

# Business Transaction Protocol

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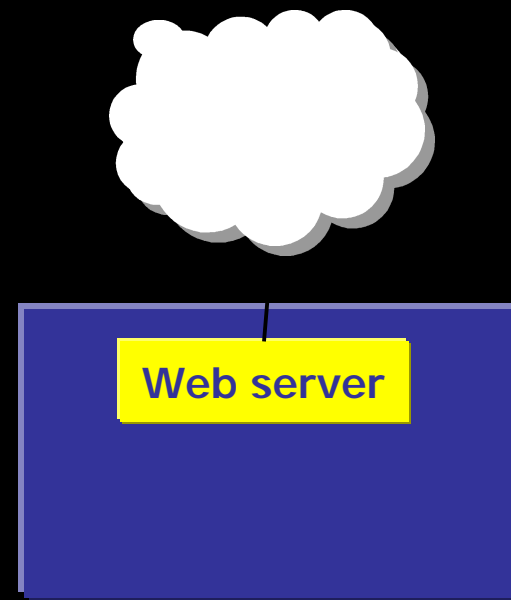
GRESHAM

# Agenda

- ◆ why do we need a Business Transaction Protocol?
- ◆ some scenarios
- ◆ so, what is BTP?
- ◆ but why not just use existing protocols?
- ◆ what can a business do with BTP?
- ◆ what's next?

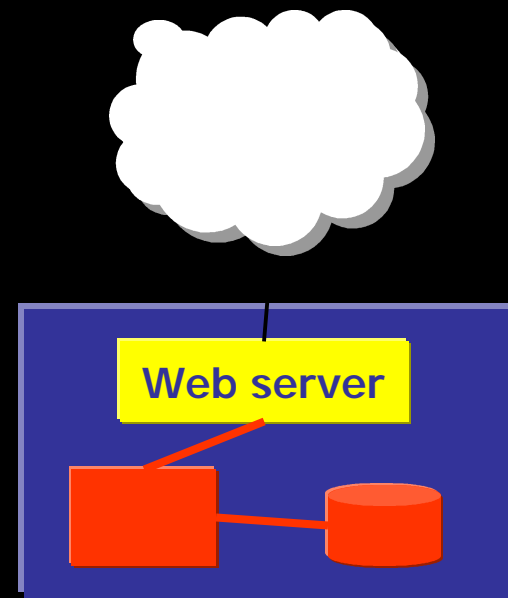
# why do we need a Business Transaction protocol?

- ◆ every enterprise has a Web site



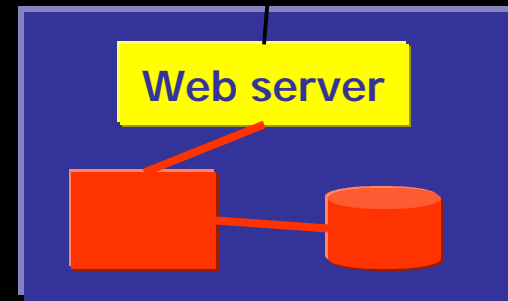
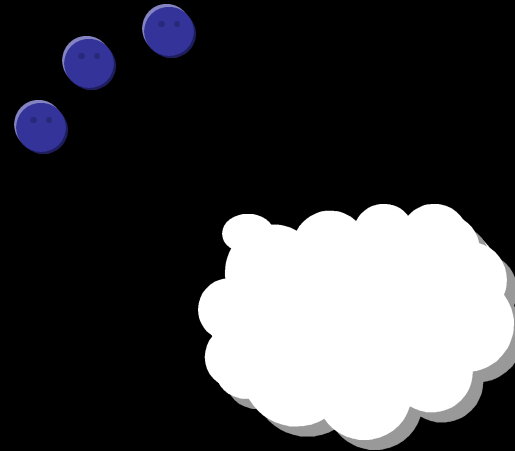
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- ◆ every enterprise has a Web site
- ◆ business-critical information services over the Web



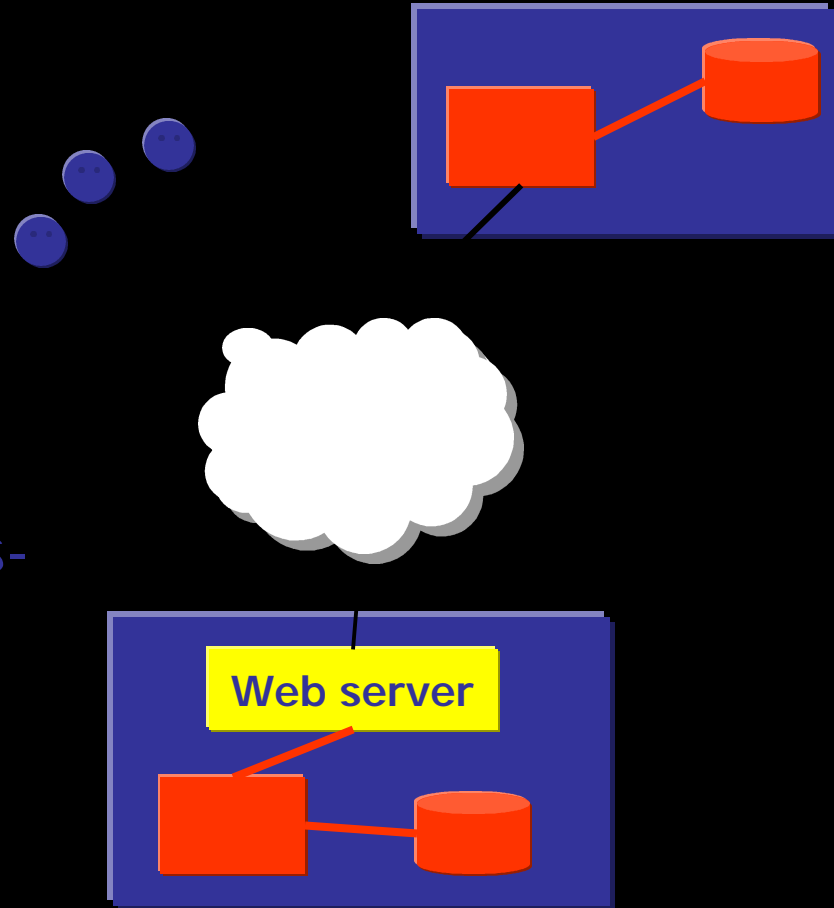
# why do we need a Business Transaction protocol?

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- ◆ business-critical information services over the Web
- ◆ currently only delivered to Web browser users



# why do we need a Business Transaction protocol?

- ◆ every enterprise has a Web site
- ◆ business-critical information services over the Web
- ◆ currently only delivered to Web browser users
- ◆ main requirement is business-to-business access
- ◆ main requirement is app-to-app comms over the Web
- ◆ for global Business Transactions

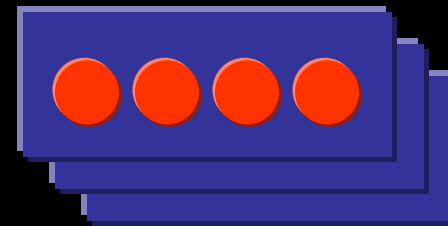
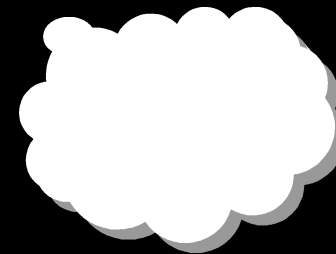


# why do we need a Business Transaction protocol?

- ◆ the enterprise needs to make information services accessible to client applications
- ◆ with a standard protocol for app-to-app communication over the Web
- ◆ support for Business Transaction, TIP Transaction and Security contexts
- ◆ support for service discovery
- ◆ formal service descriptions and data formats
- ◆ low entry point, extensible, robust, scaleable
- ◆ ubiquity — needs to be everywhere — like HTTP

# scenario

- ◆ agent application runs a multi-vendor, long-running business transaction
- ◆ enquire, reserve, cancel, confirm services
- ◆ how are the vendor services used?
- ◆ what if they change?
- ◆ agent needs to be in control



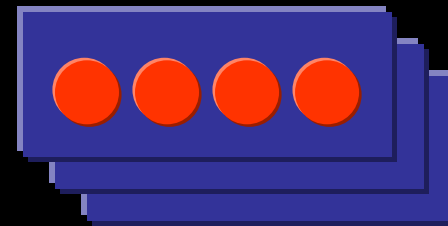
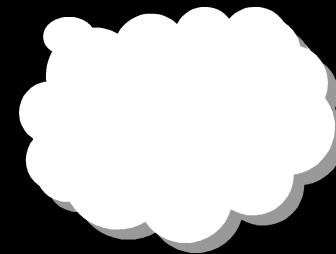
vendor servers



# scenario

- ◆ order tracking needs to use many parcel tracking services
- ◆ currently HTML over HTTP - designed for browsers
- ◆ people are already using what is there — and screen scraping the Web
- ◆ we are building tomorrow's legacy Web scrapers today...

order tracking application



parcel tracking servers

# what is BTP?

- ◆ connectionless application-to-application communication protocol
- ◆ provides dynamic discovery and invocation of services
- ◆ generic, but allows industry and business-defined service attributes
- ◆ data is transmitted in XML, described by DTDs, version controlled
- ◆ can carry Security, Business Transaction and TIP Transaction contexts
- ◆ places minimal constraints on client and server application environments
- ◆ — ODBC for Web applications

what is BTP?

what is BTP?

# why not just use existing protocols?

## ◆ HTTP

- ❖ clumsy data input mechanism by forms
- ❖ meant for Browser client
- ❖ no discovery mechanism
- ❖ no natural support for Business Transactions

## ◆ IIOP

- ❖ exclusive — requires CORBA ORB at both ends
- ❖ no natural support for Business Transactions

# what can a business do with BTP?

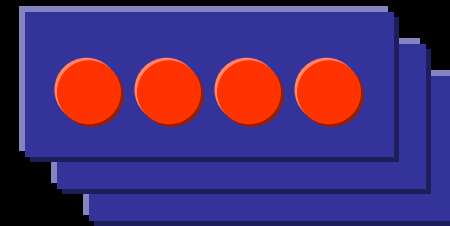
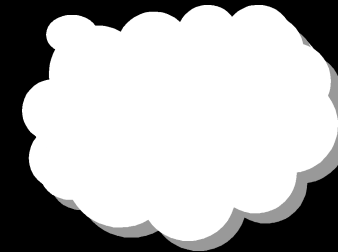
## ◆ as a client

- ❖ build applications that use external services
- ❖ request support for transactions
- ❖ manage long-running transactions

## ◆ as a server

- ❖ offer external services with a well-defined interface
- ❖ deliver machine-readable descriptions of those services
- ❖ offer support for transactions

Web client  
application



BTP services

# what next?

- ◆ BTP draft 0.1 published on Open Group web site to generate discussion
- ◆ Gresham to deliver an early BTP reference implementation, with Java client API, in Q2 1999
- ◆ needs positioning with other industry-specific initiatives
  - ❖ FIX, OTP, OBI
- ◆ further development required
- ◆ let's avoid a world full of HTML-scraping legacy Web applications...

"network  
computing  
should be  
kid's play"

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**GRESHAM**