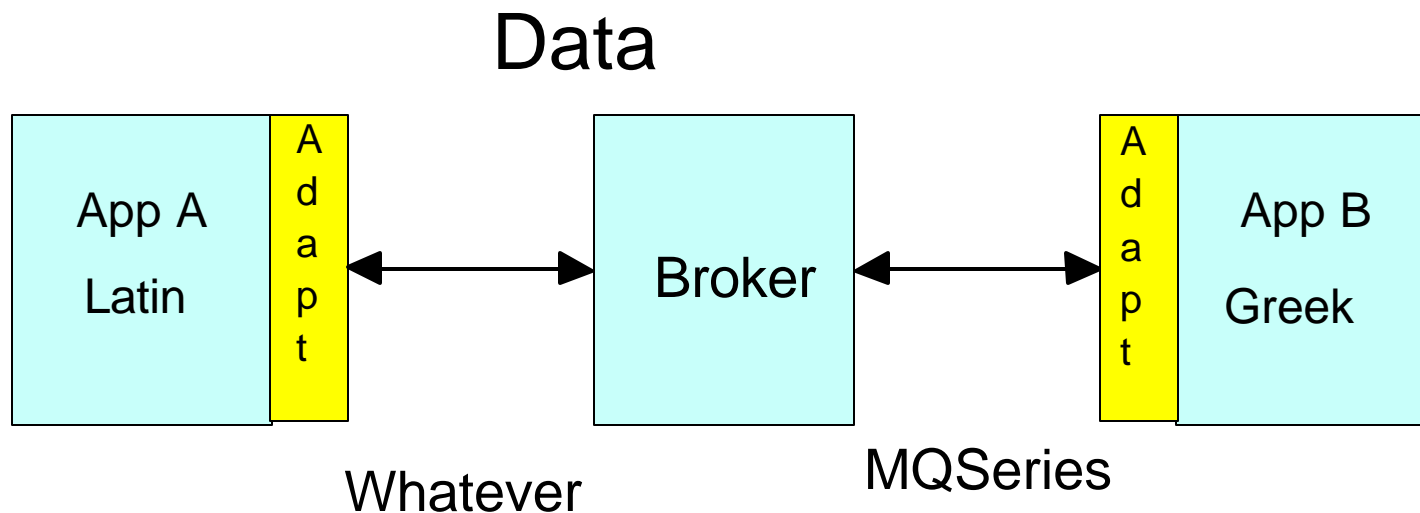
The competition:

- A competitor might propose a simple translator:



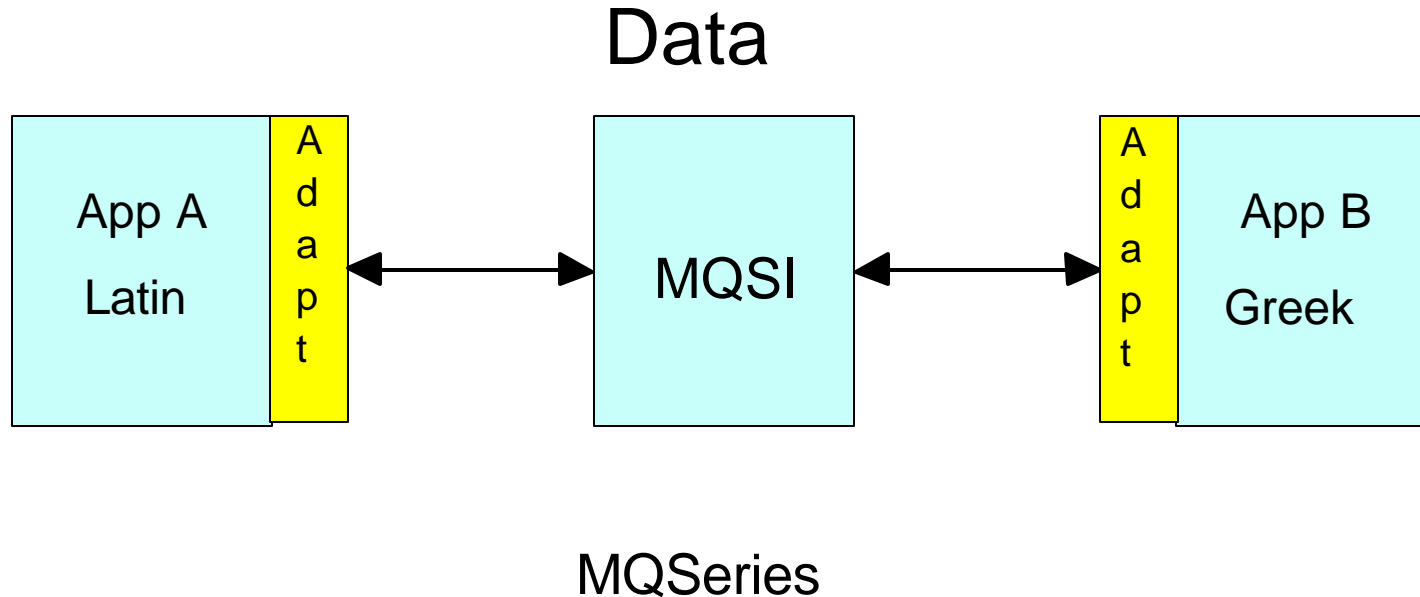
The competition:

- Or a broker
- Using MQSeries or whatever to communicate



Our proposal:

- MQSeries is required
- MQSI is our standard for doing transformations



Or perhaps....

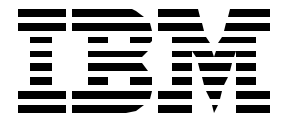
- MQSeries is required
- MQAO can be used for tranformation



Sell our strengths

- MQSeries market share and reputation
- Our business partners as a strength
- Extensibility
- Flexibility
- The IBM organization

Sell an IBM solution
not just a product



Summary

- No 'one vendor' answer to adapters
- Choice and flexibility is good....
 - ▶ we offer the most choice and flexibility
- Selection of partner or MQAO depends on:
 - ▶ Required adapters
 - ▶ Application interface
 - ▶ Data interfaces
 - ▶ Programming style
 - ▶ How integrated/dependent the customer wants to be on a vendor's middleware
 - ▶ How much customization is required

More information

- NEON:
<http://www.neonsoft.com>
James Vazquez/Tarrytown/IBM@IBMUS
- Adapter Teamroom:
Coming Soon - watch for MQ note from Jerry St Marie
- *More Teleconferences: MQAO, Competition, etc*



Product details: Neon