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Process Metadata		
Process Metadata		
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Objectives

- At the end of this section, you will be able to
 - Name the assets that generate Designer metadata
 - Name the preconfigured searches
 - Configure a custom metadata search
 - Describe the differences between local and shared metadata

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- Use local metadata to investigate dependencies and references
- Publish/retract metadata into/from a shared CentraSite registry
- Use shared metadata to generate impact analysis

Software AG Training | 14-2

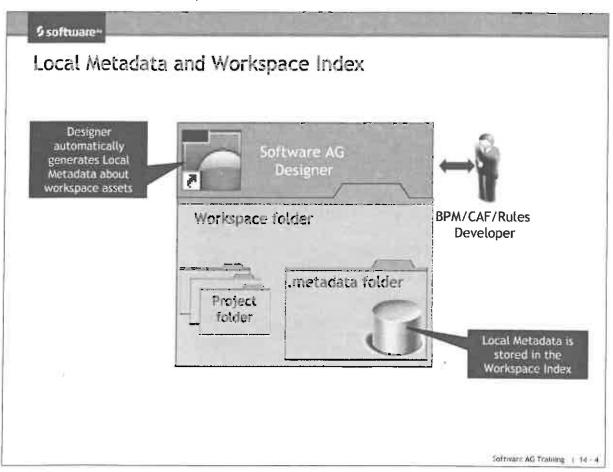
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Designer Metadata: Assets

- Designer can be configured to generate metadata about workspace assets.
- Regarding BPM, Designer tracks the following assets:
 - Process projects
 - Processes and Process references
 - CAF Tasks and UI projects
 - Portlets and Portlet views
 - User Tasks and User Task references
 - IS and TN Document Type references
 - IS Service references
 - Business Rule references

Software AG Training | 14 - 3

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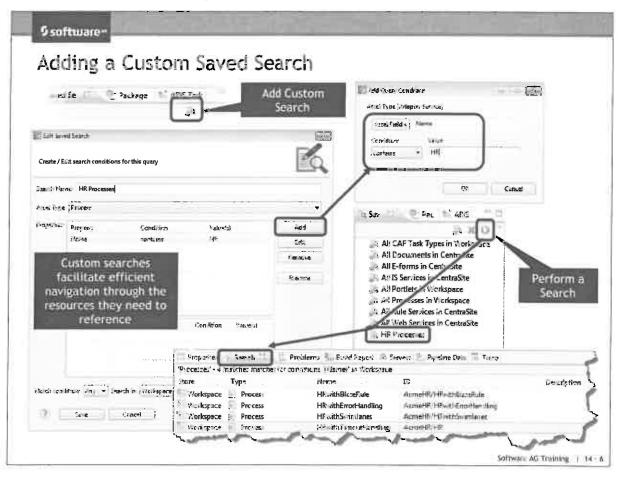


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9 software" Metadata and Saved Searches (Local) Metadata is leveraged for Saved Searches Designer provides multiple preconfigured Saved Searches Fackage APE Task 1 Saved Se Preconfigured Saved Searches Ali CAF Task Types in Workspace cannot be deleted or changed , All Documents in CentraSite All E-forms in CentraSite Custom Saved Searches may be added 4, All IS Services in Centralite Custom/preconfigured Saved Searches are Ali Portlets in Workspace All Processes in Workspace - created All Pule Services in CentraSite All Web Services in CentraSite viewed Preconfigured edited Saved Searches executed in Saved Searches view Process Developer and Business Analysts can leverage this information to determine where assets are used Software AG Teaming | 14 - 5

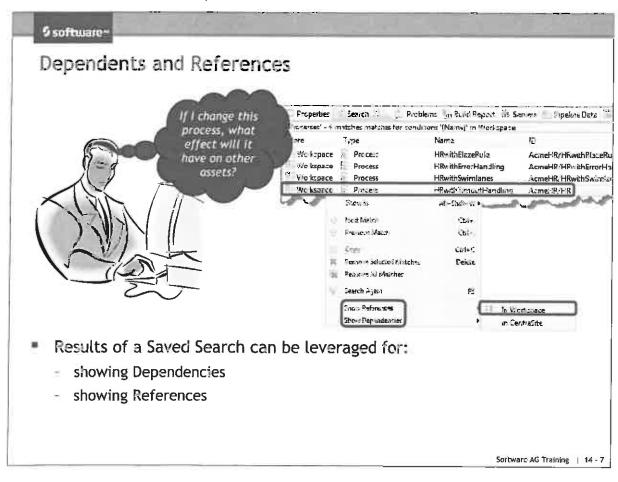
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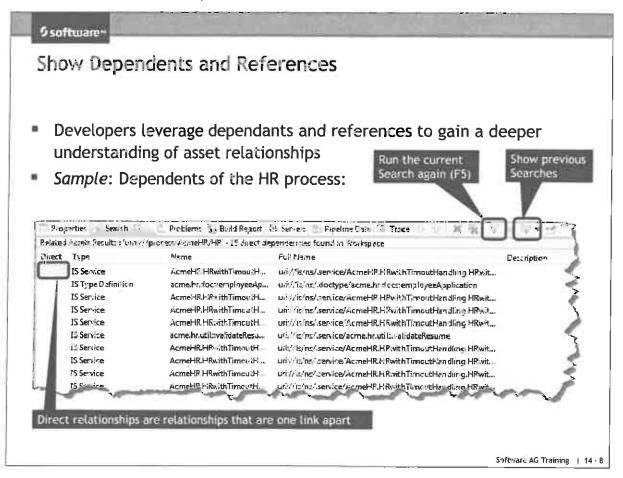


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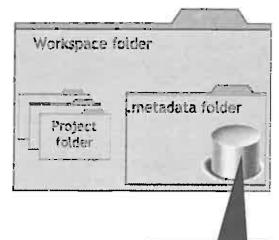
S software-Generate Local Metadata - Enablement Partienes Generation of local metadata is 1. 12 (1. - 12) Worl space Index enabled by default ■ Softr-are AG Mikspace Inder Presencer Aia. Developer Disable stockspate inde ting Applina Business Rules Business Carrices Code Generation Use Designer preferences to Construct Continuo is Query E disable metadata generation in Document Expansio EntireX Workspace Index, if it is not Ellents Unchecked = Generate local External Tools being used Integration Server. Metadata in Workspace Predict Description Process De religine Pequert Locument This may marginally increase Service Developmen Tamino Task Development the performance of Designer Testing UDD: Registries Lil De elonment deb Services Stack Mentapage in la Passer a Defaults Appt. Software AG Training | 14 - 9

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Resetting Workspace Index...

- Resetting Workspace Index
- only required if:
- Metadata creation was disabled
 - Re-enabling metadata creation will not generate the missing metadata retroactively
 - Metadata is created or updated only when a file change occurs
 - Assets with the missing metadata are typically already saved
- Workspace Index is corrupted
 - If metadata seems to be missing for assets, consider resetting the Local Metadata Library.



Local Metadata is stored in Workspace Index within Designer workspace and is based on Apache Lucene

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- ...Resetting Workspace Index
- 1. Ensure that Workspace Indexing is enabled (Designer preferences).
- 2. Exit Designer
- 3. Using a file explorer, navigate to:

<workspace>\.metadata\.plugins\
com.softwareag.metadata.eclipse\index

- 4. In the index folder, delete all contained files
- 5. Re-start Designer
- 6. Using Navigator view, close and open each project





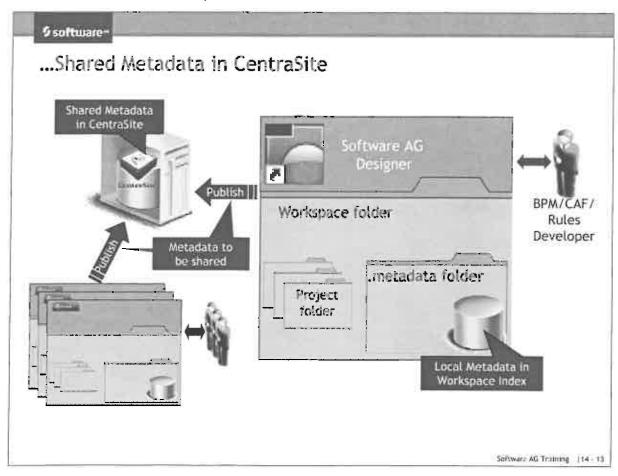
Software AG Training | 14-11

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9 software-Shared Metadata in CentraSite... Shared Metadata can be created in a common CentraSite registry/repository CentraSite is typically launched on a shared network node Access to CentraSite configured using Designer preferences Support for multiple CentraSite instances P/-6 : -5 1, ... fil ANT a costant expression outgoestern theories in one gureen as a nation of statch contestion. (17 million) Pored to be. The away relian. :Aki 7. Francis en fon gun por :!sine Evel Contraction Conferences Meel http://S4-26-aSE:53305-% If (Configurations/No/Configuration in) Totaler action solid junction data whoess, the landated î desin istrator . rel . Sace plass is of the title deligible retierure richtage, 7. Ten CF Canes Access from multiple Designer instances supports team development

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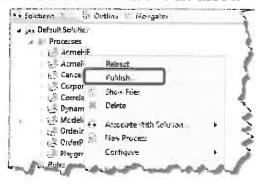


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Publishing Metadata to CentraSite...

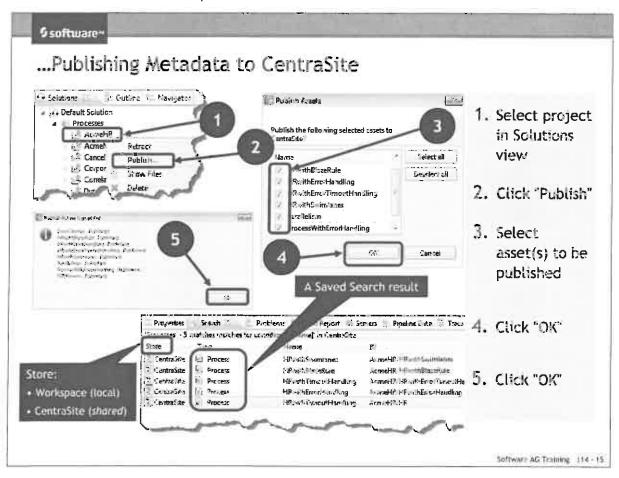
- Creation of shared metadata is on demand
 - Not published to CentraSite automatically
- Use Publish to share metadata about an asset:



 Metadata can be published to CentraSite even if generation of local metadata is disabled

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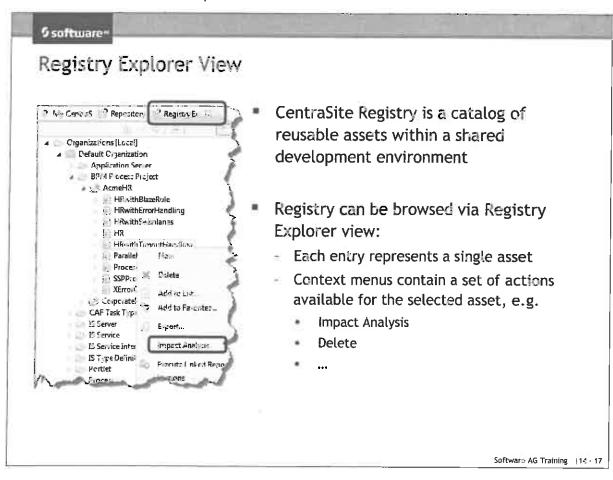


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webMethods 8.2 BPM for Developers 9 software " Using Local and Shared Metadata Metadata (local/shared) are information about BPM Processes, User Tasks, Portlets,... Workspace Index and CentraSite may also contain non-BPM metadata, for example document and service information published from IS or other webMethods products Local and Shared Metadata may be accessed from Designer through: Saved Searches view Match condition Any - Search b Workspace & Centraline available when Search view creating a Sive Car. le CentraSite custom Saved Search. Shared Metadata may be accessed from Designer through: Registry Explorer view Impact Analyzer view

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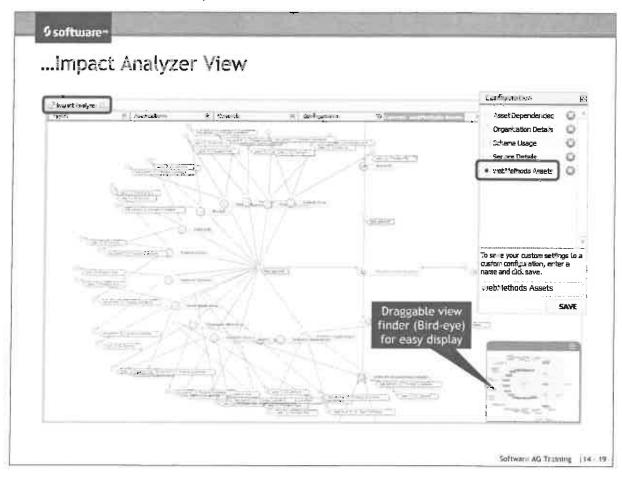
Impact Analyzer View...

- !mpact Analyzer view provides a textual and graphical view of related assets
- Impact Analyzer view can be used to navigate dependency trees quickly and efficiently to determine a deeper understanding of impact analysis
 - Assets can be collapsed
 - Assets can be expanded
 - Assets to be displayed can be filtered
- Only available for shared metadata published to CentraSite

Software AG Training (14-18)

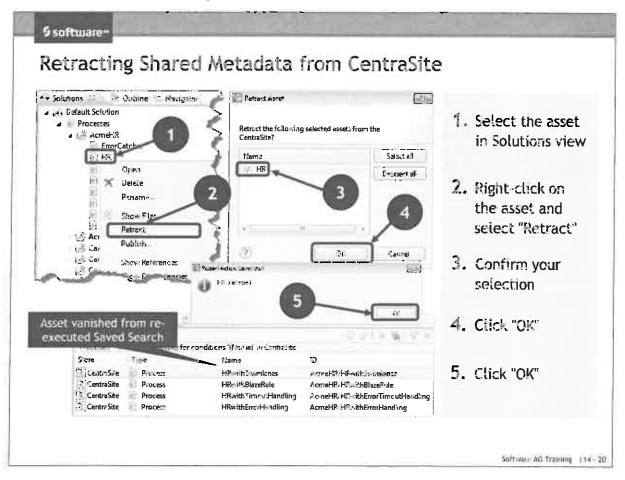
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webMethods 8.2 BPM for Developers



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Team	Development	and Proces	s Versioning	1
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Objectives

- At the end of this section, you will be able to
 - Enable team development by using a VCS like CVS or Subversion
 - Describe side-by-side deployments
 - Version process models

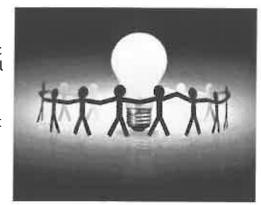
Software AG Training | 15 - 2

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Team Development

- Planning for team development should be considered early in a project
 - Implementing team development after a lot of development has already taken place will require a lot more effort
- Project management should mandate that every developer leverage source code control on their processes, tasks and generated code
 - An incomplete source code control is nearly as bad as a non-existent one



 Introduce source code control by using a Version Control System (VCS), also referred to as Source Code Control system (SCC)

Software AG Training | 15 - 3

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5 software-VCS/SCC Systems Commonly used VCS/SCC systems: Concurrent Versions System (CVS) Eclipse 15 GUI plug in Package Subversion Check in. VCS Client Visual SourceSafe check out,... ClearCase Perforce proprietan HTTP/webDAV protocol Shared and Supported Features: versioned Check in/out sources Revert changes Delete VCS Repository Get latest/earlier version View history VCS Server Hierarchical behavior Multiple user support Standard copy and paste, move, and rename behavior Software AG Training | 15 - 4

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Designer and VCS Support

- Designer supports source code control for
 - Process projects
 - CAF projects
 - webMethods Business Rules projects
 - other projects (e.g. Java, webMethods EntireX, NaturalONE,...) and



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- IS assets (e.g. packages, documents, services, etc...)
- Source Code control for workspace-related resources are handled using a VCS client delivered as Eclipse plug-in
 - CVS client plug-in to be installed with Software AG Designer
 - others can be added by installing related plug-ins
- Source Code control for IS packages from Designer IS Package Navigator view is handled via Integration Server accessing a VCS
 - supporting Subversion, ClearCase, Visual SourceSafe, not supporting CVS
 - Affected Integration Server requires WmVCS package and one of {WmSubversion | WmClearCase | WmSourceSafe}

Software AG Training | 15 - 5

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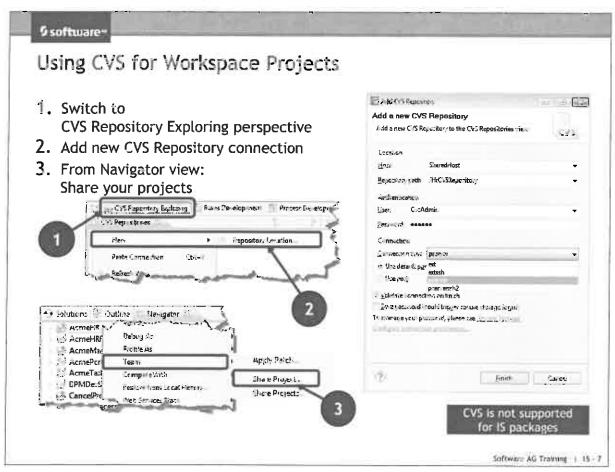
Concurrent Versions System (CVS)



- CVS is an Open Source VCS.
 - From Designer, you can record the history of sources files, and documents related to your process or CAF projects.
 - CVS client installed as Eclipse plug-in with Software AG Designer; CVS Server has to be installed on a shared server
 - Currently not supported for source code control of IS packages
- CVS has a rich feature set including:
 - Client/server CVS architecture enables developers to function as a single team
 - Version history stored on a central server; client machines have a copy of all the files
 - Unreserved checkouts allowing more than one team member to work on the same file simultaneously
 - Scripting of CVS operations such as check-in and check-out
 - Site-specific security policies may be set (again using a script)
 - CVS runs on most UNIX/Linux operating systems and Windows

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Subversion

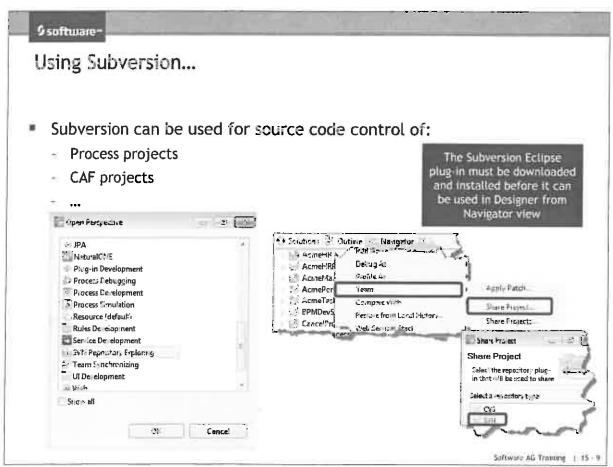
- Subversion is an Open Source VCS
 - Has to be installed on a shared server



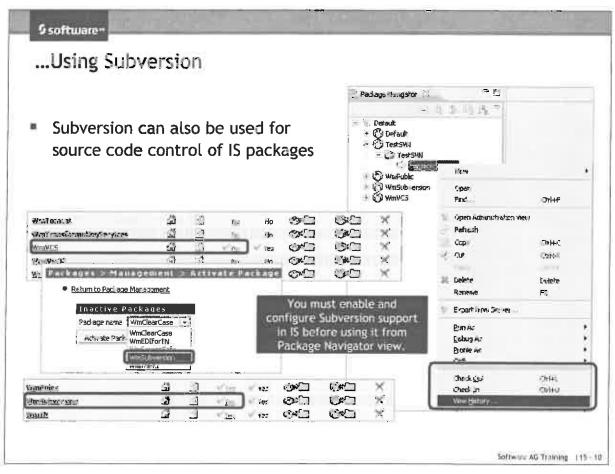
- Subversion offers most of the features of CVS, with some compelling extras:
 - Directories, renames, and file meta-data are versioned:
 - Subversion in contrast to CVS can track not only file change history, but all the changes in file system of the shared projects
 - Subversion allows to add/delete/remove/rename all the shared resources without creating new items and loosing information about deleted ones.
 - Subversion also allows arbitrary properties to be versioned along with any file or directory
 - Subversion can use HTTP-based protocols for network communications:
 - Apache web server can provide repository-side network service
 - Efficiency add-ons over CVS:
 - Binary files are handled efficiently
 - Changes to files are handled efficiently

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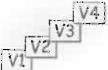


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Process Model Versioning

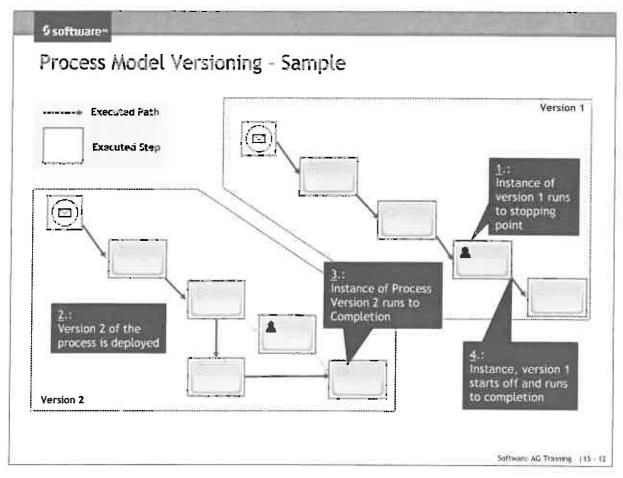
- webMethods Designer provides the ability to version process models.
 - Process version is a property of the process not related to a VCS version number
 - Versioning does not affect CAF Task project



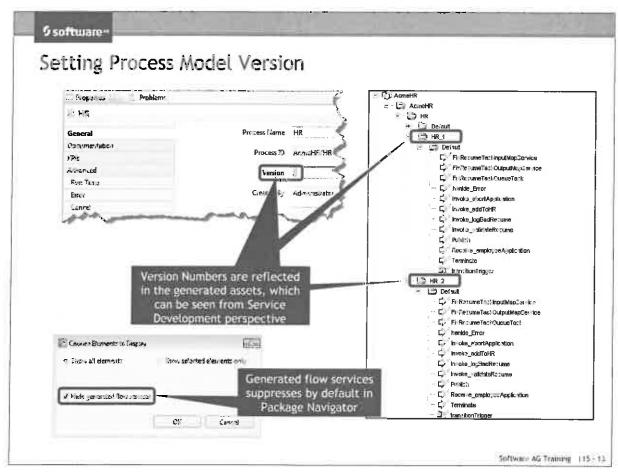
- When a new process version is built and uploaded:
 - A new set of assets is created in participating Integration Server(s)
 - New process model data is loaded into the database (Audit DB)
 - Enabling new model with higher version disables model with older version
- webMethods runtime provides the ability to have "side by side" deployment of process versions:
 - A running process will continue to completion on the version on which it launched
 - New process instances will run on the new version

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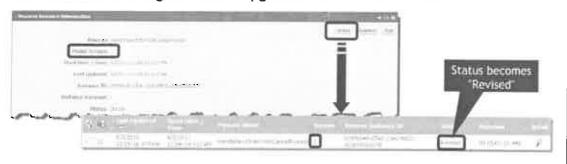
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Optional In-flight Process Versioning...

Optional "In-flight Process Versioning": After Build and Upload a newer process model is available. If it becomes automatically execution-enabled, two process models co-exists with the later enabled for execution:



My webMethods Monitoring allows to update running or suspended process instances that are eligible to be "upgraded" to a newer version:



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- Optional In-flight Process Versioning": If a newer process model with a higher version number is not "auto execution-enabled" after a successful Build and Upload, but manually done through the Business Process page in My webMethods Administration, an upgrade message box will appear when saving: - My webMethods Business Process - Do you want to upgrade running process - Instances to this version of the process model - Tee Tab

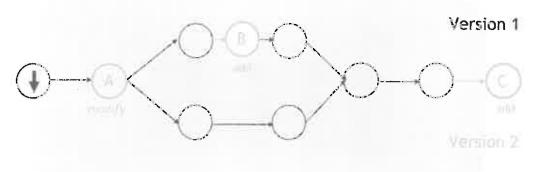
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In-flight Process Versioning - Remarks

- Handle with care! Only useful, if process has been
 - increased by adding new steps
 - modified slightly in a compatible way



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What Should I Take Next?

Now that you have completed the **webMethods 8.2 BPIM for Developers** class, there are a number of other courses you can take:

- Interested in more Business Process related courses?
 - webMethods 8.2 Optimize for Process
 - webMethods &.2 Business Rules
 - Model-to-Execute with ARIS and webMethods BPMS
- Interested in Integration Server services development or administration?
 - 🖯 webMethods 8.2 Integration Workshop
 - webMethods 8.2 Administration Workshop
- Interested in UI Portlet development?
 - webliethods 8.2 CAF UI and Portlet Development
- Interested in Trading Networks?
 - webMethods 3.2 Trading Networks Workshop

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Certification

- Our certification programs establish standards for knowledge and skills necessary to successfully implement mission-critical IT systems using Software AG technology

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Further Information Find our Developer Communities at http://communities.softwareag.com Contact our Support web site at http://empower.softwareag.com Discuss product and feature ideas at http://brainstorm.softwareag.com

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