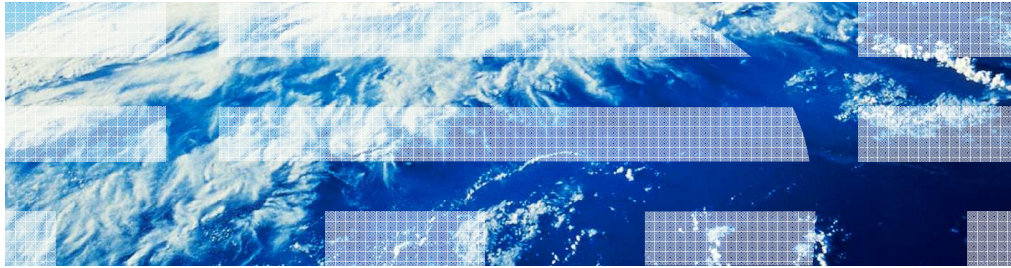# WebSphere Business Process Management V7

WebSphere Integration Developer - Feature Pack 2 Overview

This presentation covers the WebSphere Integration Developer feature pack 2 overview.

Agenda

- Feature Pack 2 installation
- Platform currency
- What is the difference between Business Process Management and Case Management
- What is being delivered in Feature Pack 2?
- Life cycle summary – how does it work?
- Resources
- Summary

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You will start with learning about how to install the Feature Pack 2. Then you will see how component levels have been changed for platform currency from version 7 to Feature Pack 2. In order to set the stage appropriately for what this feature pack brings, it is important to start with what is the difference between Business Process Management and Case Management. Once that is understood, you will move onto a summary of what is being delivered in Feature Pack 2. The overview will then set the stage for the main part of the presentation; a step-by-step view the life cycle and how does the enhancement work. You will finish up with a look at documentation resources with direct link for this enhancement and a summary.

Feature Pack 2 Installation

- IBM Installation Manager 1.4.1 needed to install
- Must install, not an update
- Only for WID, no runtime counterpart for FEP 2
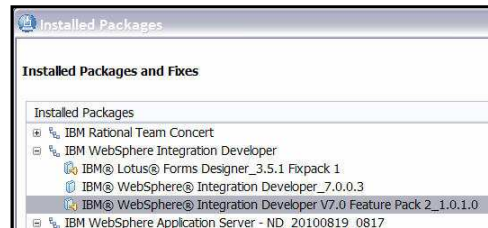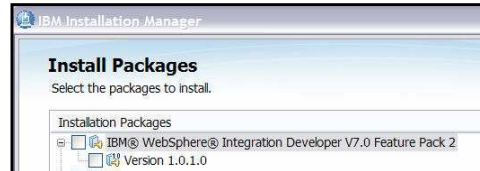
First of all, you must install the feature pack two using IBM Installation Manager version 1.4.1. Here is a reminder that you must click the install button and not the update button in IBM Installation Manager. A big point for feature pack two is that it is only for WebSphere Integration Developer and WebSphere Adapters. There is no runtime counterpart for feature pack two.

V7 Platform Currency

- Updated foundation for improved functionality

WID V7	WID V7.0.2.0 (Feature Pack 2)

WID V7

Eclipse v3.4.2
Rational Application Developer V7.5.4

WTE:
WAS ND 7.0.0.7   -wps0946.04
WPS/WESB 7.0.0.0 -of0948.05
SCA FP 1.0.1.0   -z0945.03 i11a
XML FP 1.0.0.0   -g0945.03 i11a

IBM Installation Manager 1.3.3

Optional install packages:
WebSphere Adapters (v7)
Lotus Forms (v3.5.1)

WID V7.0.2.0 (Feature Pack 2)

Build ID - 7.0.0.3-20100825_1011
Eclipse v3.4.2
Rational Application Developer V7.5.5.1

WTE (FEP1):
WAS ND 7.0.0.11   -wps0946.04
WPS/WESB 7.0.0.3 -of1034.05
WBIFEP 1.0.0.0   -of1019.04
SCA FP 1.0.1.7   -cf071033.04
XML FP 1.0.0.7   -cf071033.05

IBM Installation Manager 1.4.1

Optional install packages:
WebSphere Adapters FEP 2 (v7)
Lotus Forms (v3.5.1)

Changes in V7 to V7.0.2.0 (Feature Pack 2) in blue

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This chart shows how the various components of WebSphere Integration Developer have been updated from version 7 to version 7 feature pack 2. Notice the WebSphere Test Environment is grayed-out for feature pack two since there is not a runtime counterpart for feature pack 2, only WebSphere Integration Developer and WebSphere Adapters.
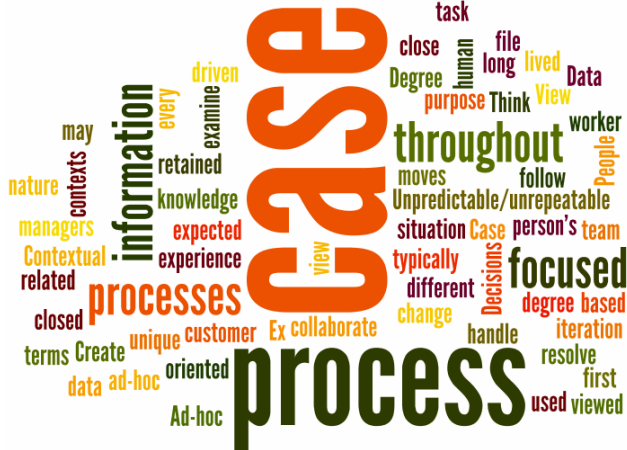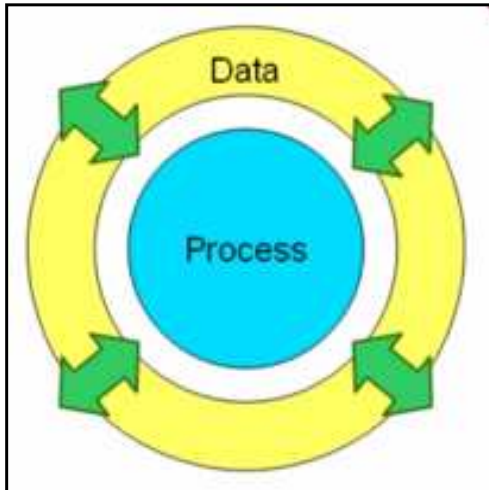
You will start by learning a little more about what is Case Management, what is WebSphere Business Process Management, and then what is new for the integration story.

IBM Case Management versus Business Process Management (1 of 2)

- Business Process Management (BPM)

- Process focused
  – Pre-defined process
  – Data feeds the process
  – Repeatable/predictable

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First you will cover Business Process Management, or BPM. Generally, BPM focuses on processes as the core driver, and data interacts with the process. BPM does an excellent job with pre-defined processes; ones that are repeatable, but also ones that can be dynamic.

IBM Case Management versus Business Process Management (2 of 2)

- Data focused – case focused
  - Ad-hoc, knowledge worker driven process
  - Contextual by nature
  - Unpredictable/unrepeatable

- Think in terms of a case (data)
  - Create a case file and follow a process; lead with case first
  - Case data used by case managers/team who collaborate to resolve and close a case; typically long lived processes
  - After a case is closed, information is retained

- 360 degree view of the case throughout a process
  - Ex: view of customer from different roles

- IBM Case Management
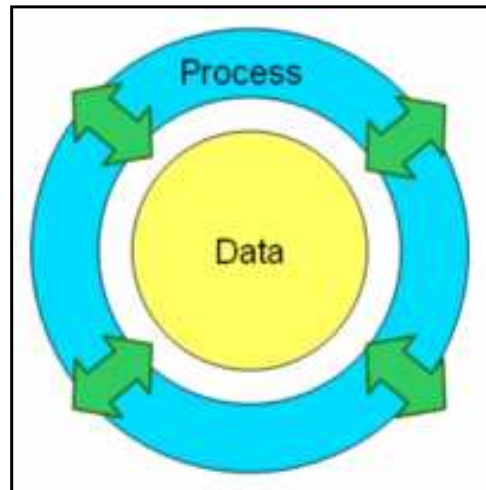
For IBM Case Management the core focus is on the data. The process interacts with the data and is contextual by nature. Case Management does an excellent job with ad-hoc type processes like ones that are knowledge worker driven process or ones that are unrepeatable. Data is thought in terms of a case and a case needs to be created before a process can be defined. Case data can be used by a case management team who collaborate to resolve and close a case. Typically, these processes are long lived and case data is retained after the case has been closed. The true value of Case Management is the 360 degree view of the case throughout a process. For example, this means a knowledge worker can have a complete view of customer and has a different context view of the case given different roles.

Enriching Advanced Case Management Scenarios with WebSphere BPM

- Delivered in WebSphere Integration Developer V7.0 Feature Pack 2
  - Enable invocation of a WebSphere BPM process from an IBM Case Management task
  - WebSphere Integration Developer to enable generation of appropriate source artifacts and invocation scripting
  - Provide documentation to facilitate use of WebSphere BPM with IBM Case Manager
  - Case Management support delivered in P8 Process Engine 5.0
- For existing WBPM customers
  - Simplified access to case structure during process design
  - Easier re-use of existing WebSphere BPM processes in a case management context
- For existing Filenet customers
  - Better integration into a full SOA BPM infrastructure, Business Process Management

What is being delivered in WebSphere Integration Developer V7.0 Feature Pack 2 is the ability to connect IBM Case Management with Business Process Management. That is, you can enable invocation of a WebSphere BPM process from an IBM Case Management task. In addition, WebSphere Integration Developer generates the appropriate source artifacts and invocation scripting needed, plus provides documentation to facilitate use of WebSphere BPM with IBM Case Manager. The Case Management part is delivered in P8 Process Engine version 5.0. What this means for existing WBPM Customers is a simplified access to case structure during process design and easier re-use of existing WebSphere BPM processes in a case management context. What this means for existing FileNet customers is a better integration into a full SOA BPM infrastructure like Business Process Management.
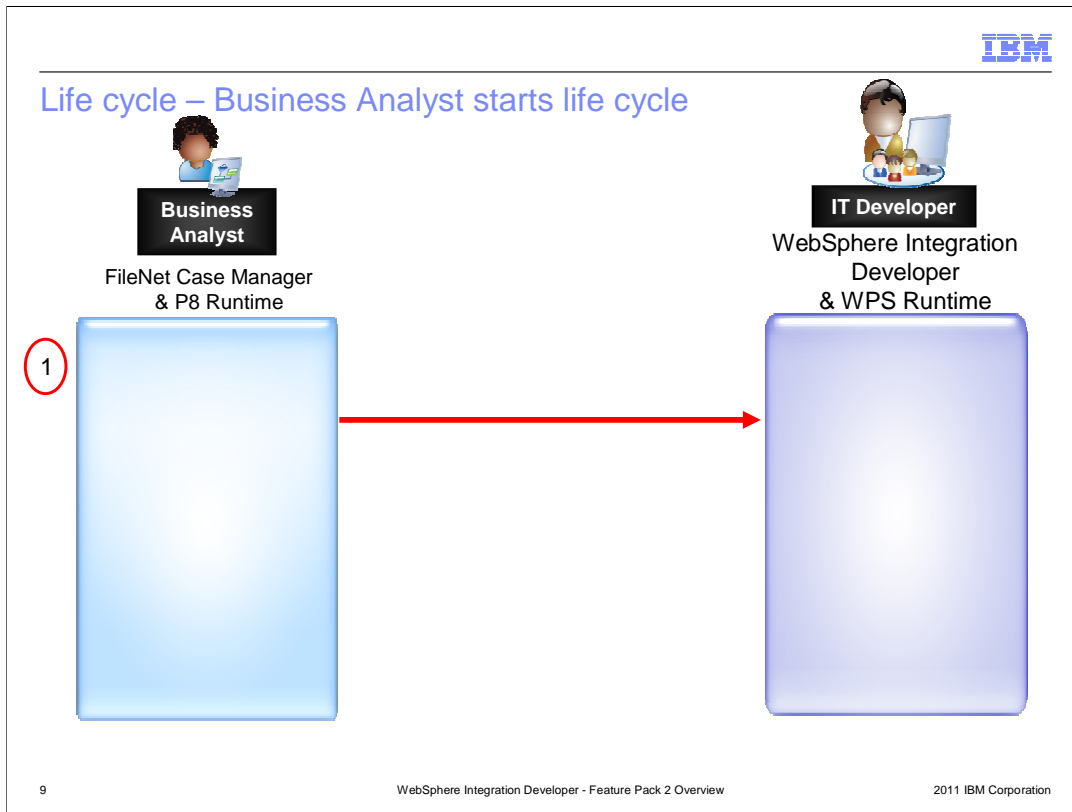
In order to explain how this enhancement will work, you will use this diagram to step through which role does an action in a certain number of steps. The first step is for the business analyst on the FileNet Case Management side to create a case management solution. This means the business analyst defines an unimplemented task that will connect to and run a BPM process. Afterwards, the business analyst works with an IT developer using business process management to communicate details like inputs, outputs, case tasks to be implemented, security, and so on.

Life cycle – In Case Manager Builder

- Create case tasks for case types
- Unique identifier will show in WID
- Preconditions (events) determine when a given task is available to the case worker

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Here is an example of step one where the business analyst has defined the case management solution, tasks, and case types in the IBM Case Manager Builder. The information that is entered here is important because it will help uniquely identify the task when the IT developer using WebSphere Integration Developer, or WID, will implement a coordinating business process. The preconditions, which you can think of as events, can determine when a given task is available to a case worker.

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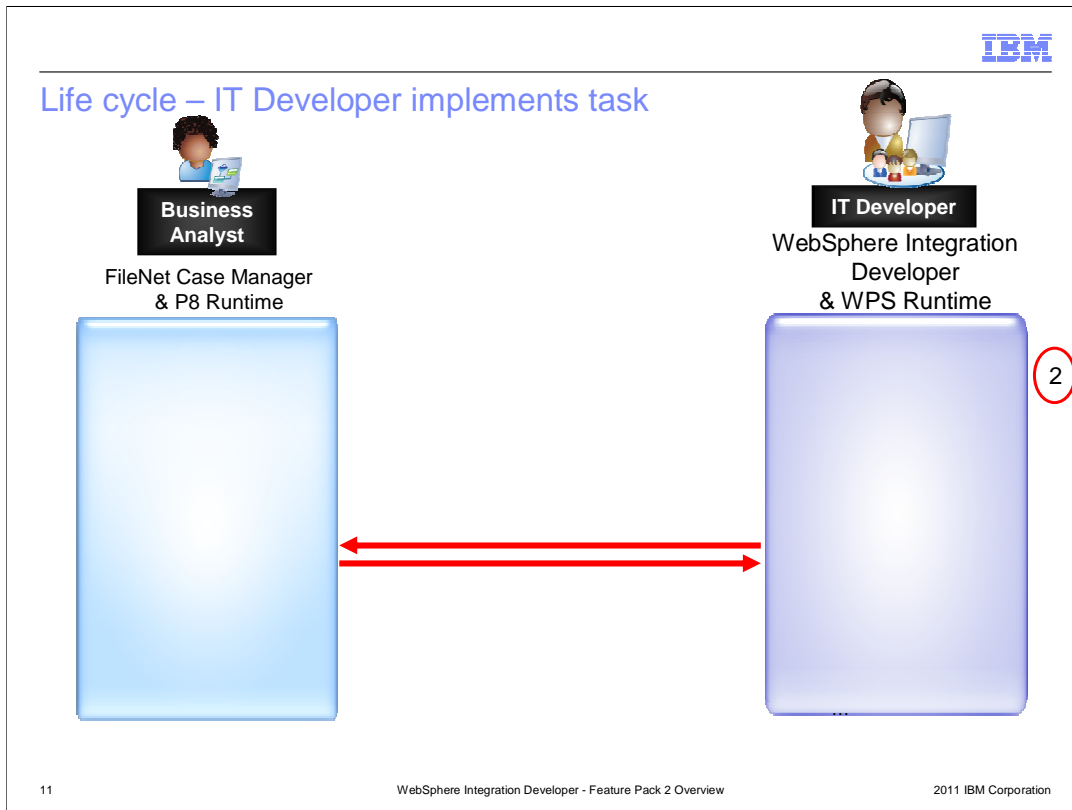
Once the business analyst has finished building and testing the case management solution, the business analyst communicates with the IT developer using WebSphere Business Process Management software to implement the case manager task as a business process. That is, the IT developer uses the external service wizard in WebSphere Integration Developer to discover case definitions. WebSphere Integration Developer will introspect the case definition for tasks using a Filenet P8 API and prompts you which task or tasks to implement.

Life cycle – IT Developer implements task

Business Analyst

FileNet Case Manager
& P8 Runtime

IT Developer

WebSphere Integration
Developer
& WPS Runtime

2

WebSphere Integration Developer - Feature Pack 2 Overview
2011 IBM Corporation
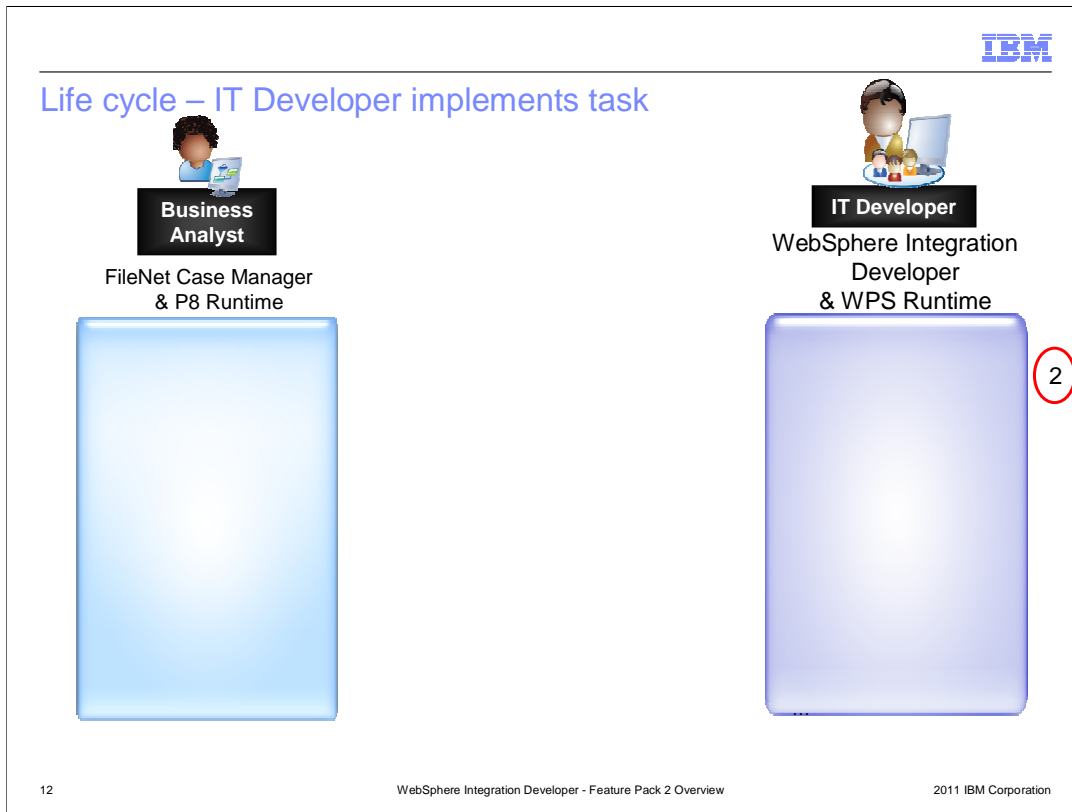
In addition to prompting which tasks to implement, WebSphere Integration Developer prompts the IT developer which case properties are needed (inputs, outputs) on the business interface and generates appropriate modules, WSDL, a web service export, a web service import for callback, BPEL, and business objects. WID saves the FileNet connection information in the generated module to be reused if you need to run through the wizard again.

Life cycle – External Service Discovery

IT Developer

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Here is an example of how this action is done inside WebSphere Integration Developer. Select file, new, external service and open the plus sign for Case Management to find the option to implement as a web service.

Life cycle – External Service Discovery

IT Developer fills out FileNet connection information

IT Developer

The wizard will then step you though connecting to the FileNet system. You will need this information from the business analyst.

On this page of the wizard, you will select with tasks you want to implement. Notice icons or visual markers have been built in to the tools to help identify if a task has already been implemented and only allows you to implement unimplemented tasks.

Life cycle – External Service Discovery

Once tasks are identified, select the inputs and outputs you are planning to use in the business process. More than likely, this has been agreed to between the business analyst and the IT developer.

Life cycle – External Service Discovery

IT Developer

- Microflow default due to immediate response
- Both short and long running options creates BPEL
- 3rd option for non-BPEL (ex: Java)

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Now that you have identified the details of the case management task, chose how you will implement the case management task. You will have three options; a microflow, a long-running business process, or to not create a business process. Microflow is the default given the majority of cases for a case management task are to provide a more immediate response. However, both short and long running options creates BPEL code for you to work with. The last option assumes you will use a non-BPEL implementation like Java.

Life cycle – External Service Discovery

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The last page of the wizard allows you to specify what level of server the application is deployed to and if you need to use web service security. Note; adding security to web service affects the service. For example, moving a web service to a test environment to a production environment will change the web service details. Therefore, perform same security setup on the new server that you did with previous. When selecting "Use security to access the web service" check box, the secure port on the server will be used. Security is provided at the transport layer with WS-Security token over HTTPS layer. A default policy set, "BPM FileNet web Services", is applied to web service export. "Use a secure socket layer (SSL) connection" check box selected by default. If security is not selected, user credentials are not encrypted. For long running business processes, encryption of the response flow from process back to the FileNet system is governed by SSL configuration of the P8 Component Manager. Ensure P8 Component Manager is configured to use a secure socket connection in order for the response data to be encrypted as well.

Life cycle – IT Developer implements task

Business Analyst

FileNet Case Manager & P8 Runtime

IT Developer

WebSphere Integration Developer & WPS Runtime

2
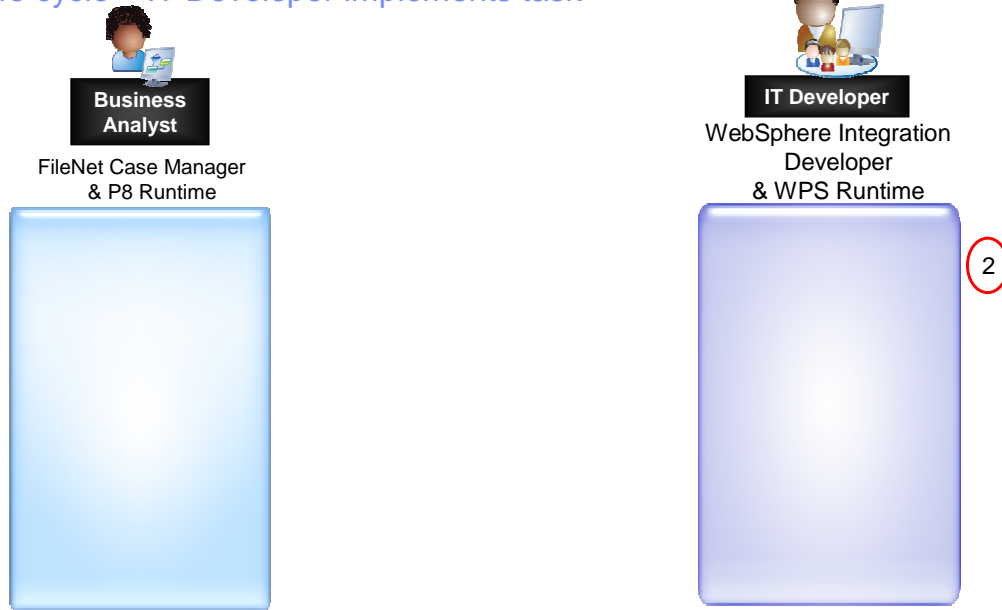
WID will then push the content into the Filenet repository using the Filenet P8 API and implements the business process based on WSDL/XSD contract.

Life cycle – What is generated?

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Once content has been generated, you can open up the business process editor, interface editor, business object editor, or the assembly editor like on the next page.

Life cycle – What is generated?

SOAP 1.1, doc-lit, JAX-WS only

Set default policy set and provider binding
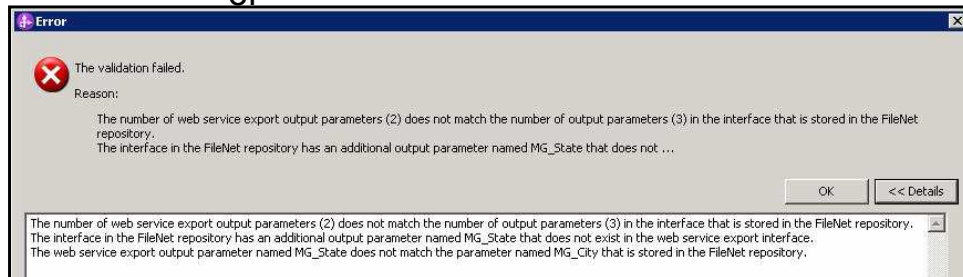
Set default policy set and client binding

A default policy will need to be set in the export and import. Another item to make sure of is exports are generated as SOAP 1.1, doc-lit, or JAX-WS style only.

Validation

■ Validation of service
   – Right click Case Management web
     service export
   – select "Validate" option

CaseManagement-WSExport

Undo
Redo

Add Note
Hide Notes

Add Interface
Regenerate Binding
Edit Binding…
Remove Binding
Refactor…
Validate

Success

The validation is successful. The implementation in the FileNet repository is synchronized with the web service export.

OK

or

Error

The validation failed.

Reason:

The number of web service export output parameters (2) does not match the number of output parameters (3) in the interface that is stored in the FileNet repository.
The interface in the FileNet repository has an additional output parameter named MG_State that does not …

OK   << Details

The number of web service export output parameters (2) does not match the number of output parameters (3) in the interface that is stored in the FileNet repository.
The interface in the FileNet repository has an additional output parameter named MG_State that does not exist in the web service export interface.
The web service export output parameter named MG_State does not match the parameter named MG_City that is stored in the FileNet repository.

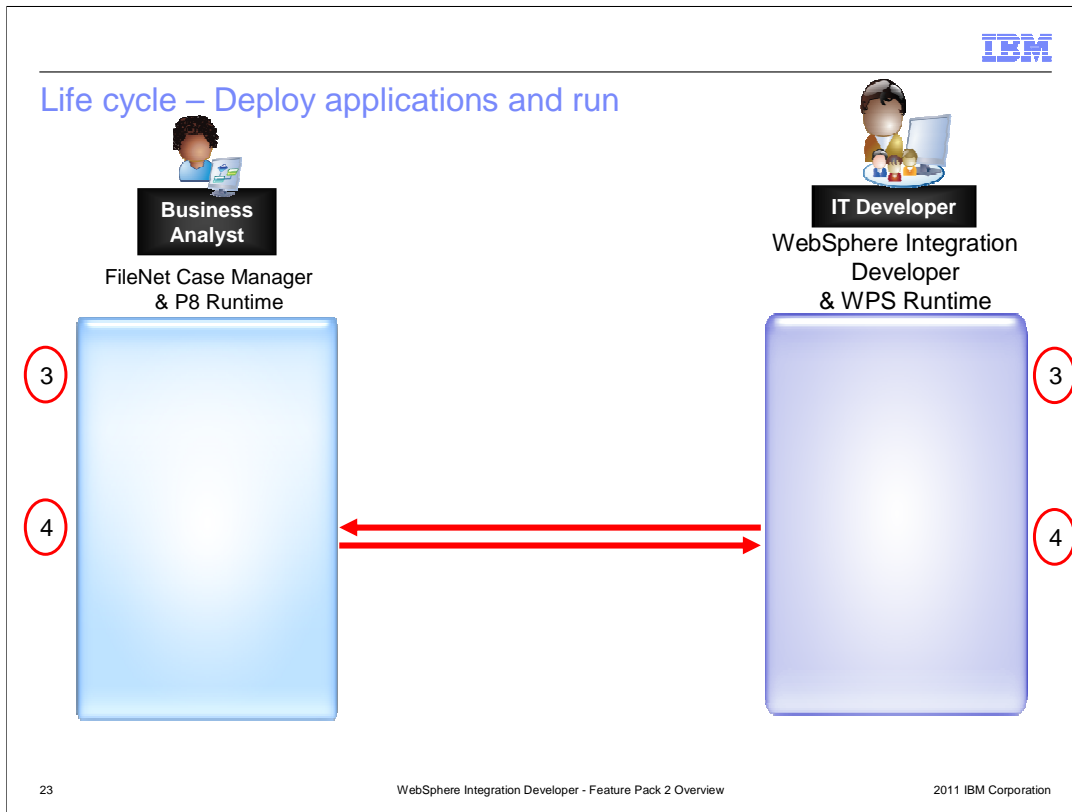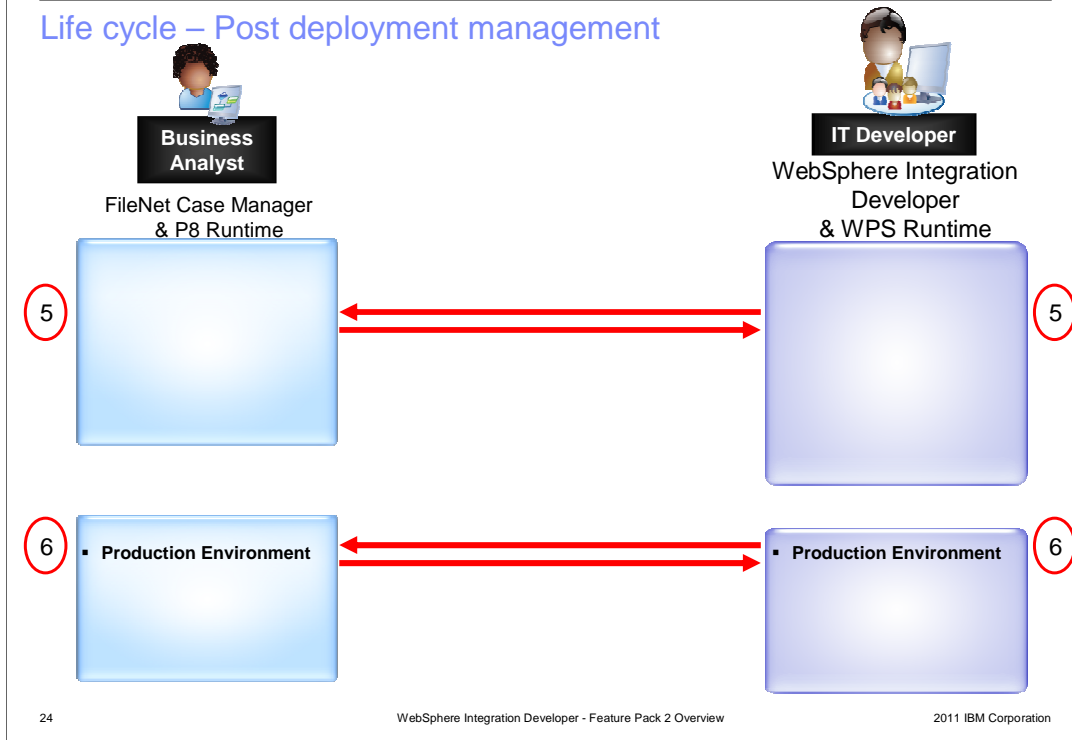22   p   g i   l p -   i   p ration

Not only can WID push content to FileNet, but it can also validate the service. Right click Case Management web service export and select the Validate option.

Life cycle – Deploy applications and run

Business Analyst

FileNet Case Manager
& P8 Runtime

IT Developer

WebSphere Integration
Developer
& WPS Runtime

In the third and fourth step of the life cycle, both sides deploy their applications to their respective servers to test full communication using web services. Business users invoke tasks which invoke WebSphere Business Process Management web service and the business process performs the work that drives the outcome of the task.

Life cycle – Post deployment management

Business Analyst

FileNet Case Manager
& P8 Runtime

IT Developer

WebSphere Integration
Developer
& WPS Runtime

5

5

6

- Production Environment

6

- Production Environment

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Once the process is verified successful, that is when the applications are moved to their appropriate test or QA servers. This change involves an update to the endpoint addresses and a revalidation. Once final testing is done, the changes are done once more to move the applications to their production environments.

Resources

Feature Packs for WebSphere Business Process Management products
- Introduction
- Installing the feature packs
- Using the feature packs
  - Using work baskets and business categories
  - Using ad hoc tasks
  - Using WebSphere BPM with Case Manager
    - Integrating business processes with Case Manager cases
      - Creating a web service to implement a case management task
      - Editing and validating exports used with case management tasks
      - Deleting a web service export used with a case management task
      - Design considerations for WebSphere web services used with case management tasks
        - Security for exports and imports used with case management tasks
        - Considerations when working with case management tasks
    - Updating module properties after deployment
      - Security considerations
      - Policy sets and binding considerations

- Information Center
  - http://publib.boulder.ibm.com/infocenter/dmndhelp/v7r0mx/index.jsp?topic=/com.ibm.websphere.wbpm.fep.doc/welcome.html

For more information on this enhancement, be sure to find the information center documentation on the feature pack two content at the link on this slide

Summary

- Feature Pack 2 Installation
  – Needs IBM Installation Manager 1.4.1
  – Must install, not an update

- Only for WebSphere Integration Developer and Adapters, no runtime counterpart

- Provided Overview of IBM Case Management and it's integration with WebSphere BPM

- WebSphere BPM/IBM Case Manager integration provides the ability to exploit the robust WebSphere BPM tools and runtime within case management solutions

- Provided link to more information

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In summary, feature pack two installs with IBM Installation Manager 1.4.1 and is only for WebSphere Integration Developer and WebSphere Adapters. There is no runtime counterpart. This presentation provided an overview of Case Management integration to help understand the background for IBM Case Management and what this feature pack provides in terms of integrating with WebSphere BPM. Specifically, this integration provides the ability to exploit the robust WebSphere BPM tools and runtime within case management solutions. To finish up, you were provided a link to the Information Center for more details.

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mailto:iea@us.ibm.com?subject=Feedback_about_WBPMv7_WID_FEP2.ppt

This module is also available in PDF format at: ../WBPMv7_WID_FEP2.pdf

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