CURRENT DEVELOPMENT PROCESS

DEV SERVERS

How do you know what changed?

No standard and consistent version control system integration

create

Does not include all assets

TEST

Must all be up and running

deploy

REFERENCE SERVER

SCM is for mgmt of source, not assets

“build”

The reference server is missing the link to the actual sources

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CONTINUOUS INTEGRATION IS Automated testing using Jenkins tool

**Deployment Steps**
1. Configure
2. Deliver
3. Activate

**Night build/package**
- Standard package as ACDL composite
- Externalized dependencies
- Externalized configurations
Each Designer connects to a shared “Development” Integration Server

Assets are developed and saved on the remote shared Integration Server

The “Development” IS is connected to the Version Control System (VCS)

The Challenge: Hard to coordinate between developers
LOCAL DEVELOPMENT WITH DEVOPS EDITION

Local development server - Installed in the same directory as Eclipse Designer

Assets are developed locally on the developer’s workstation

API is used to connect to the VCS systems using Eclipse plugins

Build and deploy using Solution Deployment capabilities as best practice

Designer → Local Integration Server
Designer → Local Integration Server
Designer → Local Integration Server

Development Environment

VCS Repository

Build & Deploy
BENEFITS OF LOCAL DEVELOPMENT

• Provides the developers with a local sandbox so they do not impact other developers

• Can use Eclipse/Designer with local workspace for development thus making all Eclipse/Designer plug-ins available

• Support and leverage VCS plug-ins used directly in Eclipse

• Developer does not need to be on the network for development unless needing access to a backend system

• Developers can work on multiple versions of the same assets using different VCS branches
TESTING CHALLENGES IN DEVOPS

- **Constant functional requirement changes**
- **Stretched development times** cut into formal testing times
- “Quick-fire” approach often more expensive in long term
- Need for rapid response to address production bugs
- Adding new or enhancing existing functionality may break existing code
- **Lack of access** to original personnel may compromise subsequent tests
SIMPLIFY TESTING USING WEBMETHODS TEST SUITE

Automated Testing

- **Automated integration test framework for unit testing**
  - Create test cases re-playable at any time to detect bugs and regression
  - **Simulate service calls** to external and backend systems
  - No reliance on external backend systems
  - No reliance on specific data in backend
  - Capture functional experts’ feedback in test cases
  - **Compliant with junit** test framework
ARCHITECTURE COMPONENTS

• Create Test Cases using java code, any XML editor or the Eclipse plug-in
• Execute test cases using the Eclipse plug-in or JUnit/Ant
WMTESTSUITE RELEASE

Release of WmTestSuite as a standalone downloadable product from Empower

April 2016

October 2016

WmTestSuite, consisting of the Software AG Designer plugin and the WmServiceMock package may only be installed and used by customers and partners who have the product explicitly licensed in their Software License Agreement with Software AG.

Release of WmTestSuite as part of webMethods suite via Software AG Installer
CREATE A NEW WEBMETHODS TEST SUITE

Select a wizard

Wizards:
- Test Suite

- webMethods TestSuite
  - Test Suite

Show All Wizards.

webMethods Test Suite

Creates a new webMethods Test Suite and opens it for editing.

Container: /WmServiceMockSamples/resources/test/setup

File Name: wmtTestSuite1.xml

Suite Name: Simple Test Suite

Description: Sample Test Suite for services in the WmServiceMockSamples package
WEBMETHODS INTEGRATION SERVER – DEVOPS EDITION

Test Suite

Allows the developers to run automated unit tests for continuous development and continuous integration

Local Development

Allows developers to develop on their desktops or laptops without being connected to a central shared Development server

Includes future enhancements related to containers, microservices and DevOps as well
DEVOPS EDITION COMPONENTS

• What does DevOps edition contain and how will it be delivered?
  • PIDAO (add-on for DevOps edition) is a bundle containing two products:
    1. GWMTS – webMethods Test Suite (or wMTestSuite)
    2. WEL – Local development which also includes rights for local dev. using PIEWS

• Each core of PIDAO adds 2 seats of WEL and 2 seats of GWMTS to the PID license (WEL includes rights to PIEWS – Local IS deployment).

• From April 15th 2016 onwards it will be available to customers who upgrade to PIDAO as a stand-alone download on Empower. From October 2016* onwards, it will be incorporated in Installer.

* Current plans – subject to change.
WEBMETHODS
DEVELOPMENT AND DEPLOYMENT

Combination of product, techniques and scripts provide continuous integration

File representation for assets helps in deployment

Single source of truth with tighter VCS integration

Integrated Tools

Automation Support

Greater Flexibility

DEVELOP
- Designer Development
- Source Control

BUILD
- Build Scripts
- File System Representation of all Assets

DEPLOY
- Packaged Deployment
- Deployment Types

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