



WebSphere Studio Workbench Overview

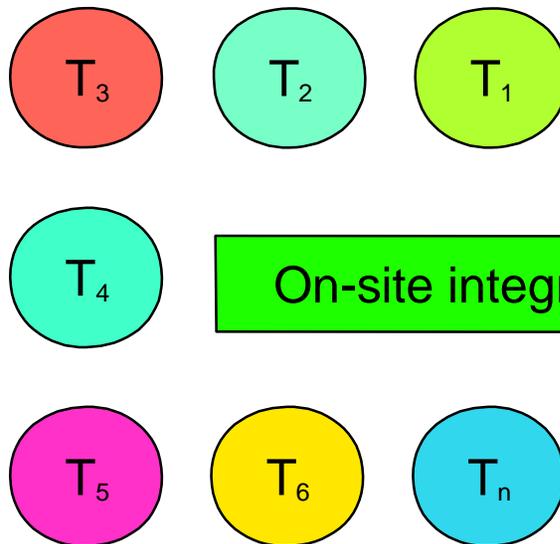
Mark Travis
Product Marketing Manager
IBM WebSphere Studio Workbench
marktrav@us.ibm.com

WebSphere

■ the fastest way to dynamic e-business ■

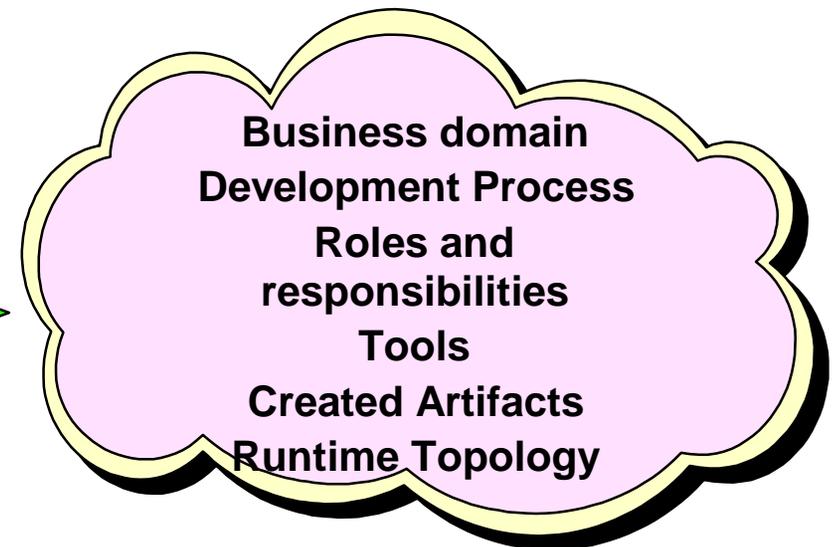
Technology Based Development

Products

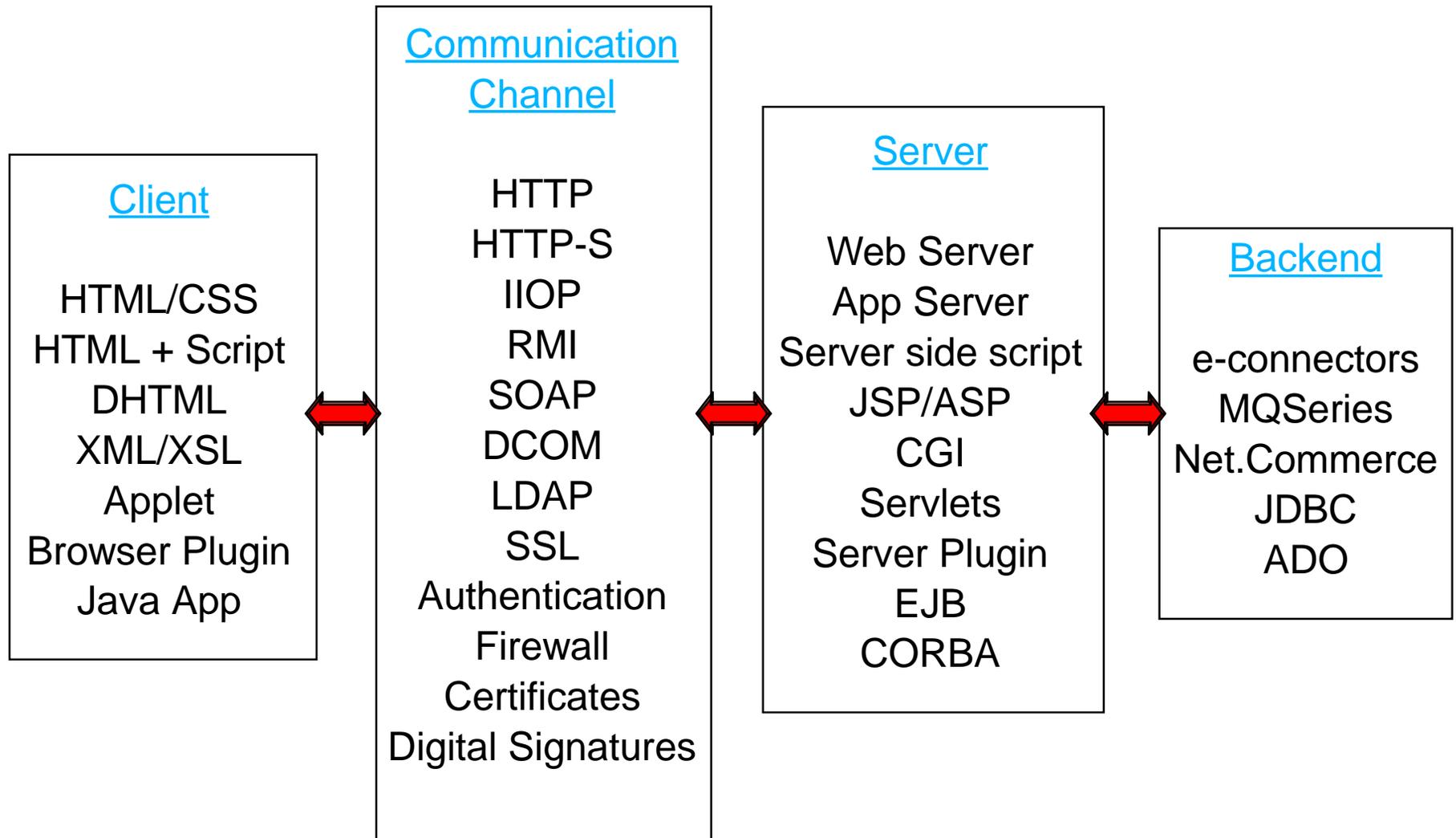


On-site integration

Solutions

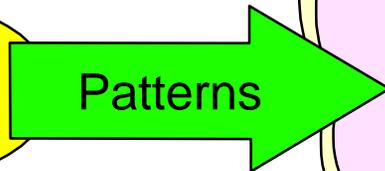
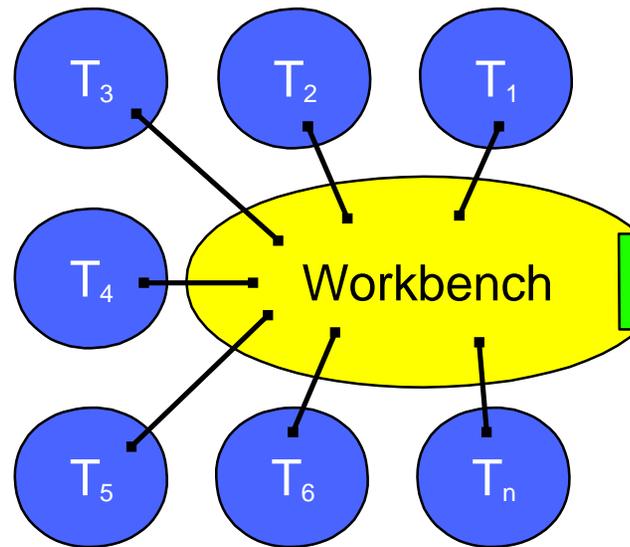


Many Architectural Choices

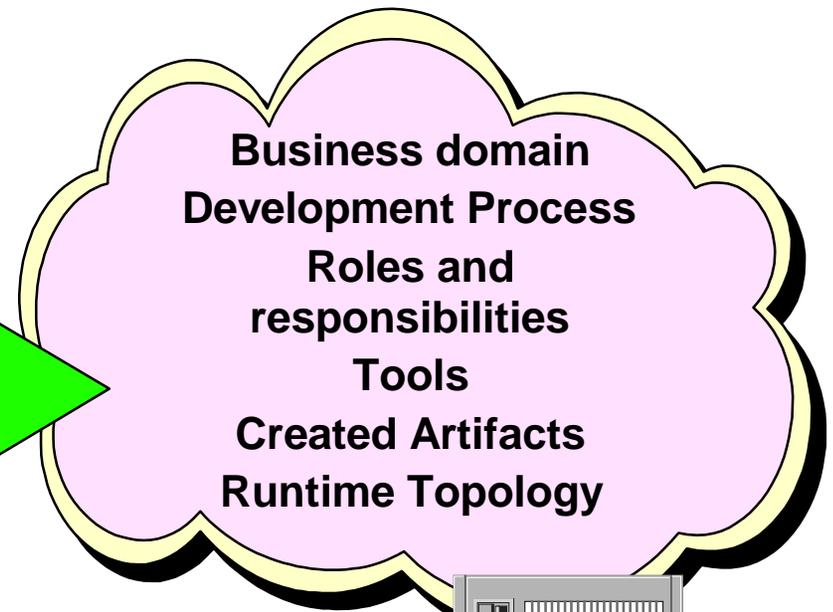


Solution based development

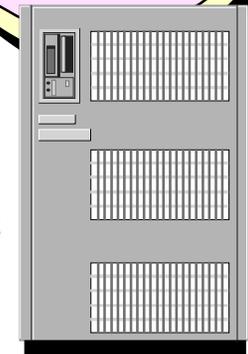
Products



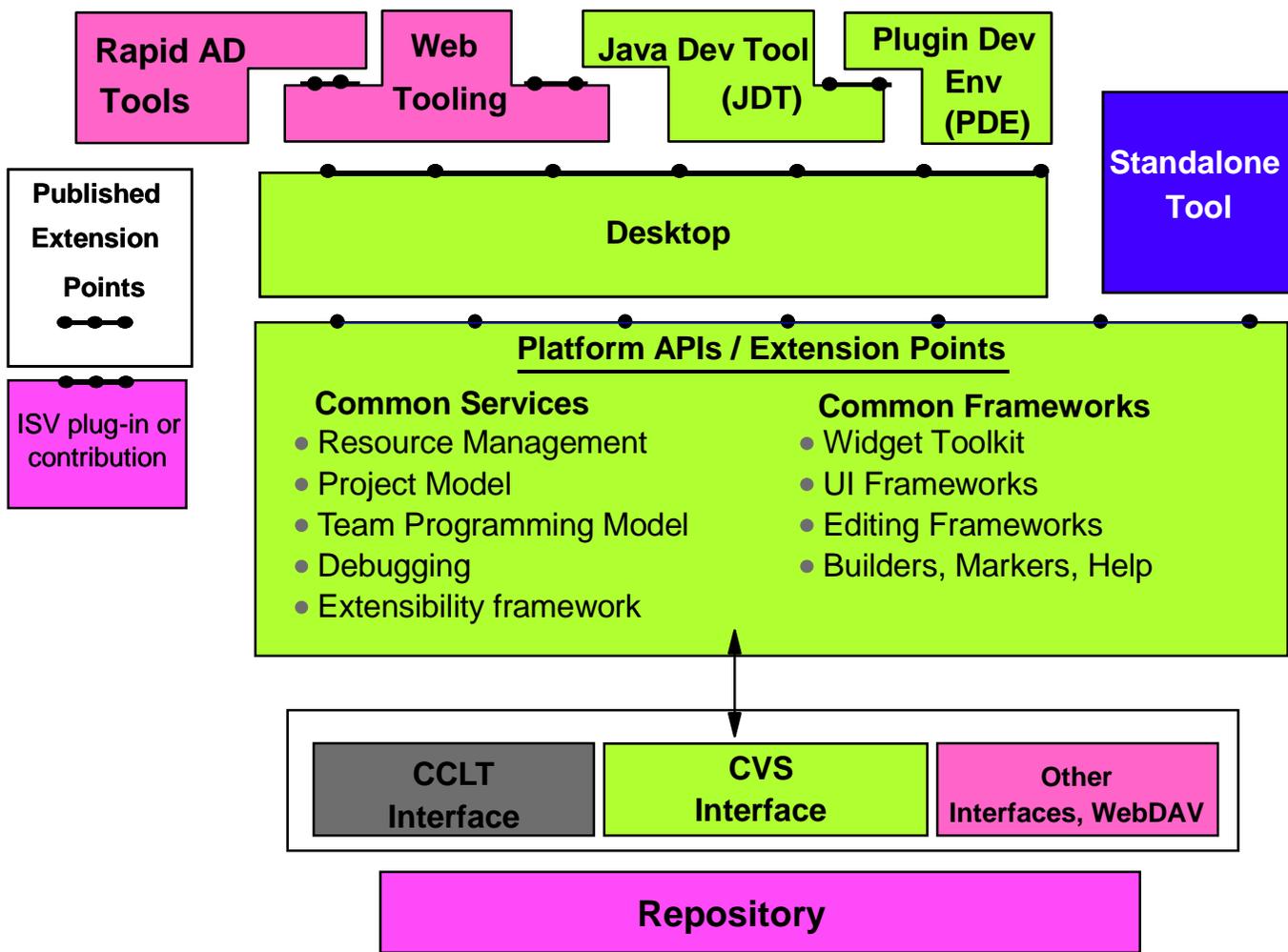
Solutions



IBM
Runtimes



WebSphere Studio Workbench - an open tool development kit



 ➔ Technologies to donate to open source project

WebSphere Studio Workbench

- **Workbench is:**
 - ▶ **Not a product, not for sale**
 - ▶ An open, portable universal tool platform and integration technology
 - ▶ Open tool integration platform based on IBM's Eclipse Project technology
- **Eclipse technology will become the basis for an open source project**
- **Provides frameworks and services that enables tool builders to focus on tooling building not on building tool infrastructure.**
 - ▶ Editor Frameworks
 - ▶ UI Frameworks
 - ▶ SCM Adapters and Team Programming models
 - ▶ Resource Management and Project Management
 - ▶ Globalization
 - ▶ Debugging
- **Has tools that help tool builders build tools (get it??)**
 - ▶ The Tool Development Kit (TDK)
 - Java Development Tools (JDT)
 - Plugin Development Environment (PDE)

Core Frameworks

- **Widget Toolkit (SWT):** a portable API to platform native widgets
- **User Interface Framework**
 - ▶ Implement the platform desktop
 - ▶ Create extension user interfaces
 - ▶ Source Editing Framework: a common foundation for text editing
- **Workbench and Resource access API**
- **Builder Framework:** encapsulate actions to be performed when resources change
- **Marker Framework:** provides the ability to place bookmarks, task markers, error markers and breakpoints in resources
- **Plug-in Registry:** defines the registry for plug-ins, their extension points and extensions
- **Extenders:** allows plug-in tool models to be extended by other plug-ins without subclassing
- **Scripting:** provides a way of building plug-ins accessing Core facilities that use common scripting languages like JavaScript™ and REXX in HTML documents
- **Help:** provides support for help content integration and context sensitive help

Common, Reusable Plugins

- **Repository resource navigator:** used to create, rename, delete, organize, navigate and synchronize solutions, projects, folders and files
- **Outline View:** a logical extension of the resource navigator that provides an outline view of the contents of a resource
- **Tasks View:** a view of user or plug-in created tasks that use the marker framework to open and position editors at appropriate points
- **Properties View:** provides an editor or viewer of resource properties
- **Content Area:** a managed area of the desktop that is shared by all resource editors

Sample Workbench Perspective

The screenshot displays the IBM WebSphere Workbench IDE in Perspective view. The main editor window shows the following Java code:

```

package com.newwavetools.core;
public class WaveSpotter {

    public static void main(String[] args) {
    }
}

```

The Navigator view on the left shows the project structure:

- NewWaveTools
 - bin
 - Documentation
 - ReleaseNotes.readme
 - NewWaveToolCode
 - com
 - newwavetools
 - core
 - WaveSpotter.java
 - .classpath

The Properties view below the Navigator shows the following details for WaveSpotter.java:

Property	Value
editable	true
name	WaveSpotter.java
path	/NewWaveTools/...

The Tasks view at the bottom is currently empty.

The status bar at the bottom of the IDE shows the current file path: `NewWaveTools/NewWaveToolCode/com/newwavetools/core/WaveSpotter.java`

Levels of Integration

- **0) None**
 - ▶ appropriate for real-time controllers
- **1) Invocation –**
 - ▶ double-click in Navigator to bring up the registered tool
- **2) Data Integration**
 - ▶ provide other tools the ability to access existing tool's data
- **3) API - hide the data and add behavior.**
 - ▶ get other tools to reuse the behavior of your tools
- **4) UI Framework - Widget Toolkit**
 - ▶ build a UI

WS Workbench Value Proposition

■ Tool Builders

- ▶ Seamless integration and interoperability with IBM AD and WebSphere Software Platform
- ▶ Seamless integration with other Workbench tool builders
- ▶ Enterprise ready, off the shelf
 - Globalization, distributed debug, Team, SCM, ...
- ▶ Quick and easy construction and deployment platform for tools
- ▶ Open access to source code and tool provider community
- ▶ Multiple levels of integration allow quick adoption of WSW

■ Customers that purchase Workbench-based offerings

- ▶ No more on site integration, tools just work - together
- ▶ Common, easy to use interface
- ▶ Common code, project, file management system
- ▶ Same tool platform regardless of development role
- ▶ Same look and feel regardless of vendor
- ▶ Infinitely extendable IDE to gain market advantage

Workbench Tool Developer Program

■ PartnerWorld for Developers

- ▶ Exclusive source for WebSphere Studio Workbench

- <http://www.developers.ibm.com/welcome/wstools/workbench.html>

- ▶ Official Beta begins July 17

- Restricted preview starting May 30 for Premium Members of PWD only

- ▶ Targeted at IBM Business Partners who build tools

- ▶ Information

- ▶ Education (V1.0 timeframe)

- ▶ Support

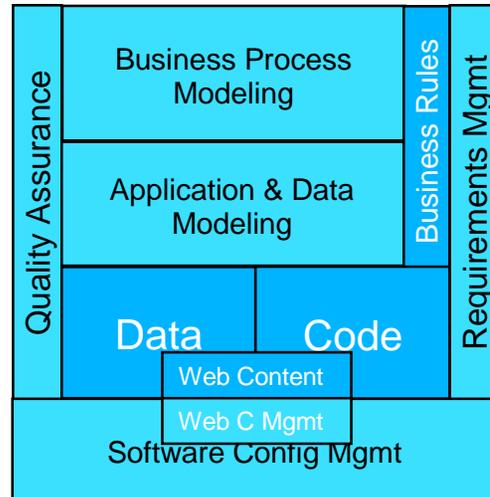
- ▶ Newsgroups

- ▶ Code - bins and source

■ Will also be product partner programs as well

- ▶ Assist partners with integrating or interoperating with IBM tools

Workbench Key ISV Partners



Rules based development

- ▶ Versata

Connectors

- ▶ Extricity

Development tools

- ▶ Instantiations

Business Process Modeling

- ▶ Holosofx

Requirement Management

- ▶ RationalSuite Analyst Studio

Application and Data Modeling

- ▶ RationalSuite Developer Studio

Software Configuration Management

- ▶ Rational ClearCase / ClearQuest
- ▶ Merant PVCS
- ▶ Serena ChangeMan

Quality Assurance / Performance

- ▶ RationalSuite Test Studio
- ▶ Sitraka

Business Process Integration

- ▶ CommerceQuest

Customer and Partner
Applications

<http://www.developers.ibm.com/welcome/wstools/workbench.html>

The difference
is WebSphere.

Development

Presentation

Deployment

Foundation Extensions

Web Application Serving and Integration

Foundation