

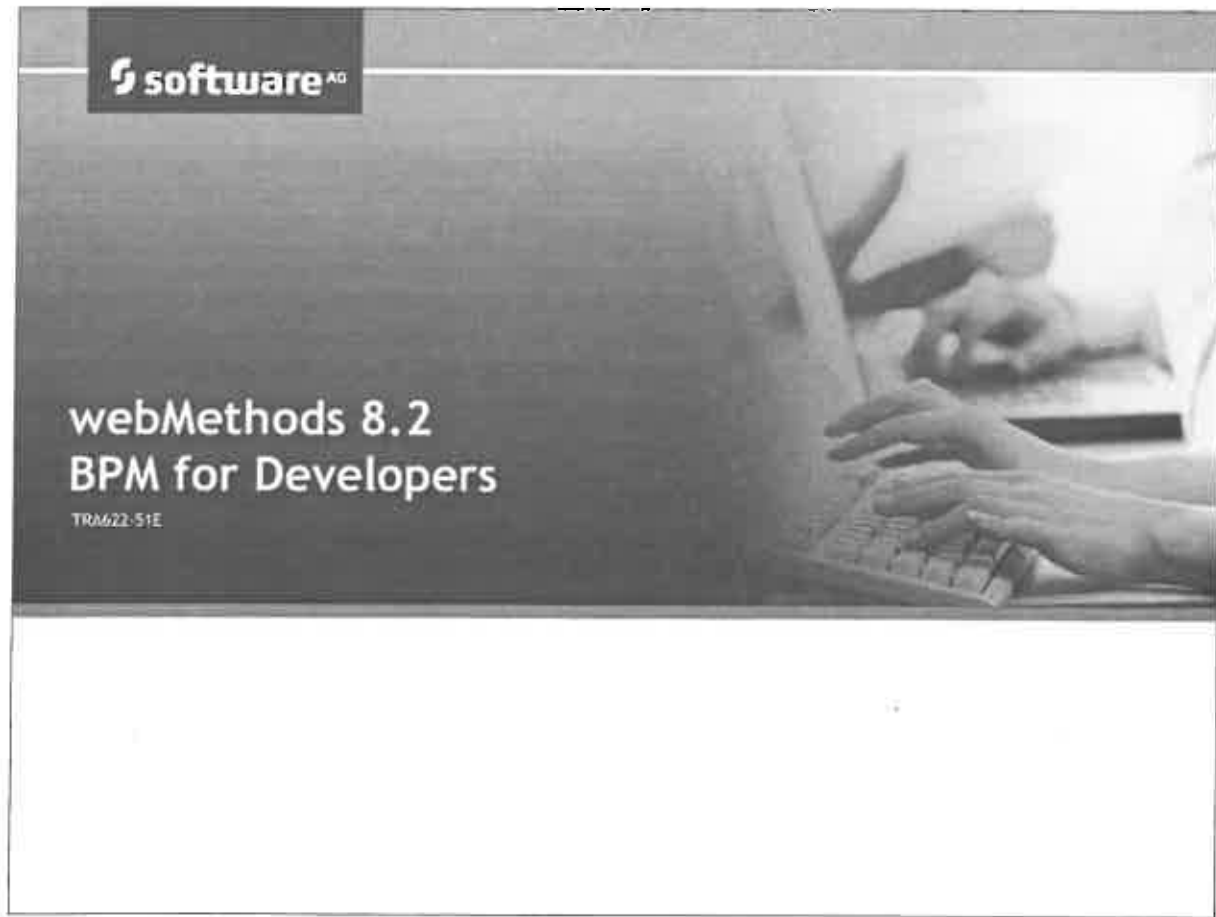


webMethods 8.2 BPM for Developers

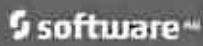
Participant Guide

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Notes: _____

11



Welcome to Software AG Training!









- Housekeeping Items
 - Class hours
 - Refreshments
 - Smoking
 - Restrooms
 - Emergency exits
 - Sign-in sheets

- So Everyone Benefits, please:
 - Turn off/silence cell phones and pagers
 - Check e-mail only at breaks
 - Refrain from side discussions
 - We all want to hear what you have to say!
 - Feel free to ask questions during the lecture

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Notes: _____










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Chapter 2	Setup Your BPMS Environment	
Chapter 3	Introduction to Process Modeling and Execution	
Chapter 4	Create a User Task Activity	
Chapter 5	Process Administration and Monitoring	
Chapter 6	Parallelism and Joins	
Chapter 7	Message Handling, Correlation and Reuse	
Chapter 8	User Task Architecture and Refactoring	

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Chapter 15	Team Development and Process Versioning	
Chapter 16	Wrap Up	

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Appendix A Business Activity Monitoring (BAM)



Appendix B Process Simulation



Appendix C BPMS Architecture



Notes: _____

1

Introduction

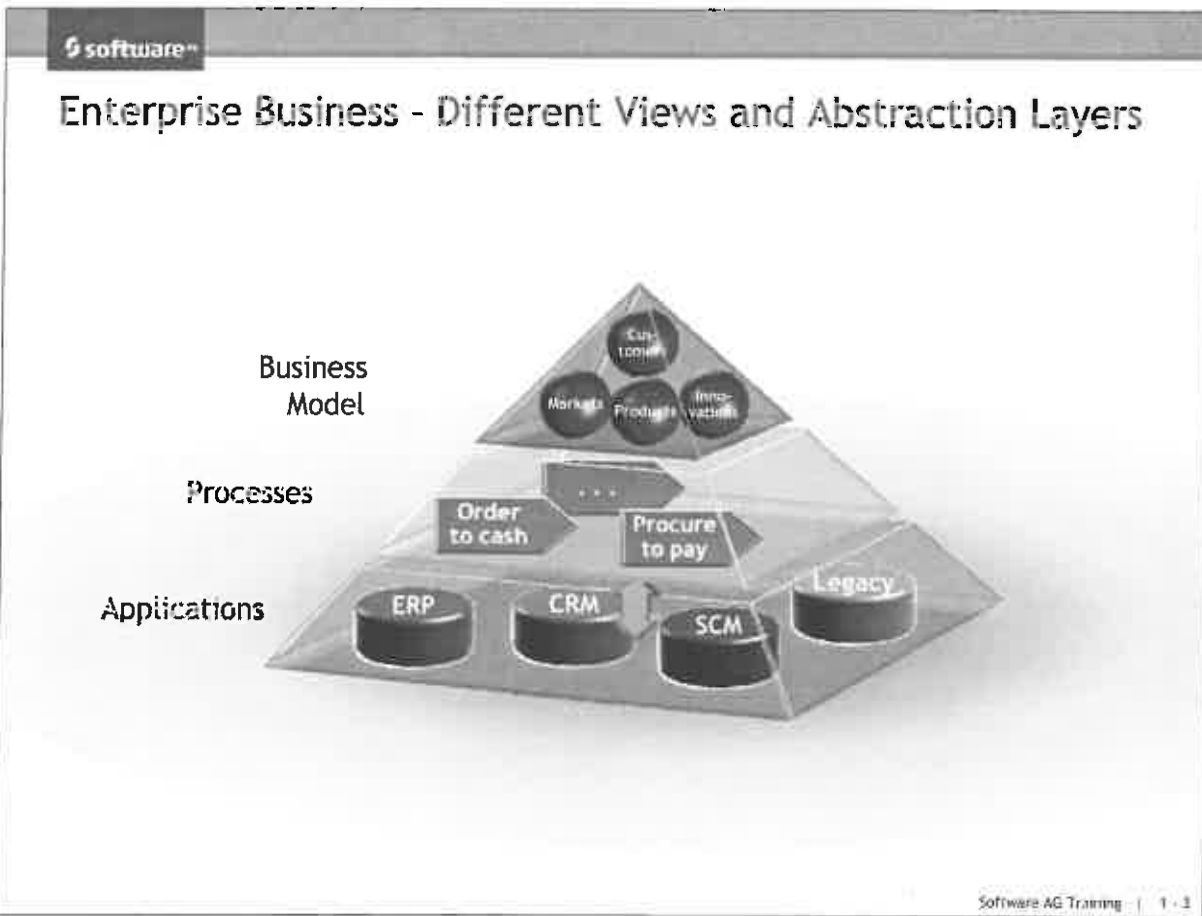


Notes: _____

Objectives

- At the end of this section, you will be able to
 - Explain the benefits of Business Process Management (BPM)
 - Understand the Business Process lifecycle
 - Distinguish between the various stages and roles involved in business process development
 - Understand the BPMS development and runtime architectures
 - List the components used by webMethods BPMS

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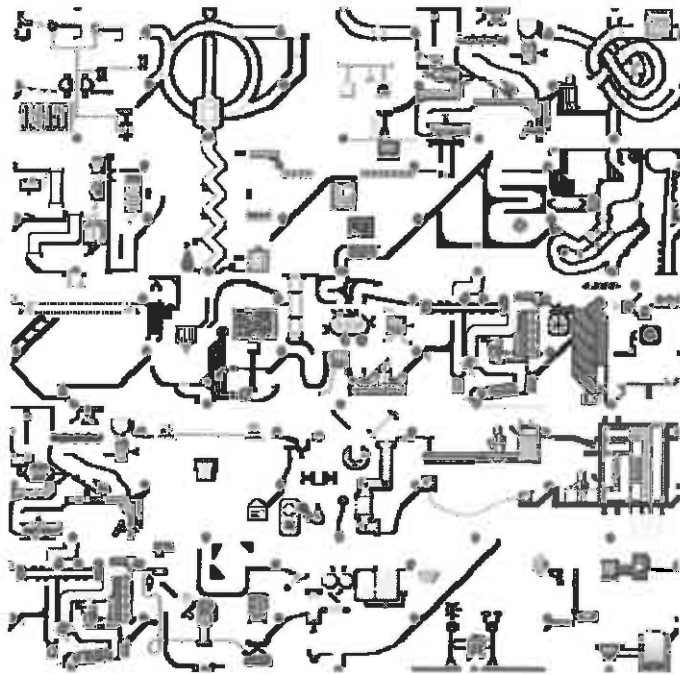
Notes:

SCM -

CRM - Customer Relation Management

ERP -

Business Processes - "Amateur" Perspective



What is a Business Process?

- A business process comprises a series or network of value-added activities
- Activities are automated or are performed by humans
- These processes are critical to any organization
 - generate revenue
 - represent a significant proportion of costs

Notes: _____

software

Business Processes - Bridge between Business and IT

The illustration depicts a 3D scene where a bridge labeled 'Business Processes' connects two distinct environments. On the left, labeled 'Business', there is a circular platform with several stylized human figures sitting at desks, representing a business office. On the right, labeled 'IT', there is another circular platform featuring various computer equipment, including monitors, laptops, and server racks, representing an IT infrastructure. The bridge itself is a long, flat rectangular block with the words 'Business Processes' written on its side, acting as a physical link between the two worlds.

Business

IT

Processes are not just something your Business does -
Processes are your Business!

Software AG Training | 1 - 5

Notes: _____

Enterprise Challenges

That's the focus of this class!

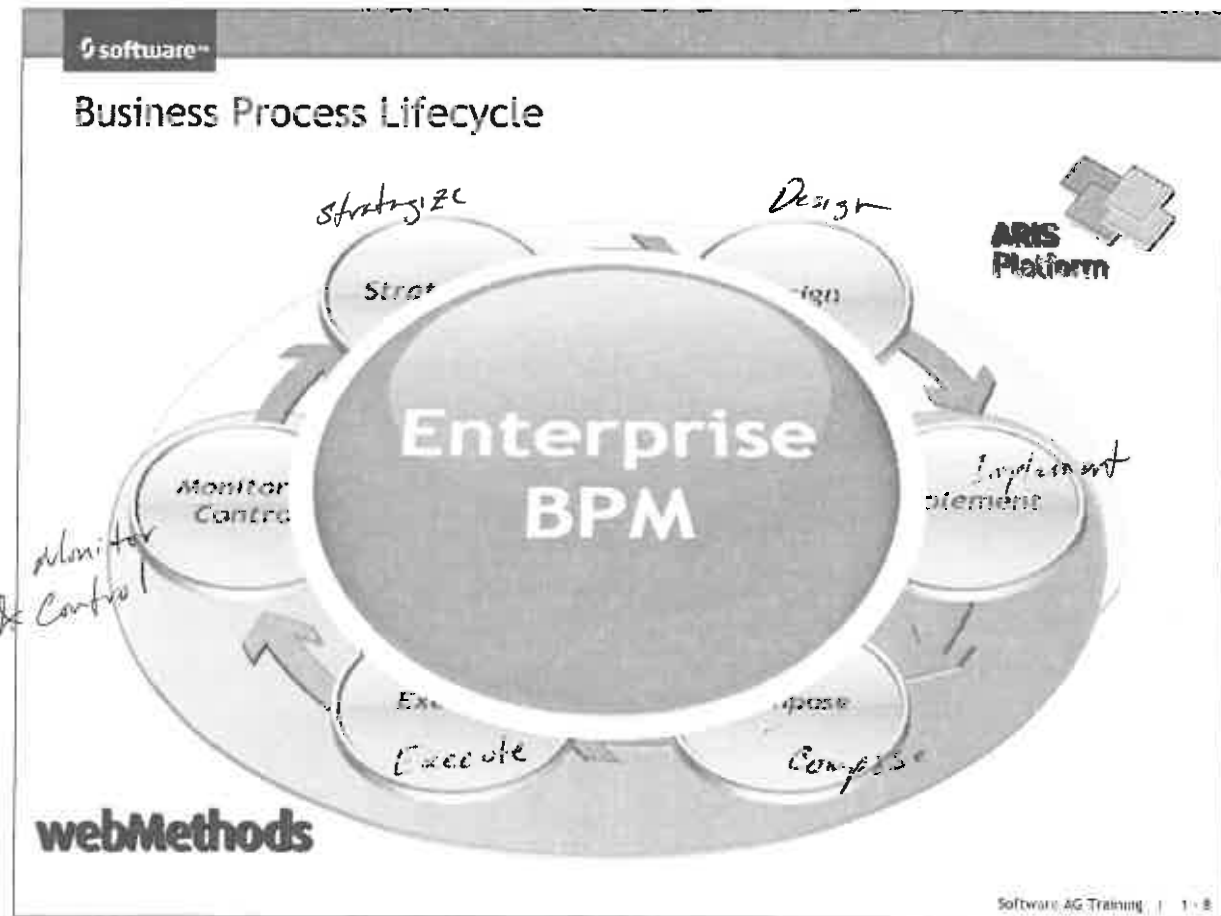
- Three key challenges faced by today's enterprises:
 1. The need to analyze, streamline, model, automate, and improve business processes
 2. The need to integrate applications essential to the company's business
 3. The need to deliver agility and lower maintenance costs by exploiting Service-Oriented Architecture (SOA) and SOA Governance
- To address these challenges, Software AG's Business Infrastructure Technology is designed to facilitate and deliver the convergence of Business Analysis, Business Process Management (BPM), Business Activity Monitoring (BAM), Integration, and SOA.

Notes: _____

Business Process Management (BPM)

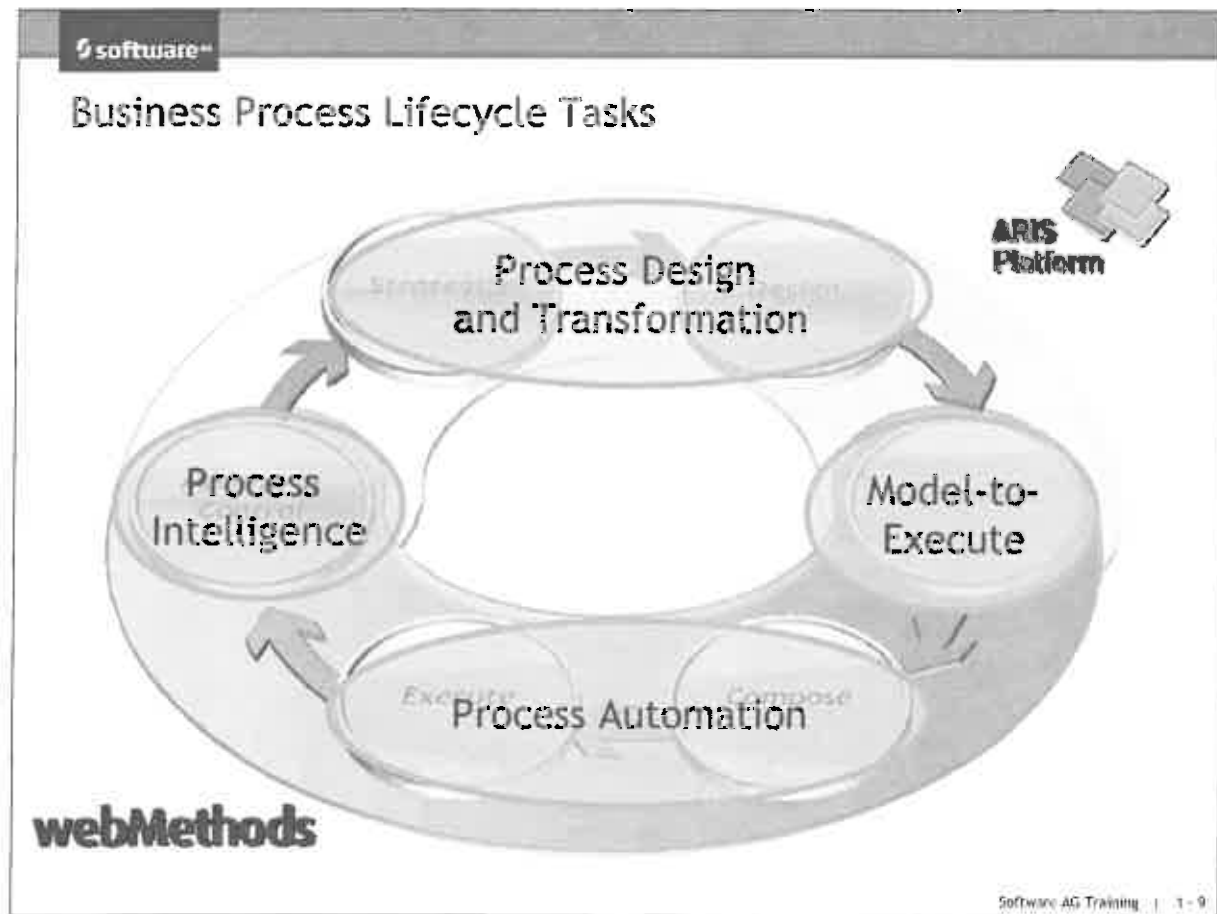
- BPM describes and automates end-to-end business transactions, coordinating people and systems in formalized interactions
- People interactions include User Tasks such as approval, review, exception handling, and manual procedures such as order entry
- End-to-end orchestration provides the advantages of:
 - de-personalized business procedures from single points of expertise
 - improved business performance through automation
 - an overarching view for accurate business understanding
 - measurement of improvements to business operations such as strategic initiatives and quality programs
- BPM solutions provide tools for analysis, design, automated execution, monitoring and evolution
- BPM attempts to improve processes continuously - it can therefore be described as a "process optimization" process

Notes: _____

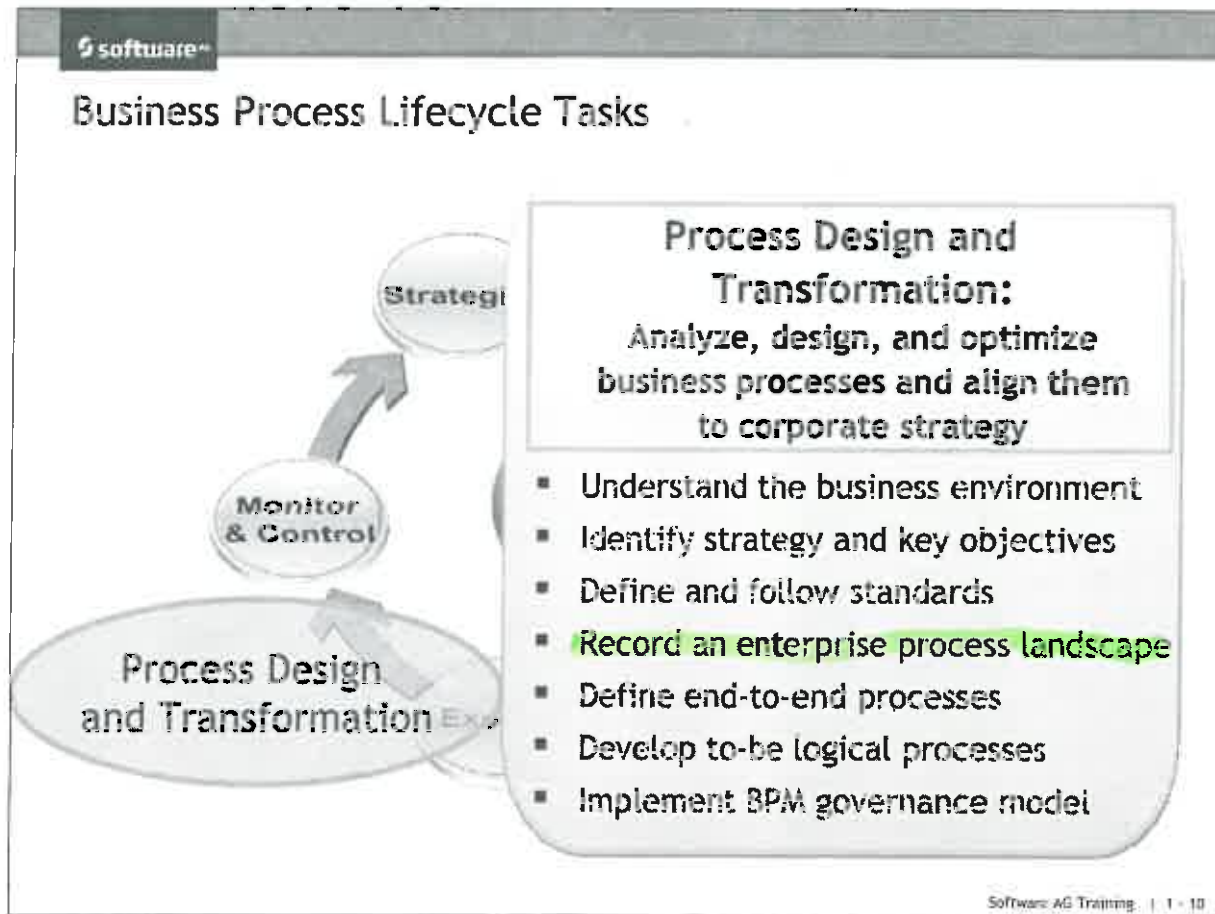


Notes: _____


Implementation is the process of mapping the individual business items. See next slide




Notes: _____




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Processes Design Stages



Business



Logical




IT


Business Design

Logical Design

Technical Design & Implementation



ARIS Platform




webMethods

- Different model types are needed
- Each model follows a different paradigm

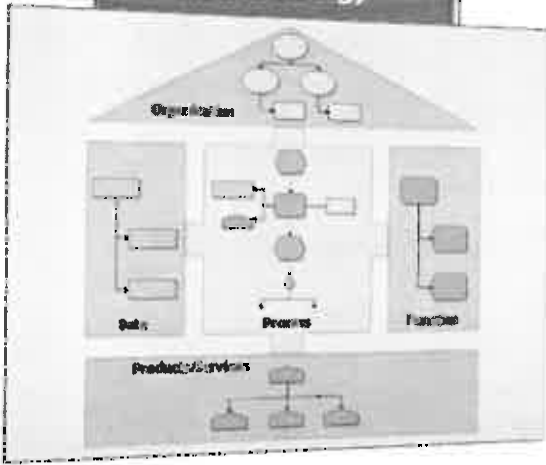
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Notes: _____



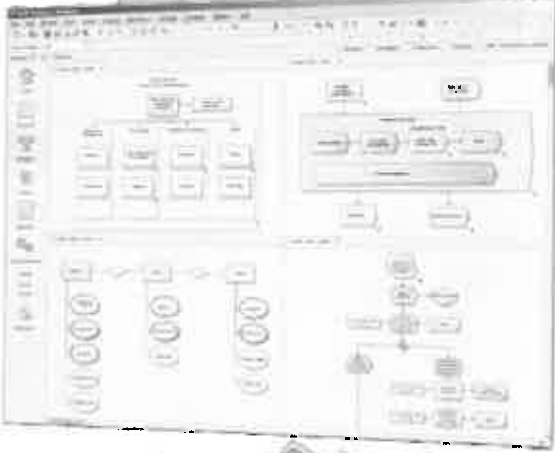
Processes Design and Transformation using ARIS Platform

Methodology



Architecture of Integrated Information Systems (ARIS)

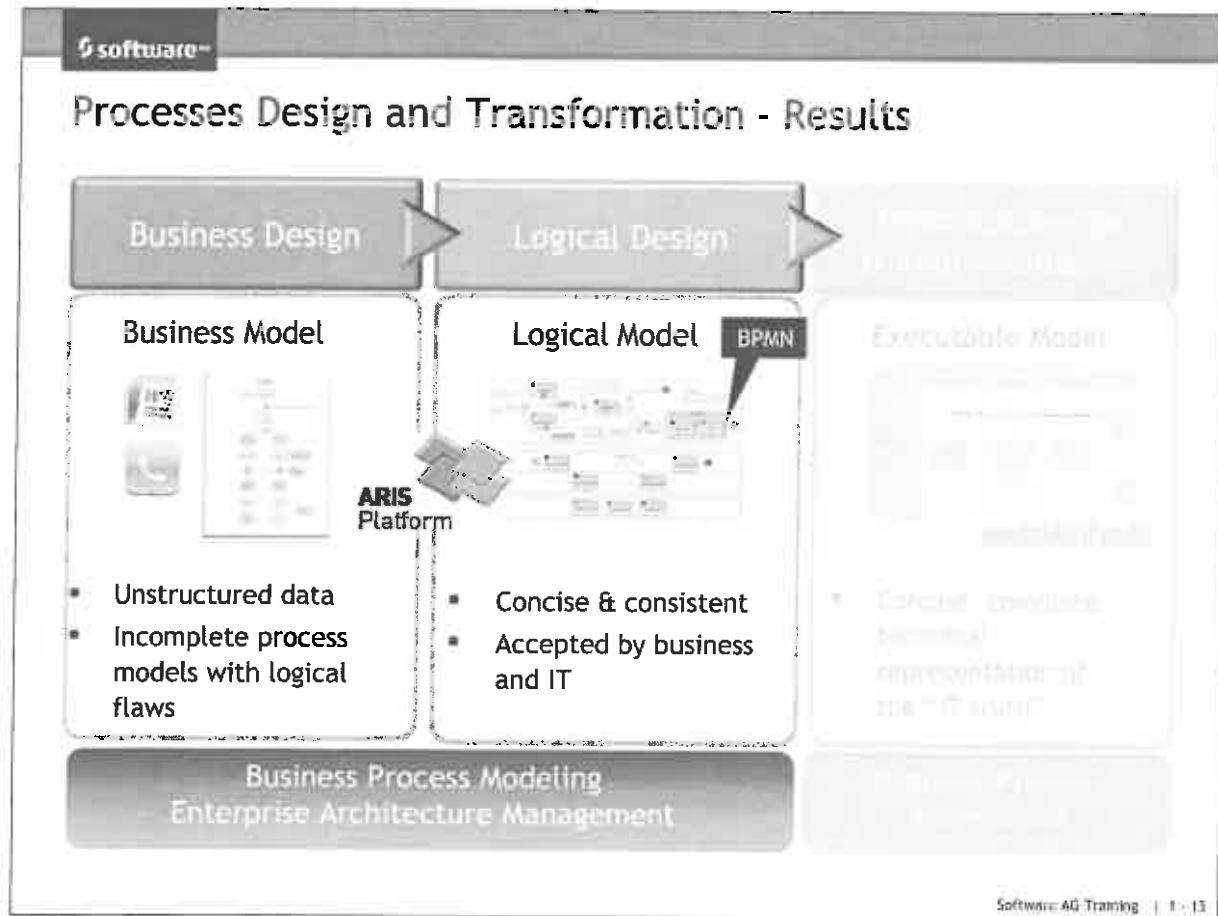
Tool



ARIS Platform


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Notes: _____

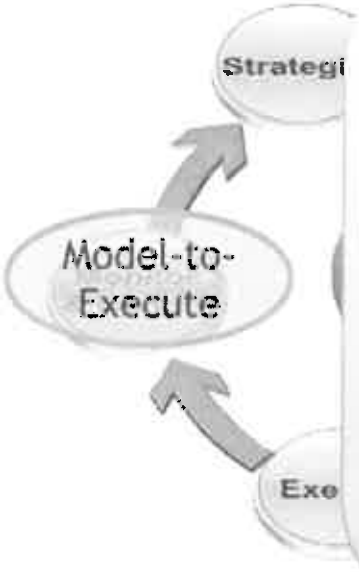


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Business Process Lifecycle Tasks

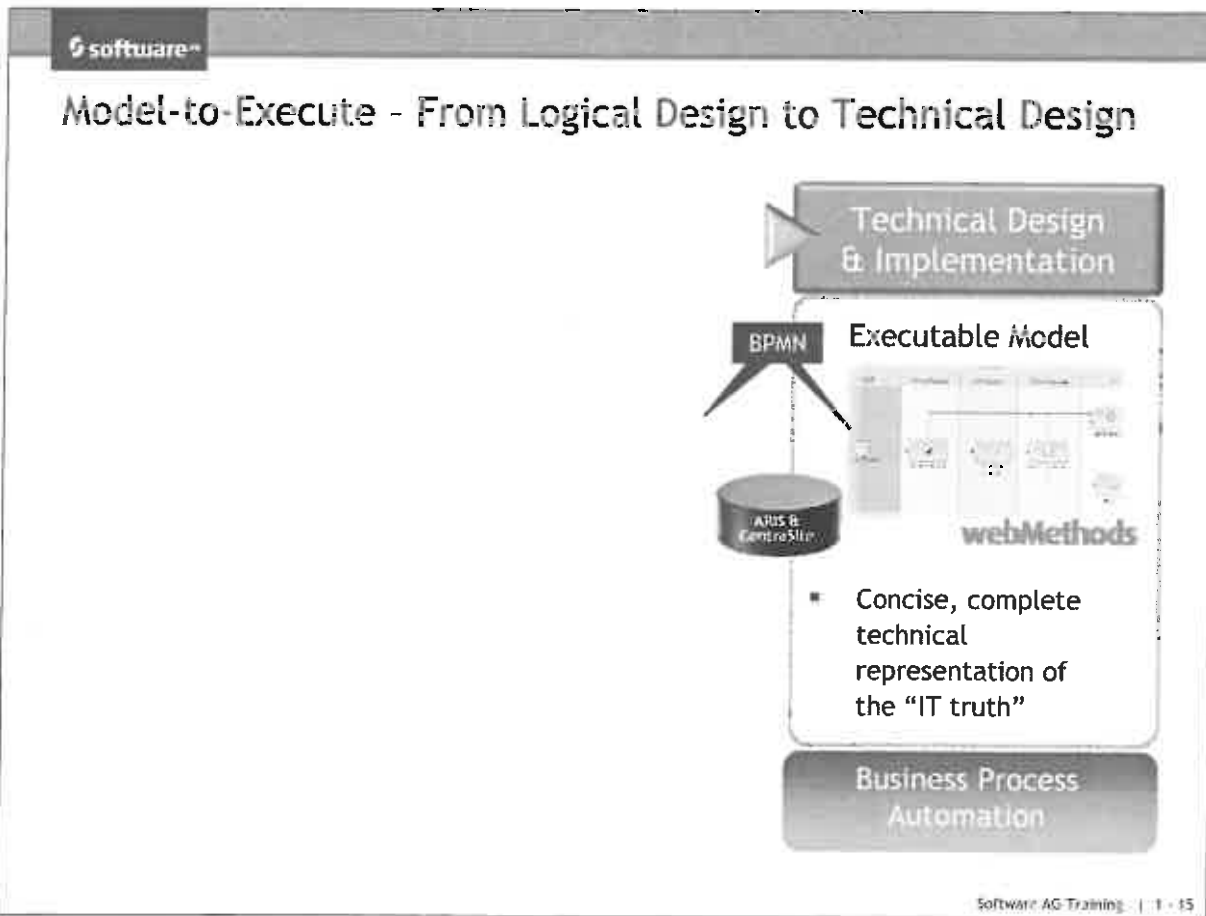


Model-to-Execute:
Effectively translate strategy-driven, optimized processes into webMethods BPMS implementations

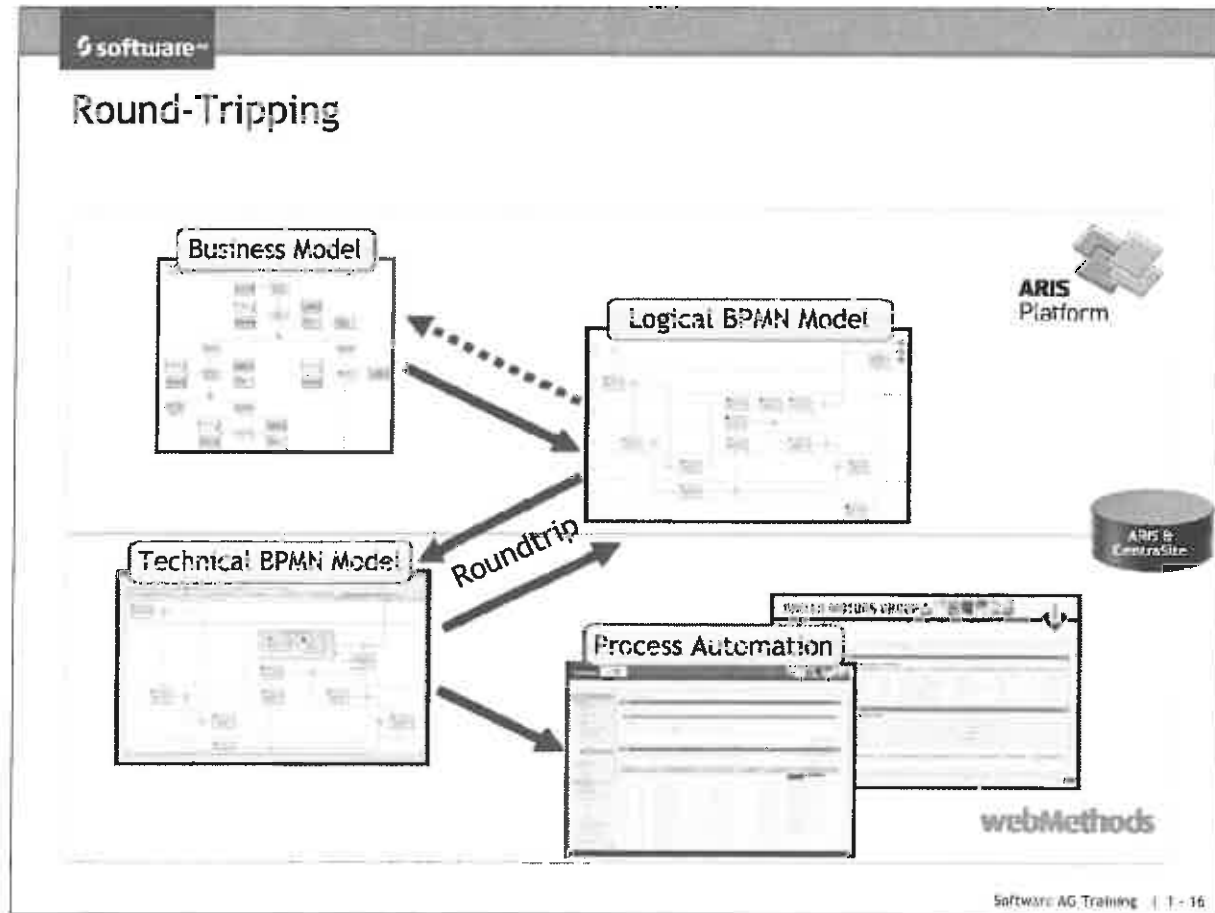
- Business-driven ARIS - webMethods BPMS implementation
- True IT and business collaboration with full round-tripping
- Full governance using CentraSite
- BPMN 2.0 compliant

Software AG Training | 1 - 14

Notes: _____



Notes: _____



Notes: _____

software

Business Process Lifecycle Tasks

Process Automation:
Enhance and enable process model
to be executed in the webMethods
BPMS environment

- Implement and refine technical process models
- Add lacking technical properties
- Align ESB assets
- Create UIs, Business Rules, and KPIs
- Test, debug and deploy technical business process to webMethods BPMS runtime infrastructure

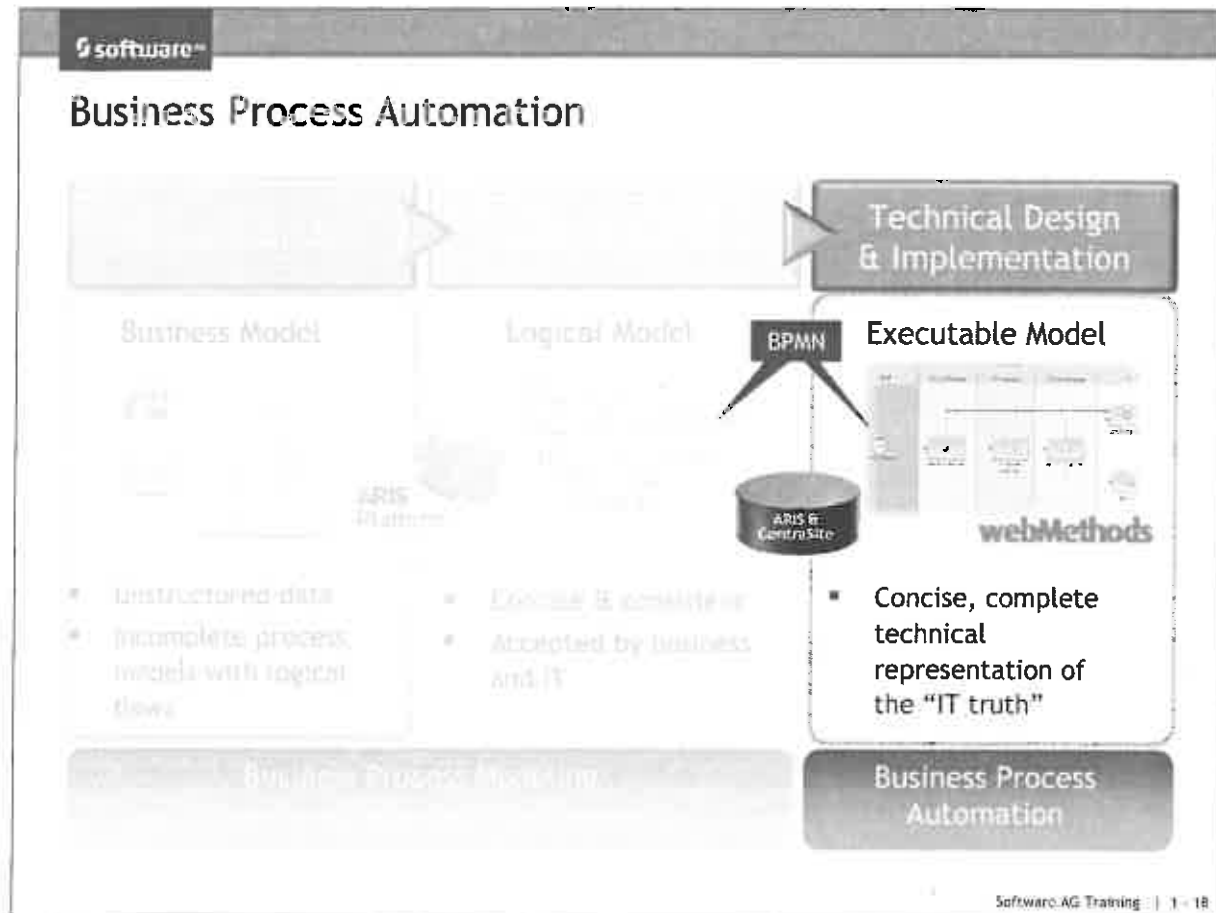
```

graph TD
    PA([Process Automation]) --> I([Implement])
    I --> C([Compose])
    C -.-> PA
    
```

System is Compose & Execute

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Notes: _____



Notes: _____

[illegible]



Business Process Automation - Key Requirements



Key Requirements

Process Implementation and Automation

Business & IT Collaboration

User Task Management and Workflow

Rapid User Interface Design

Real-Time Monitoring & Analytics

Suite-Wide Capabilities

webMethods BPMS

Software AG Training | 1.1.19

Notes: _____

webMethods BPMS - Key Features...

■ Process Implementation and Automation:

- Technical development of automated and User Task-oriented business processes
- Integrated User Task UI and Rules development
- Automated execution
- Process simulation

○ Different roles for process developer, process debugger, UI/User Task developer,...


- Collaborative focus, with the same model used downstream by process developers and monitors
- Process models compliant with the Business Process Modeling Notation (BPMN) standard
- Integrated with ARIS
- XPD L support

webMethods BPMS

Using ARIS for process analysis and modeling is highly recommend, but NOT mandatory. Each product can be used standalone.

Software AG Training | 1 - 20


Notes: _____



Process Intelligence for webMethods BPMS

- webMethods Optimize for Process
 - Execution of business processes with real-time business activity monitoring
 - Alerting and proactive identification of process failures
- PI for BPMS = ARIS PPM + ARIS MashZone
 - Automated Process Discovery for BPMS workflow
 - Cool Business mashups using PPM data
 - Interactive Process Analytics on BPMS workflow
 - Organizational analysis for BPMS workflow
 - Business Reporting with WYSIWYG report editor
 - Workflow processes can be easily imported


webMethods Optimize




Process Engine

Extractors for webMethods BPMS

ARIS PPM



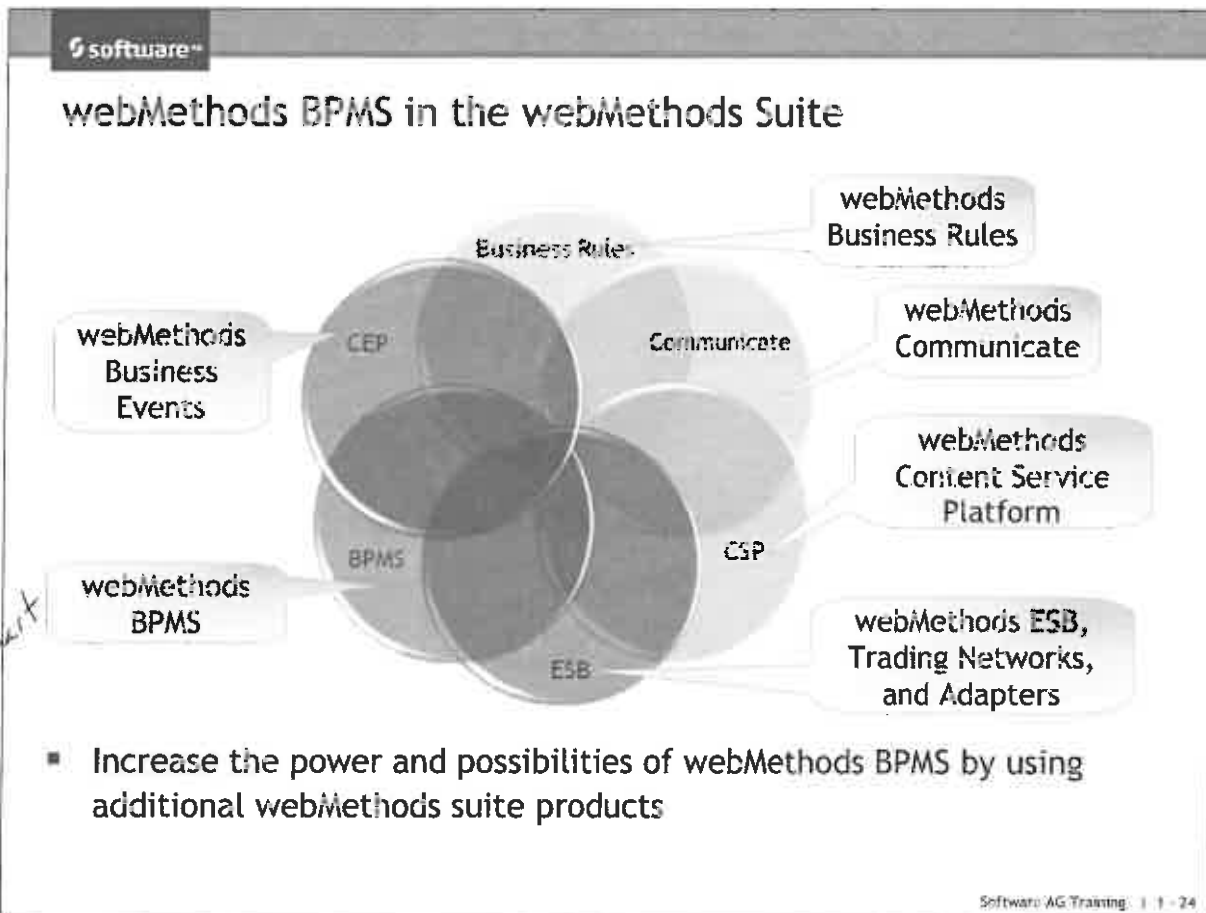
ARIS Mashzone



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Notes: ~~PI~~ ^{process} intelligence

WYSIWYG - what you see is what you get.



Notes:

CEP - complex event processing

CSP - Content service platform

ESB - (enterprise) service bus

...webMethods BPMS - Key Features

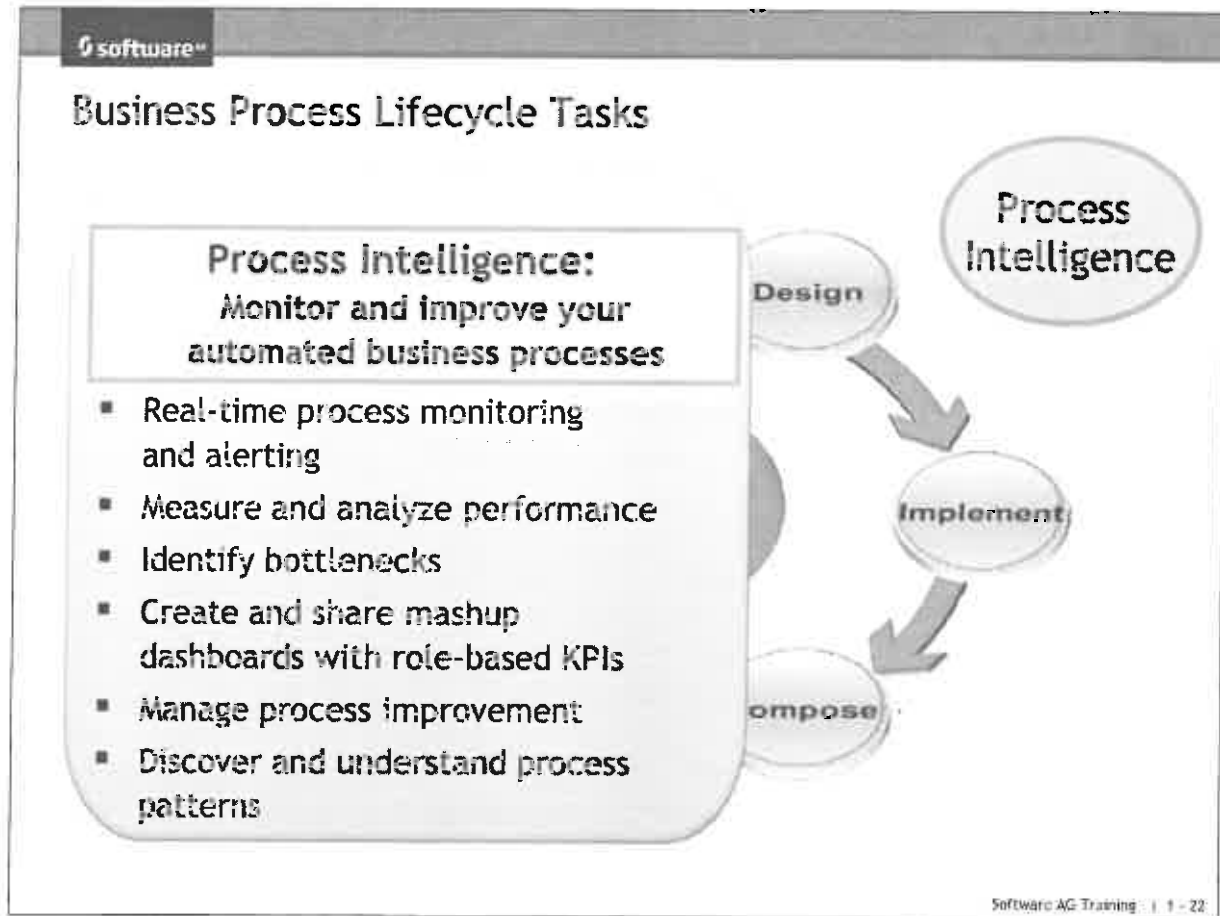
- **Process Management and Monitoring:**

- Standards-based portal presentation platform for application user interaction, as well as that of administrators and monitors
- Insight into business process activity and operational health of the system
- Monitoring of "process aware" key business metrics
- Scalability through transparent distribution of process management services across multiple servers

webMethods BPMS

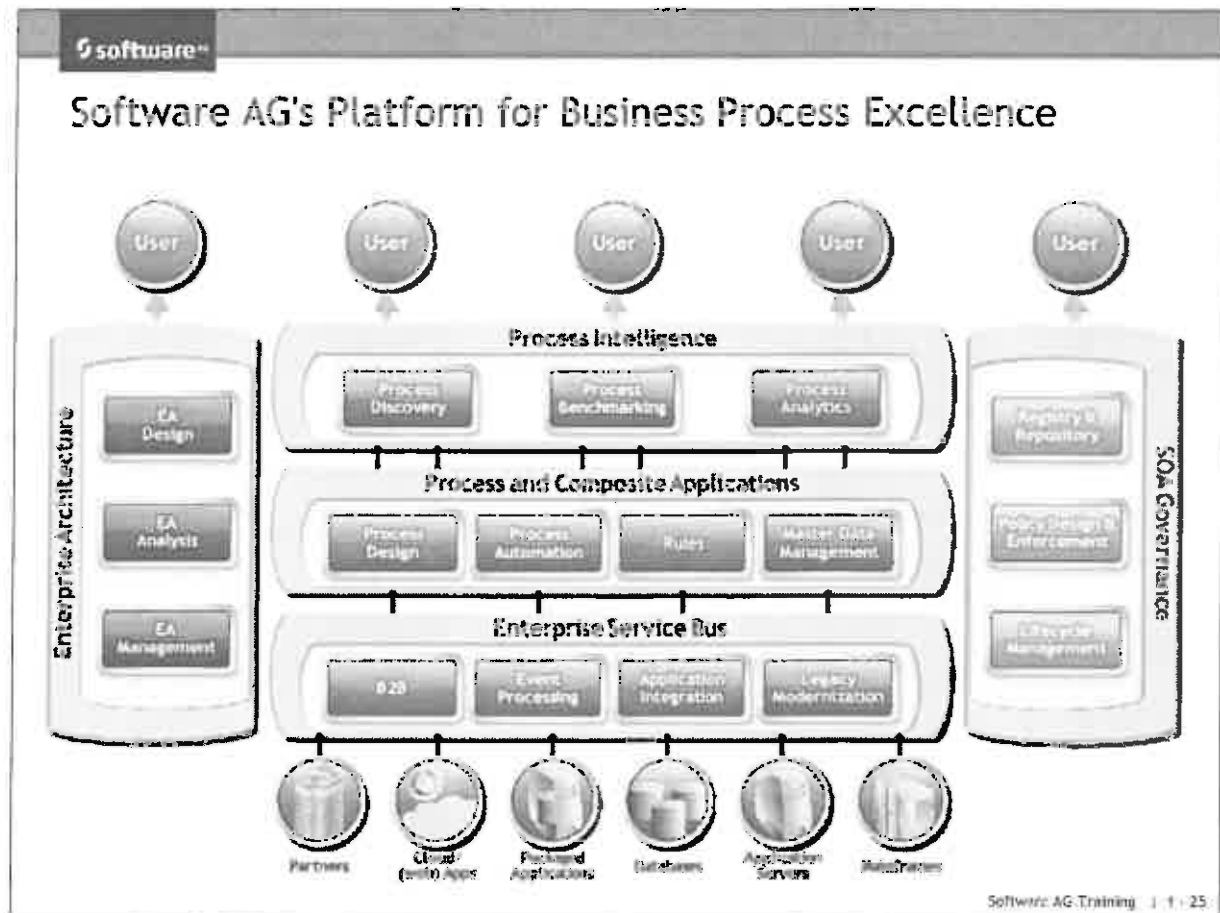
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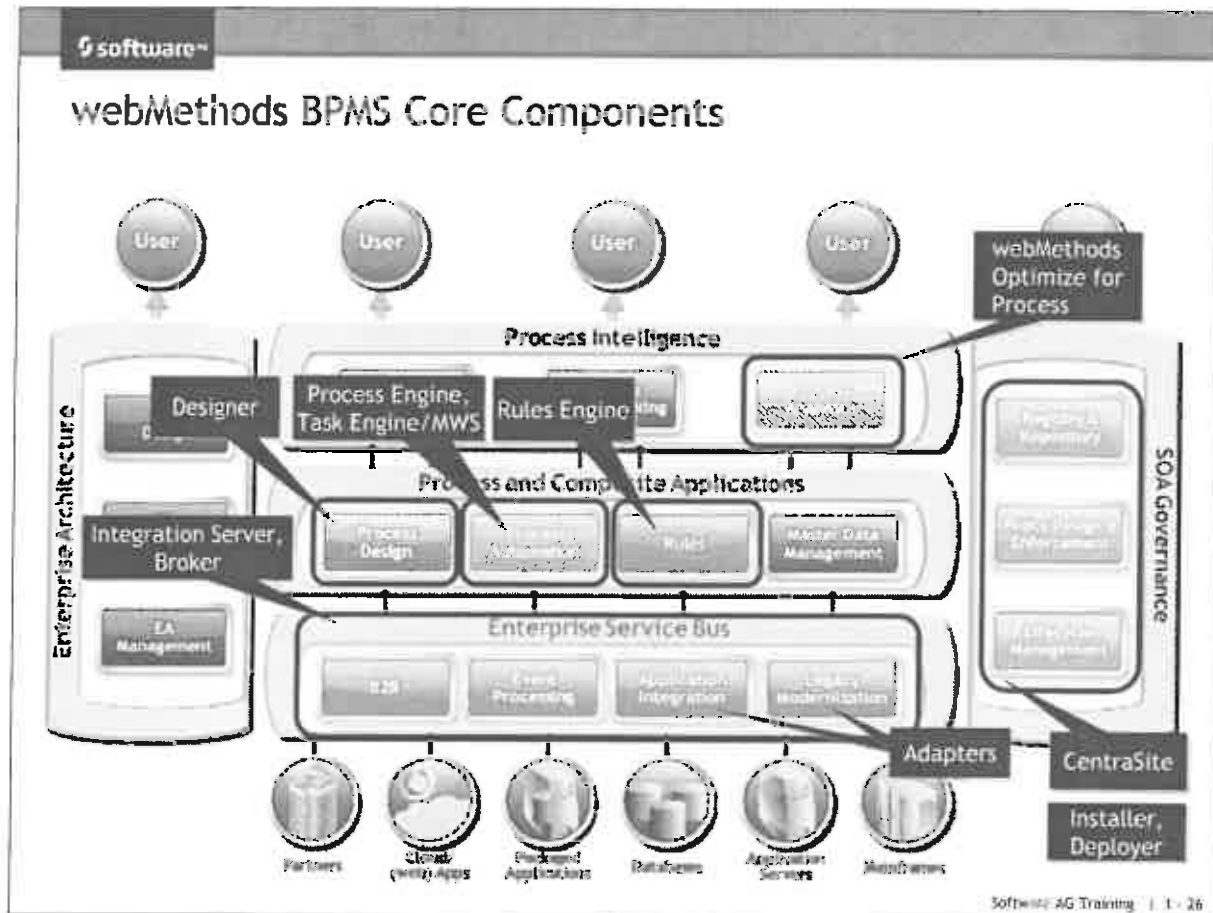


Notes: _____

KPI = Key Performance Indicator



Notes:

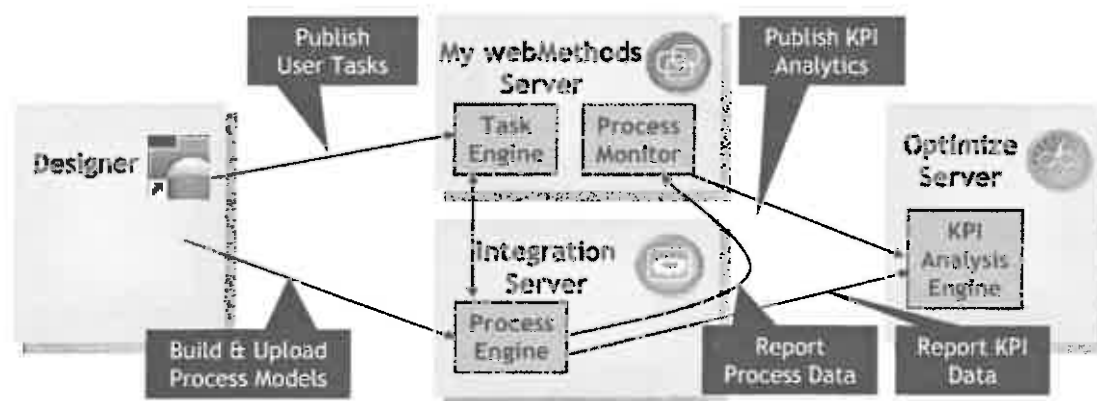


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webMethods BPMS Architecture



- webMethods BPMS consists of the following webMethods key components :
 - Designer: for designing Processes, User Tasks, User Interfaces, and Business Rules
 - Process Engine: for executing automated processes
 - Task Engine: for implementing User Task interaction between users and processes
 - Monitor and Optimize Server: for monitoring process performance and key business metrics

Note: For more detailed architecture diagrams, refer to Appendix C: "BPMS Architecture"

Software: AG-Training | 1-27

Notes: _____

[illegible]

Business Process Excellence - Stages and Roles

Stages: Business Design → Logical Design → Technical Design & Implementation → Runtime

Roles:

- Business Design:** Sandy Paul, Head of Financing (Business Line Manager)
- Logical Design:** Peter May, Business Analyst (Business Analyst)
- Technical Design & Implementation:** Marc Allen, Process Engineer (Process Engineer)
- Runtime:**
 - Kevin Parker, Process Developer (Process Developer)
 - Bernd Bred, Process Administrator (Process/User Task Administrator)
 - Paul Foo, Finance Clerk (Business User)

Additional Roles: UI Developer, Business Rule Developer

Notes:

webMethods BPMS Roles

- Business Analyst^{*}: designs top-level processes on a logical level, capturing a company's procedures and Business Rules
- Process Developer: develops process details and lower-level processes, connecting them with internal systems and User Tasks
- UI Developer: designs and implements user interfaces to User Tasks and other services
- Rule Developer: designs and implements Business Rules to be used in processes and User Tasks
- Process Monitor: monitors process execution and performance of key indicators
- Process Administrator: enables processes for execution and monitoring
- User Task Administrator: manages and monitors User Task queues
- Business User: kicks off processes; interacts with and completes his/her User Tasks


More than a single role can be performed by the same personnel.

^{*} Typically performed by an user in ARIS.


In case of using webMethods BPMS standalone, Designer also offers a Business Analyst mode to perform Business analysis tasks.

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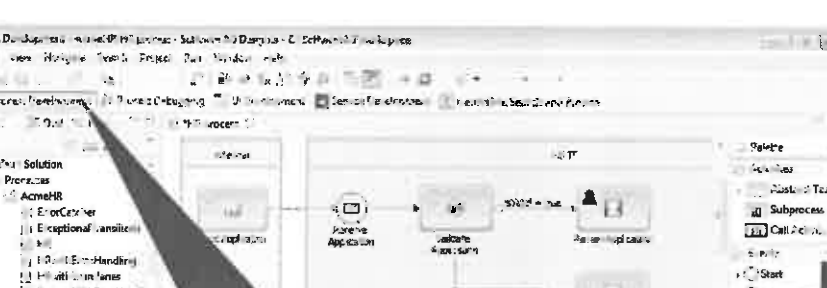
Notes: _____



Unified Development: Software AG Designer...



Software AG
Designer



Perspectives alter the view for different classes of users

Unified tool for implementation, test and deployment of:

- Processes
- User Task
- Uls
- Business Rules
- Simulations
- IS assets,...

Access to ARIS, common metadata and versioned shared sources.

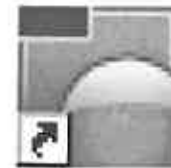
Software AG Training | 1 - 30

Notes:

... Unified Development: Software AG Designer

Software AG Designer provides:

- Perspectives for different roles performing technical design and implementation:
 - Process Developers
 - Process Debuggers
 - UI Developers of User Task & web pages
 - Service Developers
 - Rule Developers
 - Simulations,...
- Single interface for the technical business process implementation lifecycle
- Access to a SOA registry/repository for service browsing, lifecycle management, and SOA governance
- Support for VCS like CVS or Subversion
- Process exchange from/to ARIS



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2

Setup Your BPMS Environment

Notes: _____

Objectives

- At the end of this section, you will be able to
 - Identify the main components within a webMethods BPMS environment
 - Name the products covered in this course
 - Access product documentation and support in the internet
 - Perform basic administration steps in your environment
 - Describe the basics of Software AG Designer
 - Configure the Software AG Designer development environment

Notes: _____

software

Classroom Architecture

Key components and products of webMethods Suite used in this class:

- **Development, Test and Deployment:**
 - Software AG Designer
- **Process and Rule execution, Service Orchestration, and SOA connectivity:**
 - Integration Server (Process Engine, Rule Engine)
 - Broker
 - Adapters
- **User Task/UI execution, Administration, Monitoring:**
 - My webMethods Server (MWS) (Task Engine, My webMethods)
 - Monitor
- **Process and SOA Governance**
 - CentraSite

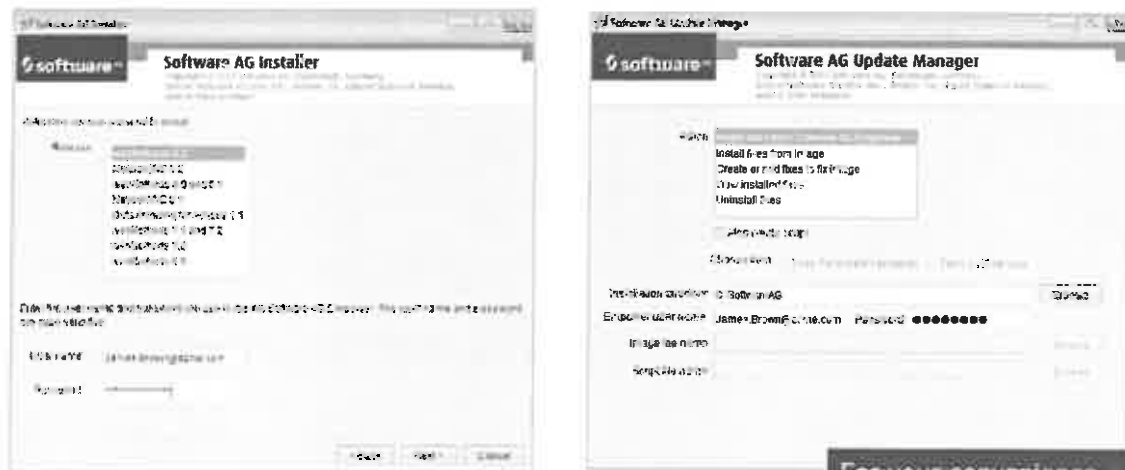
The diagram illustrates the Classroom Architecture. At the top, five circular icons represent different stages: Design, Test, Deploy, Monitor, and Admin. Below these, a central stack of components is shown: 'Business Intelligence' at the top, followed by 'Process and Customer Self-Service', then 'Enterprise Service Bus', and finally 'My webMethods Server' at the bottom. To the left and right of this central stack are vertical bars representing 'Software AG Designer' and 'CentraSite' respectively. Arrows indicate the flow of data and processes between these components.

Software AG Training | 2 - 3

Notes: _____

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Product Installation



- webMethods BPMS has to be installed using the Software AG Installer
 - Web-based installation
- Fixes can be applied using the Software AG Update Manager

For your convenience,
all required products
have been installed and
configured in your later
classroom environment.

Software: AG Training 2.4

Notes:

[illegible]

Notes:

The screenshot shows the Software AG Communities website. The top navigation bar includes links for Home, About Us, Contact Us, and Communities. The Communities link is highlighted with a red box. The left sidebar contains a list of communities, with 'Business Process Management (BPM)' highlighted by a red box. A red arrow points from the 'Communities' link in the top navigation bar to the 'Business Process Management (BPM)' link in the left sidebar. The main content area displays a list of communities, including 'Business Process Management (BPM)', 'Integration & ESB', and 'SOA & BPM'. The 'Business Process Management (BPM)' link is highlighted with a red box. A red box also highlights the 'Business Process Management (BPM)' link in the left sidebar.

<http://communities.softwareag.com>

Notes: _____

[illegible]


software
EMPLOYEE

Resources - Empower

- Before starting to configure a development or production environment, it is recommended to read the *Readme* files as provided by Empower.

Have a look for:

- Critical Information
- Known Issues
- Fixes & Enhancements



The screenshot shows the 'KNOWLEDGE CENTER' page. Annotations with arrows point to specific sections: 'Technical papers' points to the 'TECHNICAL PAPERS' section, 'Knowledge base' points to the 'KNOWLEDGE BASE ARTICLES' section, and 'Fixes downloads' points to the 'FIXES & DOWNLOADS' section which features a warning icon.

<http://empower.softwareag.com>

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Notes: _____

1st Administration Task: Start Integration Server

- webMethods BPMS requires an Integration Server for automated process execution
- In a Windows production environment Integration Server can be started as a Windows service (*recommended*)
- Integration Server can also be started from command prompt. Use from the webMethods installation directory:
 - Windows: `IntegrationServer\bin\server.bat -switch -switch ...`
 - Switches :
 - port: listener for HTTP (default = 5555)
 - home: server's home directory
 - debug: level of detail to log (Fatal, Error, Warn, Info, Debug, Trace)
 - log: where to write the server journal log {<filename> | none}
 - Beware: <wm_install_dir>/IntegrationServer/LOCKFILE is created when the Integration Server is started from command prompt. If the IS has failed to shut down properly, it must be removed before the IS can be restarted.



Notes: _____

Integration Server Administration...

- Integration Server has a web-based Administration Console
 - Used to manage many components and their configurations on the Integration Server
- To access the Integration Server Administration Console:
 - Use a browser to navigate to `http://<hostname>:<port>` (`http://localhost:5555` for this training).
 - Authenticate with the username/password (`Administrator/manage` as default and for this training)

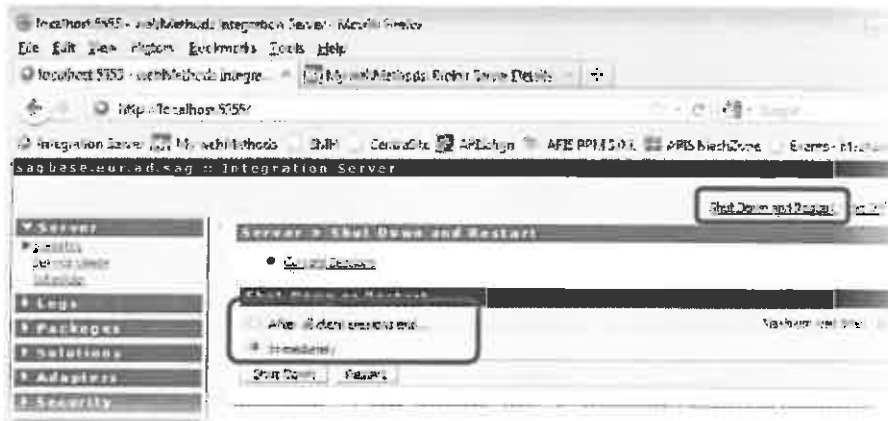


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[illegible]

... Integration Server Administration

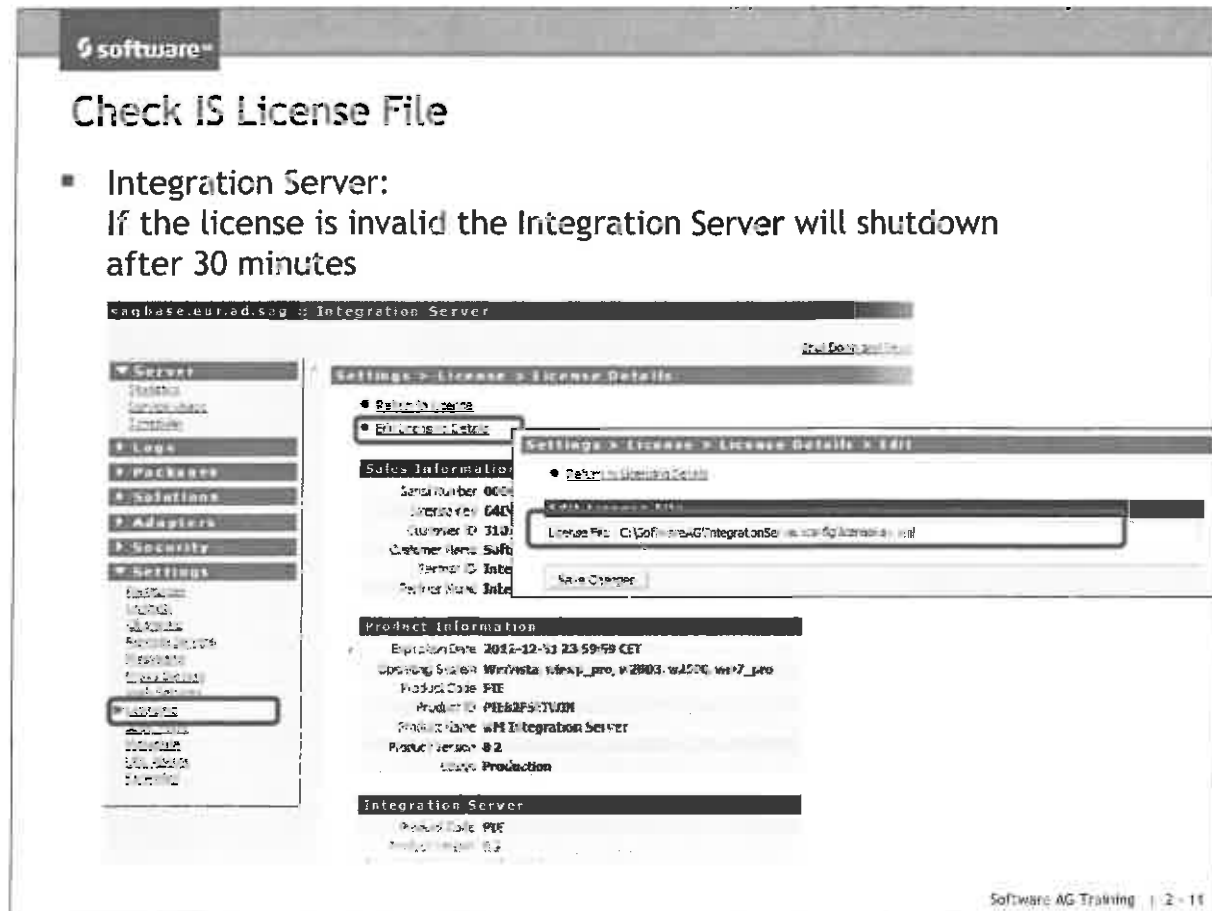
- Use Integration Server Administration Console to
 - Shut Down
 - Restart
- an already running Integration Server



Software AG Training | 2 - 10

Notes: _____

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Notes:

2nd Administration Task: Start My webMethods Server...

- webMethods BPMS requires a My webMethods Server (MWS):
 - Core component running BPM User Tasks and providing CAF UIs
- Provides integrated Task Engine for User Task execution
- My webMethods Server (MWS) has a unified, web-based user interface for the webMethods Product Suite that enables administration & monitoring of the product suite components, including BPM and BAM.
- MWS may be configured as a Windows service set to automatic start-up (*recommended*):



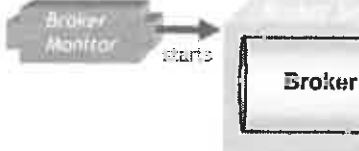
Name	Description	Status	Startup Type	Log On As
Software AG Integration Server	Software A...	Started	Manual	Local Syste...
Software AG MashZone	Software A...	Started	Manual	Local Syste...
Software AG Optimize Analytic Engine	Software A...	Started	Manual	Local Syste...
Software AG Optimize Infrastructure Data Collec...	Software A...	Started	Manual	Local Syste...

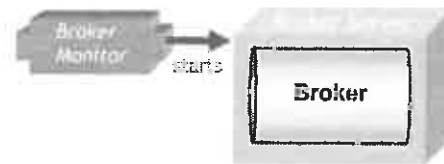
Software AG Training | 2-12

Notes:

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3rd Administration Task: Start Broker Monitor and Server

- **webMethods Broker:** Primary messaging component within webMethods BPMS and integration environment.
 - **Consists of:**
 - **Broker Monitor:** Starts/restarts any not running Broker Server
 - **Broker Server:** Started by the Broker Monitor after it has started
 - **Broker Instances:** Running inside a Broker Server (see later)
 - **Broker Monitor and Broker Server may be configured as Windows services with the Broker Monitor set to Automatic start-up**
- 
- The diagram illustrates the relationship between the Broker Monitor and the Broker Server. On the left, a grey rounded rectangle labeled 'Broker Monitor' has an arrow pointing to the right, labeled 'starts'. This arrow points to a white rectangle with a black border labeled 'Broker Server'.



Software AG Broker Monitor (5250)	Software A...	Started	Automatic	Local Syst...
Software AG Broker Server (5849)	Software A...	Started	Manual	Local Syst...

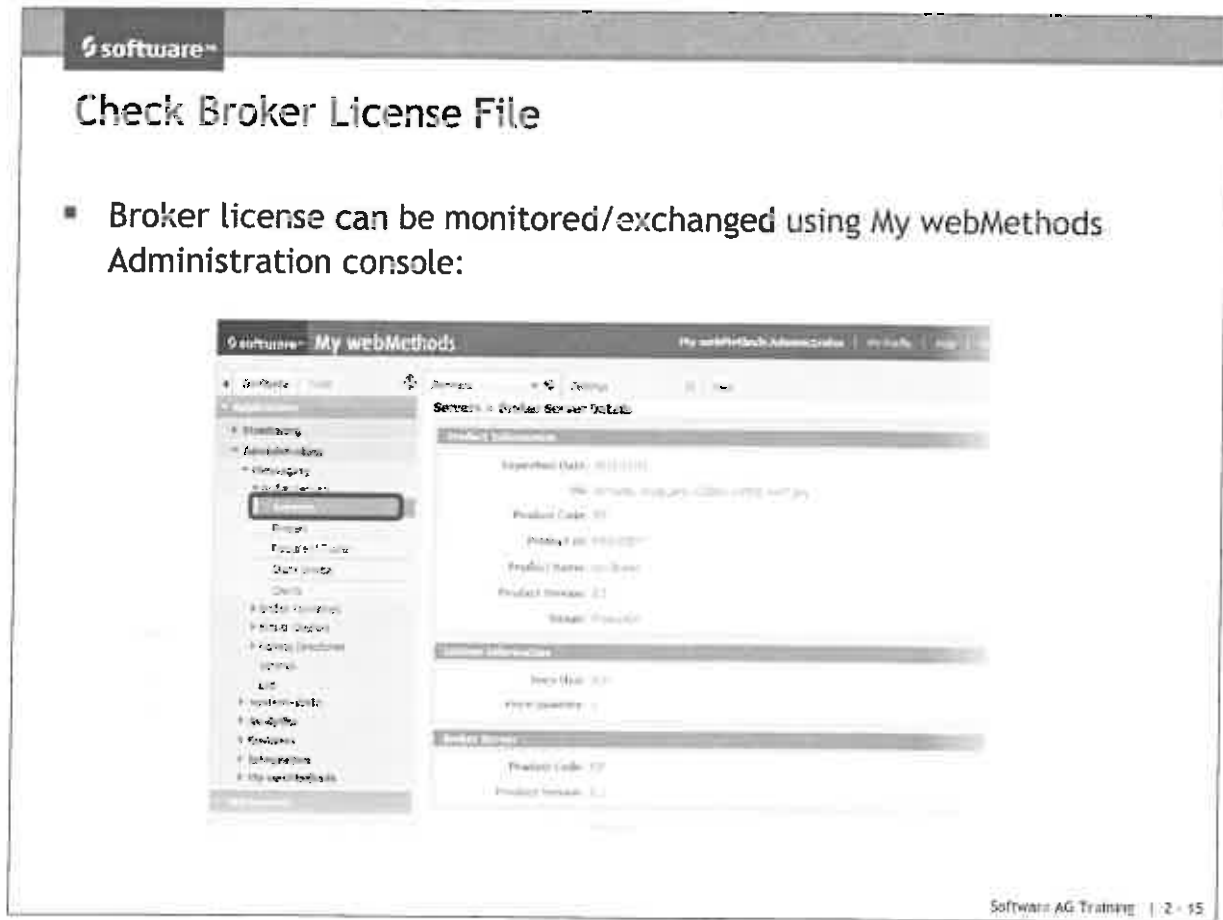
- Broker Server can be easily monitored and configured using My webMethods Administration Console:



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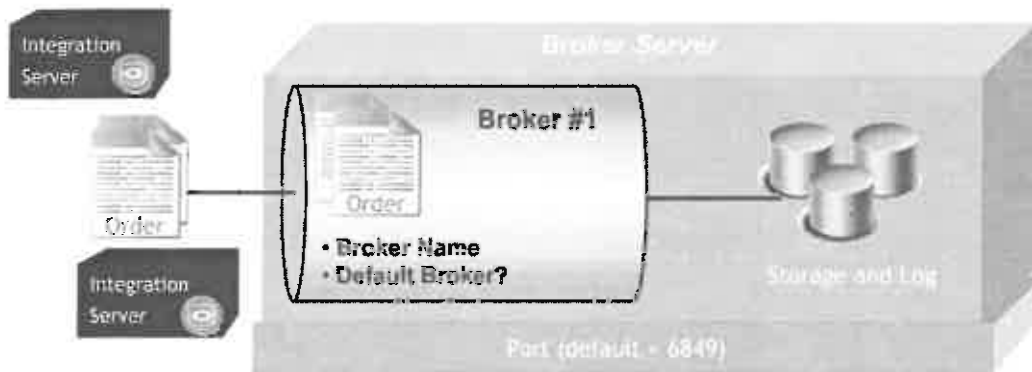
Notes: _____

[illegible]

[illegible]

4th Administration Task - Add a Broker Instance...

- Broker instances are virtual areas inside the Broker Server designed to separate data traffic:
 - Broker Server contains the general storage areas for documents that pass through the Brokers
 - In a webMethods BPMS environment, Broker Server and Broker instance are required to distribute processing across multiple Integration Servers



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Notes: _____

[illegible]

2 software

...4th Administration Task - Add a Broker Instance

1. Login to My webMethods and select "Administration > Messaging > Broker Servers > Servers"
2. Select existing Broker Server
3. Click "Add Broker..." on Brokers tab
4. Provide Broker instance name and click "Add"

The default login for My webMethods is: Administrator / manage

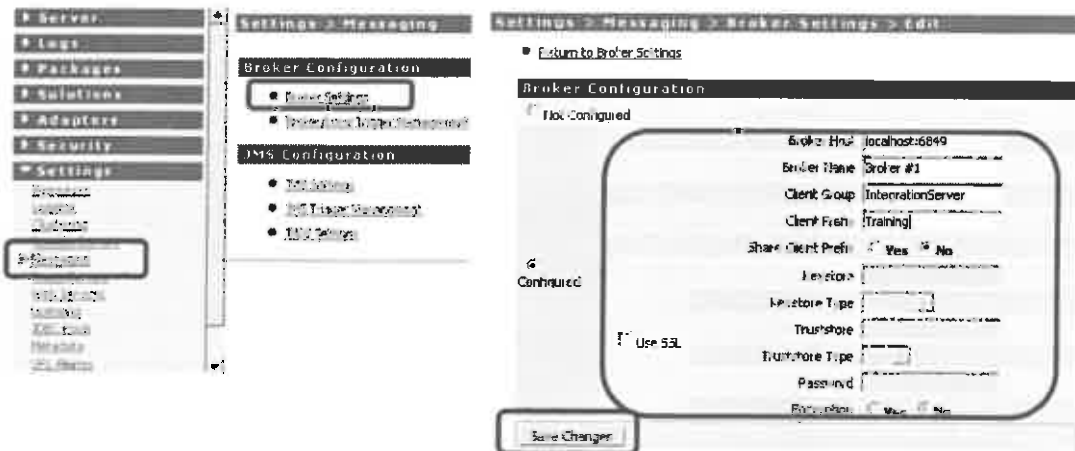
For this training, MWS can be accessed using <http://localhost:8585>

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Notes:

5th Administration Task - Connect IS to Broker

- Each Integration Server can connect to a single Broker only
 - Broker will move data asynchronously between Integration Servers
- Configure IS-Broker connection using the IS Administration console



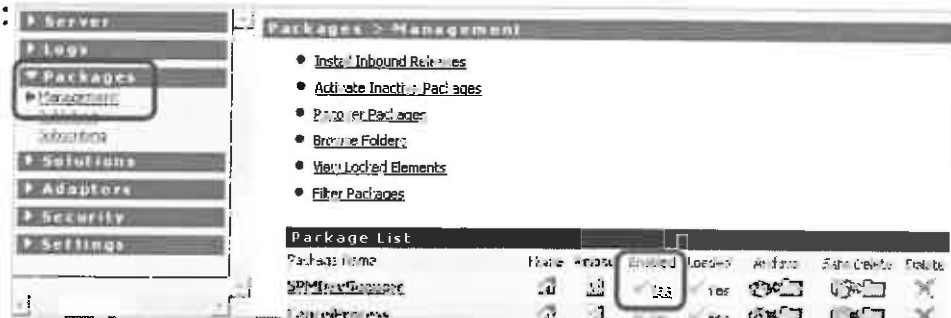
The Integration Server must be restarted after configuring the IS->Broker connection

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Notes:

6th Administration Task - Manage IS Packages

- IS Packages contain self-written or public assets like services, documents used by your BPM processes
- Ensure packages you need are enabled and loaded in the IS.
 - Package management is typically handled using the IS Administration console
- Packages may be enabled/disabled using the IS Administration console:

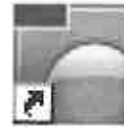


Software AG Training | 2-19

[illegible]

software

Software AG Designer



Software AG
Designer

- Eclipse-based, unified development environment for BPMS, webMethods suite and other Software AG products
- Seamless development of BPM Processes, User Tasks, UIs, Process simulations, IS services, Business Rules, SOA assets, Business Events, Java, and many more

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Notes: _____

Starting Software AG Designer

- Software AG Designer can be easily started from the Windows start menu:



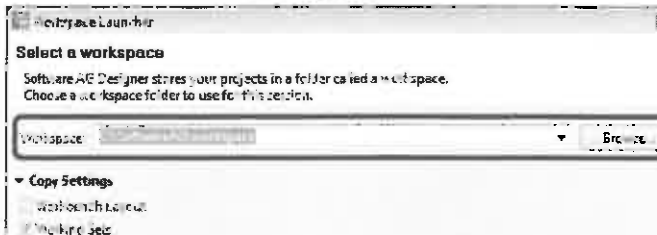
- Start -> All Programs -> Software AG -> Tools -> Software AG Designer 8.2

- As an alternative you can start Designer from a command prompt:

- `...\SoftwareAG\eclipse\v36\eclipse.exe`
`-product com.webmethods.product.designer.ide`

Notes: _____

Workspaces

- Software AG Designer stores the following items in an Eclipse Workspace:
 - All project definitions
 - All source code
 - Generated code and binaries
 - All preferences
 - ...
 - All work you perform in Designer will be saved on disk in selected workspace.
 - Designer can be configured to prompt for the workspace or use a default location
 - User can switch between workspaces
 - A Workspace is a directory on your hard drive
- 



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Notes: _____

[illegible]



Notes:

BPM-related Perspectives...



Process Development

- Develop, maintain and deploy business processes



UI Development

- Build User Tasks and UIs within a CAF application



Process Debugging

- Provides most properties of Process Development perspective
- Offers additional views to perform process debugging



Process Simulation

- Create and run process simulations for
 - Capacity planning
 - Identification of bottlenecks
 - Cost analysis

Notes: _____

... BPM-related Perspectives

 Service Development

- Implement and maintain IS services and Web services supplementing BPM processes, User Tasks, and UIs
- Maintain IS document types

 CentraSite Search and Browse

- Retrieve shared metadata from CentraSite ActiveSOA
- Perform asset dependency and impact analysis
- Lifecycle maintenance for BPM and CAF projects

Rules Development

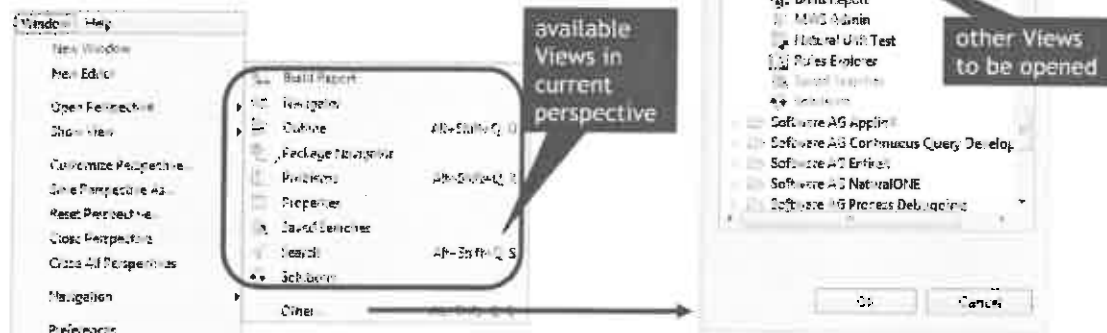
- Implement and deploy webMethods Business Rules for BPM processes
- Test Business Rules

Notes: _____

[illegible]

Views and Perspectives...

- Perspectives provide a pre-configured set of:
 - Views (Solutions, Navigator, Outline, Package Navigator, Properties, MWS Admin, Bindings, Problems, Servers, Build,...)
 - Design canvas
 - Source code editors,...
- Lacking views can be opened, unused views can be closed in any perspective



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Notes:

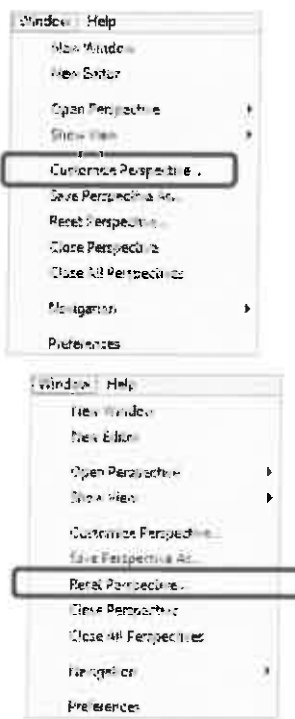
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software

...Views and Perspectives

- Perspectives can be customized:

- Perspectives can be reset to 'out of the box' configuration:



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Notes: _____

Solutions View...

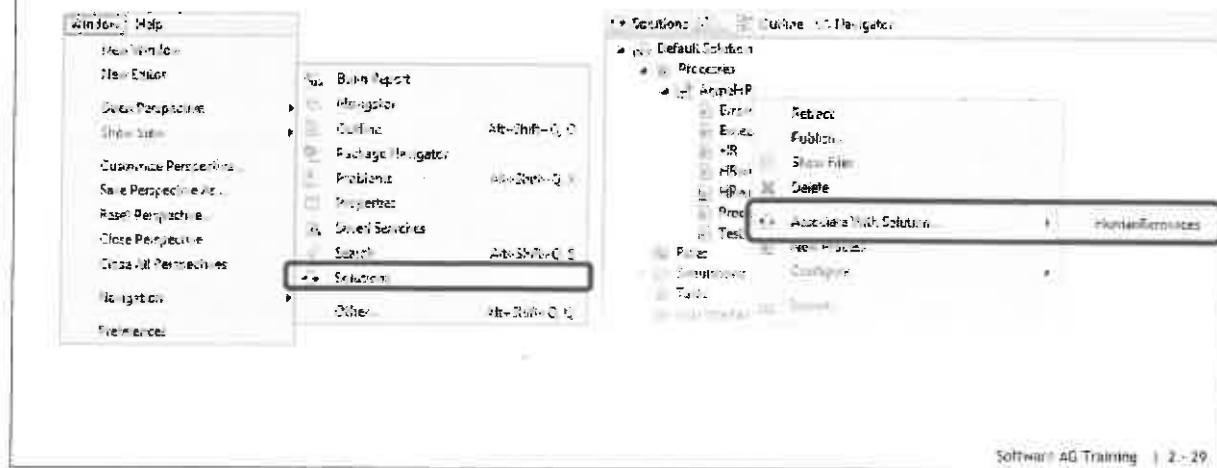


- The Solutions view shows the following webMethods assets in your workspace:
Processes, User Tasks, Business Rules, User interfaces and Simulations
- Assets are grouped by solution, which is a logical grouping you can form to relate the Processes, Business Rules projects, User Tasks, and User Interfaces that you use for a Solution
- A Solution differs from a project:
 - an asset can only exist in one project
 - an asset can exist in many solutions
 - promotes reuse
 - promotes modularity
- Solutions view always provides the "Default Solution"
 - contains all assets in your workspace
- Solutions view is a webMethods extension to Eclipse

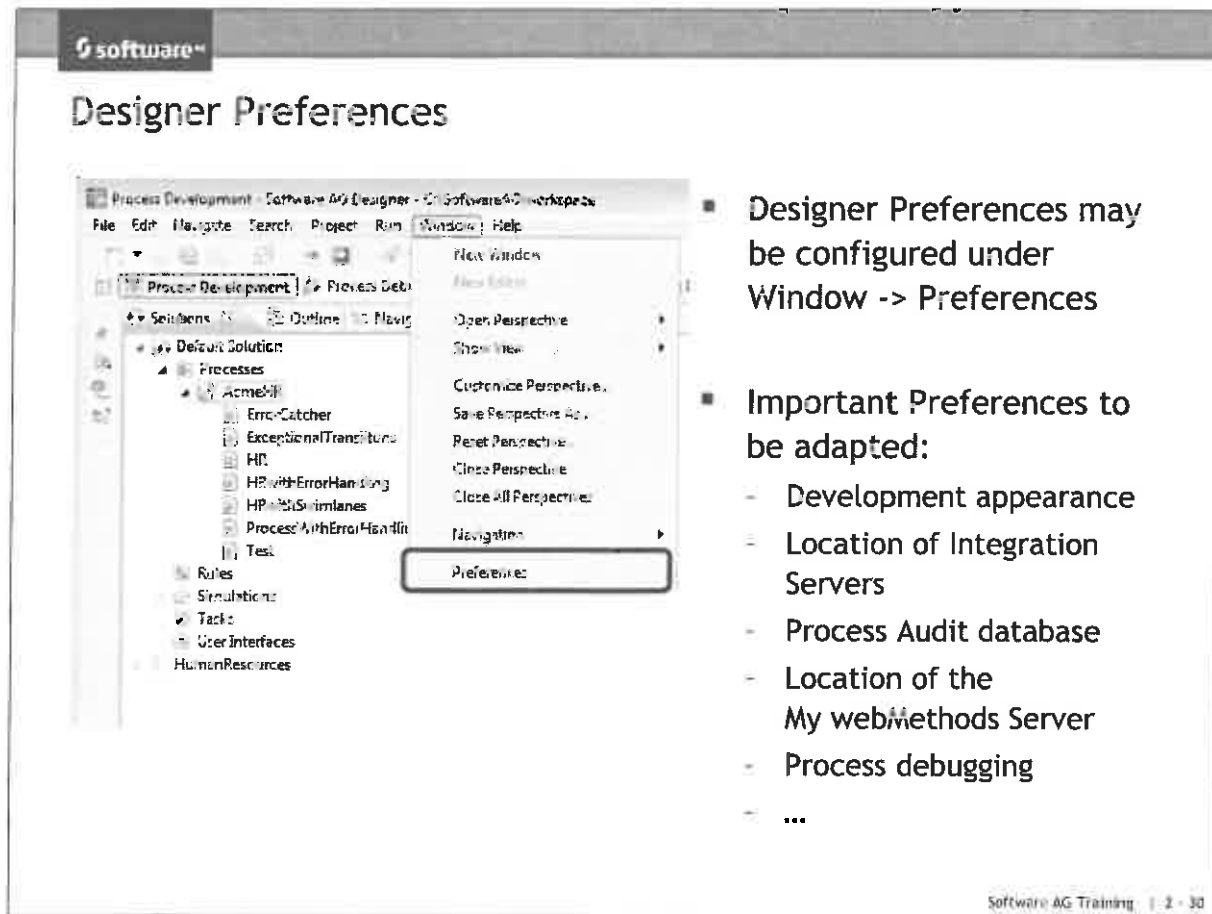
Notes: _____

...Solutions View

- To associate a project or CAF application with a Solution:
 1. Open Solutions view
 2. Create a new Solution, if required
 3. Find the asset in the Default Solution
 4. Right-click the asset and select "Associate with Solution... <Solution Name>"

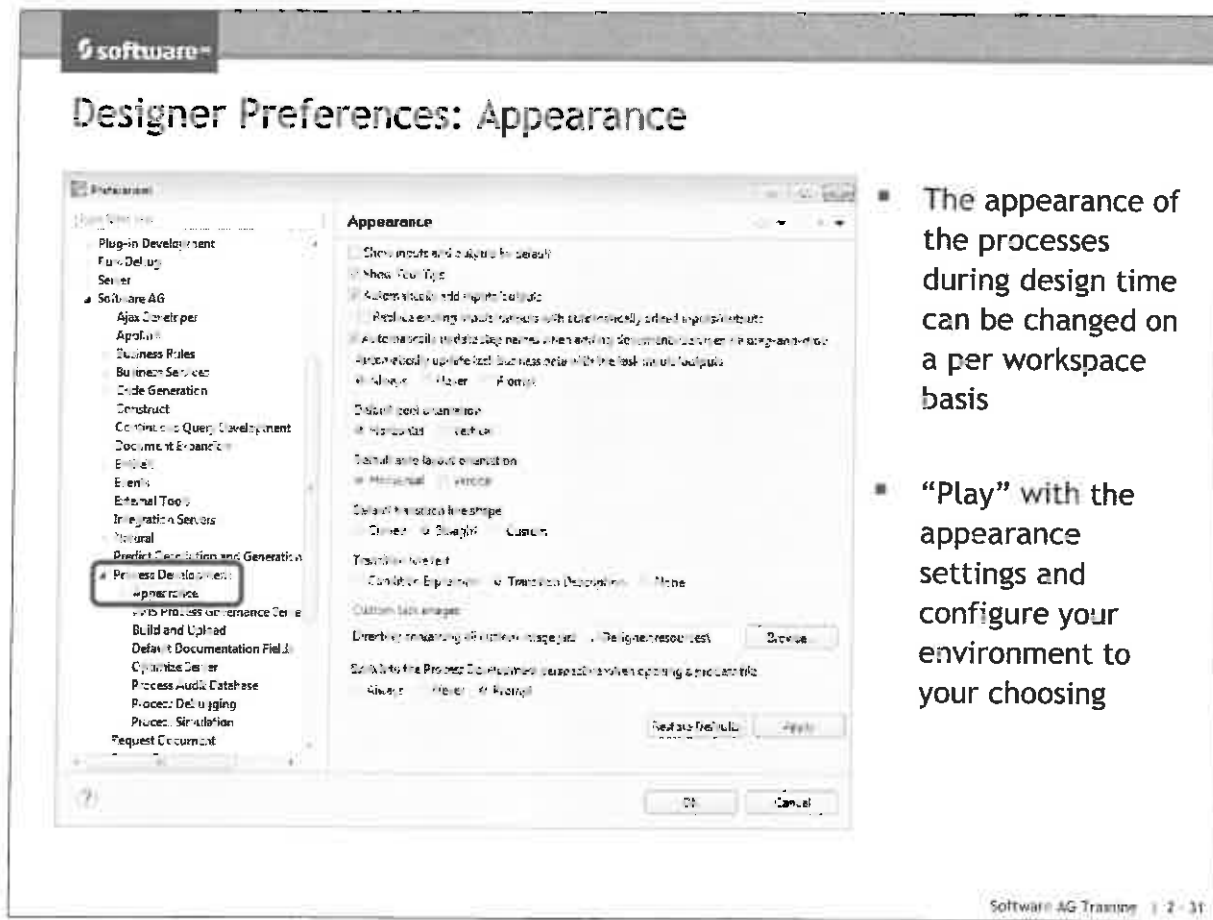


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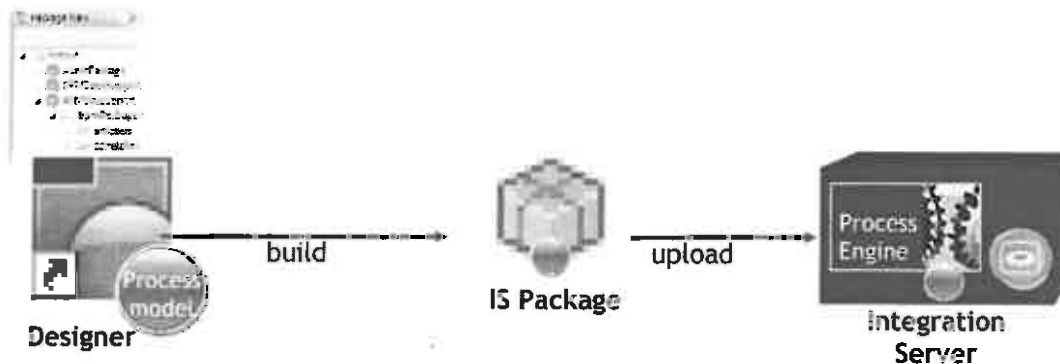
Notes: _____

[illegible]

[illegible]

Designer: Integration Server Connectivity...

- Designer generates assets in IS packages when building and uploading a process model.
- Process steps may be related to IS services, documents, Web service connectors, Business Rules or User Tasks. These assets can be seen in the Package Navigator view.
- Designer preferences configure Integration Server used

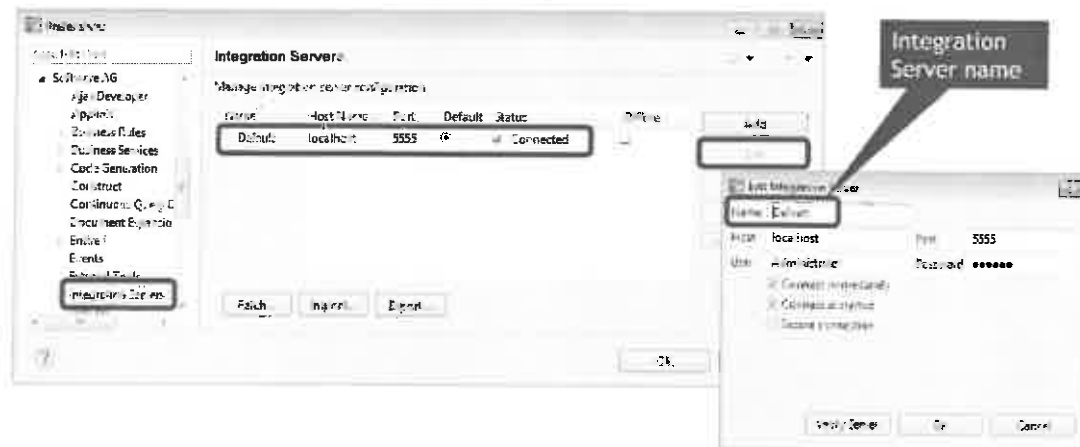


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Notes: _____

...Designer: Integration Server Connectivity

- Designer preferences enable you to define one or more Integration Server connections
- Pre-configured "Default" connection

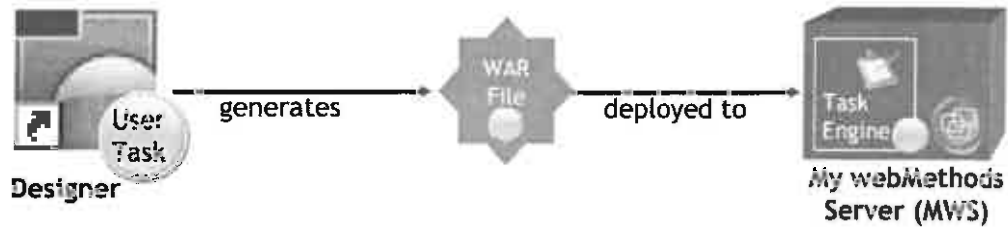


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Notes:

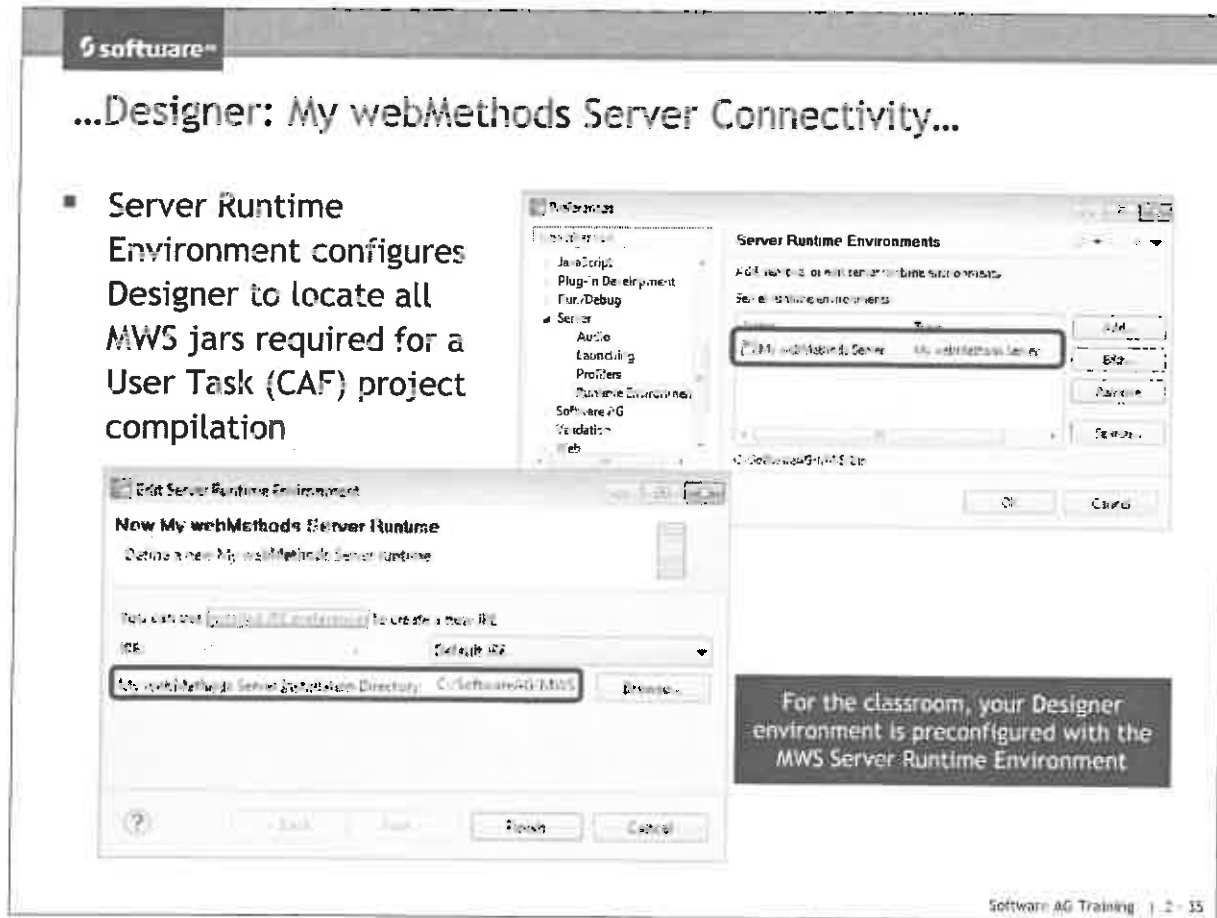
Designer: My webMethods Server Connectivity...

- User Task are implemented by a CAF Task Portlet application
- User Task have to be deployed from Designer to My webMethods Server (MWS)
- MWS hosts Task Engine executing User Tasks
- Server configuration in Designer determines the MWS used



- If all the steps in the process do not have a human component, My webMethods Server configuration is not required

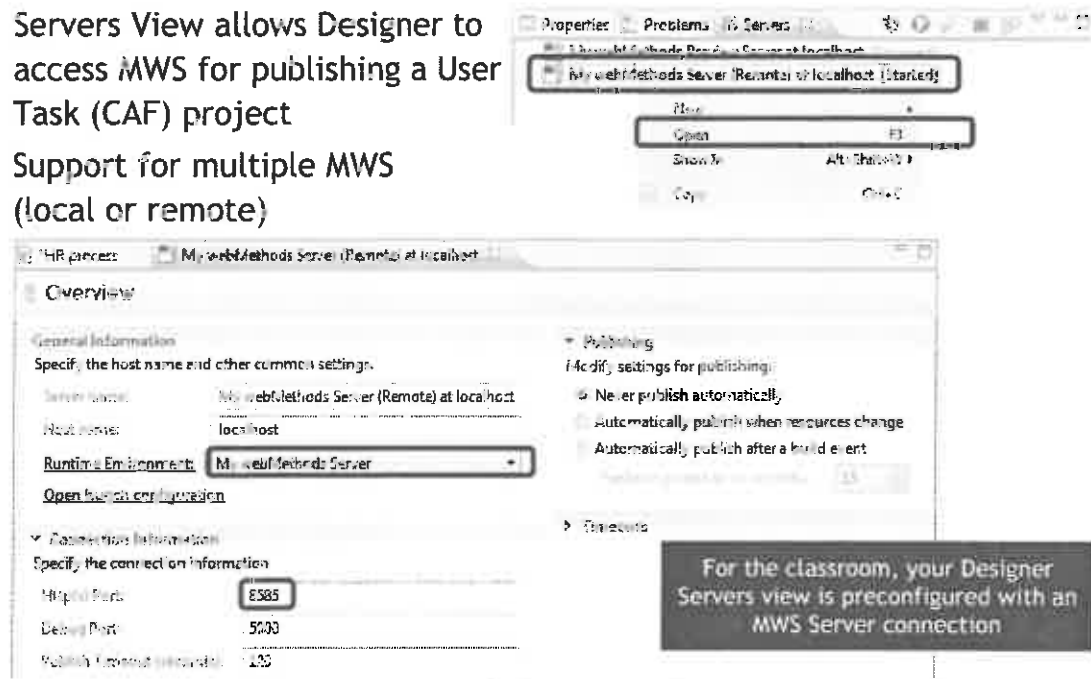
Notes: _____



Notes:

...Designer: My webMethods Server Connectivity

- Servers View allows Designer to access MWS for publishing a User Task (CAF) project
- Support for multiple MWS (local or remote)



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Notes: _____

[illegible]