

Web Services for Remote Portals (WSRP) Overview

OASIS WSRP Technical Committee

April, 2002

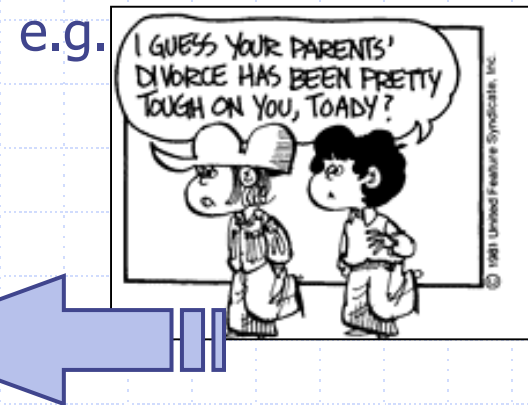
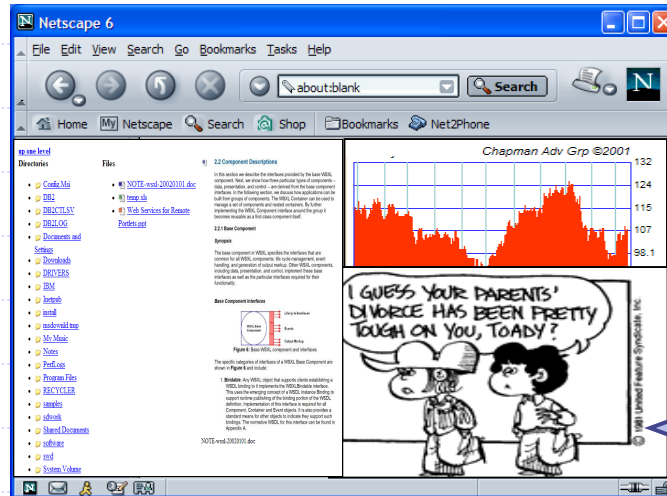
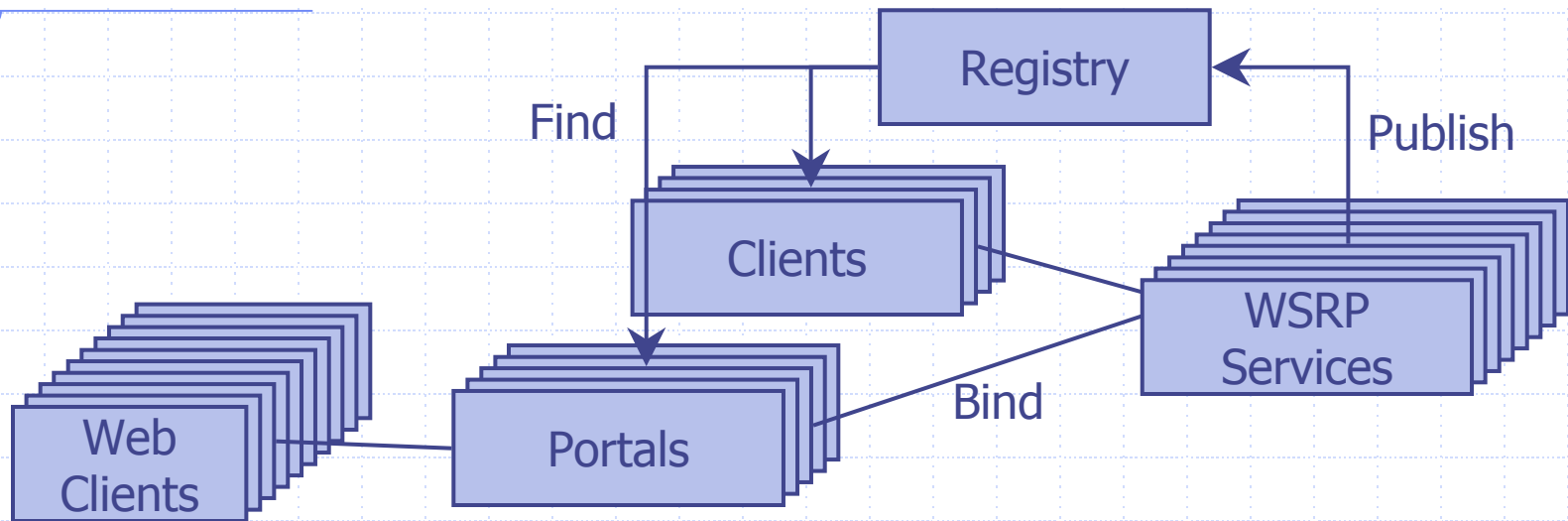
Overview

- ◆ Web Services for Remote Portals (WSRP) will define a standard for interactive, user-facing web services that plug and play with portals.

- ◆ WSRP will define:
 - A WSDL interface description for invocation of WSRP services
 - How to Publish, Find, Bind WSRP services and metadata
 - Markup Fragment Rules for markup emitted by WSRP services
 - Applicable Security Mechanisms, Billing information ?, ...

- ◆ Companies involved in WSRP:
 - Bea, Bowstreet, Divine, Epicentric, Factiva, France Telecom, Fujitsu, HP, IBM, Interwoven, Lexis-Nexis, Lotus, Moravia IT, Netegrity, Oracle, Peoplesoft, Plumtree, Silverstream, Stellent, SUN, Sybase, Tibco, WebCollage, SAP Portals, SeeBeyond

WSRP Services Plug&Play with Portals



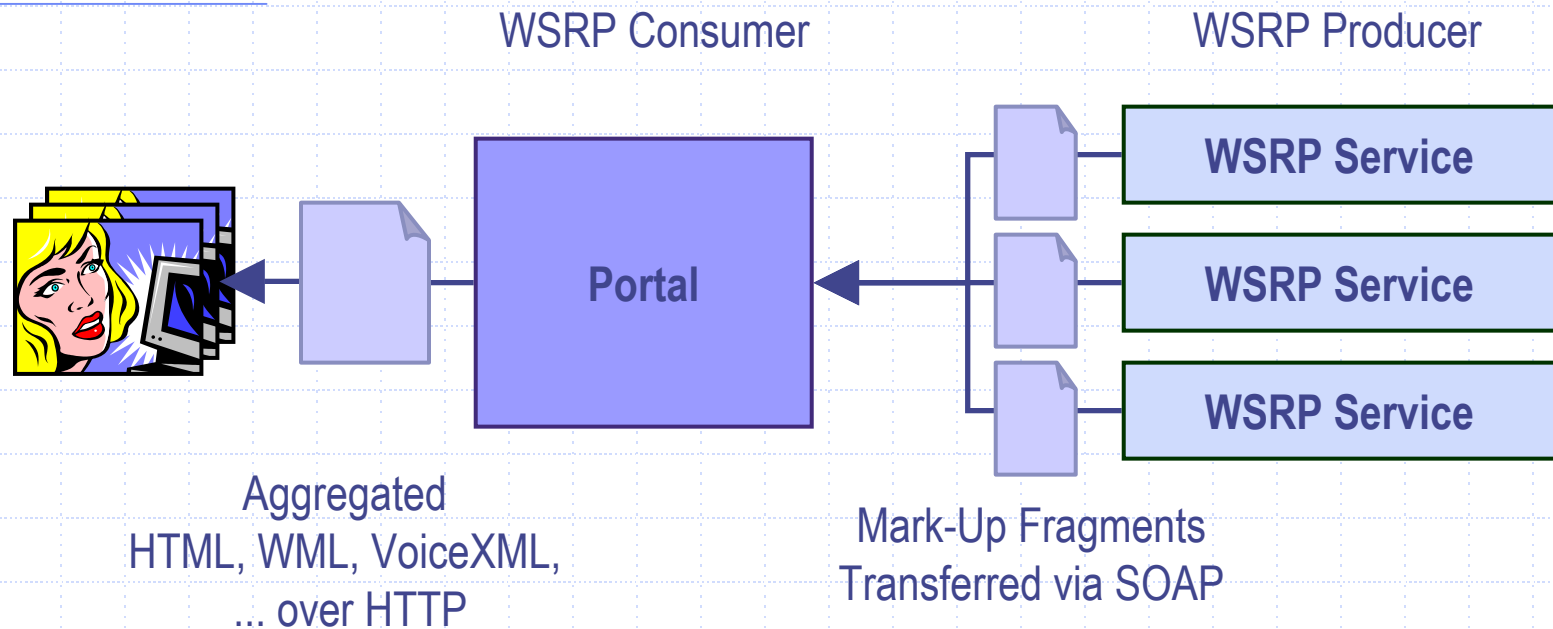
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WSRP Goals

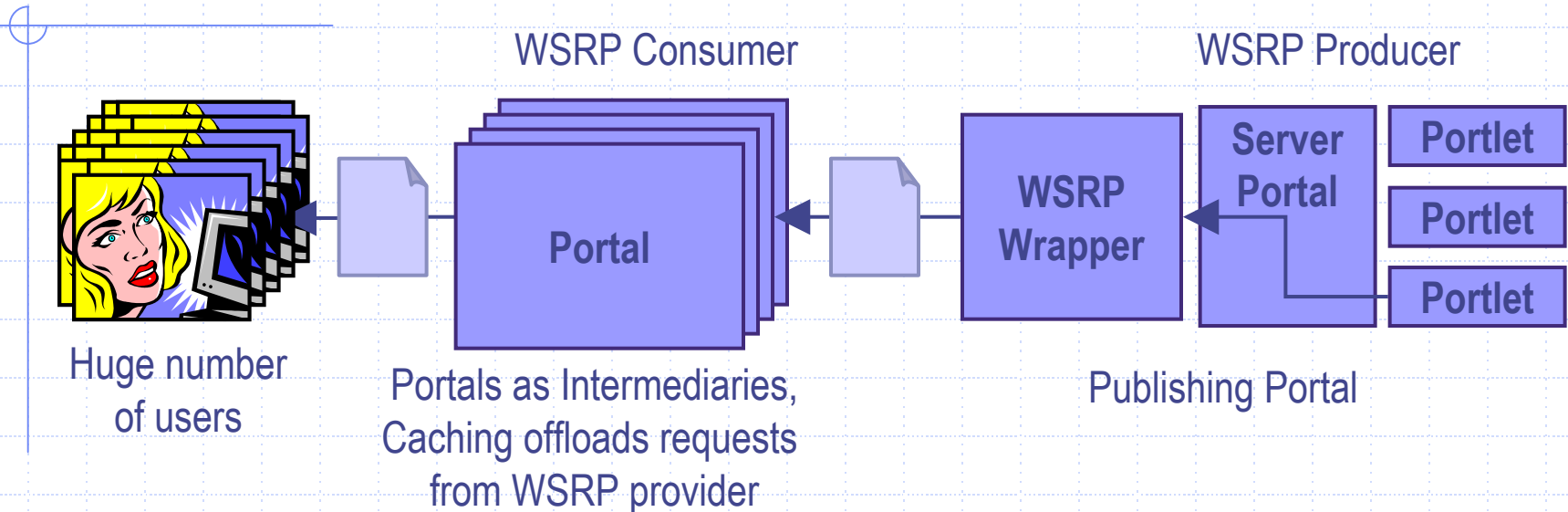
- ◆ Enable **interactive, user-facing** web services to be **easily plugged** into standards-compliant portals
- ◆ Let anybody **create and publish** their content and applications as user-facing web services
- ◆ Let admins browse directories for WSRP services to plug into their portals **without programming effort**
- ◆ Let **portals publish portlets** so that they can be consumed by other portals without programming
- ◆ Make the Internet a **marketplace** of visual web services, ready to be integrated into portals

Scenario: Use of WSRP in Portals



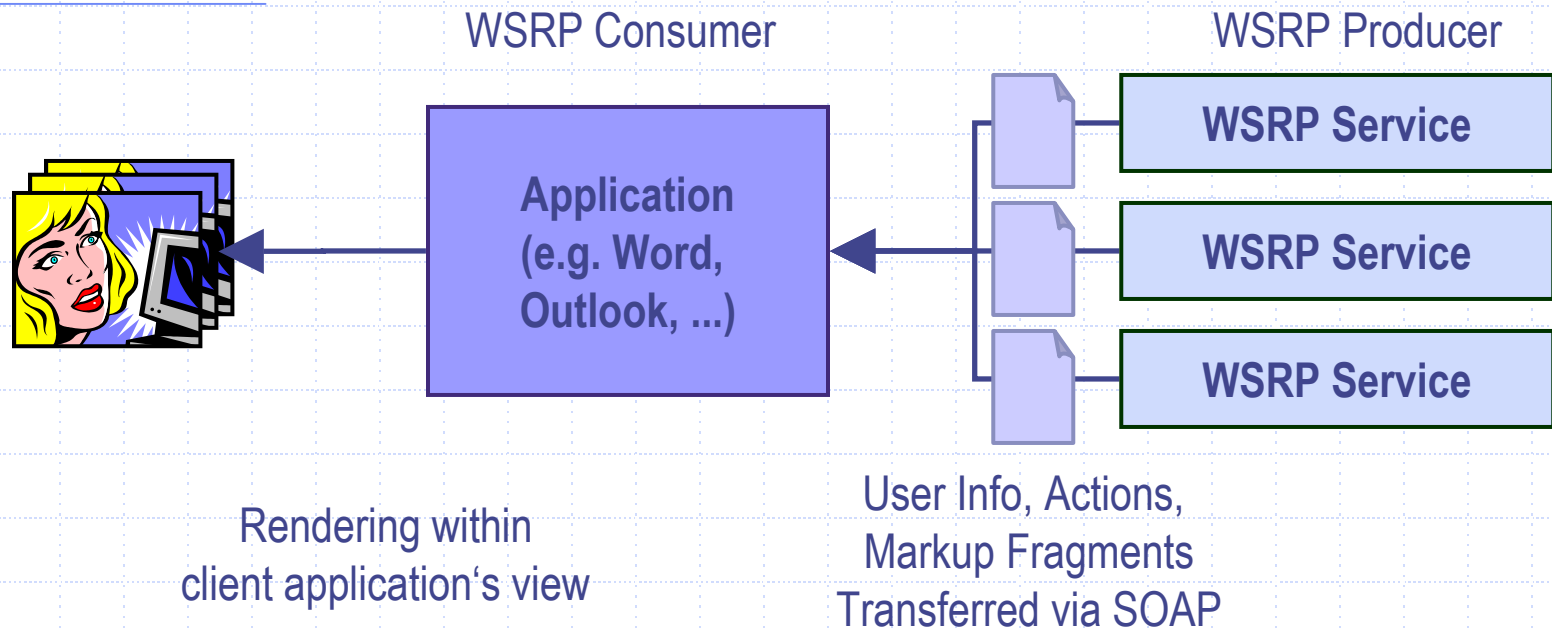
- ◆ Portals can aggregate presentation from many WSRP services
- ◆ WSRP services can be aware of portal context
 - User profile from portal
 - Desired locale and markup-type
 - User's device type

Scenario: Portal sharing Portlets



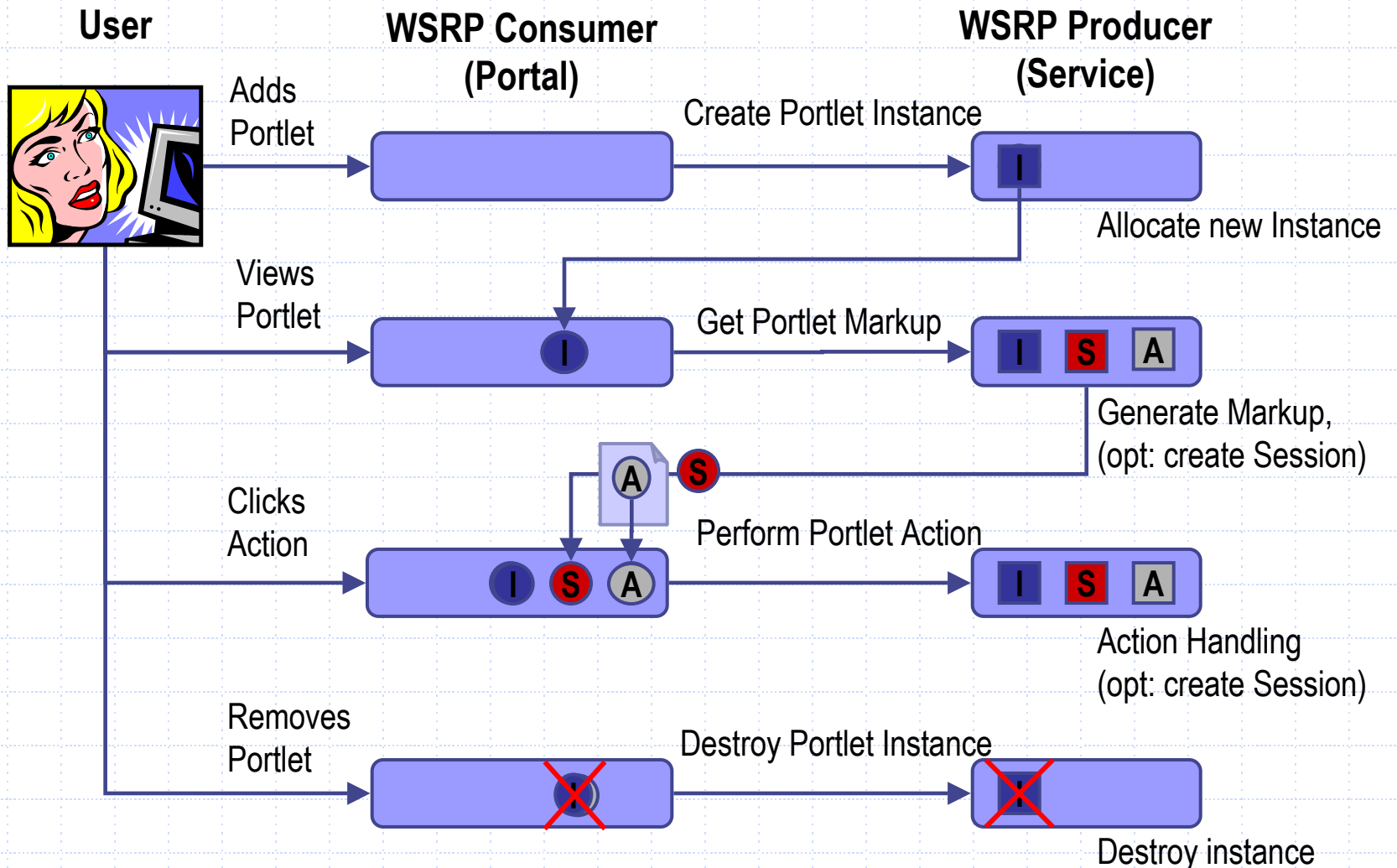
- ◆ Administrator publishes portlet as WSRP service to UDDI using portal's admin user interface
- ◆ Administrator of other portal finds WSRP service using portal's UDDI browser and binds to it with a few mouse-clicks
- ◆ Users of the second portal can select remote portlets like any local portlet and put them on their pages
- ◆ In this case, the portal providing a portlet as a WSRP service adheres to the WSRP protocol and contracts just like any other WSRP service, the

Scenario: Use of WSRP in Client Apps

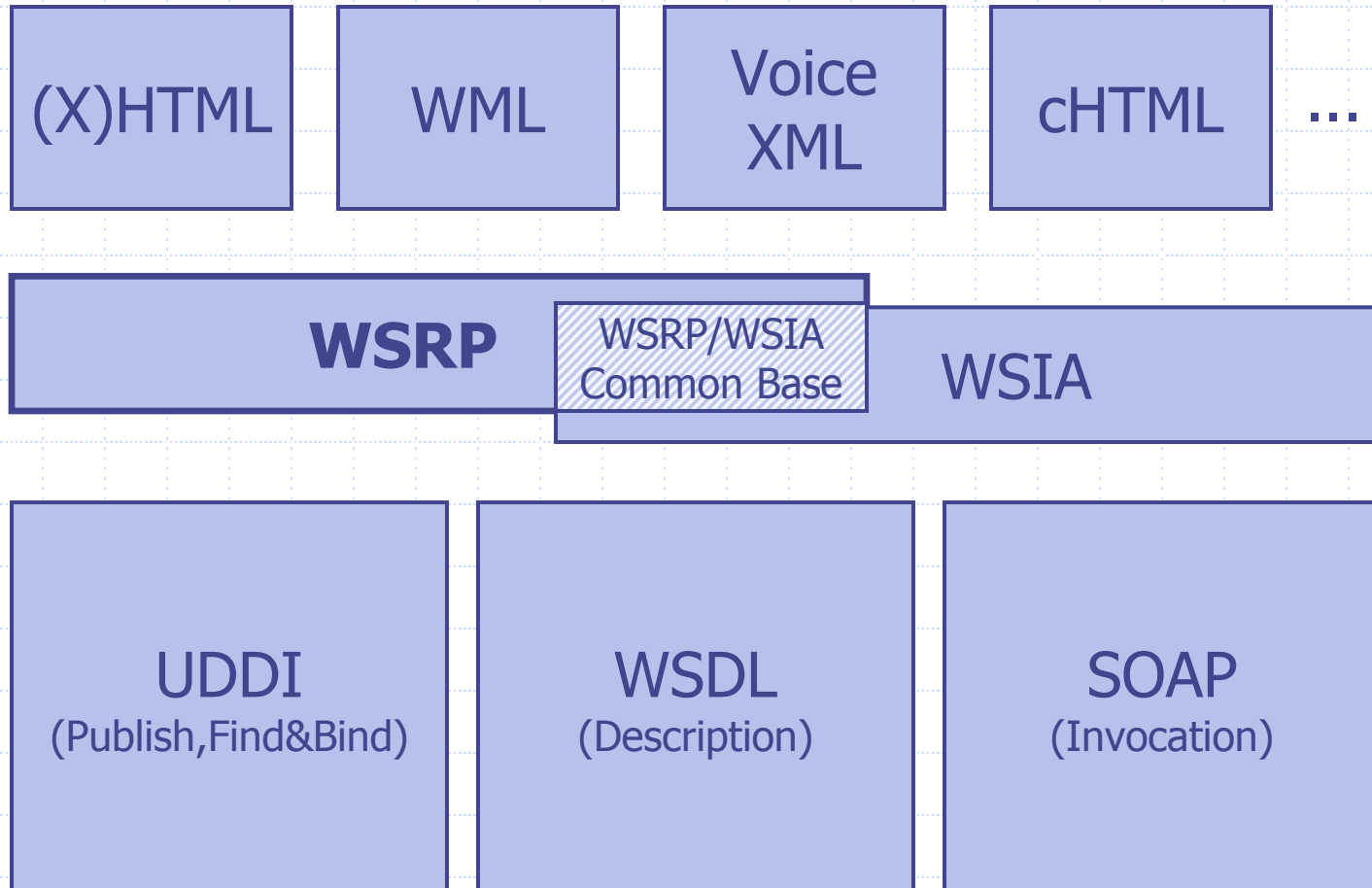


- ◆ Applications may embed WSRP Services through plugin mechanisms, e.g. COM Components or ActiveX Controls
- ◆ In this case, the plugin in the client application adheres to the WSRP protocol and contracts, just like a portal would

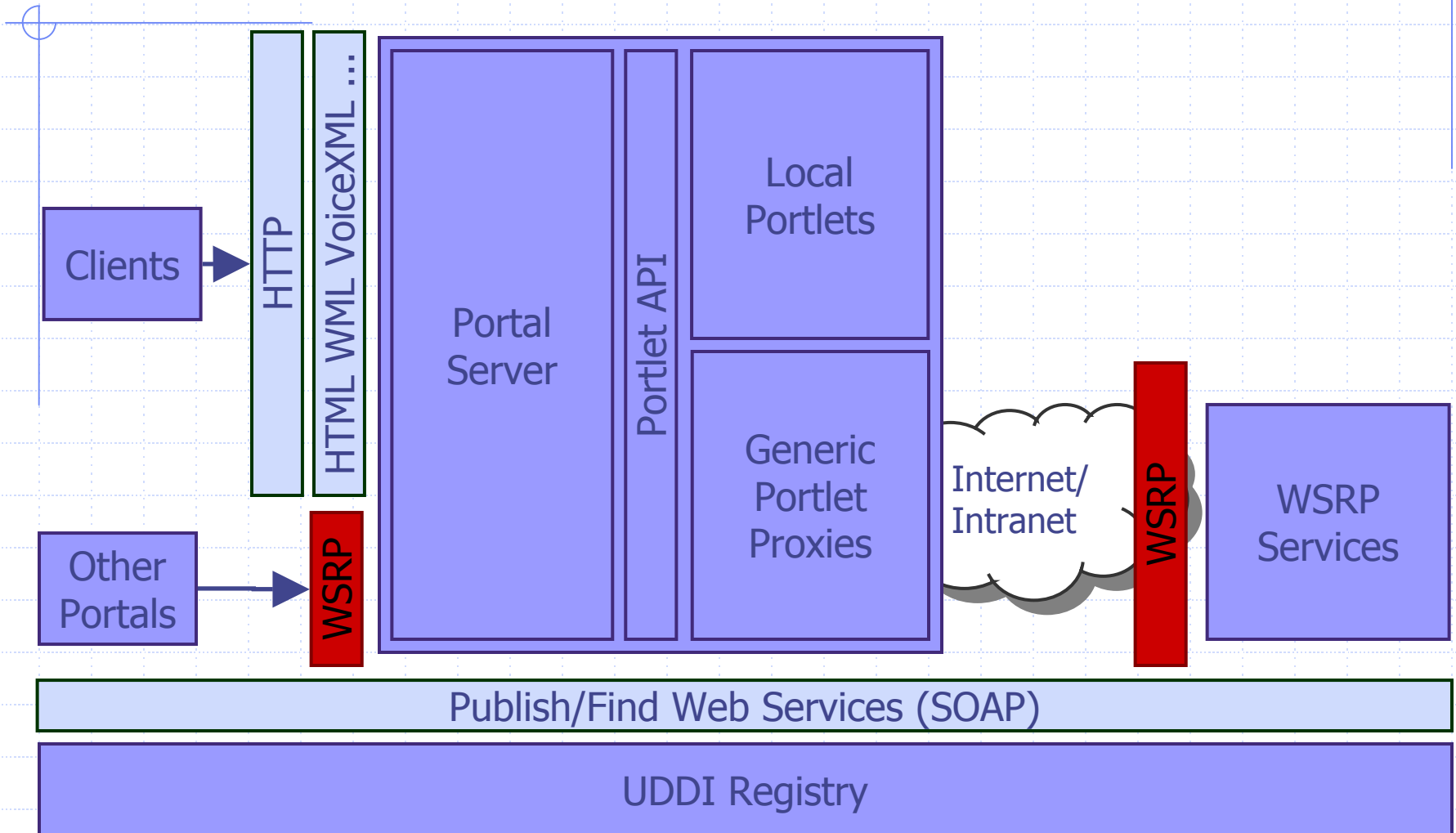
Abstract Portal ↔ WSRP Interaction



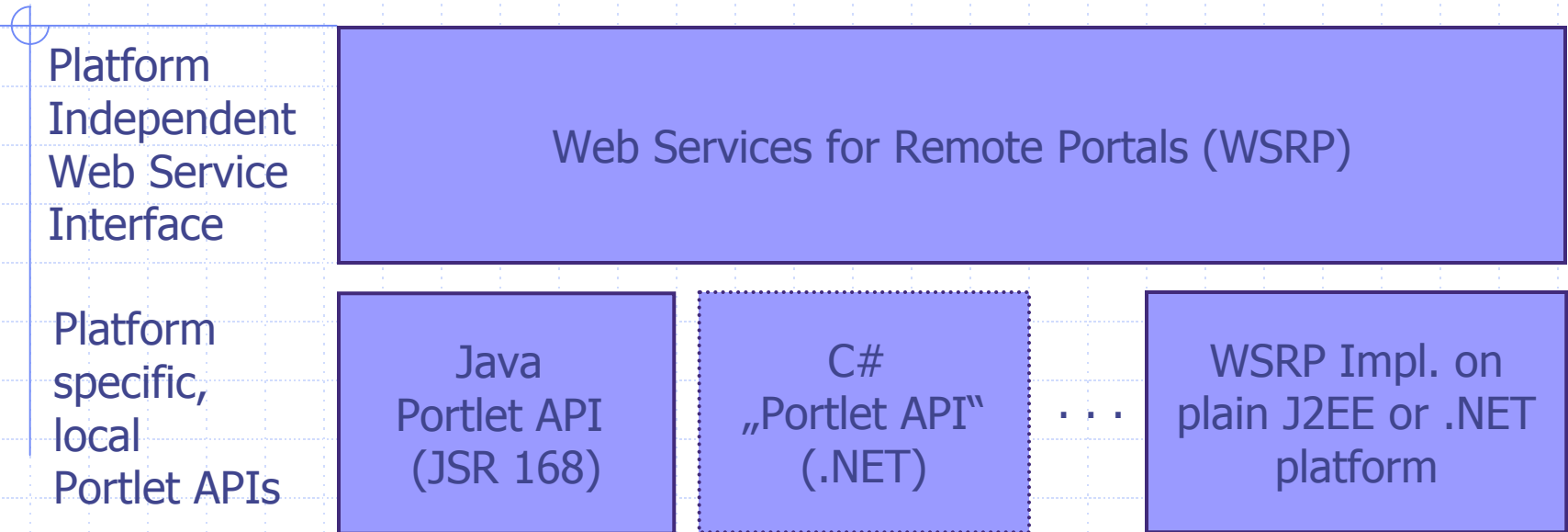
WSRP and related Standards



Portal Architecture and WSRP



WSRP and Portlet API(s)



Portlet APIs may be defined for different programming languages;
WSRP can bridge between the different platforms, leveraging platform independence of Web services

Goal:

Portlets written to Portlet API can be published as WSRP services
WSRP services can be integrated through Portlet Proxies written to Portlet API

WSRP TC Areas of Work

- ◆ Business Scenarios
- ◆ WSRP/WSIA – Common Interfaces
- ◆ WSRP Interfaces & Protocol
- ◆ WSRP Publish, Find, Bind & Metadata
- ◆ WSRP Markup Fragments Rules/Styles
- ◆ WSRP and Security, Identity, SSO ...

Business Scenarios

- ◆ Content/Application Provider providing WSRP Service
- ◆ Portal publishing Portlets as WSRP Services
- ◆ Syndicated Content / Billing via WSRP
- ◆ Enterprise Application
- ◆ Current Awareness
- ◆ Cooperating WSRP Services
- ◆ Multimedia Sports Portal / Mobility

WSRP/WSIA – Common Interfaces

- ◆ Define common interfaces to be shared by WSRP and WSIA
 - Basic life-cycle operations
 - Basic operations for processing actions and getting markup

WSRP Interfaces & Protocol

- ◆ Define the operations for WSRP services
 - Advanced life-cycle operations, e.g. for creation of instances
 - Advanced operations for processing actions/getting markup
 - ◆ User profile information contained in requests
 - ◆ Device information contained in requests
 - ◆ Locale information contained in requests
 - Protocol defining interaction between portals and services
 - ◆ Allowed order of operation invocation
 - ◆ Contracts for handling instances and sessions
 - ◆ Caching considerations

WSRP Publish, Find, Bind & Metadata

- ◆ Define method used to publish services to UDDI
- ◆ Define metadata to be provided when publishing service
 - Name, Titles, Descriptions
 - Supported Markups / Locales
 - Hints for caching
 - ...
- ◆ Define method to find WSRP services in UDDI

WSRP Markup Fragments Rules/Styles

- ◆ Define valid markup fragments for
 - HTML / XHTML (#1 priority)
 - WML, cHTML, VoiceXML (after covering HTML / XHTML)
- ◆ Define URL rewriting
- ◆ Define namespacing/prefixing

WSRP and Security, Identity, SSO ...

- ◆ Define how security mechanisms and protocols can be employed with WSRP
- ◆ Define how Identity is to be provided by consumers to producers
- ◆ Define how SSO via a consumer to multiple producers may be achieved

Planned WSRP Milestones for 2002

- ◆ May 2002: WSRP Scenarios / Use Cases
- ◆ July 2002: First draft of WSRP Specification
- ◆ August 2002: First version of Impl proving that spec works
- ◆ October 2002: Final draft of WSRP Specification
- ◆ November 2002: Update of Impl to reflect final draft
- ◆ December 2002: WSRP Specification 1.0, Update of Impl. to reflect 1.0 spec, Compliance Test Kit
- ◆ 2003 Start next cycle for WSRP Specification 2.0 ...

The Team: OASIS WSRP TC Members

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- Adrian Fletcher, **BEA**
- Gino Filicetti, **Bowstreet**
- Peter J Quintas, **Divine**
- Robert Serr, **Divine**
- Alan Kropp, **Epicentric**
- Nigel Ratcliffe, **Factiva**
- Aditi Karandikar, **France Telecom**
- Madoka Mitsuoka, **Fujitsu**
- Takao Mohri, **Fujitsu**
- Gregory Pavlik, **HP**
- Angel Luis Diaz, **IBM**
- Carsten Leue, **IBM**
- Lothar Merk, **IBM**
- Thomas Schäck, **IBM**
- Rich Thompson, **IBM**
- Charles Wiecha, **IBM**
- Ron Daniel Jr., **Interwoven**
- Jon Klein, **Lexis-Nexis**
- Adam Nolen, **Lexis-Nexis**
- David Taieb, **Lotus**
- Petr Palas, **Moravia IT**
- Mark Cassidy, **Netegrity**
- Michael Freedman, **Oracle**
- Mike Hillerman, **Peoplesoft**
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- Susan Levine, **Peoplesoft**
- Sasha Aickin, **Plumtree**
- Jeff Broberg, **Silverstream**
- Brian Dirking, **Stellent**
- Alejandro Abdelnur, **SUN**
- Dave Clegg, **Sybase**
- Mark Rosenberg, **Tibco**
- Eilon Reshef, **WebCollage**
- Tim Granshaw, **SAP Portals**
- Yossi Tamari, **SAP Portals**
- Stephen A. White, **SeeBeyond**
- Andreas Kuehne, **Individual Member**