IBM Business Process Manager V8.5

Working with documents in business processes



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This presentation introduces the new capabilities for working with business process documents in IBM Business Process Manager V8.5.

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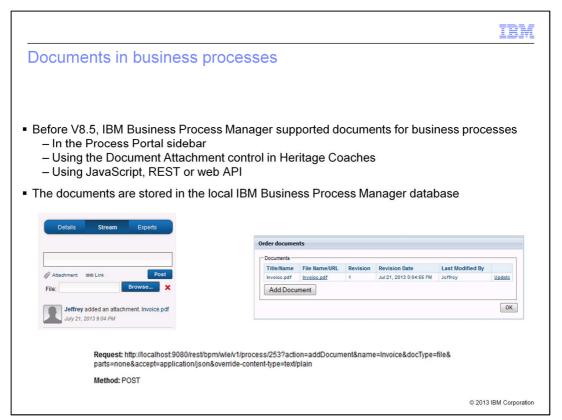
- Existing document features before the IBM Business Process Manager V8.5 release
- New document features in the IBM Business Process Manager V8.5 release
- Content operations and IBM BPM Document objects
- ECM events for IBM BPM Documents
- ECM Coach View updates

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First is a review of the functionality related to documents and business processes that is available in previous releases of IBM Business Process Manager. Then, the new capabilities in V8.5 are introduced, followed by a detailed description of the new capabilities and how to use them.



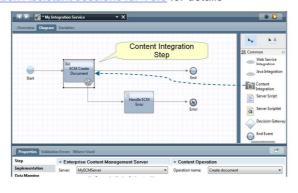
This section covers some of the document features that are available in previous releases.



In IBM Business Process Manager releases before V8.5, documents can be attached to business processes in four ways. As seen in the screen capture on the left, in Process Portal, the instance stream shows attached documents and allows the addition of extra documents. As seen in the screen capture on the right, in Heritage Coaches, the Document Attachment control is available to display documents and allow you to attach new documents. In server scripts, a JavaScript API is available to add documents to business processes. And finally, as seen in the sample Request statement here, in external clients, the REST or web API can be used to work with documents.

Accessing documents in external ECM systems

- Starting in IBM Business Process Manager V8.0, external Enterprise Content Management (ECM) systems can be accessed using the Content Management Interoperability Services (CMIS) standard
 - Content integration steps can be used in services to query, create, read, update and delete documents and folders
 - Document List and Document Viewer coach views can be used to list, display and upload documents
- See the IBM Education Assistant sessions for V8.0 for details



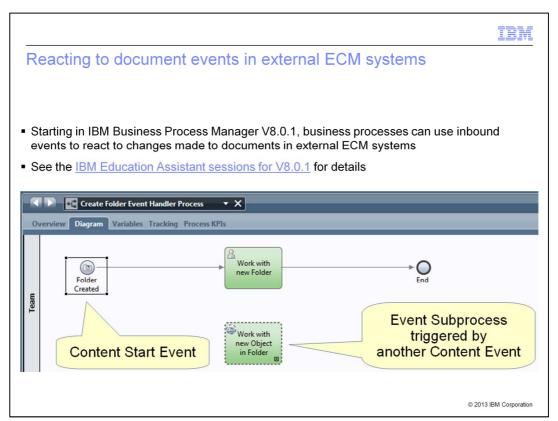
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Beginning in IBM Business Process Manager V8.0, you can access documents in external Enterprise Content Management, or ECM, systems that support the Content Management Interoperability Services standard.

Content Integration steps can be used in services to query, create, read, update and delete documents in external ECM systems.

The Document List and Document Viewer coach views are available to display and upload documents.

Detailed instructions on how to access external ECM systems can be found in the IBM Education Assistance sessions for IBM Business Process Manager V8.0. See the "ECM integration" category under Process Designer.



Beginning in V8.0.1, IBM Business Process Manager supports business processes for reacting to document events for documents that are stored in external ECM systems. This allows, for example, the modeling of a business process that is started when a document or folder is created.

Detailed instructions on how to configure and model inbound events from external ECM systems can be found in the IBM Education Assistant sessions for IBM Business Process Manager V8.0. See the "Process Designer enhancements for V8.0.1" category under Process Designer.



This section provides information on the new document features in IBM Business Process Manager V8.5.

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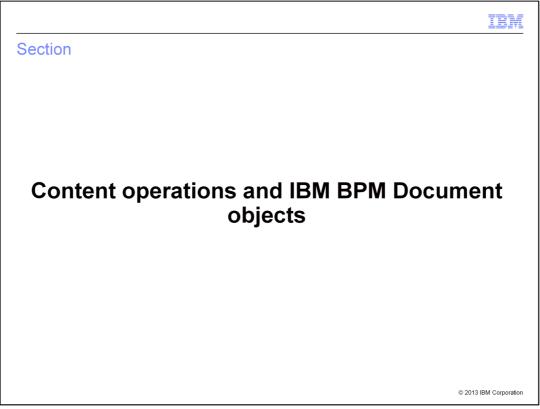
New document features in V8.5

- IBM Business Process Manager V8.5 introduces IBM BPM document store, which provides consistent document management for external and internal IBM BPM Document objects
 - Content integration steps can be used in services to access IBM BPM Document objects
 - Document List and Document Viewer coach views can display IBM BPM Document objects
 - Inbound events can be handled for IBM BPM Document objects
- The same functionality can be used to access either IBM BPM Document objects or external documents
- The JavaScript, REST, and web API interfaces for IBM BPM Document objects continue to work the same way
 - Now also access IBM BPM document store

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In prior releases, the tools for internal documents, which are known as IBM BPM Document objects, and the tools for documents in external ECM systems differed in terms of technology and access concepts. IBM Business Process Manager V8.5 introduces the internal IBM BPM document store, which supports the Content Management Interoperability Services standard interface for consistent management of both internal and external documents.

Content integration steps can be configured against the IBM BPM Document objects to access them in the same way that documents in an external ECM system are accessed. The Document List and Document Viewer coach views can be configured to work with internal IBM BPM Document objects. Inbound events for IBM BPM Document objects can be handled in business processes. IBM BPM Document objects and external documents can be accessed using the same functionality. The existing Heritage Coach controls, and the JavaScript, REST and web API interfaces, continue to work the same way, but they now access the documents in IBM BPM document store.



This section provides details on available content operations and IBM BPM Document objects in the V8.5 release.

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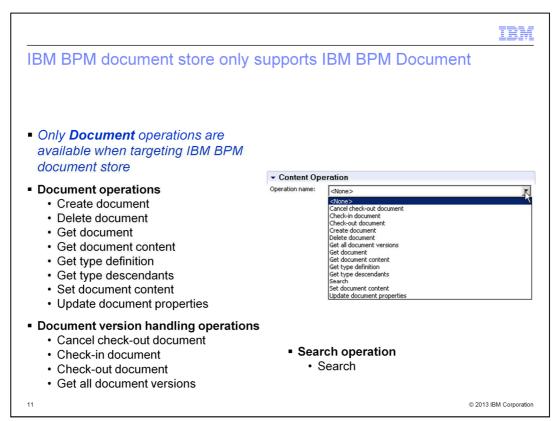
Enhanced Content Integration step

- Integration, Human, and Ajax services can be used to work with IBM BPM Document objects through the Content Integration node
- The Content Integration node:
 - Allows IBM BPM document store to be targeted
 - Exposes a limited set of CMIS operations that can be used to work with IBM BPM Document objects in a service
- Document operations can only be run against the IBM_BPM_Document document type

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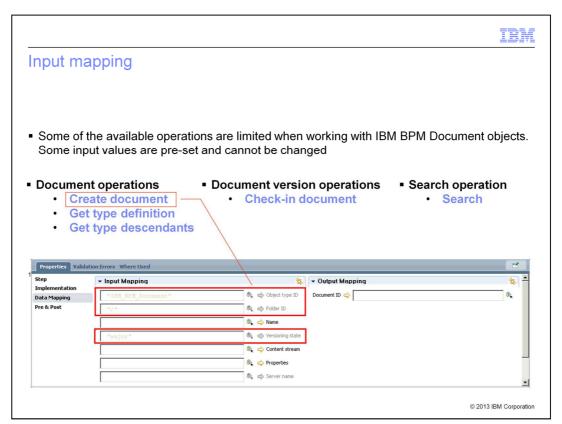
IBM Business Process Manager V8.5 offers an enhanced Content Integration step. It can still target an external ECM server to perform folder and document content operations. In addition, it can now also target IBM BPM document store, which supports a limited set of document operations.

The Content Integration step continues to be available in the same service types, mainly Ajax, human services, and integration services.



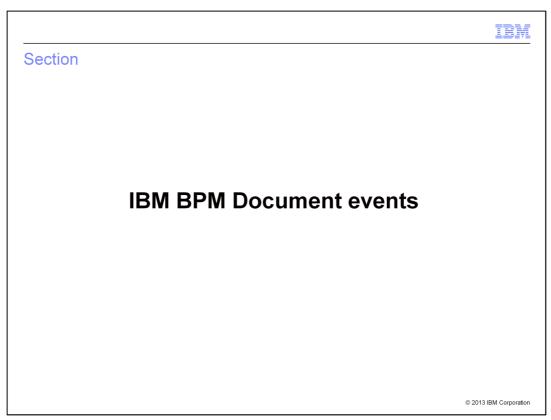
IBM BPM document store only supports a single document type -- **IBM BPM Document** -- and does not support folders. As a result, when you author a Content Integration step that targets IBM BPM document store, you will find that only a subset of the content operations are available for use.

None of the folder operations are available. And none of the document operations that relate to folders are available, such as the **move document** operation. However, the operations that are available behave in the same way as they do for an external ECM server.



After you implement a Content Integration node with a document store and content operation, the next step is to configure the data mapping for the node with the appropriate input and output parameters.

For a typical external ECM server, you can specify the input of every operation. However, when targeting IBM BPM document store, there are some exceptions. Since this document store only supports a single document type and does not support folders, the inputs to some of the operations are pre-set and cannot be changed. This slide shows the content operations that have at least one predefined input when IBM BPM document store is targeted. The **create document** operation is shown as an example.



This section provides details about IBM BPM Document events.

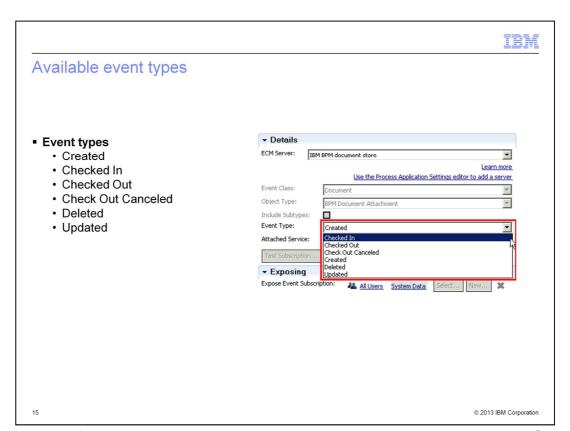
IBM BPM Document events

- Event subscriptions can be created against IBM BPM document store
- IBM BPM document store supports:
 - A subset of the content event types supported by external ECM systems
 - The single document type IBM_BPM_Document

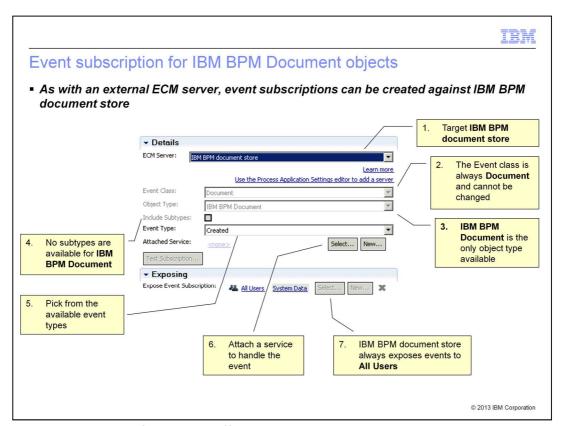
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Content events allow you to create an *event subscription* for a document store. This subscription can then be used to trigger an undercover agent.

In V8.5, IBM BPM document store can now be targeted when creating an event subscription. There are some limitations in what you can select when configuring the event subscription for IBM BPM document store, for the same reasons mentioned previously



Only a subset of events are available when targeting IBM BPM document store. Since IBM BPM document store does not support folders, folder events are not an option. Similarly, you can only subscribe to the set of document events that are associated with the create, update, delete, check-in, and check-out operations. This is due to the single document type that is supported by this document store.



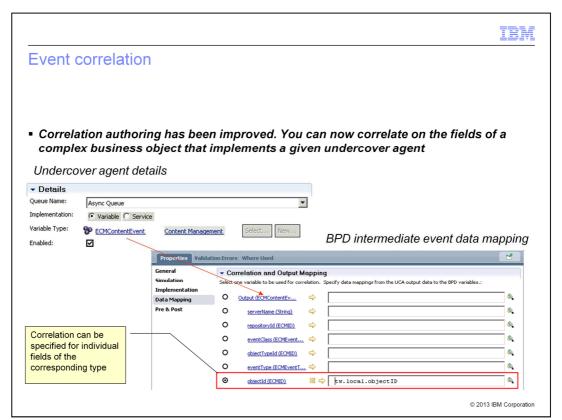
There are also some configuration differences when targeting the IBM BPM document store, rather than an ECM server. For example, when you select the IBM BPM document store as the target server, most configuration fields are disabled and are set to a default value.

The event class is set to **Document** by default and it cannot be modified. This is because IBM BPM document store only supports document operations.

The object type is set to the only supported document type -- **IBM BPM Document**. Since this object type does not have any subtypes defined, the **Include Subtypes** option is disabled and set to false. Event type choices are limited, as described on the previous slide.

You can define an attached service as you do for an external ECM server. This configuration is the same.

The events broadcast by IBM BPM document store are always exposed to all users. As a result, the team selection is disabled and is set to **All Users** by default.



There are some improvements in the way event correlation is authored in IBM Business Process Manager V8.5.

In previous releases, when the attached undercover agent was implemented by a variable type, the correlation had to be performed by providing a variable of that type. This was difficult for complex business objects, because it required the business process definition to populate the complete data structure for the variable.

In this release, correlation is now permitted at both the type level and at the level of an individual property of the type. This slide shows the correlation of a content undercover agent that, by default, is associated with an ECMContentEvent type. But, in this example, you only want to correlate on the objectID field of the event. So, you only specify a variable for that field and select the radio button next to it, to indicate that it is the correlated value.

You can also map other fields, or the root type, to local variables so that you can process the event.

This new capability does not just apply to content undercover agents. It also applies to the correlation of any event that has an undercover agent that is implemented by a complex business object.

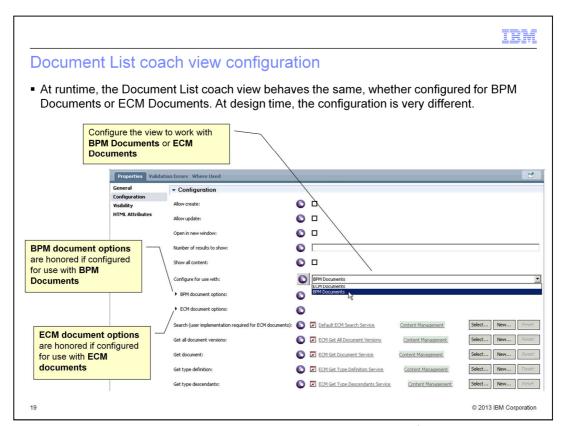
ECM coach views and IBM BPM Document objects

- ECM user interface controls include the Document List and Document Viewer coach views
- The Document List coach view has been enhanced to:
 - Work against IBM BPM Document objects
 - Allow you to specify search criteria in the View configuration
 - Allow you to specify Upload Document criteria in the View configuration

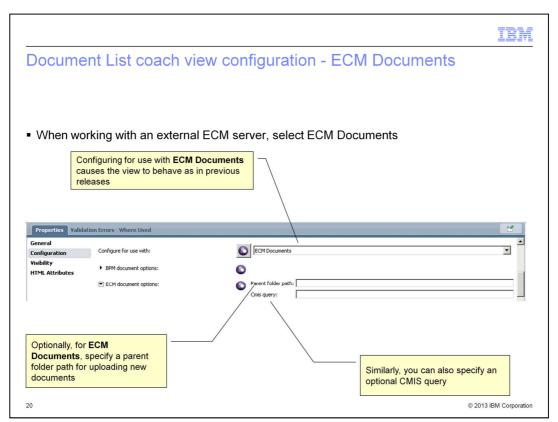
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IBM Business Process Manager ships with two coach views that are designed to work with documents. The Document List coach view and the Document Viewer coach view are included in the Content Management Toolkit. In V8.5, the Document List coach view now supports IBM BPM Document objects. It offers the same functionality that was available in the Document Attachment Heritage Coach control.

Like its predecessor, you are able to configure the Document List coach view with Search and Upload criterion. Aside from the configuration options, the view still behaves the same at run-time, regardless of whether it targets IBM BPM document store or an external ECM server.

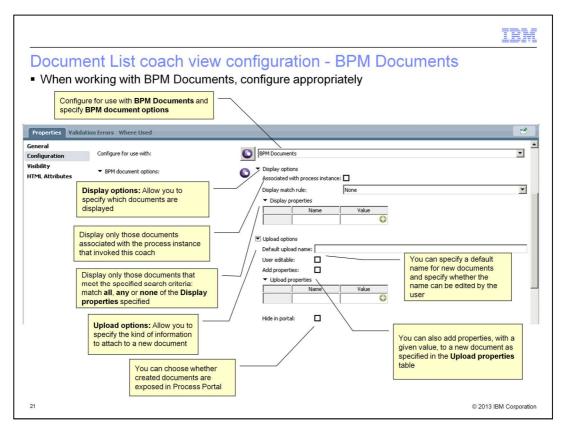


In IBM Business Process Manager V8.5, the Document List configuration page includes a few new options, such as the **Configure for use with** option. This option can be set to either **ECM Documents** (which is equivalent to pre-V8.5 functionality) or **BPM Documents**. The value selected for this configuration option determines whether the view will use the ECM Document option or the BPM Document option at run time.



When the Document List is configured to work with ECM Documents, it behaves the same as it did in previous releases.

Since the **Parent folder path** and **CMIS query** options only apply to ECM documents, they are now located in the new **ECM document options** section of the Document List configurations page.

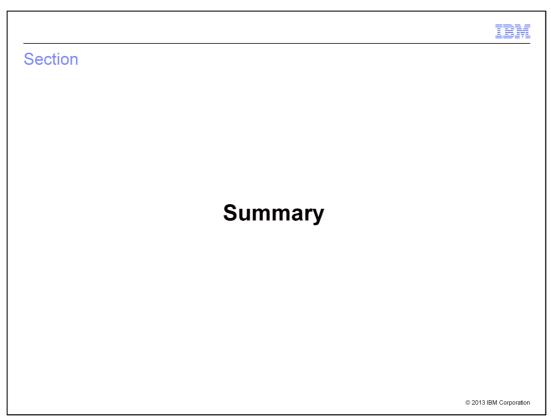


When the Document List is configured to work with BPM Documents, it will honor the values specified in the new **BPM document options** section of the configurations page. This section is divided into several sub-levels. It resembles the configuration properties of the Heritage Document Attachment coach control.

There are two main categories of BPM document options: **Display options** and **Upload options**.

Display options allow you to specify the query that is used to populate the Document List. You can specify whether to display only documents that belong to the process instance that instantiates the current task or documents that belong to all processes in the system. Display options also allow you to specify a set of property name-value pairs and whether **None**, **All** or **Any** is the match criteria when searching for documents to display.

Upload options are used to control documents that are created by the Document List view. As a result, these options are only relevant if the view is configured to allow a Create operation. The Upload options allow you to specify a default document name and whether the name is user-editable. They also allow you to specify whether properties are added to newly created documents and, if so, which specific properties are to be added. The Upload options also let you configure whether new documents should be visible in Process Portal.



The next slide summarizes the topics covered by this presentation.

Summary

- Reviewed document support features available before the IBM Business Process Manager V8.5 release
- Introduced to the document support enhancements in the IBM Business Process Manager V8.5 release
- Learned about the use of content operations with IBM BPM Document objects
- Learned about the configuration of ECM events for IBM BPM Document objects
- Learned about the configuration of the ECM coach views for IBM BPM Document objects

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You received an introduction to the document support enhancements in the IBM Business Process Manager V8.5 release. These enhancements were compared to existing functionality in previous releases. You also learned about the different configuration and authoring options for the Content Integration step, Event Subscriptions, and the Document List coach view.

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