

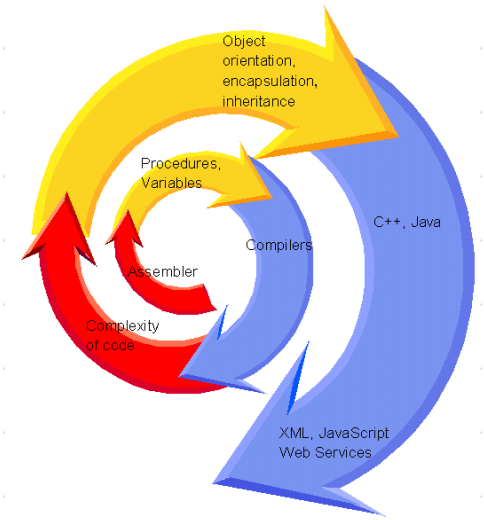
# Web Services for Interactive Applications

OASIS WSIA Technical Committee

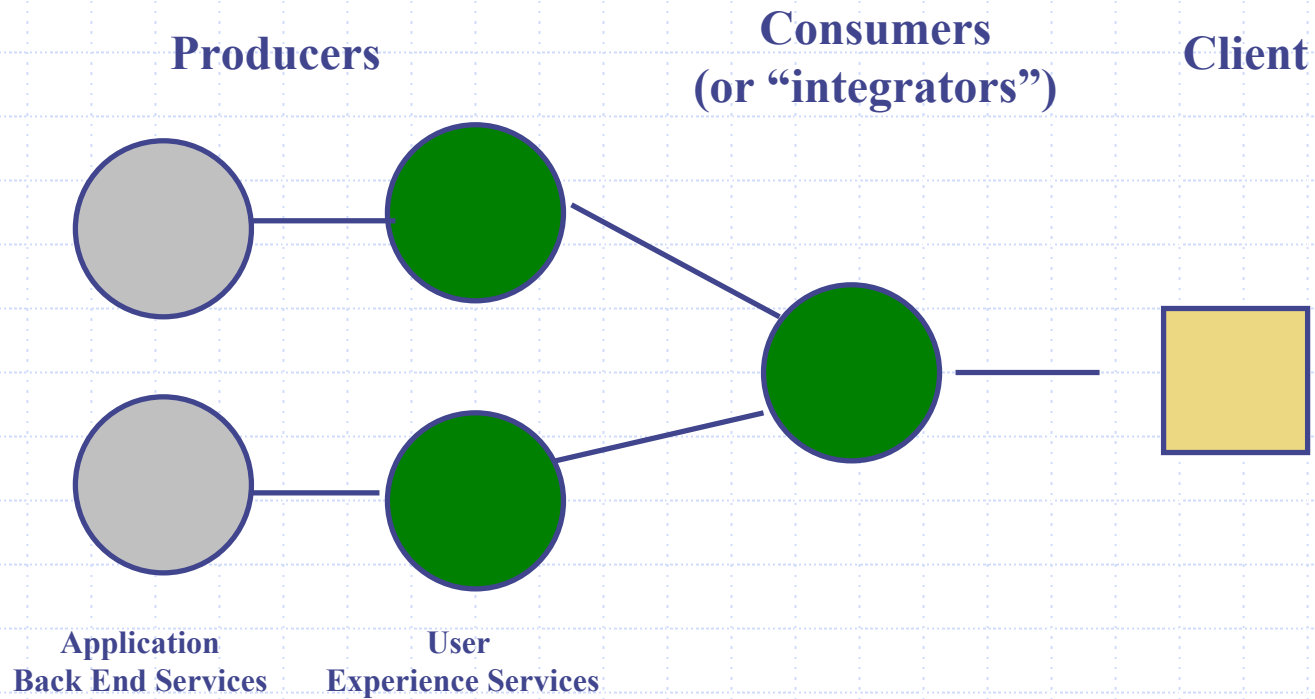
BEA, Bowstreet, Cisco, CrossWeave, Cyclone Commerce, Divine, Documentum, USAF/Dept of Defense, Epicentric, France Telecom, Fujitsu, HP, IBM, Intel, KiNZAN, Macromedia, Nokia, Peregrine Systems, Plumtree, Pointgain Corp, SeeBeyond, Silverstream, Sterling Commerce, Vitria, WebCollage

# The business payoff...

- ◆ Business want to distribute web applications through ***multiple distribution channels*** and ***multiple deployment mechanisms***.
- ◆ Business want to easily create new web applications by ***leveraging*** a world wide pallet of ***user interface assets***.



# Producers and consumers of end-user experience



# Business Scenario

The screenshot displays the 'divine ENTERPRISE PORTAL' website interface. The page includes a navigation bar with links for 'home', 'subjects', 'sources', 'search', 'tracker', and 'support'. The main content area is divided into several sections:

- 1**: Personalize this page (top right)
- 2**: World Market Monitor (table of market data)
- 3**: Real Time News (news feed)
- 4**: FAME (Financial Analysis and Modeling Environment) charting tool
- 5**: News & Money (bottom left)
- 7**: My Pages (personalized content)
- 8**: Alerts (notification settings)
- 9**: Quotes (market quotes)
- 10**: Bank Research (research tools)

**World Market Monitor Table:**

Symbol	Last	Change	% Change	Prev Close	52 wk. High	52 wk. Low	Updated
IBM	9,777.92	-108.95	-1.02	9,886.87	11,425.45	9,104.50	16:02
MSFT	1,514.59	-54.66	-3.60	1,569.25	1,855.7	1,520.10	16:02
GOOG	5,610.7	26.7	0.47	5,584.0	11,491.76	7,933.97	16:02
AMZN	12,727.3	-33.34	-0.26	12,760.64	15,274.67	12,336.97	09:07
ORCL	12,927.86	-61.04	-0.46	12,988.9	14,196.62	11,420.00	09:09
YHOO	19,991.3	-157.15	-0.77	20,148.45	19,020.00	13,768.25	16:02

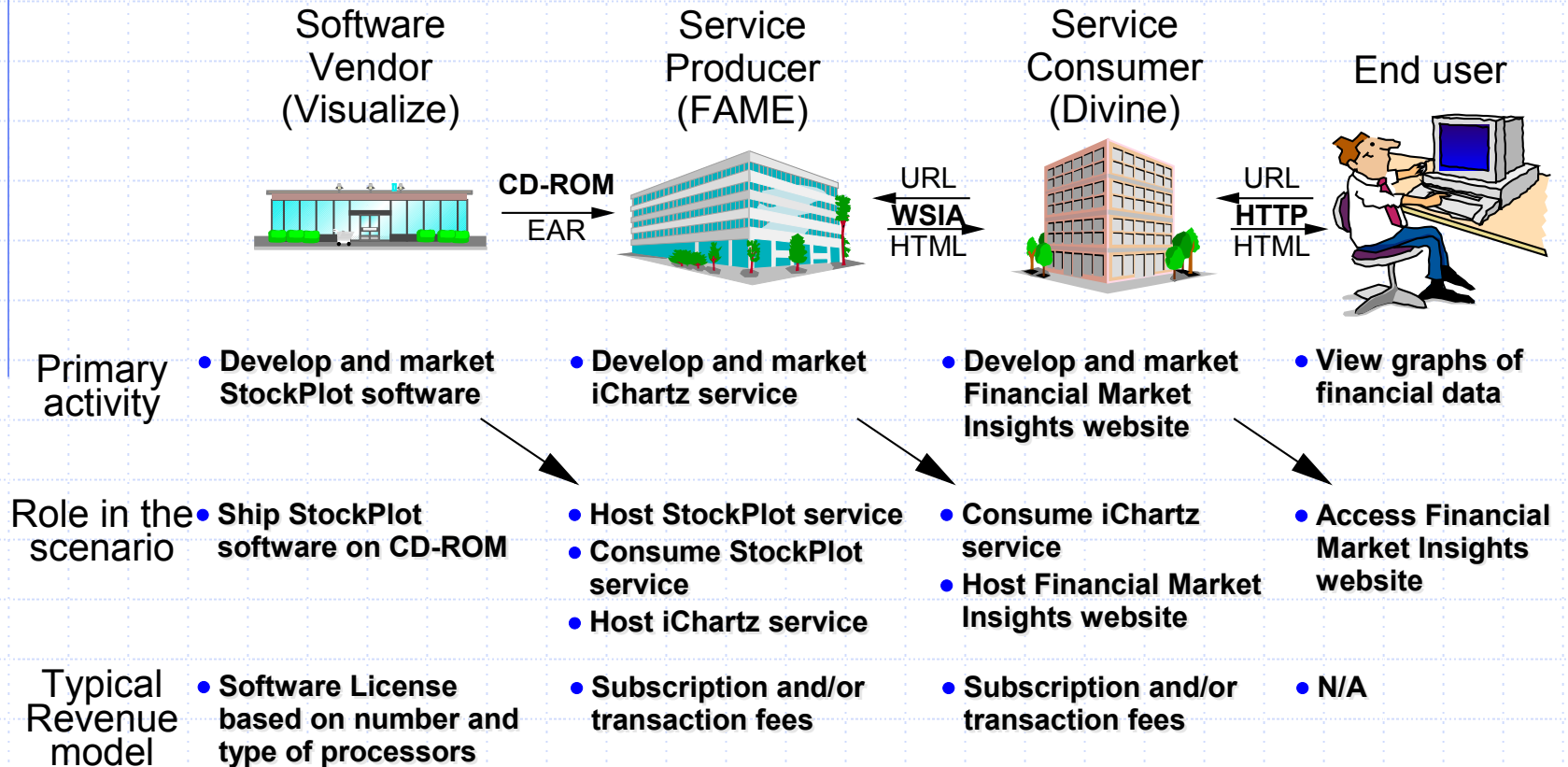
**FAME Charting Tool:**

Compare to:  Add Clear All Chart Color Multiline

Symbol: MBR  
 Program: UG (Index)  
 Data Range: 1 Year  
 Update: Daily  
 Closing Prices  
 Volume: None  
 Moving Average: None

The chart displays two data series over a 1-year period from April to March. The top series (orange) shows a fluctuating upward trend, while the bottom series (black) shows a more stable, slightly downward trend. The y-axis ranges from 0 to 25, and the x-axis shows months from Apr to Mar.

# Business Scenario - OEM Value Chain



# Why little focus on the UI in web services to date?

- ◆ Lack of perception of the UI as a distributed app problem
  - single-tier UI v. multi-tier value chains of UI
- ◆ Lack of focus on the need to support diversity of the UI
  - multiple combinations of “who”, “what”, “how”
- ◆ It’s a messy problem
  - XHTML, WML lack semantics of data-oriented XML
  - how to raise level of abstraction without introducing new and hard-to-get-adopted markup languages?

## Our approach...

- ◆ Start by supporting the current web: opaque markup
  - simple service-oriented interface for expressing UI metadata
  - properties, actions, markup
  - aligned with remote portlet proposals (WSRP)
- ◆ Extend with page-level descriptions
  - flow composition across pages
  - data and UI state initialization
- ◆ Extend with sub-page level descriptions
  - MVC decomposition as separate services
  - XML event synchronization of data and presentation

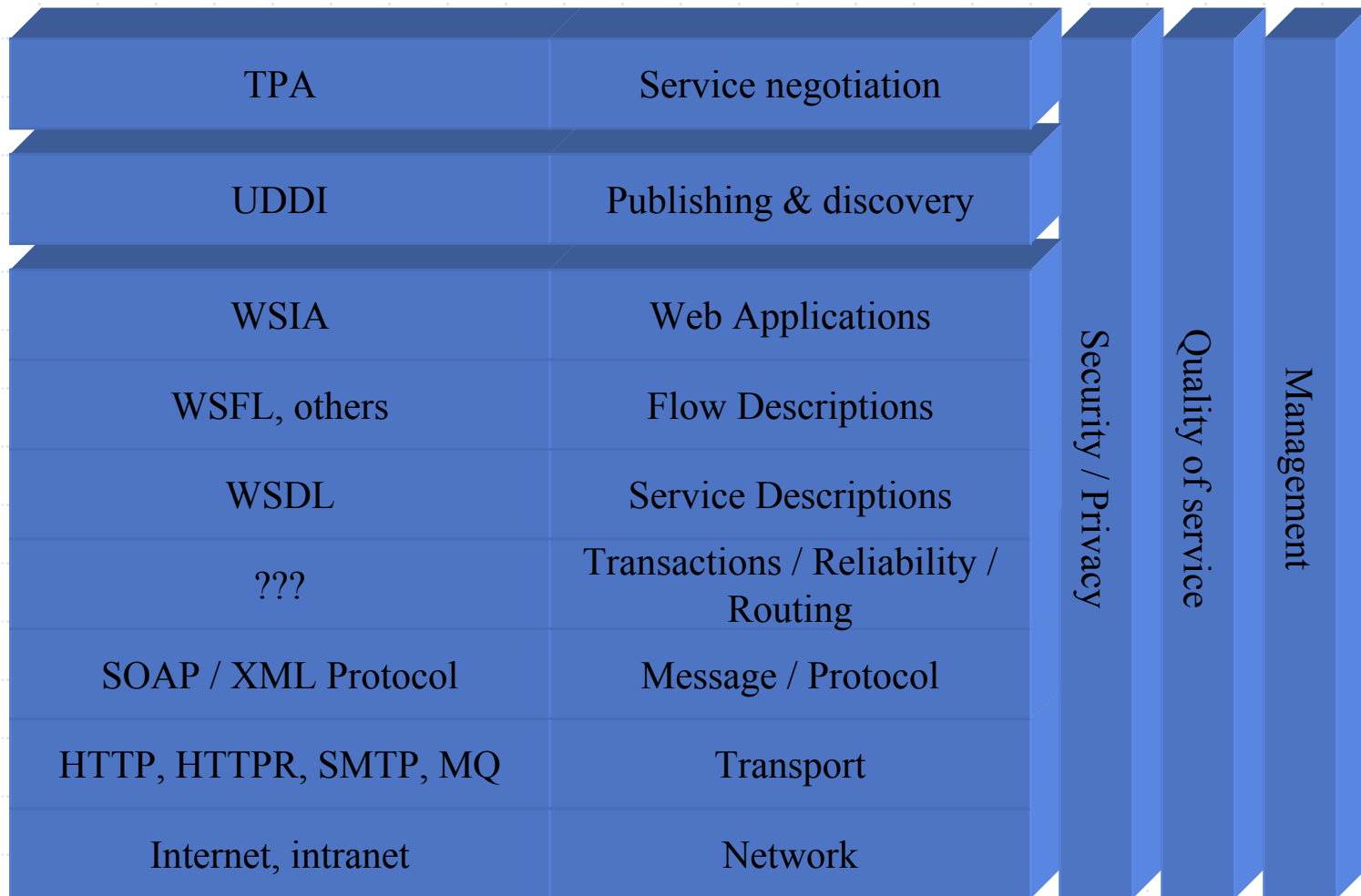
# Charter of the WSIA Technical Committee: Goals

- ◆ The aims of the WSIA TC shall be as follows:
  - Create an XML and web services centric framework for interactive web applications. The designs must achieve two main goals: enable businesses to distribute web applications through multiple revenue channels, and enable new services or applications to be created by leveraging existing applications across the Web.
  - To harmonize WSIA as far as practical with existing web application programming models (e.g. Portals, Macromedia Flash, etc.), with the work of the W3C (e.g. XForms, DOM, XML Events, XPath, XLink, XML Component API task force), emerging web services standards (e.g. SOAP, WSDL, WSFL), and with the work of other appropriate business information bodies.
  - Ensure that WSIA applications can be deployed on any tier on the network and remain target device and output markup neutral.
  - Ultimately, to promote WSIA to the status of an international standard for the conduct of XML and Web Services based web application development, deployment and management.

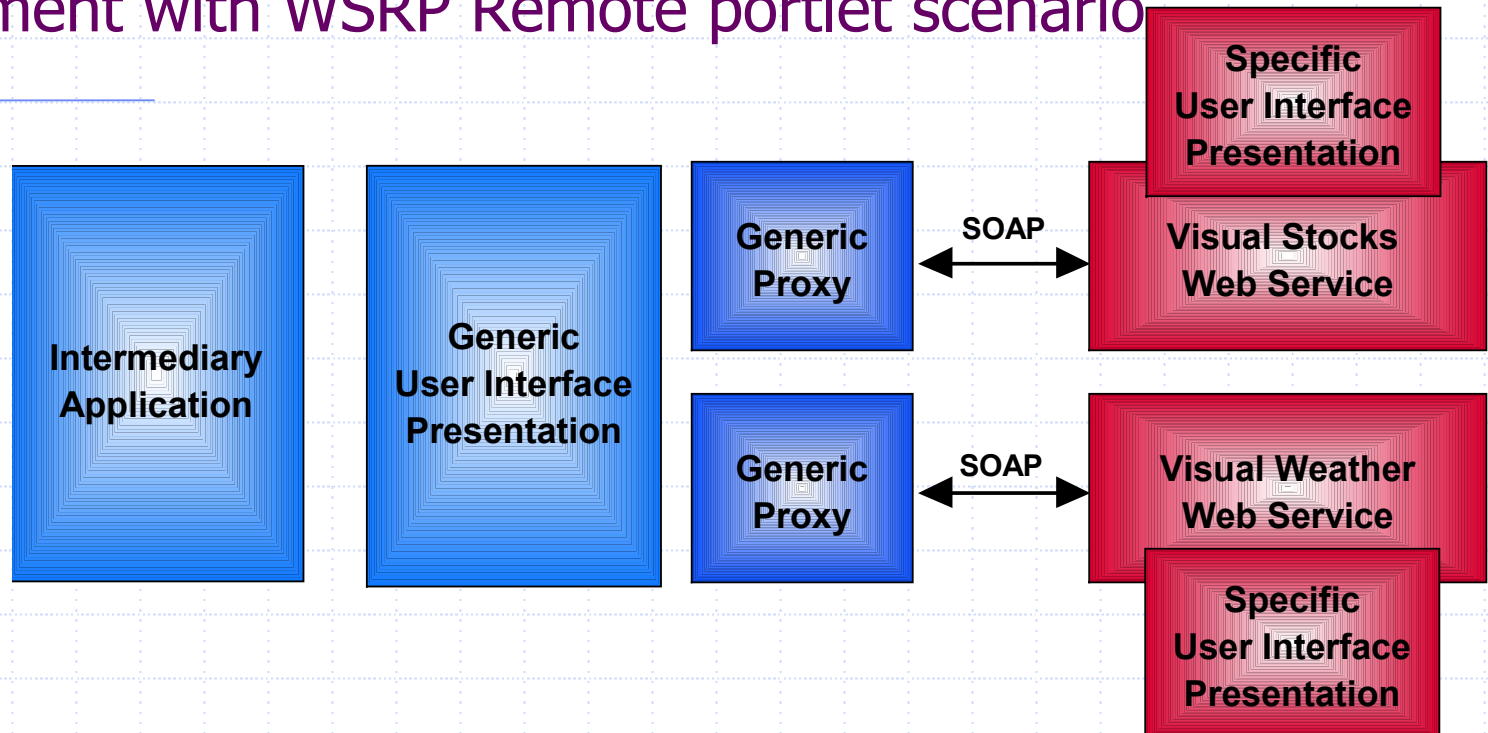
# Charter of the WSIA Technical Committee: Deliverables

- ◆ The primary deliverable of the WSIA TC is a coordinated set of XML vocabularies and Web Services interfaces that will allow businesses to:
  - Deliver web applications to end users through a diversity of deployment channels: directly to a browser or mobile device, indirectly through a portal, or by embedding into a 3rd party web application; and
  - Create web applications that can be easily modified, adapted, aggregated, coordinated, synchronized or integrated by simple declarative means to ultimately leverage a worldwide pallet of web application components.

# WSIA Positioning in the Web Services standards stack



## Alignment with WSRP Remote portlet scenario



- ◆ Visual, user-facing web services including presentation.
- ◆ All Remote Portlet Web Services have exactly the same interface and therefore the same WSDL definition
- \*No\* service specific UI presentation needed at intermediary applications like portals
- Pluggable, \*no\* programming effort
- Once created many channels can be reached

# WSIA Summary

- ◆ OASIS TC – formed January 2002
  
- ◆ WSIA Web Site
  - <http://www.oasis-open.org/committees/wsia/>
  
- ◆ Related Efforts
  - XFORMS
  - WSRP