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Objectives

- At the end of this section you will be able to
 - Understand Blaze and how it fits into the webMethods BPM architecture
 - Setup connectivity between Blaze Advisor and a webMethods environment
 - Understand the various Blaze decision entities
 - Create, deploy, and test simple business rules
 - Invoke a Blaze Rule service from a business process activity step
 - Deploy a Rule Maintenance Application to MWS
 - Perform instant business rule modifications using an RMA

Software AG Training | 12b - 2

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Objectives

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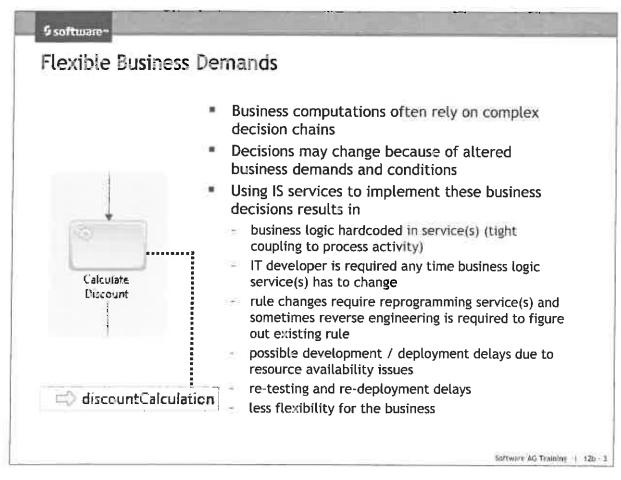
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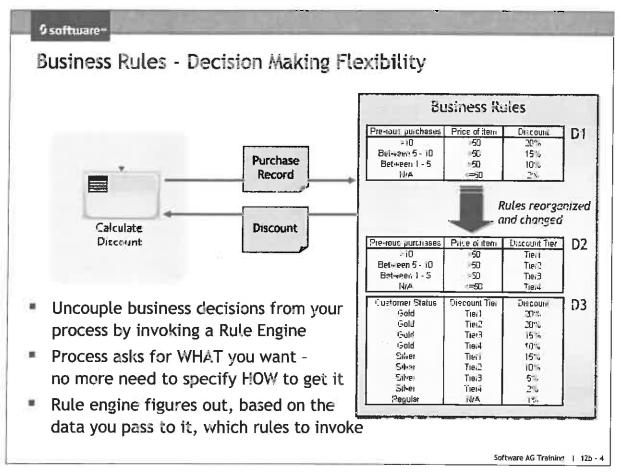
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Software AG Training | 12b 2

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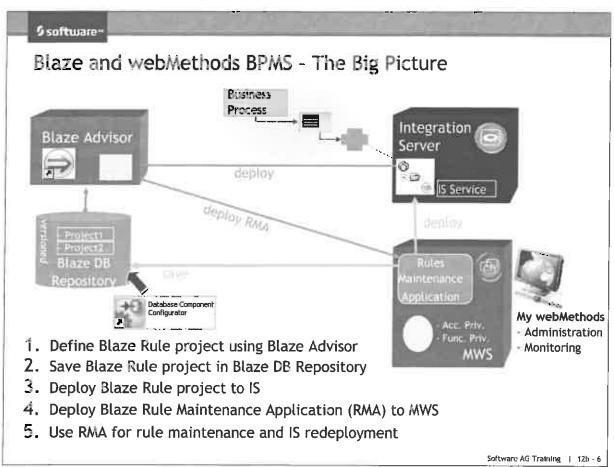
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6 software= Rules in webMethods - Don't get Confused see chapter 12a this chapter **Business Rules** Implemented by webMethods Business Rules and/or Blaze Business Rules Blaze Rule Service: Encapsulation of one or more Blaze Business Rules Created in a Blaze Project and deployed to IS **EAF Rules** used to assign start pages, shells and skins to groups in MWS Rule of Thumb Optimize Rules BAM Asset Abnormal KPI Reading Trading Networks Processing Rules Software AG Training | 125 - 5

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Blaze Business Rules

Some Definitions:

- "Blaze Rule" is a single IF-THEN statement in a Blaze decision entity, a branch in a decision tree, a row in a decision table, etc.
- A Blaze decision entity can be used to generate a Blaze Business Rule Service on an Integration Server

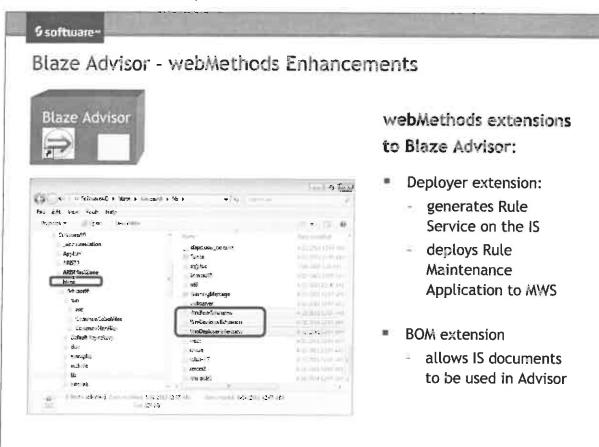
Some Restrictions:

- Each Rule Task Activity in a business process can only invoke one Blaze Business Rule Service
- A Blaze Business Rule Service cannot invoke another Blaze Business Rule Service
- A Blaze Business Rule Project must not contain more than 250 rules to be deployed to an Integration Server*

*This restriction can be removed by enhancing the license

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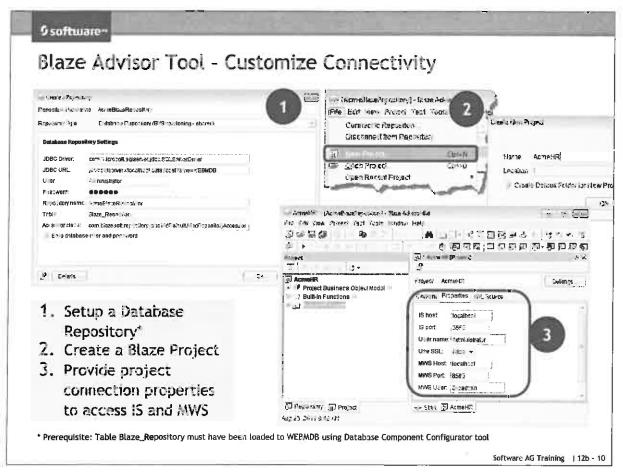
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S software-Integration Server - Blaze Enhancements Blaze extensions to Integration Server/ Process Engine: CATTO SCHOOL STATE WmRules package DUNCHEST Various color Debus Various color Described Support Schilder Author Delta count Color Support Schilder Color Support Schilder Color Schilder Colo CHIPTITO DECEMBER Blaze Rule Server runtime jars Provide runtime This gives on the department of the first of the second of environment for Blaze projects BlazeRuleService Integration IS Pluggable Node implementation that Server wraps Blaze entry **Rules Services** points Rules Engine

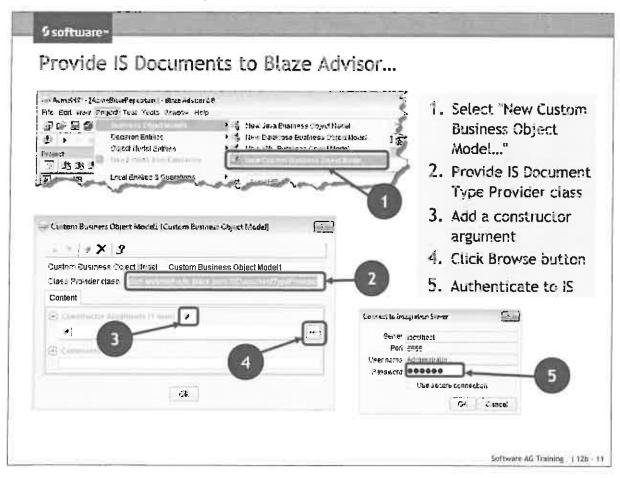
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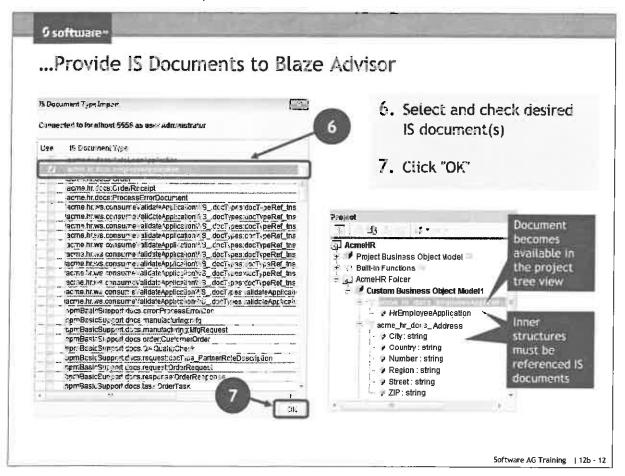


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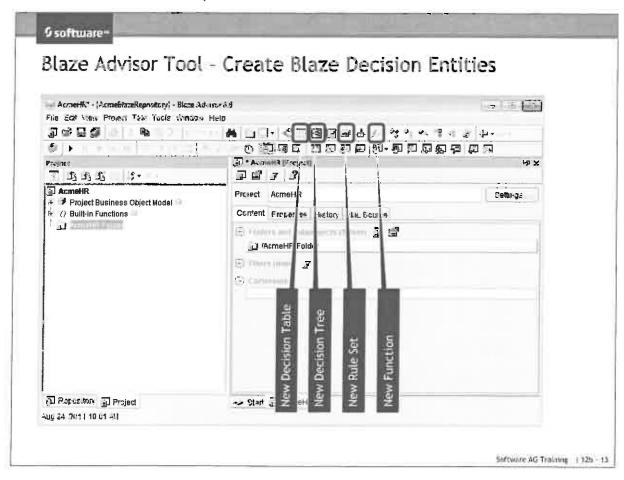
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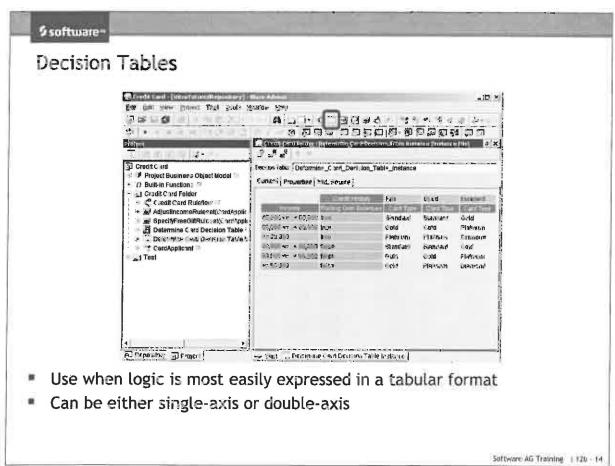
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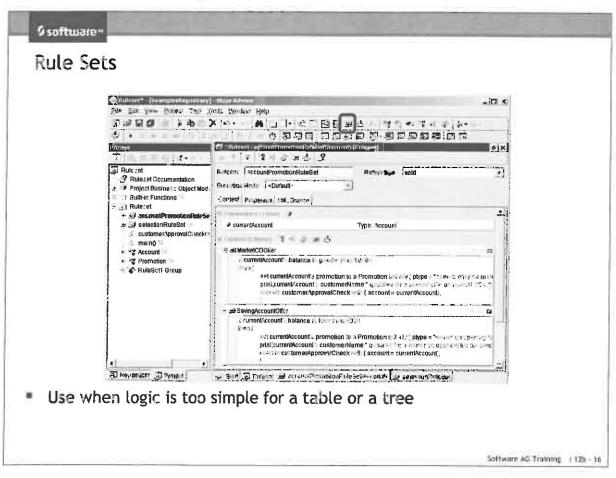


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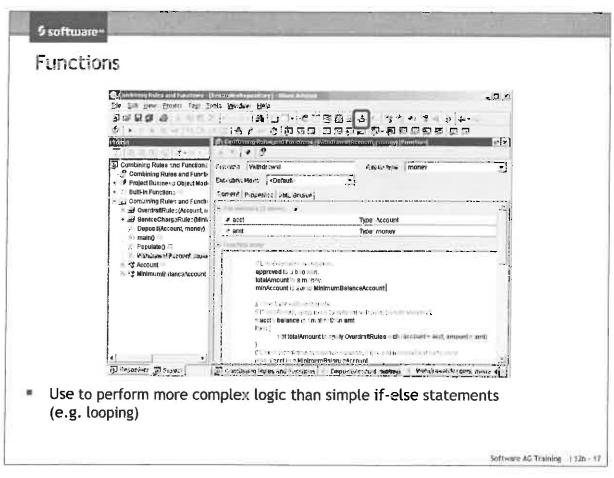
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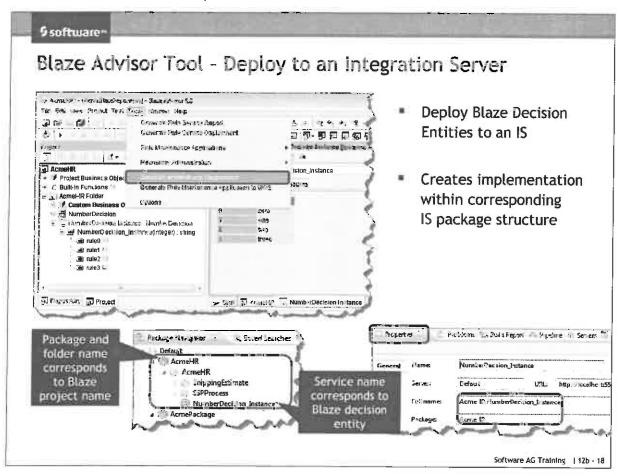
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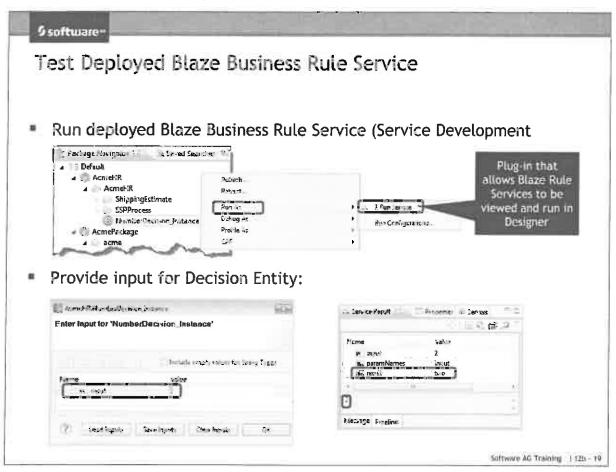
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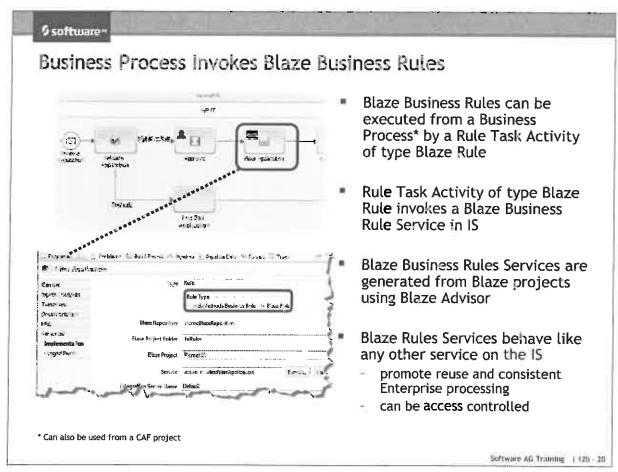
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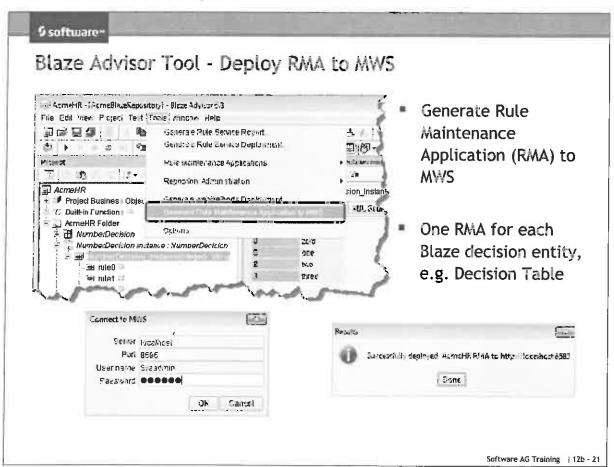
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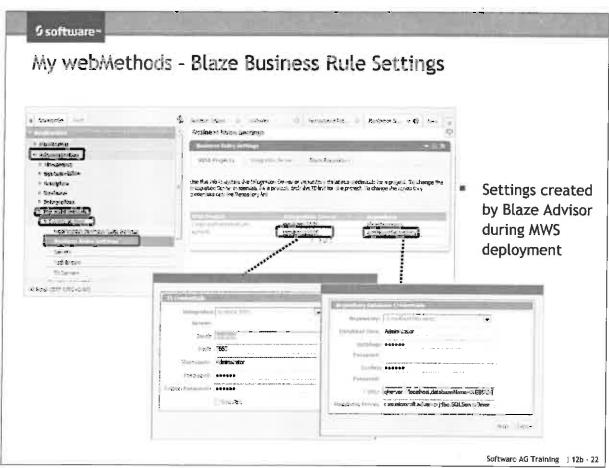


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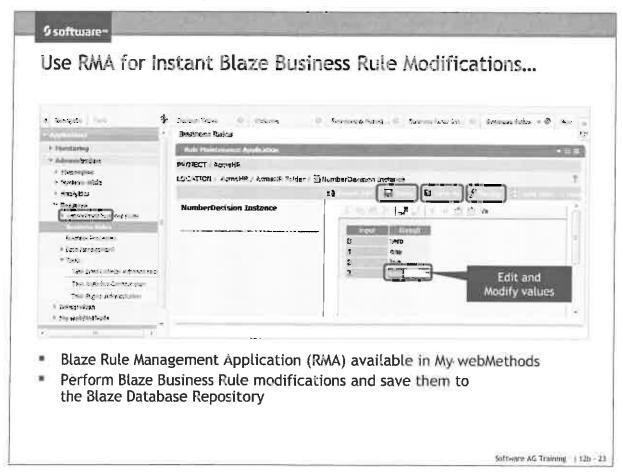


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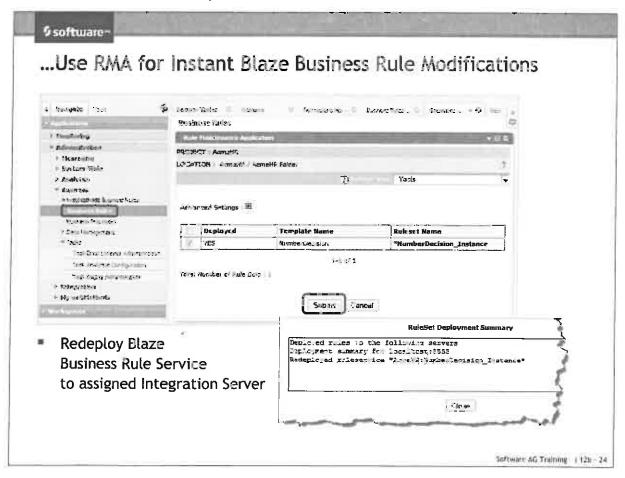
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5 software Test Modified and Redeployed Blaze Business Rule Service Run deployed Rule Service (Service Development perspective): Paukinge Namijskin ** Seved Searcher ** ■ Default a 💥 AcmeHR i'abh h . Acmel-R Retirat_ ShippingEstimate No At 1 Run ferrug 39PProcess 📑 Nunsier en ion in tance Sert To pigamin. 34.5. Te -2 a 💮 -cmePackage Provide input for modified Decision Table: Acmet PriumberDecrion innance Enter Input for 'NumberDecision_Instance' 1個公司2 ralus is blude emply three for Sinning Taples A Chipoli 3 mi- result trois Total Injures Sweet puts Clear Inpurs Of Software AG Training | 12h - 25

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More Information

- webMethods Business Rules:
 More Information at class webMethods 8.2 Business Rules
- Blaze:

A Blaze Business Rules tutorial available at the Software AG Developer Community:

http://communities.softwareag.com/ecosystem/communities/public/Developer/webmethods/products/bpm_suite/tutorials/blazebusiness/index.html

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Blaze Business Rules vs. webMethods Business Rules

- webMethods BPMS supports webMethods Business Rules and FICO Blaze Business Rules.
- webMethods Business Rules was designed complement webMethods BPMS to fully support use cases that webMethods BPMS requires.
- webMethods Business Rules is not intended to have all of a Business Rules Management System (BRMS) capabilities that FICO offers.

	webMethods Business Rules	FICO Blaze Business Rules
Rules interact with Business Processes	Yes. BPMS processes can be started, stopped, suspended, failed, resumed, and canceled. Manual decisions (tasks) are also supported.	Custom coding required
Ruio execution of IS Services	IS services can be invoked using Rule actions.	Custom coding required
Integrated with Designer	Rules are designed and tested in Designer. Rule decision tables can be dragged and dropped into business processes.	No

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Starting Processes		
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Objectives

- At the end of this section, you will be able to
 - Name the different receive protocols used in a process model
 - Start processes by publishing documents via:
 - Designer
 - IS Services
 - HTML forms
 - REST services
 - CAF Portlets using validations and dynamic dropdowns
 - Microsoft InfoPath or Adobe LiveCycle e-forms
 - Invoke a business process synchronously

Software AG Training | 1.12 - 2

Notes:

webMethods 8.2 BPM for Developers 6 software* Starting Processes - Receive Protocols A Process must contain at least one Start Message Event, Start Signal Event, or Receive Task* Start Event/Receive Task defines Document type to be received Receive Pocument Receive Protocol to be used Receive Protocol Subscription (For Broker Documents) Subscription (For Broker documents) Simple Senice (For Synchronous Receive Cend) JMS (For JMS Triggered Processes) Ji 4S (Far JMS Trigglered Processes) Simple Service (For Synchronous Receive/Send)** Whenever Process Engine receives a document via a defined Receive protocol, an associated process instance is started and initialized with the received document data. Prerequisites: Process must have been build & uploaded to IS and enabled in Process Engine Doctype must have been synchronized with Broker*** Receive Task must be checked to allow to start a process instance Only available at Receive Tasks In certain cases synchronization is not necessary, e.g. when "running" a publishable document from Designer or debugging a process in Designer.

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5 software-Receive Protocols - Prerequisites ivagbase.eur.ad.sag :: Integrat∙on Server Protocol Subscription (For Broker) DEFERRE Settings a Wasseging DUTTO Documents) requires the CHERTIFIC Braker Configuration EXECUTIVE STATE Integration Server (Process Engine • Evolur Pethnog PARTITION ■ Col = Lot - Tri nerMan-c= host) be connected to a configured * Secretary JMS Configuration Michelling 1 webMethods Broker. ● JAS Shiffees 400 2500 ● JND Tilicaer Namedii rant 1000 (see chapter 2 for more information) 3 / √ 5 / √ 35 "In Cod Sec. Sertings > Messaging > 7M5 Settings + 100 Consenties Sties Protocol JMS (For JMS Triggered) · Feigner Fillettige # 3: 3 mgy restriction Processes) requires the Integration Ceneral Sellings Server (Process Engine host) be PE HONTRATISA-TIONAL ALTAS Chare has vizza a wise Chairled Description connected to a configured JMS NO_TRAUSACATON DEFAULT_IS_TS_PE_CLIENT Tigetowa social was ರಷ್ಟ ಕೃಷ್ಣ ವಿಶ್ವಾ ವಿ provider (e.g. Broker). Cannection Protocul (see class "webMethods 8.2 Integration Workshop" TATP E MESHETHOLS AFT Circle Car terling a large for more information) Dine host

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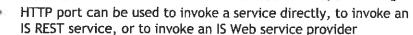
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Starting Processes - Possibilities

Starting a process:



- From Software AG Designer:
 - "Running" a document of the doctype the process subscribes to
 - uses Eclipse Run Configuration
 - Debugging a process
 - Passes document directly to the Process Engine
- Via Integration Server service:
 - IS listens for client requests on one or more ports.
 IS supports HTTP, HTTPS, FTP, FTPS, and E-mail ports*. E.g.:





Designer

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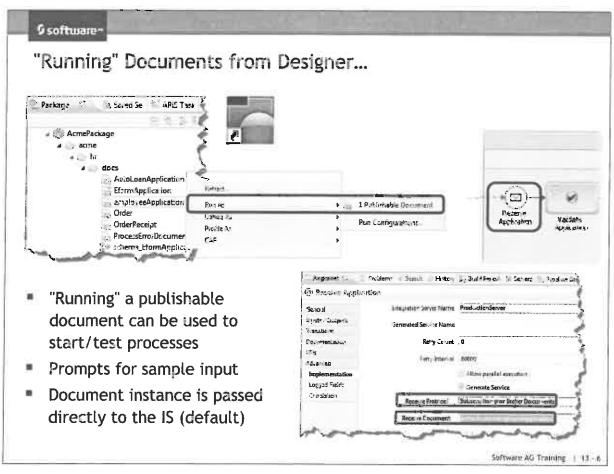
- E-mail port can be used to invoke an IS service by sending an e-mail
- After the client request is received via a port, an IS service is executed. This service can use pub.publish:publish (Broker Subscription) or pub.prt.jms.send (JMS) to send the required document.
- Triggered by E-forms or Content Documents

* Services	can also	be started	on the	Integration	Server in	many	other	wavs

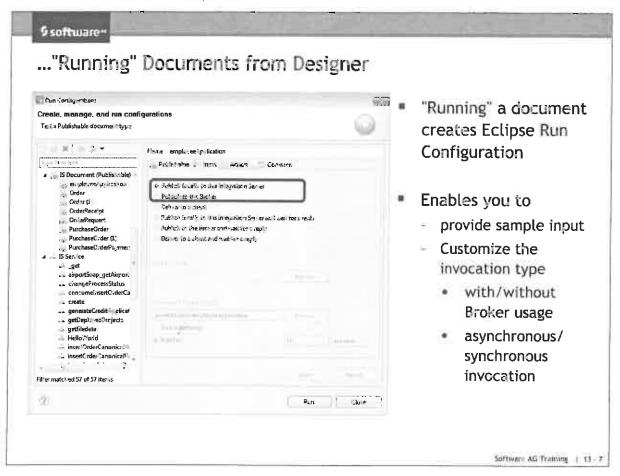
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Starting Processes via Integration Server Service - Samples

Custom IS service that calls pub.publish:publish or pub.prt.jms.send can be invoked in Integration Server by:

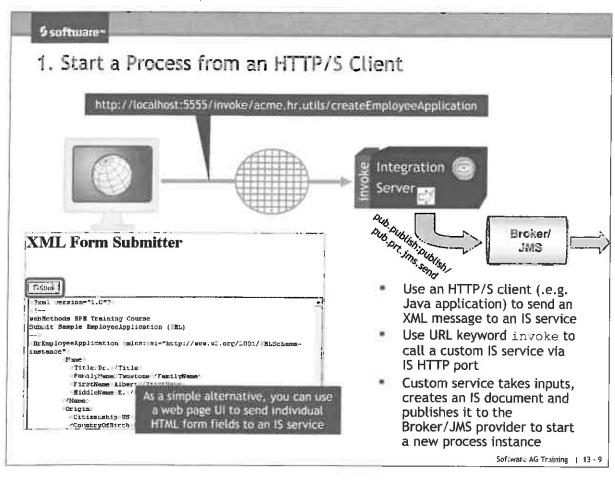


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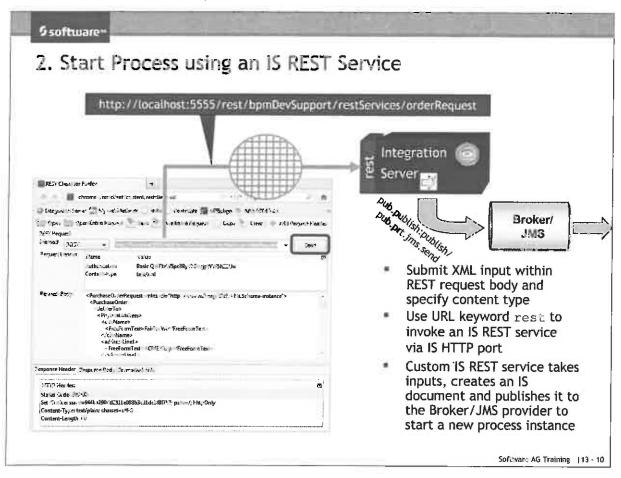
- HTTP client using IS HTTP/S port
- 2. REST Client invoking a wrapping IS REST service 🌑
- 3. Web service client, e.g. CAF Portlet, invoking a wrapping IS Web service descriptor (Provider)
- 4. Incoming e-mail using IS e-mail port
- 5. Trading Network processing rule
- 6. Receiving data via various webMethods adapters (e.g. WebSphere MQ, EJB, JDBC, SAP, etc...)
- 7. Receiving data from file(s) via the IS flat file processor
- 8. Receiving a message (document) from Broker, or via JMS
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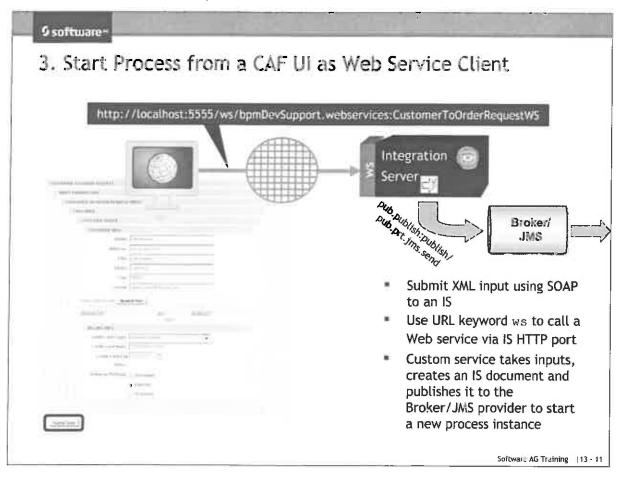
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Creating CAF UI to Start a Process via SOAP- Overview

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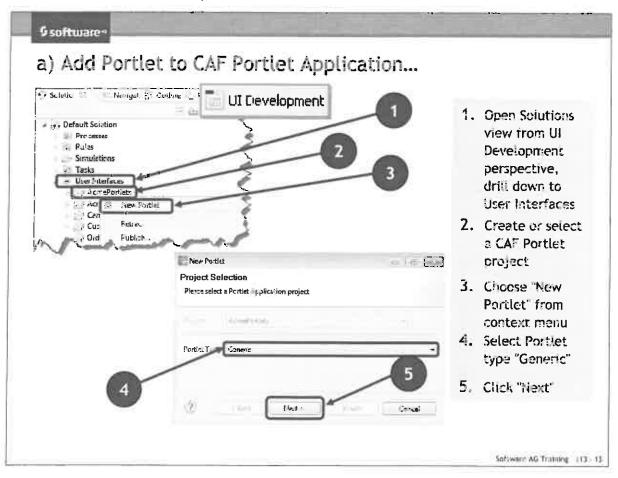
- Existing IS service publishing the document required by the process Start Message Event
- IS Web Service Descriptor of type Provider for the IS service mentioned above

Steps to be performed:

- a. Add Portlet to CAF Portlet application
- b. Add Web Service Connector and default UI to Portlet
- C. Publish CAF application and expose Portlet to MWS
- d. Test the generated user interface
- e. "Doctor" the generated user interface

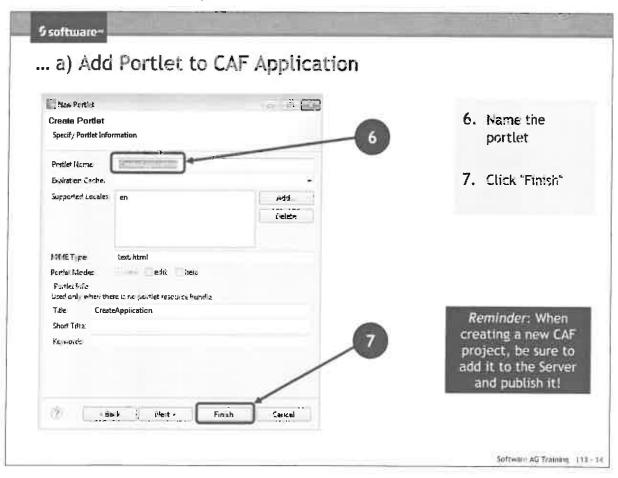
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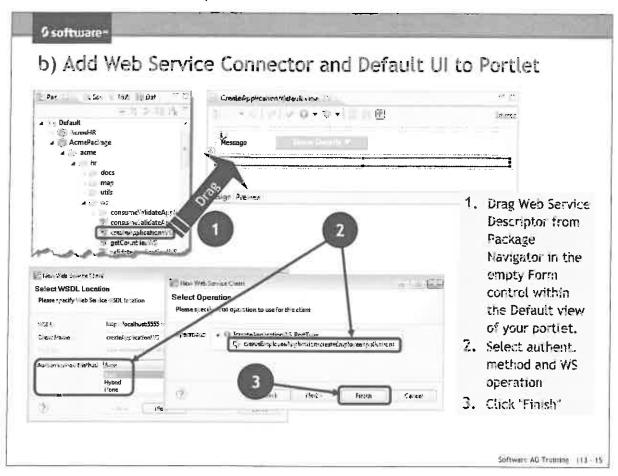


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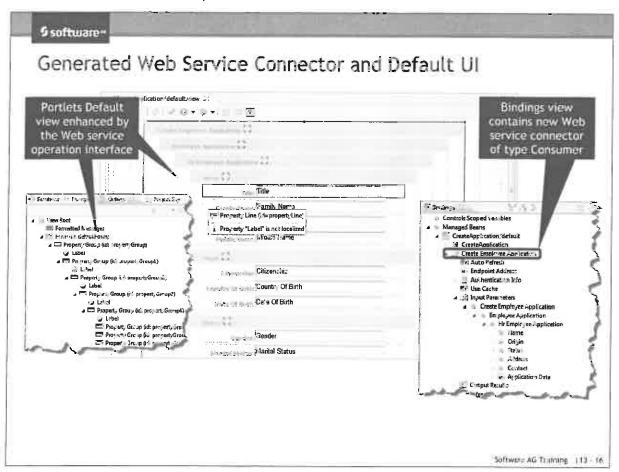
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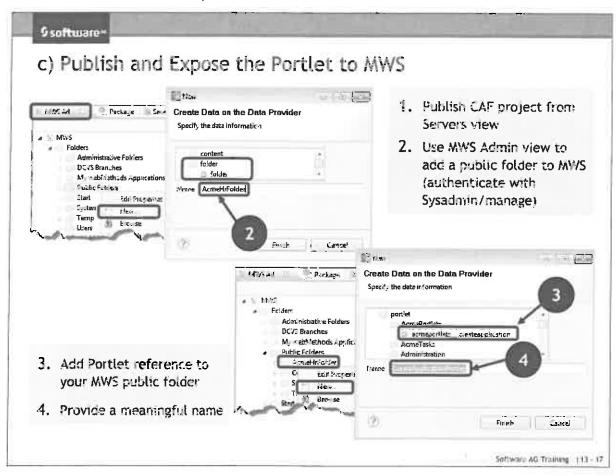
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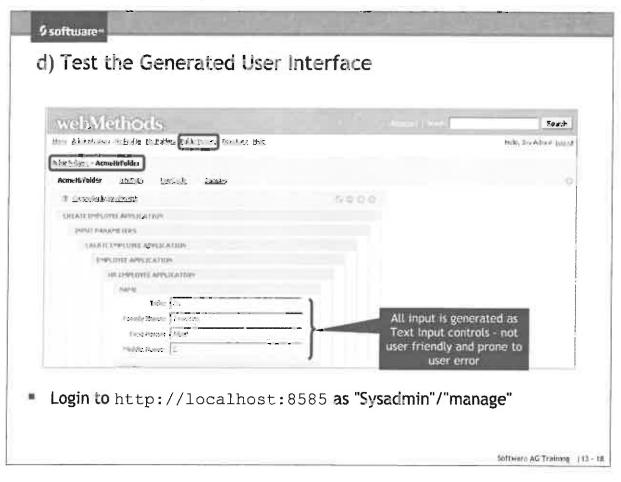
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5 software e) "Doctor" the Generated User Interface Remove nested structures and unwanted fields **Customize Control** Rendering Change Control types e.g. insert Date/Time Picker control Validate input: Field required/not required Use of Validator's Doctoring the UI Implement Auto Populating of controls same as User Task UI e.g. initialize a Dropdown control customization. Software AS Training 113 - 19

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5 software-Processes Started by E-forms Java Content Repository (JCR) (JSR-170 compliant) Receive E-form Application Application starts e-form Process Engine Integration Server BPMS supports the following e-forms: Microsoft InfoPath Adobe LiveCycle e-forms E-forms can be associated with publishable IS documents E-form is received from a Java Content Repository (JCR) Data is automatically converted into associated IS document that is published to the Broker which starts a new process instance Software AG Training 113 - 20

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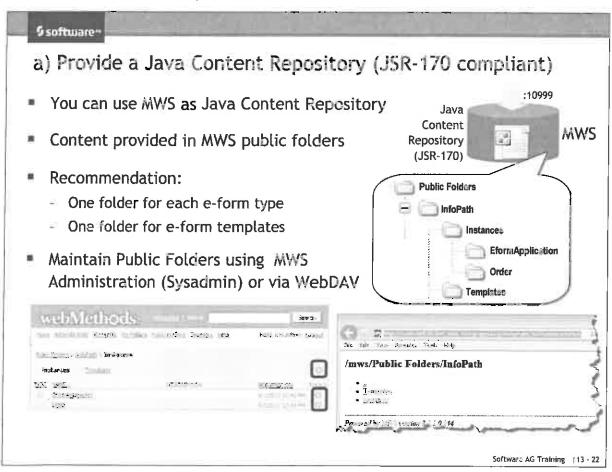
Setup E-form Support for Processes

- a) Provide a JSR-170-compliant Java Content Repository (e.g. MWS)
- b) Configure E-forms Server Environment in My webMethods
- c) Deploy E-forms Server Environment to IS



- d) Import IS document types from e-form templates
- e) Configure Start Message Event to receive an IS document related to an e-form template
- f) Build & Upload process model to create E-form Listener

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5 software= b) Configure E-forms Server Environment in My webMethods Configure: E-forms Server P. Statisticing The delay (JCR) 1 444 5-25 31 3 Friendly Name must be unique JCR connectivity Listening Paths for Forms and TATION AND **Templates** (= MWS public E-forme Configuration for HT.S Nerver V6.0 9 0 (10.10) folder) 24 40 Kg Target location Server report Reserved. Server river, \$2596 (Host/ IS with terres from meditorday ladacte: Process Engine) Server Proposet, serve ore information. Public Fisher William remain. Bloodgood for Semplists Public Public Scheduling Fath Templisms Configure separate E-forms Server Total Cares **Environments for different Server** Listening Paths! Sproward AG Training 111-23

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c) Deploy E-forms Server Environment to IS

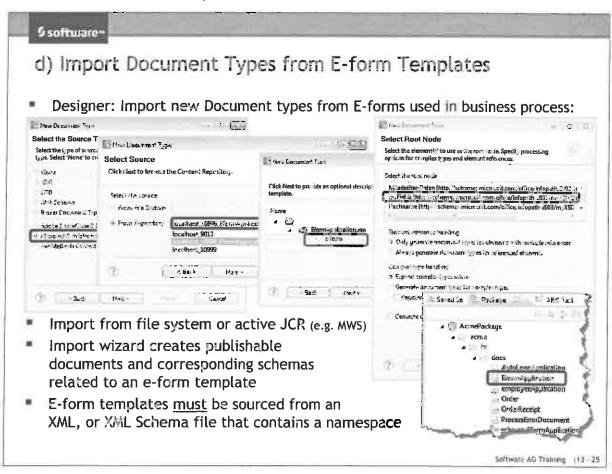
- E-forms Server Environment configuring E-forms Server (JCR) must be deployed to the IS instance defined in the environment settings
- Target Integration Server/Process Engine must be running



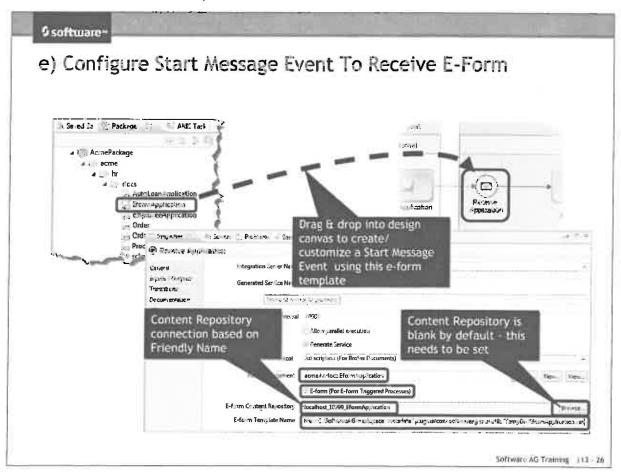
After successful deployment E-forms Server is started in an IS

Software AG Training | | 13 - 24

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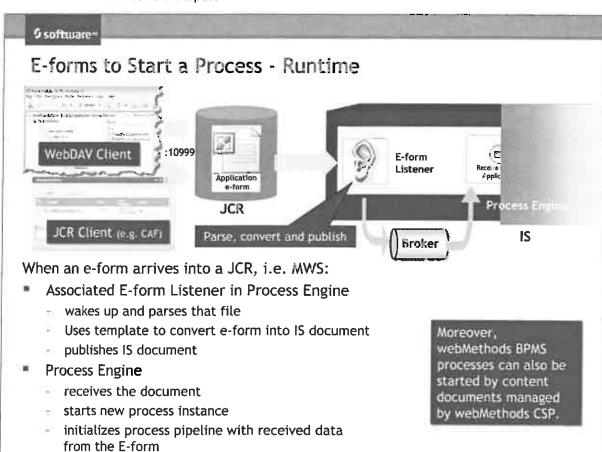


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S software f) Build & Upload Process Model to Create E-form Listener å CHICAGO Corporated recorded in Manufactural Principal Control Ser f ● 125 (41P 26 De 2 Edinoral of Contract | Continue er et det Verstelleren. * Rug wore safer مستبرات العالما ا Longs Cond. 1 Endougles of Procuse Log Data Lana, Bin A land Tracky, Bin A land Tracky, Bin A land Tracky, Bin A land Tracky, Bin Log TVI Bin Long Bin & Ses Log TVI Bin Long Bin & Ses Lamagiah, Philip. Folders InfoPath, Instances/C To: (20th Fall, Philip. Philip. 2) dOP-th: Yes aplates; \$000x 2 S DESTORY Generated Listener for e-form enabled Start Message Event or Receive Task Be 1747 Both to address & cutto After Build & Upload, Process Engine uses a generated e-form Listener E-form Listener monitors assigned instance folder in Content Repository Listener can be restarted from IS Administration console

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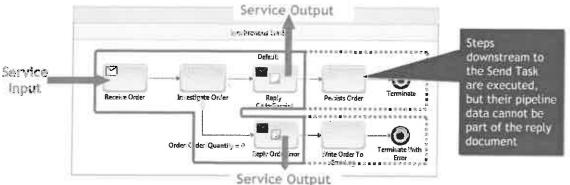
Software AG Training | 13 - 27



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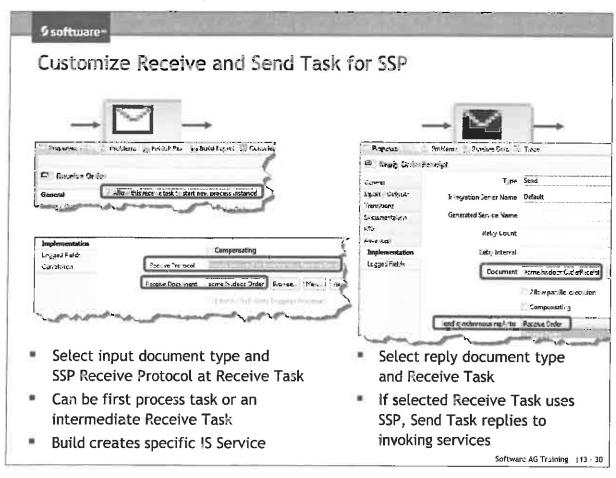
Starting Processes using the Simple Service Protocol (SSP) Service Output



- Process segments between a Receive Task Activity and a Send Task Activity can be invoked and executed as a synchronous (Web) service
- Prerequisites:
 - Receive Task has been setup to use Simple Service Protocol
 - Send Task(s) refer(s) to Receive Task
 - Process segment does not contain User Task Activities or any other delaying services (recommended)
 - Multiple Send Task Activities replying to one Receive Task Activity must share the same doctype and must execute mutually exclusive

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5 software-Synchronous Process Invocation After Build and Upload, generated IS service for Receive Task can be used to invoke the process in a synchronous manner SSPRic est process of ShippingEstimate **COPProcess** BRANCH on "Webser scelept Doct pe" acree.hr. lo. . Orderfledeigt: wrr. prt. etservices map Webservice ept Properties Published Stadfine Litter (Lacz - Seiner Fesult Mr. age_E entl ■ RegiçTos Transleceipt Run Mon Ferrore ric Criterito 4711 Fix Article! u 12 A. Quantity 10 de Custome Jame Otto rie Customeriapure el Appro ed L CBR eletremettett. L. Doctype Invoked Service returns a fixed DocEs a . CiderReceipt 71 if Or erllo document structure containing JE AticieNo 12 en Juanity wm.prt.webservices:WebserviceReply n's Curtomer! (ame .ts. TertomerAppro ec Appround to OBR ReplyDoc wrapping replied document Software AG Training [13 - 31

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