Gentran Integration Suite

Graphical Process Modeler Guide

Version 4.3

Sterling Commerce



Contents

Index	28
Removing One or More Copies of the GPM	27
	27
	26
· · · · · · · · · · · · · · · · · · ·	23
GPM Stencil Descriptions	18
Adding New Services and Service Configurations to the GPM Stencils	17
Choosing the Stencils You Need	17
GPM Stencils	17
Element Editors in the GPM	16
and the state of t	14
Setting Up Your GPM	14
Using the Go To Command	13
Nodes	13
Layers	13
Navigating Layers and Nodes in the GPM Interface	12
GPM Interface	11
Starting the GPM Outside of Gentran Integration Suite	9
Starting the GPM Inside Gentran Integration Suite	8
Starting the GPM	8
GPM Updates	7
GPM System Requirements	7
Installing the Graphical Process Modeler (GPM)	7
Everyday Activities and Flow	5
Overview of Using the GPM	4
Example Business Process Model in the GPM	4
Introduction to the Graphical Process Modeler	4

Introduction to the Graphical Process Modeler

To help you create business process models, Gentran Integration Suite includes the Graphical Process Modeler (GPM). The GPM is a Web-deployed graphical interface tool you use in conjunction with Gentran Integration Suite to create and modify business processes. The GPM converts your graphical business process models into source code, saving you the effort of writing code.

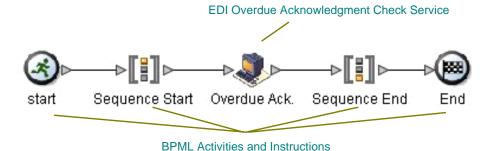
In the GPM interface you construct your business process models, coordinating the flow of activities in a graphical depiction of the ordered steps. The GPM provides icons representing the services, adapters and BPML instructions that make up your process models. In addition, you configure related parameters through the GPM and create rules and conditions within your process models.

You can validate the process models and check them in to Gentran Integration Suite from within the GPM. To make it easier to work with your business process models in the GPM without having to access Gentran Integration Suite interface, the GPM includes its own Source Manager tool, enabling you to lock, check in and check out business process models, and to monitor versions of business process models using a date and time stamp, all from within the GPM.

The GPM recognizes BPML code written in a text editor. Therefore, in the GPM, you can open a .bpml file created in a text editor and view its graphical representation. The GPM enables you to toggle the display between BPML and graphic view.

Example Business Process Model in the GPM

The following figure shows an example of a simple business process model as it appears in the GPM:



The callouts in the figure indicate the types of components depicted by the icons.

Overview of Using the GPM

To get started using the GPM, you must:

- 1. Install the GPM. See *Installing the Graphical Process Modeler (GPM)* on page 7.
- 2. Start the GPM. See *Starting the GPM* on page 8.

3. (Optional) Set your preferences. You can specify settings for things such as language preference, when to validate BPML, and the location on your computer where you want the GPM to save your business process model files. See *Setting Up Your GPM* on page 14.

After these steps are completed, you can begin creating business process models. For the step-by-step procedure, see *Creating Business Process Models*.

For an introduction to the GPM interface, see *GPM Interface* on page 11.

Everyday Activities and Flow

Your use of the GPM follows your business process modeling goals. Before you create a business process model, carefully plan it, so that you know which components you must include, as well as how you must configure the services and activities within it. For instructions, see *Planning Your Business Process Models*.

As you familiarize yourself with the GPM components, you will develop your own favorite methods of using it and navigating in the layers of your process models, as well as your own preferred order of completing the steps involved in creating and modifying business process models.

The following table describes the activities generally involved in creating business process models in the GPM. You can complete the activities in different order, but the table is arranged in a logical order as a starting point for your reference.

Activity	Description
Check out a business process model.	To modify an existing business process model that is checked in to Gentran Integration Suite, you must check the process model out before you can work with it in the GPM. For instructions, see <i>Modifying and Managing Business Process Models</i> .
Determine which stencils you need to display.	Stencils are palettes of the services and activities you include in your process models. Because hundreds of services are represented, each stencil lists a given category of services. You will want to display only the ones you are likely to need for the process model you are working on. For information about available stencils and how to display them, see <i>GPM Stencils</i> on page 17.
Arrange icons in workspace.	This activity involves:
	 Dragging and dropping the icons representing the services and BPML activities that comprise your process model into the workspace
	 Arranging the icons according to the desired flow
	◆ Linking the icons
Configure parameters for services, activities and links.	Some BPML activities, some links between your services and activities, and most services require some configuration in the GPM, depending on the task your business process model must accomplish. Use <i>GPM element editors</i> to view and modify parameters for the different components, or elements, of business process models. For information, see <i>Element Editors in the GPM</i> on page 16.

Activity	Description
Add decision points, rules and conditions.	Rules and conditions can be simple instructions or more complex directions defined using XPath expressions. The GPM enables you to assign rules using an element editor, as well as to define them using the Rule Manager and XPath Expression Builder tools. For information, see:
	 Defining and Assigning Rules and Conditions
	◆ GPM XPath Expression Builder on page 23
Make your process model descriptive	Name the components of your process models in meaningful ways.
for future reference.	 Use your company's naming conventions to name your process model when you save it.
	 Add annotations to the graphical display of your process model. For information, see:
	- Modifying Annotations
	- GPM Annotation Tool on page 26
Save, validate, and check in the model.	After you create or modify a process model, you can simply save it or save and validate it, and check it in to Gentran Integration Suite. For information, see <i>Checking in a Business Process Model</i> .

Installing the Graphical Process Modeler (GPM)

Although the GPM is an included feature of the Gentran Integration Suite, it does not automatically install with the Gentran Integration Suite, because it operates as a separate, Web-deployed application. The GPM must be installed on each computer from which a user will access the Gentran Integration Suite and work with the GPM.

If you use multiple copies of the Gentran Integration Suite, you must install a separate copy of the GPM for each. This enables the Gentran Integration Suite and the GPM to interact. For example, you can check in and out business process models from the GPM, and update a service configuration in the GPM after making changes to it in the Gentran Integration Suite.

GPM System Requirements

Gentran Integration Suite uses Java Webstart to start the GPM.

In previous versions of Gentran Integration Suite, WebStart was downloaded and installed on the client from Gentran Integration Suite's interface. Now, however, it is bundled and installed with Java Runtime Environment (JRE) 5.0, which is required for this version of Gentran Integration Suite. See the *System Requirements* for more information about Java requirements.

GPM Updates

To use the GPM in Gentran Integration Suite 4.3, complete these steps on the client where you want to install the GPM:

- Uninstall all old versions/instances of Java Webstart from the client system.
 Leaving these on the system will cause an error when attempting to load the GPM from the Gentran Integration Suite user interface.
- 2. Download and install Java Runtime Environment (JRE) 5.0 from the Sun ™ web site: http://java.sun.com/j2se/1.5.0/download.html
- 3. Install the JRE on the client system.
- 4. Log in to Gentran Integration Suite and download the GPM.

Starting the GPM

The first time you start the GPM on a given computer, you must do so from within the Gentran Integration Suite interface. Each time you start the GPM application, Java Web Start checks for a connection to the Web server to determine whether a new version of the GPM is available. When a new version is available, Java Web Start automatically updates the files on the client computer and opens the GPM. Any time after initial GPM startup, you can start it in either of the following ways:

♦ Inside Gentran Integration Suite interface

In this case, both the GPM and your network connection to Gentran Integration Suite are open. You must log into the GPM using your Gentran Integration Suite User ID and Password when using this method.

♦ Outside of Gentran Integration Suite

In this case, called working offline in the GPM, you do not log in to Gentran Integration Suite, and the GPM cannot interact with Gentran Integration Suite. There is no log in screen when you are working offline.

Note: The offline GPM mode is only possible if the Gentran Integration Suite instance is inaccessible over the network. If network connectivity exists, then the online mode is the only option.

The ability to work in the GPM without starting Gentran Integration Suite offers you the convenience of creating and modifying business process models without requiring a network connection. Because your business process models save directly to your hard drive, you can work on them at your convenience and at remote locations, and then check them in to Gentran Integration Suite later, after you log in.

Because the GPM and Gentran Integration Suite can interact (such as when you update the service stencils in the GPM), working in the GPM from outside Gentran Integration Suite involves the following restrictions:

- ◆ You cannot refresh (update from Gentran Integration Suite) the services listed in the GPM stencils
- ◆ You cannot check business process models into or out of Gentran Integration Suite

Plan ahead before you work offline in the GPM. For example, if you will need any new service configurations, you must create them in Gentran Integration Suite and refresh the services in the GPM (select **View** > **Refresh Services**) before you shut down Gentran Integration Suite and work offline in the GPM.

Similarly, if you plan to modify an existing process model, you must check it out while Gentran Integration Suite is running, before you shut it down and work offline in the GPM.

For instructions to start the GPM, see the appropriate procedure:

- ◆ Starting the GPM Inside Gentran Integration Suite (must use this option the first time you start the GPM)
- ◆ Starting the GPM Outside of Gentran Integration Suite

Starting the GPM Inside Gentran Integration Suite

You must use this method the first time you start the GPM.

Note: Initial startup may require several minutes, depending on the speed of your connection.

To start the GPM from inside Gentran Integration Suite interface:

- 1. Complete one of the following tasks:
 - From the Admin Console Home page, in the Tools section, next to Run Graphical Process Modeler, click **Go!**
 - From the **Business Process** menu, select **Manager**, and in the Graphical Modeling section, next to Run Graphical Process Modeler, click **Go!**
- 2. The **Log In** dialog box displays. Type your Gentran Integration Suite **User ID** and **Password**, click **OK**.
- 3. If the **Locale Settings** dialog box displays, select your locale. Options are:
 - English United States
 - ◆ Japanese Japan

By default, this option displays each time you start the GPM. For instructions on how to disable the display after your initial startup, see *Setting up your GPM*.

4. Click **Continue** to start the GPM.

You can now create and modify business process models. If this is the first time you have started the GPM, set your preferences. See *Setting up your GPM*.

Because you are logged in to Gentran Integration Suite, you can check business process models in and out.

Starting the GPM Outside of Gentran Integration Suite

Certain restrictions apply when using the GPM offline. You can start the GPM offline only if you cannot access Gentran Integration Suite over a network.

To start the GPM offline for the first time, you must first install a shortcut to your Programs menu and Desktop:

- 1. From the Windows **Start** menu, select **Run**.
- 2. Type **javaws -viewer** and click **OK**. The **Java Cache Viewer** appears.
- 3. From the **Application** column of the **Applications** menu, select the modeler for which you want to create a shortcut.
- 4. Click the **Install shortcuts to the selected application** button. The system installs a shortcut to your **Programs** menu and an icon on your Desktop.
- 5. To start the GPM, from the Start menu, select **Programs** > the **GPM application (Modeler)**.
- 6. Click Start.

Note: You will not have to log in to the GPM when you start it outside of the Gentran Integration Suite.

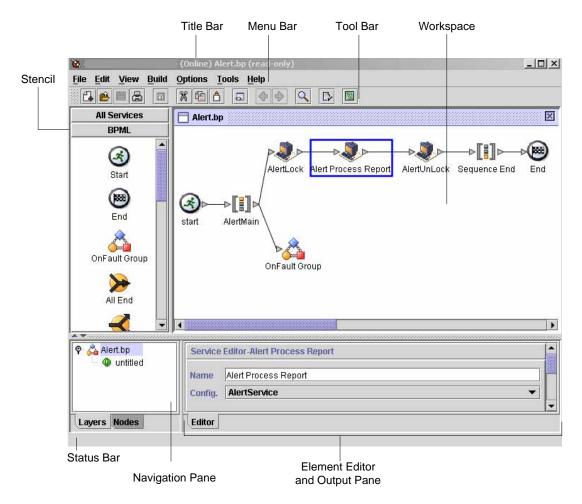
7. Click **Continue** to start the GPM.

Note: After creating the shortcut, you can access the GPM using the shortcut on your Desktop.

GPM Interface

The GPM is designed to simplify your tasks in creating and modifying business process models through drag-and-drop technology and tools for navigation and configuration.

The following figure shows the GPM interface and its components. A business process model document is open (select **File** > **New** to activate the workspace). To create business process models, you drag and drop icons from the stencils into the workspace.



The following table provides information about the components identified in the figure:

Component	Description
Stencil	A stencil is a graphical palette of icons for dragging and dropping into your business process models in the workspace. The icons represent components you include in your process models—the services, adapters, and BPML instructions that perform tasks.
	The GPM includes a variety of stencils, each containing icons of a specific category. You can select the stencils to display in the GPM interface at any time (from the View menu, select Stencil > < stencil name>. For stencil descriptions, see <i>GPM Stencils</i> .

Component	Description
Title Bar	Displays:
	 IP address and port of your associated installation of the Gentran Integration Suite
	 The word "(Offline)" or "(Online)" to indicate whether you are working online (this means with an Internet connection open) or offline (with no Internet connection open)
	• File name of the business process model document that is currently open in the GPM
Menu Bar	Enables you to select options related to creating, modifying, and checking in and out your business process models.
	 Use the Edit menu to cut, copy, paste, delete, clear all, and select all components displayed on the workspace. Procedural documentation for working with business process models describes the other functions you can access from this menu.
	 The View menu enables you to customize the display.
Tool Bar	Displays buttons that provide quick access to commonly used commands. Inactive buttons become active when you select a service icon in the workspace.
Workspace	Area in the GPM interface to which you can drag and drop icons to create a business process model. Within the workspace, you click and drag to organize your process models, and select components to configure them. You can also view the BPML source code of a business process model in the workspace.
	To view BPML source code, from the View menu, select Source .
Status Bar	Displays a description of a menu option, toolbar button, or service icon (in a stencil), when you point to it.
Navigation Pane	Displays a tree diagram of the business process model, depicting any subflows (called <i>layers</i> in this pane) and the steps contained within each subflow (these are the <i>nodes</i>). The Navigation pane enables you to display a subflow in the workspace by selecting it from the Layers tab, and to open element editors for selected nodes by selecting a node from the Nodes tab.
	The Navigation pane is especially helpful when you are working with complex processes that contain many subflows.
Element Editor and Output Pane	Displays either element editors for a selected component of the business process model, or the output for system messages.
	Element editors enable you to view and configure parameters for components of your business process models. Double click a component in the workspace to display the element editor to configure it. For descriptions of the different element editors, see Element Editors in the GPM.
	 The Output tab displays error, validation, and system messages. This pane opens automatically when you validate a model or view source code.

Navigating Layers and Nodes in the GPM Interface

Working with graphical business process models often requires you to navigate sometimes complex or extensive arrangements of process components. For your convenience, the GPM contains a Navigation pane for quick navigating among components.

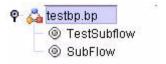
The Navigation pane makes it easy to select from among the different subflows and components of your business process model, using the Layers and Nodes tabs.

Layers

Layers are subflows contained within the business process model. The Layers tab depicts a graphical representation of the structure of the parent business process model displayed in the workspace, including subflows. To expand the structure to show the layers, double click the icon in the Navigation pane that

represents the business process model (). When you expand the view, the structure shows any subflow

layers contained within the business process model. The following figure illustrates a process model with two layers, when the view is expanded.



To work with the subflow, select the appropriate layer from the list. The subflow activities display in the workspace.

Nodes

Nodes are the steps in the business process model. Each BPML activity, service, adapter, and subflow is a node.

For a selected layer, the Nodes tab displays an alphabetical list of the nodes in the layer. When you select a node from the list, the GPM displays in the workspace the section of the business process model containing the selected node, with the node selected in the workspace display.

To use the Nodes tab, select a layer from the **Layers** tab and then click the **Node** tab to view:

- ♦ The list of nodes in the layer, displayed in the Navigation pane
- ◆ The subflow or parent business process model that comprises the layer, displayed in the workspace

If the element editor is open, when you select an icon on the Node tab, configurable parameters for the node display in the applicable element editor.

Using the Go To Command

When you are working with a business process model that includes multiple subflows, the Go To (Previous/Next) command enables you to return to the previous flow view or display the next flow view. To use the command, select **View** > **Go To** > **Previous** or **Next**.

Setting Up Your GPM

You can choose from a variety of settings in the GPM to specify operations handling according to your own preferences. Setting up GPM preferences before using the GPM is not required, however setting preferences in advance enables you to be certain of the order in which steps such as validation will take place in your procedures, and where the GPM will store your process models when you save them. You can also modify the display according your needs.

Note: If multiple users log in to your computer using the same user ID and password, and use the GPM, they share the GPM application and therefore any preference settings. In this case, users can re-set their preferences whenever they use the GPM.

To set your preferences:

- 1. Select **Options** > **Preferences**.
- 2. On the **General** tab, indicate whether the GPM should automatically validate BPML each time you save a process model, or if you want the GPM to display the Validate on Save dialog box each time you save, so that you can determine then whether to validate the model you are working on.
- 3. Select the **Source Manager** tab. This enables you to opt to use the Expert display mode for checking business process models into Gentran Integration Suite when you use the GPM Source Manager. Expert Mode displays one dialog box containing all of the parameters related to checking in a business process model to Gentran Integration Suite. When you do not select Expert Mode, the parameters selections display in a series of dialog boxes, which breaks up the options into smaller groups for novice users. Select **Use Expert Mode** or leave the selection blank.
- 4. Select the **File Location** tab. If you like, specify a default directory to which the GPM will save all business process documents (.bp files) on your client computer.
- 5. Select the **Locale** tab and select a default locale (either English/United States or Japanese/Japan) for your installation. If you do not specify a default locale, the Locale Settings dialog box displays each time you start the GPM.
- 6. Select the **Service Editor** tab and indicate whether you want to be able to override parameters for service configurations as they are currently saved in Gentran Integration Suite. When you do not select this option, some predefined service configuration parameters are not editable in the GPM.
- 7. Click OK.

The GPM also enables you to customize the display to facilitate your work habits. For information, see *Customizing the GPM Interface*.

Customizing the GPM Interface Display

The View menu enables you to customize the GPM display. In the View menu, you can click certain options you want to display or hide. When these options have a check mark next to them, they display. Options to display or hide are:

- ◆ Source/Graph Enables you to switch between the graphical representation and the BPML source code of a business process model on the workspace.
- ◆ Toolbar Displays or hides the toolbar containing shortcut command buttons.

- ◆ Status Bar Displays or hides the status bar across the bottom of the page.
- ◆ Output Opens and closes the Output pane, which displays error, validation, and system messages. This pane opens automatically when the GPM encounters an error during validation, even when you have not selected the option.
- ◆ Navigation Opens and closes the Navigation pane.
- ◆ Stencil Displays the menu that lists stencils. For information, see *GPM Stencils* on page 17.
- ◆ Auto Layout Automatically aligns icons in the workspace.
- ◆ Zoom Enables you to change the magnification of a business process model view. Zoom sets the magnification to 50, 75, 100, 150, or 200 percent.
- ◆ Grid Enables you to select and displays dotted or line grid markers, or no grid markers. The grid points enable you to align icons on the workspace.

Element Editors in the GPM

Element editors enable you to view and modify parameters for different components, or elements, of business process models. These elements are the icons representing services, adapters and BPML activities, and the edges, or links (represented by lines), that connect them and to which you can assign rules.

BPML activities and a small number of services are preconfigured when you install Gentran Integration Suite. However, some BPML activities and most services require you to perform additional configuration in the GPM, depending on the task your business process model must accomplish.

The GPM has five element editors, each of which provides configuration parameters specific to a selected element. When you select an icon in the workspace, the appropriate element editor for that edge, service or BPML activity displays.

The following table describes the GPM element editors:

Element Editor	Description
Consume Editor	Enables you to indicate the message a business process or subflow should expect, and the name of the participant sending that message.
Edge Editor	Enables you to assign rules to the links that run from a Choice Start icon to the next icons at a decision point in a business process model. The Edge editor enables you to select from all previously created rules.
Produce Editor	Enables you to indicate the message and name of the receiving participant or activity for the business process or subflow.
Property Editor	Enables you to configure BPML activities that require additional information, such as Choice and Assign.
	You can also use the Property editor to define values that indicate errors associated with the activity. If the business process encounters these values while running, Gentran Integration Suite generates a report that describes the error.
Service Editor	Enables you to configure parameters for each service and adapter. The parameter fields correspond to the parameter information described in the reference documentation for the selected service. You can use the Service editor to:
	 Enter and modify values for parameters.
	 View protected parameter values that cannot be edited.
	 Use the preset values in the editor as a basis for defining conditions for configuration parameters.
	 Create your own name-value pairs, adding XPath expressions when needed, to define the path to name-value pairs that appear in business process data.

If you need information about the parameters to enter for a service or adapter, review the parameter specifications in the reference documentation for the service.

GPM Stencils

Stencils are palettes that you can display in the GPM and from which you select icons representing activities to include in your business process models. See *GPM Interface* for an illustration of the stencils pane.

Each stencil contains labeled icons for a specific category of installed services or BPML activities. You can choose from a menu to display the stencils containing icons you need as you build business process models. From the **View** menu, select **Stencil** and select the desired stencil. When you open more than one stencil, the stencils display in a tiered pane. With multiple stencils open, you can click the stencil name at the top or bottom of the pane to display the stencil you need as topmost in the list.

To close a stencil, right click on the stencil title and select Close Current Stencil or Close All Stencils.

Choosing the Stencils You Need

Stencil names describe the category or sub-category of services and adapters for the icons they contain, with the exception of the BPML stencil. The BPML stencil contains icons only for BPML activities and instructions that coordinate the flow of activities within a business process model.

To choose a stencil to open, look for the category of service and any sub-category that might apply.

For example, the ebXML stencil contains icons for services that implement business-to-business data exchange using the ebXML format, such as the ebXML Digital Signature service and the ebXML Profile service. In this example, the category is Internet B2B, and the sub-category is ebXML. Therefore, to choose the ebXML stencil, from the **View** menu, select **Stencil** > **Internet B2B** > **ebXML**.

You can also display all services (but not BPML activities) in one single stencil, by selecting **View** > **Stencil** > **All Services**.

Note: If you do not have a license for a service or adapter that you include in a business process model, the business process will fail when you attempt to run it in Gentran Integration Suite.

Adding New Services and Service Configurations to the GPM Stencils

Periodically, you may install additional services and adapters to your Gentran Integration Suite application or update service configurations created in Gentran Integration Suite interface. In order to update the GPM to include them, you must *refresh* the GPM. Select **View** > **Refresh Services** any time you need to update the GPM stencils to display the most current services and adapters installed with Gentran Integration Suite. You must be working with the GPM online (Gentran Integration Suite must be running) to use this command.

GPM Stencil Descriptions

The following table describes the GPM stencils. The table is arranged alphabetically by stencil category.

Category / Stencil Name	Contains Icons for:
All / All Services	All installed services (not including activities in the BPML stencil). Service icons display in alphabetical order. All other stencils are subsets of this stencil.
Applications / ERP	Adapters installed to connect to external, Enterprise Resource Planning applications, such as:
	◆ PeopleSoft CRM [®] (Vantive) adapter
	◆ SAP [®] R/3 [®] adapter
Applications / Sterling	Adapters installed to connect to external, Sterling Commerce applications, such as:
Commerce	 Connect:Direct[®] Requester adapter and related services
	 Connect:Enterprise[®] UNIX Server adapter and related services
	◆ Gentran:Server [®] Windows adapter
	Sterling Information Broker
B2B Protocols / FTP Client	Services that complete B2B communication using File Transfer Protocol, such as:
	◆ FTP Client Password service
	◆ FTP Client Server service
B2B Protocols / HTTP Client	Services that complete B2B communication using Hypertext Transfer Protocol, such as:
	◆ HTTP Client Post service
	HTTP Client Method service
B2B Protocols / SFTP Client	Services that complete B2B communication using Secure Shell File Transfer Protocol (SSH/SFTP), such as:
	◆ SFTP Client PUT service
	◆ SFTP Client GET service
BPML / BPML	Commonly used BPML activities and instructions, such as:
	◆ Start
	◆ End
	◆ Assign
	◆ Join

Category / Stencil Name	Contains Icons for:
Communications / Communications	Services and adapters that enable Gentran Integration Suite to send and receive messages using the standard Internet communications protocols, such as.
	 B2B HTTP Client adapter and related services
	 FTP Client adapter and related services
	 HTTP Client adapter and related services
	◆ MIME service
Custom / Custom	Custom-created services, after your software developer has developed, installed, and configured them.
EDI / ACH	Services related to EDI transaction processing requirements using Automated Clearing House standards, such as:
	ACH Enveloping service
	◆ ACH Deenvelope service
EDI / CII	Services related to EDI transaction processing requirements using Japanese Center for Informatization of Industry standards, such as:
	CII Deenvelope service
	Envelope service
EDI / EDIFACT	Services related to EDI transaction processing requirements using EDIFACT standards, such as:
	 EDI, UNB, UNH, Deevenlope and Envelope services
	 Generate and Reconcile Control services
EDI/TRADACOMS	Services related to EDI transaction processing requirements using TRADACOMS standards, such as:
	EDI Envelope service
	Generic Envelope service
EDI / X12	Services related to EDI transaction processing requirements using Accredited Standards Committee X12 standards, such as:
	 997 Generator and Reconcile services
	 EDI, GS, ISA, ST Deenvelope and Envelope services
	 TA1 Generator and Reconcile services
Internet B2B / E5	Services that implement business-to-business data exchange using the E5 (clients and servers) format, such as:
	◆ E5 Client Configuration service
	◆ E5 Obtain service
Internet B2B / ebXML	Services that implement business-to-business data exchange using the ebXML format, such as:
	ebXML Digital Signature service
	ebXML Profile service

Category / Stencil Name	Contains Icons for:
Internet B2B / EDIINT	Services that implement business-to-business data exchange using the EDIINT protocol, such as:
	EDIINT Acknowledge Check service
	EDIINT Message service
	EDIINT Pipeline service
Internet B2B / Mailbox	Services that implement business-to-business data exchange using mailbox format, such as:
	Mailbox Evaluation Routing Rule service
	Mailbox Extract Begin service
Internet B2B / Rosettanet	Services that implement business-to-business data exchange using RosettaNet [™] RNIF standards, such as:
	RNIF 20 MessageBuilder service
	RN Profile service
	RosettaNet Sender service
Internet B2B / SOAP	Services that implement business-to-business data exchange using Simple Object Access Protocol, such as:
	SOAP Inbound service
	SOAP Outbound service
Internet B2B / Transora	Services that implement business-to-business data exchange using Transora [™] exchange methods, such as:
	◆ TDC Document XPath Replace service
	Transora HTTP AS2 DocHandler service
	◆ Transora HTTP AS2 MDNHandler service
Internet B2B / UCCnet	Services that implement business-to-business data exchange using UCCnet [™] exchange methods, such as:
	B2B Request Response service
	B2B Send service
Internet B2B / UCCnet22	Services that implement business-to-business data exchange using UCCnet [™] exchange methods for UCCnet version 2.2, such as:
	◆ UCCNet 2.2 Configuration service
	◆ UCCNet 2.2 DocHandler service
	◆ UCCNet 2.2 Query Deenveloper service
Messaging / Instant Messaging	Services that enable Gentran Integration Suite to send and receive instant messages, such as:
	IM Send Message service
	IM Receive Message service

Category / Stencil Name	Contains Icons for:
Messaging / Queuing	Adapters that enable Gentran Integration Suite to send messages to and from remote messaging queues, such as:
	MSMQ adapter
	Oracle AQ JMS Queue adapter
	Oracle AQ JMS Topic adapter
	TIBCO adapter
	◆ Vitria adapter
	 WebMethods Publisher adapter
	 WebMethods Subscriber adapter
	 WebSphereMQ adapter
	◆ WebSphereMQ Suite
Messaging / WebSphereMQSuite	Services that enable you to script a complete MQ session using a business process, such as:
	 WebSphere MQ Suite Open Session service
	 WebSphere MQ Suite Get Message service
	◆ WebSphere MQ Suite Commit service
Process Controls / Process	Services that:
Controls	 Enable custom control at an intricate level (for example, at each step) when running business processes
	 Can improve business process performance
	For example, the Execution Control service enables you to change the priority queue previously defined with regard to system allocation of resources, when running business processes.
	Examples of Process Control services are:
	◆ Cache Refresh service
	◆ Execution Control service
	◆ Wait services
Retiring / Retiring	Services and adapters that will soon no longer be supported in Gentran Integration Suite.
	In order to improve performance, enhance features, or ensure compatibility with recent product releases, Sterling Commerce periodically retires services and adapters and makes other services and adapters available to fill the need.
	If you are currently using services or adapters listed in the Retiring stencil, you must replace these services and adapters in your business process models with other services and adapters.
	Services and adapters listed in the Retiring stencil are supported for the current release of Gentran Integration Suite. However, to ensure that you employ the most current capability, avoid using them.

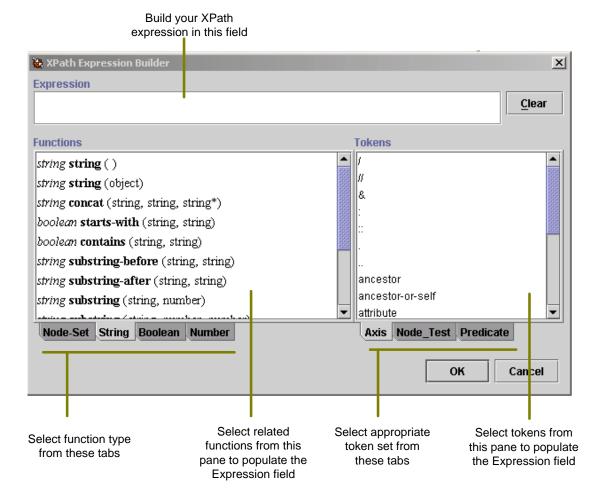
Category / Stencil Name	Contains Icons for:
System / System	Services and adapters that enable business processes to interact with hardware and software resources such as application components, file systems, operating systems, and databases, both internal and external to Gentran Integration Suite, such as:
	 Command Line Adapter 2
	File System adapter
	 Java™ Database Connectivity (JDBC™) adapter
	 Lightweight Java Database Connectivity (JDBC) adapter
Translation / Translation	Services that translate or transform data using maps created with Gentran Integration Suite Map Editor, such as:
	Translation service
	Typing service
	XML Encoder service
	◆ XSLT service
Transport / Transport	Adapters that offer additional options that enable Gentran Integration Suite to communicate with local or remote servers and exchange data, such as:
	 Lightweight Directory Access Protocol (LDAP) adapter
	 Remote Method Invocation (RMI) adapter
	 Simple Network Management Protocol (SNMP) Trap adapter
Web Extensions / Web Extensions	Services that support Web services technologies. Web services directly invoke application function calls over the Internet.
	Examples of Web Extensions services are:
	 Human Interaction Document Loader service
	 Human Interaction Event and Query services

GPM XPath Expression Builder

Note: This topic assumes familiarity with XML Path language (XPath). If you need more information about XPath, see the World Wide Web Consortium at www.w3c.org and the BPML documentation.

The XPath Expression Builder makes creating XPath expressions to use in your business process models more convenient. Clickable function and token menus enable you to select the functions and tokens to build an expression.

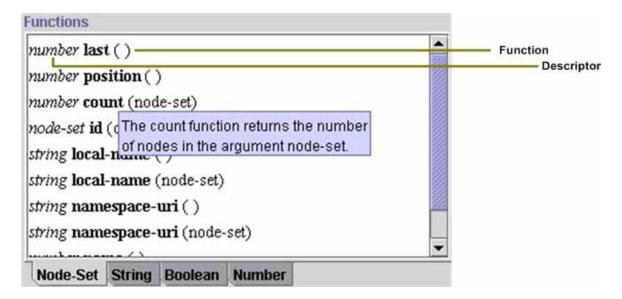
The following figure shows the XPath Expression Builder. For more information, see *Defining and Assigning Rules and Conditions in Managing Business Processes*.



The Expression Builder provides descriptive information to help you make your choices:

- ♦ When you mouse over a function or token, pop-up help describes the selection.
- ◆ Function selections are comprised of two parts. The first part, in italics, is descriptive of the function. The second part, in bold text, is the actual code for the XPath function you are selecting. For example, the *number* last () function selection indicates that the last function returns a number.

The following figure shows a pop-up description and indicates the parts of a function selection:



The XPath Expression Builder supports several function types and token sets. To build XPath expressions, you must be familiar with the expression type you need and understand the functions and tokens used in the expression types. For descriptions of XPath function types and tokens, view the XPath Tutorial at www.w3c.org.

Note: Remember that you cannot use functions and tokens in Gentran Integration Suite that are not supported in the XPath Expression Builder, with the following exceptions:

- DocToDOM
- DOMToDoc

For information about these exceptions, see the BPML documentation.

The following table describes the function types supported by the XPath Expression Builder:

Function type	Description	
Node-Set	Used to obtain information from an XML document, such as counting purchase orders in a node set. Also:	
	 Defines a set of sequential context-nodes 	
	 Specifies what information to process or return for the set of context-nodes 	
String	Perform basic string operations, such as:	
	 Finding the length of a string 	
	◆ Comparing a string	
	 Changing letters from uppercase to lowercase 	
	 Modifying the text content of XML elements or attributes 	
	 Converting an argument of any type 	

Function type	Description
Boolean	Specifies a Boolean argument (using either the true or false state) that can include predicates and return the result.
Number	Manipulate numbers, such as:
	 Specifying a numeric function for adding groups of numbers
	 Finding the nearest integer to a number
	Performing basic arithmetic operations

The following table describes the three token sets supported by the XPath Expression Builder:

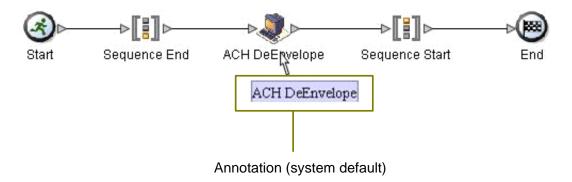
Token Set	Use to:
Axis	Define the direction of your search by using keywords, including:
	◆ Attributes
	◆ Child elements (default)
	 Descendants of the child elements
	Parent elements
	◆ Ancestor elements
Node Test	Indicate the name of the node for which to search.
	Note: Insert the name of the node test after the resolution operator (::) that follows the axis.
Predicate	Insert a relational operator to test each node in the set of context-nodes of a location path.
	Note: Predicates can use Boolean operators.

GPM Annotation Tool

The Annotation tool enables you to add customized comments such as descriptive names or explanations, for your reference, to the icons in the graphic display of your business process models.

The GPM automatically includes annotations with all icons. When you pause with your mouse arrow over an icon or the name of an icon in the workspace, the annotation for the icon pops up. Using the Annotation tool, you can modify the annotations so that they are more useful for you.

The following figure illustrates an annotation in a simple business process model:



The GPM does not store annotations in the BPML content of a business process model, therefore, they display only in the GPM representation of a business process model, not in the source BPML. For the same reason, if you edit and save a process model directly in the source BPML, the annotations will no longer be part of the business process model.

Uninstalling the GPM

If you have more than one copy of the GPM installed—for example, if you have installed a copy to use for testing and a copy to use for production—you can remove a copy of the GPM using the Java Application Cache Viewer.

Removing One or More Copies of the GPM

This procedure is completed using the Java Application Cache Viewer. Complete this procedure to remove copies of the GPM.

To remove a copy of the GPM:

- 1. From the Windows **Start** menu, select **Run**.
- 2. Type javaws -viewer and click OK. The Java Cache Viewer appears.
- 3. From the **Application** column, select the **Modeler** (or the copy of the GPM) that you want to remove.
- 4. Click the **Remove selected items** button (the red X).

The selected copy of the GPM is removed from the client computer.

Index

Α	C	
adapters	Communications stencil, GPM 19	
for B2B Protocols, icons in GPM 18	Consume editor, GPM 16	
for communications protocols, icons in GPM 19 for messaging, icons in GPM 20 for transport, icons in GPM 22	Custom Services stencil, GPM 19	
retiring, icons in GPM 21 to applications, icons in GPM 18	E	
updating GPM to display new 17	Edge editor, GPM 16	
aligning elements on workspace 15	EDI stencil, GPM 19	
All Services stencil, GPM 18	Edit menu, GPM 12	
annotation, adding to icon in GPM 26	element editors, GPM Consume editor 16 Edge editor 16	
Applications stencils, GPM 18		
Axis token set, XPath 25	Produce editor 16 Property editor 16	
В	Service editor 16	
B2B Protocols stencils, GPM 18	ERP stencil 18	
BPML	error message, viewing in GPM 15	
activities	error values, assigning in Property editor 16	
descriptions 18 icons 18	F	
stencil, GPM 18 viewing source code in GPM 14	function types, XPath 24	
business process adapter icons 17	G	
annotations in 26	Go to (view) command, GPM 13	
creating name-value pairs 16 layer 13 nested layer 13	Graphical Process Modeler view source code 14	
node 13 service icons 17	Graphical Process Modeler (GPM) about 4, 7	
subflow 13	annotation, adding to icon 26	
business process model beginning a new one in GPM 11 view source code 12	Auto Layout command 15 beginning a new process model 11 customizing display 14 Edit menu 12 element editors page location 12	

```
Go To (view) command 13
  Grid command 15
  installing 7
  interface components 11
  interface introduction 11
  layers 12
    navigating 12
  menu bar
    definition 12
  navigating among subflows within a process model 13
  Navigation pane 15
    about 12
    display or hide 15
  nodes 12
    navigating 12
  Output pane
    about 12
    display or hide 15
  Refresh Services command 17
  service and adapter icons 17
  shortcut commands 14
  starting 8
  status bar
    about 12
    display or hide 15
  stencils
    definition 11
    descriptions 17
  system requirements 7
  toolbar 14, 15
  uninstalling 27
  updates 7
  viewing source code 14
  viewing validation messages 15
  workspace 12
  XPath Expression Builder 23
  Zoom command 15
Internet B2B stencil, GPM 19
layers
  navigating 12
layers, GPM 12, 13
locale
```

default 14

```
prompt
    turning off 14
                                                   M
Messaging stencil, GPM 20
                                                   N
name-value pairs, creating in Service editor 16
Navigation pane
  about 12
  GPM 15
nested layer 13
next flow view, GPM 13
Node Test token set, XPath 25
nodes, GPM 12, 13
nodes, navigating 12
node-set 24
number expression 25
Output pane
  about 12
  display or hide 15
parameters, override 14
Predicate token set, XPath 25
previous flow view, GPM 13
Process Controls stencil, GPM 21
Produce editor, GPM 16
Property editor, GPM 16
                                                   R
Refresh Services command, GPM 17
Retiring stencil, GPM 21
                                                   S
```

service configurations, overriding system parameters 14

```
Service editor, GPM 16
Service Editor, overrides 14
service icons 17
services
  for communications protocols, icons in GPM 19
  for EDI, icons in GPM 19
  for Internet B2B, icons in GPM 19
  for Web Extensions, icons in GPM 22
  retiring, icons in GPM 21
  that enable custom controls, icons in GPM 21
  translation, icons in GPM 22
shortcut commands, GPM toolbar 14
source code, viewing 12
status bar
  about 12
  display or hide 15
stencils, GPM
  All services 18
  applications 18
  B2B Protocols 18
  BPML 18
  Communications stencil 19
  Custom Services 19
  definition 11
  descriptions 17
  EDI 19
  ERP 18
  FTP Client 18
  HTTP Client 18
  Internet B2B 19
  Messaging 20
  Process Controls 21
  refresh display 17
  Retiring 21
  Sterling 18
  System 22
  Translation 22
  Transport 22
  Web Extensions 22
Sterling stencil, GPM 18
string expression 24
System stencil, GPM 22
```

	Т
title bar, GPM 12	
token sets, XPath 24, 25	
toolbar shortcut commands, GPM 12, 14	
Translation stencil, GPM 22	
Transport stencil, GPM 22	
	V
validation	
configuring automated 14 turning off automated 14	
viewing related messages in GPM 15	
	W
Web Extensions services stencil, GPM 22	
workspace	
activating 11	
aligning elements 15 changing view magnification 15	
overview 12	
	V
	X
XML Path language (XPath)	
expression types 24 token sets 24	
XPath Boolean 25	
building expressions in GPM 23	
function types 24	
node-set 24 number 25	
string 24	
XPath Expression Builder	
expression types 24	
overview 23 using 23	
using 23	
	Ζ
Zoom command, GPM 15	
Loom Johnmand, Or 111 13	