

#### **IBM Software Group**

# 2004 WDI / WBIC Customer Conference

Global Business Transformation

WebServices Transforms BNSF
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WebSphere. software





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# **Objectives**

- Review BNSF WebService application
- Identify business impacts
- Identify technology issues



#### **BNSF**





- Operates one of the largest railroad networks in North America
- 33,000 Route Miles
- Covering 28 States and two Canadian Provinces
- Network covers the western two thirds of the United States
- Moves more Intermodal equipment then any other Railroad in the world
- America's largest grain-hauling railroad
- Hauls enough coal to generate more than 10 percent of the electricity produced in the United States
- Employs approximately 38,000 people.
- Exchange approximately 1.5 million transactions every day

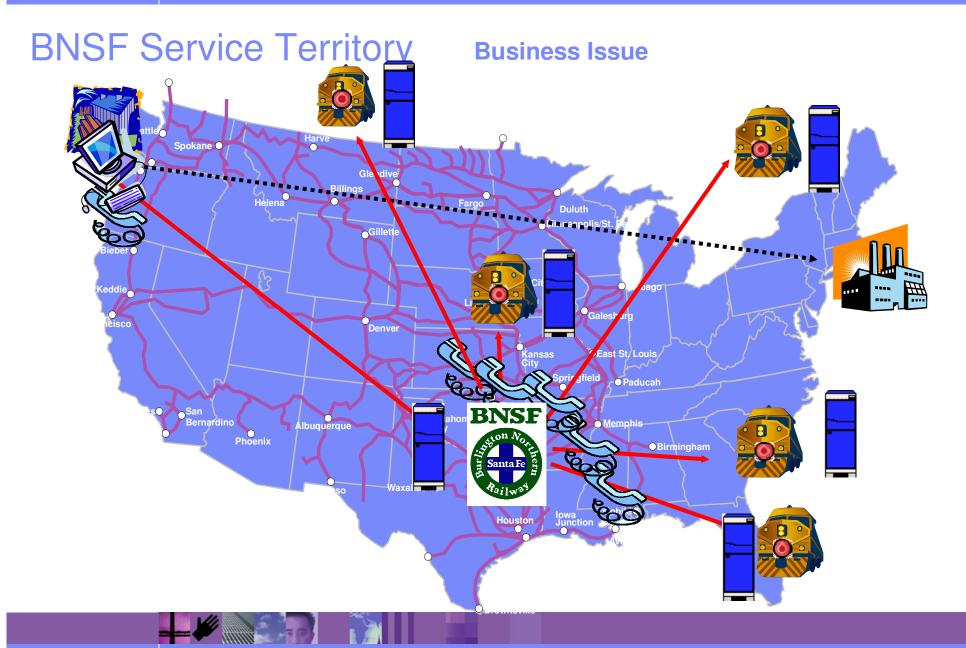




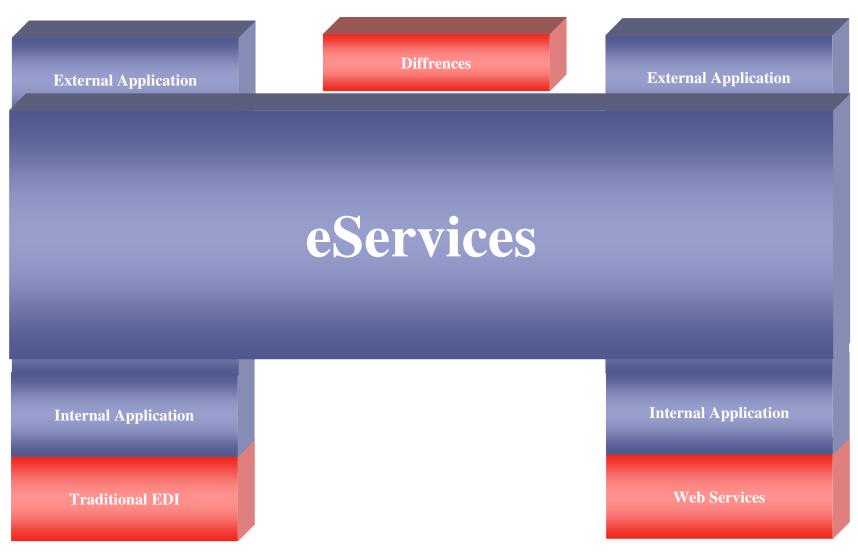


- Opportunities
  - Ease of doing
    Business
  - > Productivity

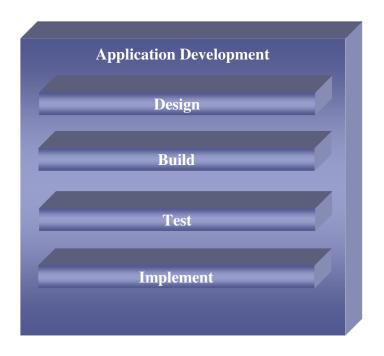


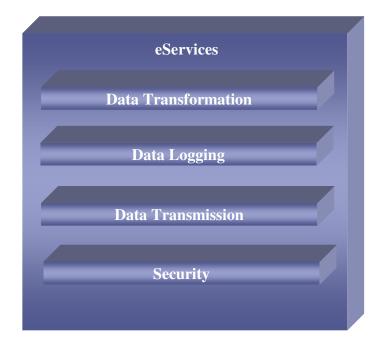










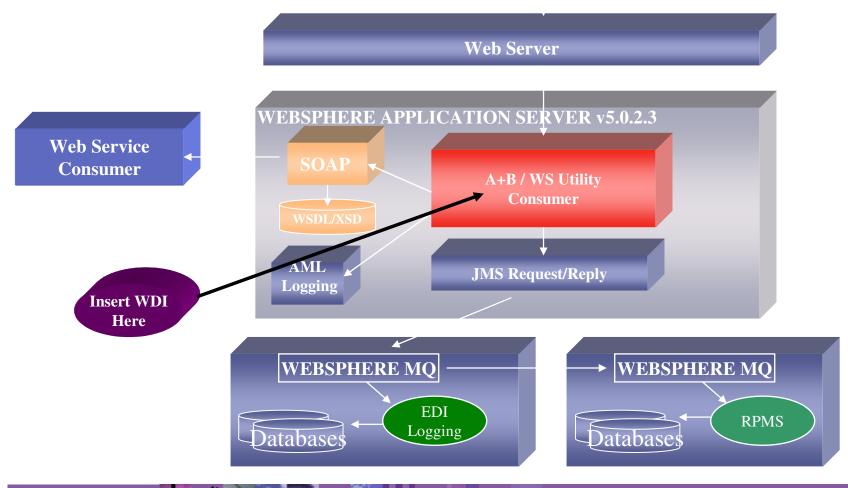




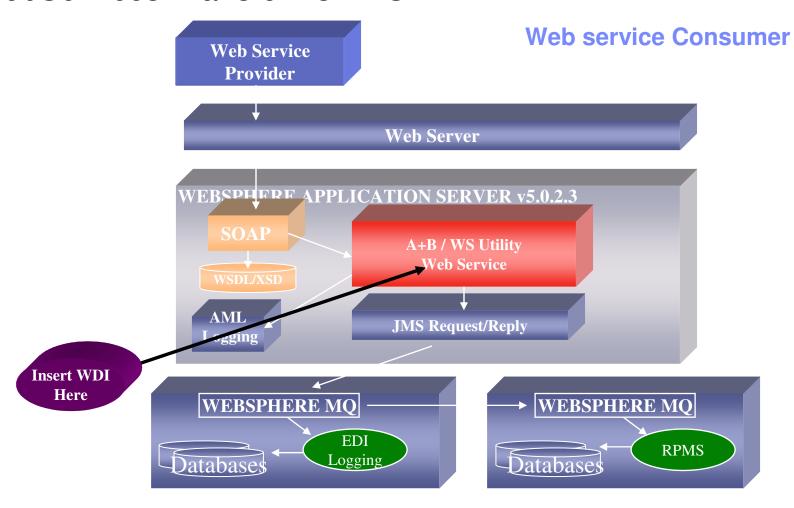
## WebServices Transforms BNSF Web Clients













#### The Future

- Loose coupling with Customers
- Customer Driven
- B2B enhancement
- Lower Cost



Issues

- Security
- Logging
- XML
- Testing



- Security
  - Pieces missing
  - ➤ Knowledge Gap
  - Denial of Service



- Logging
  - ➤ Historical data
  - Performance reporting



### XML

- ➤ It may not be the silver bullet
- Central Repository
- Managed changes
- Coordinated Implementation



- Testing
  - ➤ Coordination
  - Length
  - ➤On going



# Summary

- Begin electronic communication/security early
- Don't under estimate time required for coordination
- On going support and development cost
- Setup upfront XML controls
- Technology is still leading edge
- Webservice is complementary to "EDI"