



SpeechMiner SMART 8.5

User Manual

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Welcome to the SMART online help system.



Overview



Managing Topics



Managing
Programs



Managing
Categories



Applying Changes



Managing Version
History



Exporting and
Importing



If you're unable to find what you're looking for in this help system, try these alternative resources:

<http://www.genesyslab.com/support/general-pages/contact-us.aspx>

or contact our support team at:

customer care@genesys.com

Last Updated: February 13, 2014 © 2014 Genesys Telecommunications Laboratories

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Overview

SMART, the SpeechMiner Administration Tool, is a component of SpeechMiner, Genesys's award-winning product for Customer Intelligence. SpeechMiner analyzes recorded phone conversations between call-center agents and customers in accordance with a customizable set of instructions. SMART is used to define the set of instructions that is used by SpeechMiner in a particular organization. These instructions specify the way SpeechMiner performs recognition and analysis of customer data; SMART allows SpeechMiner users to create, edit, and update the recognition instructions so that SpeechMiner can identify the content of each call with maximum accuracy.

The sets of instructions that are managed in SMART can be divided into two general parts:

- **Call analysis:** [Programs](#) tell SpeechMiner which specific linguistic and non-linguistic [Events](#) to search for in calls.
- **Call classification:** [Categories](#) are used to categorize calls after their content is analyzed, based on their content and other characteristics.

The combination of call analysis and classification enables SpeechMiner users to find and play back important Events and to analyze groups of calls based on their characteristics.

Typically, SpeechMiner implementations at our customer sites include development of the underlying SMART system by our Client Solutions team. However, advanced SpeechMiner users who have SpeechMiner administrator privileges can choose to modify the SMART system themselves in order to further fine-tune call recognition and analysis in their company's implementation of SpeechMiner.

See also

[Programs](#)
[Events: Topics and Non-Linguistic Data](#)
[Call Classification: Categories](#)
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Programs

Programs are sets of instructions that tell SpeechMiner what content to try to identify in the audio of a particular type of call. Each type of call that SpeechMiner analyzes should have its own custom-designed Program. For example, each sales campaign should have a Program that defines how calls that are part of the campaign should be processed. Conversely, every call that is received by SpeechMiner is automatically assigned a Program before it is processed.

Programs can configure SpeechMiner to perform the following types of content processing:

- **Speech:** Transcribing all of the speech it recognizes in a call
- **Topics:** Identifying speech or text that indicates a specific intent by searching for predefined terms in the call audio
- **Non-linguistic characteristics:** Identifying non-verbal parts of a call, such as silence, a busy signal, a key press, or caller-agitation

A Topic is a list of alternative phrases ("terms") that reflect a particular intent. Programs can include multiple Topics; SpeechMiner searches for all of the terms in all of the Topics when it processes calls in a Program.

Each Program is organized as a structure diagram that links content types in a consecutive string to mimic the expected flow of the conversation. The diagram is used to tell SpeechMiner where in a call the content must be found in order to match the requirements. For example, a structure diagram could show a "Loan Offer" Topic at the beginning of a call, followed by a "Disclaimer" Topic, and, finally, a "Contact Information" Topic.

See also

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Events: Topics and Non-Linguistic Data

Events are specific types of call content that are identified by SpeechMiner in calls. SpeechMiner can identify linguistic Events - that is, Topics - in all types of calls, and certain types of non-linguistic Events in calls.

Topics

A Topic represents a specific business idea that you want to detect in analyzed calls. For example, if you want to identify calls in which the customer wishes to cancel an account, you could create a Topic named Cancellation.

Once a Topic is defined, you populate it with terms - phrases that correlate with the idea the Topic was meant to capture. For example, you could add the following terms to the Cancellation Topic:

- "Close out my account"
- "I need to cancel"

Topics can contain one or more terms, but at least 15 terms are usually necessary to define a useful Topic. A Topic can even contain hundreds of terms, if necessary. All of the terms should be concrete ways of identifying the idea represented by the Topic in a conversation.

Topics are defined globally for your entire SpeechMiner system. In order to use them, they must be linked to Programs. When a Topic is linked to a Program, SpeechMiner searches for the terms of the Topic in calls that belong to the Program. If it finds one of the terms, it registers the Topic as found in that location in the call.

Each Topic Event that is identified by SpeechMiner in a call has a start time and an end time, a name and a type. For example, if a Topic called "Loan Offer" is identified by the term "can offer you a loan," the start time is when the agent began saying "can," the end time is when the agent finished saying "loan," the name is "Loan Offer," and the type of Event is "Topic."

Non-Linguistic Events

Non-Linguistic Events are sounds other than speech. SpeechMiner automatically identifies non-linguistic Events in calls, as follows:

- **Dial Tone:** A dial tone
- **Ringbolt:** A signal used in PSTN (Public Switched Telephone Networks - standard "land lines") to indicate that the line is being called or an incoming call is present.
- **Silence:** Silence, usually indicating that the **Mute** button was held down on one of the handsets
- **Busy Tone:** A busy signal
- **Music and Noise:** Music or noise, generally indicating the call was on hold
- **DTMF:** Key press on a touch-tone phone. 16 different keys can be identified using DTMF (Dual Tone Multi Frequency)

In addition, when you configure a Program, you can choose whether SpeechMiner should also identify agitation - non-verbal expressions of frustration and anger, such as deep sighs, grunts or rapid changes in pitch.

Each non-linguistic Event that is identified by SpeechMiner has a start time, an end time, and a type. For example, if SpeechMiner identifies silence in a call, this is a non-linguistic Event whose start time is the beginning of the silent period, whose end time is the end of the silent period, and whose type is "Silence."

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[Call Classification: Categories](#)
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Call Classification: Categories

During call classification, Events and metadata are used to assign one or more Categories to calls. Call classification takes place after call audio is analyzed and Events are identified. The Category classification enables SpeechMiner to find calls with specific characteristics when users request them and to perform statistical analysis on groups of calls based on their characteristics.

Categories are defined and managed in SMART using a variety of criteria:

- **Events:** Information about the types of Events that were found in calls during analysis
- **Call content:** Text that is found in the transcripts of calls that are generated by SpeechMiner during call processing
- **Metadata:** Information about calls that was received from the recording system, such as the name of the agent or call center
- **Program information:** The name and type of Program that was used to analyze the call
- **Other Categories:** Information about other Categories that are already assigned to the call

Categories are defined globally for the entire SpeechMiner implementation and are automatically assigned to calls during processing. When changes are made to Category definitions, the entire database of calls is re-Categorized to ensure the Category assignments of all calls match the new definitions.

SpeechMiner also supports manual Categories. Manual categories are created and named in SMART but they do not have any conditions assigned to them in SMART. Calls are assigned to these Categories manually by SpeechMiner users when they review them. For example, a manual category called For Review could be defined in SMART and then used by managers to create a group of calls that require additional handling.

In order to make it easier to manage large numbers of Categories, they can be grouped hierarchically into parent Categories and sub-Categories. For example, a parent Category could be used to group a number of Categories that are relevant to a particular sales campaign. If a call is assigned to a sub-Category, it is automatically also assigned to its parent Category.

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Language Support

SpeechMiner can process calls in a variety of languages. Support for particular languages varies from organization to organization. Topic text may be typed in any supported language, but the SMART interface (menus, buttons, and labels) are only available in English.

Please contact [Genesys Client Solutions](#) for information on available language packages.

See also

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Overview of the Interface

This section provides a general overview of the SMART interface: how to log in, the layout of the main window, and some standard features that are available whenever you are working with SMART. Later chapters provide details about working with the interface to create and manage Programs, Categories, and their components.

See also

[Programs](#)

[Events: Topics and Non-Linguistic Data](#)

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Logging In

SMART is a Windows application that must be installed on your computer in order for you to be able to work with it. In addition, you must log into SMART with a user account that has permissions for working in SMART. The user account may be a SpeechMiner account, a Windows account, or a Genesys account.

You may have permissions for all SMART functions or only for some of them. When you log in, SMART automatically checks the roles and groups that are assigned to your account. The roles tell the system what SMART functions and features you can access. Only those items you have permissions to view are displayed in the interface when you are logged in. For additional information about your SpeechMiner user account and permissions, see the SpeechMiner user manual or contact your SpeechMiner system administrator.

SpeechMiner stores recorded calls and information about their contents in a database. The system can work with more than one database. For example, it may have one database for actual work and another for system-testing purposes. When you log into SMART, you can specify which database you want to use. In general, you will not need to switch databases often, if at all. SMART saves the information about the last database you worked with and automatically connects you to that database the next time you log in unless you choose to change the database settings.

The connection between SMART and the database can be encrypted to ensure that confidential data cannot be intercepted and viewed by unauthorized people. This option is configured by the system administrator on the SQL database server. Three encryption settings can be defined there:

- Always use encryption
- Never use encryption
- Use encryption when the user requests it

If the latter setting is implemented in your system, you can choose to use an encrypted connection when you log into SMART. If the database server is configured to always encrypt or not to encrypt at all, you cannot change this option when you log into SMART.

To log into SMART:

1. On the Desktop of the computer, double-click the SMART icon. The SMART Title screen opens, and then the **SMART - Login** dialog box appears.



SMART icon



SMART Title screen



SMART - Login dialog box

2. Select the type of user account you want to use to log into SpeechMiner:

- **SpeechMiner Authentication:** Use a username and password that are managed by SpeechMiner.
- **Windows Authentication:** Use the username and password you used to log into Windows.
- **Genesys Authentication:** Use a Genesys username and password.

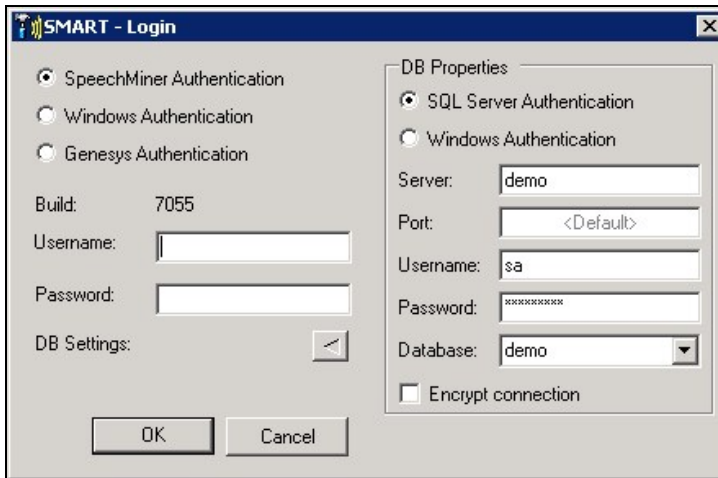
Note: If you are not sure which option to choose, consult your system administrator.

3. In the **Username** and **Password** fields, type your username and password.

Note: If you are logging in using Windows Authentication, your username and password are inserted automatically, and the username is in the form **domain\username**.

4. If this is the first time you are opening SMConfig on this computer, or if you want to change the existing database settings, click the **DB Settings** arrow. The **Login** dialog box expands and displays the database settings.

Note: If you do not need to set or modify the database settings, skip this and the next step.

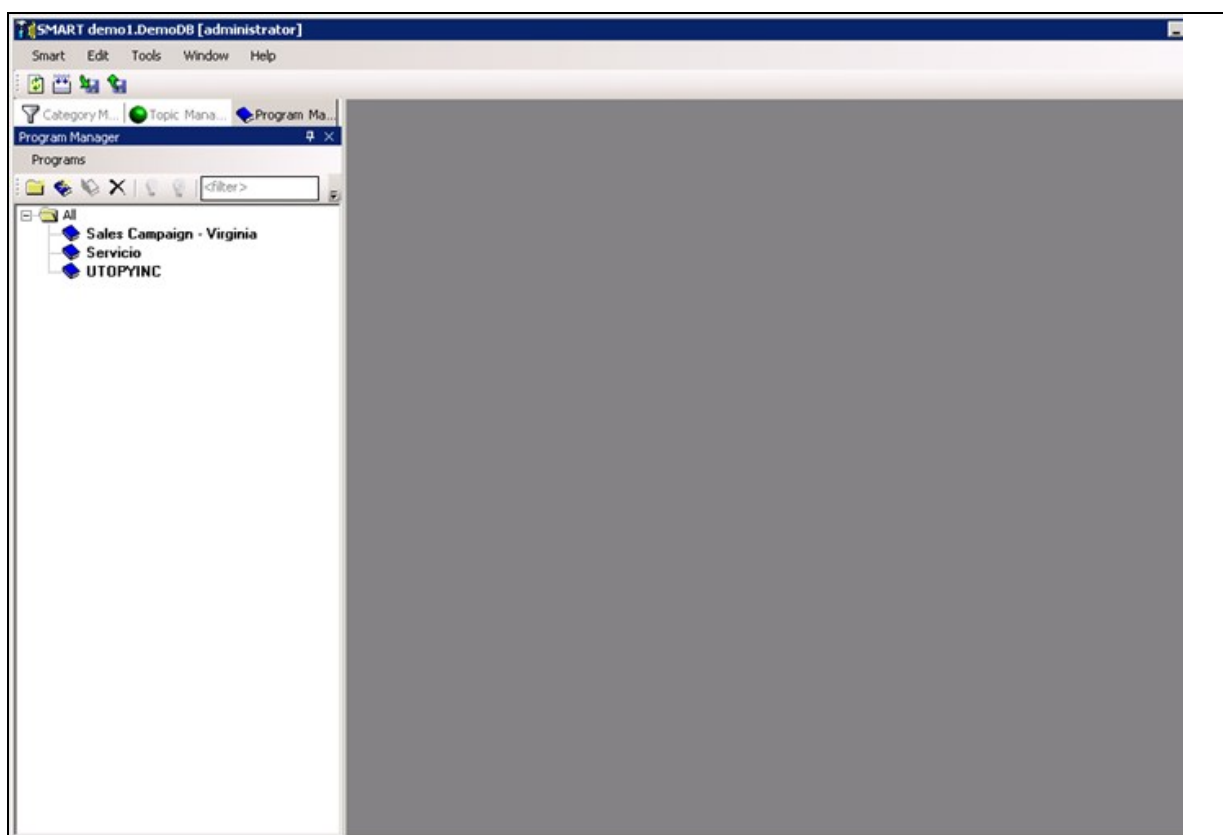


Expanded Login dialog box showing database settings

5. Fill in the fields as follows.

Field	Description
SQL Server Authentication / Windows Authentication	Select SQL Server Authentication if the username and password for accessing the database are managed on the SQL server. Select Windows Authentication if you log into the database using the same username and password you used to log into Windows. Note: If you are not sure which option to choose, consult your system administrator.
Server	The name of the database server Note: If the database is a named instance on the server, enter both the server name and the instance name, in the format <code>server_name\instance_name</code> .
Port	The port to use to connect to the database server Note: This should normally be left as <default>, even if the database is a named instance.
Username	The username to use to connect to the database Note: This field is not available when Windows Authentication is selected. In this case, the username is automatically taken from the username used to log into Windows.
Password	The password to use to connect to the database Note: This field is not available when Windows Authentication is selected. In this case, the password is automatically taken from the username used to log into Windows.
Database	The name of the database
Encrypt connection	If encrypting the connection to the database is optional in your system, select this option to activate encryption. Note: If encryption is always turned on in your system, selecting or clearing this option will have no effect. If encryption is always turned off in your system, selecting this option will prevent SMConfig from connecting to the database server and you will not be able to log in. In this case, an error message saying, "Could not connect to database. Please check database settings," will appear when you click OK .

6. Click **OK**. You are logged into the system, and the main SMART window is displayed.



Main SMART window

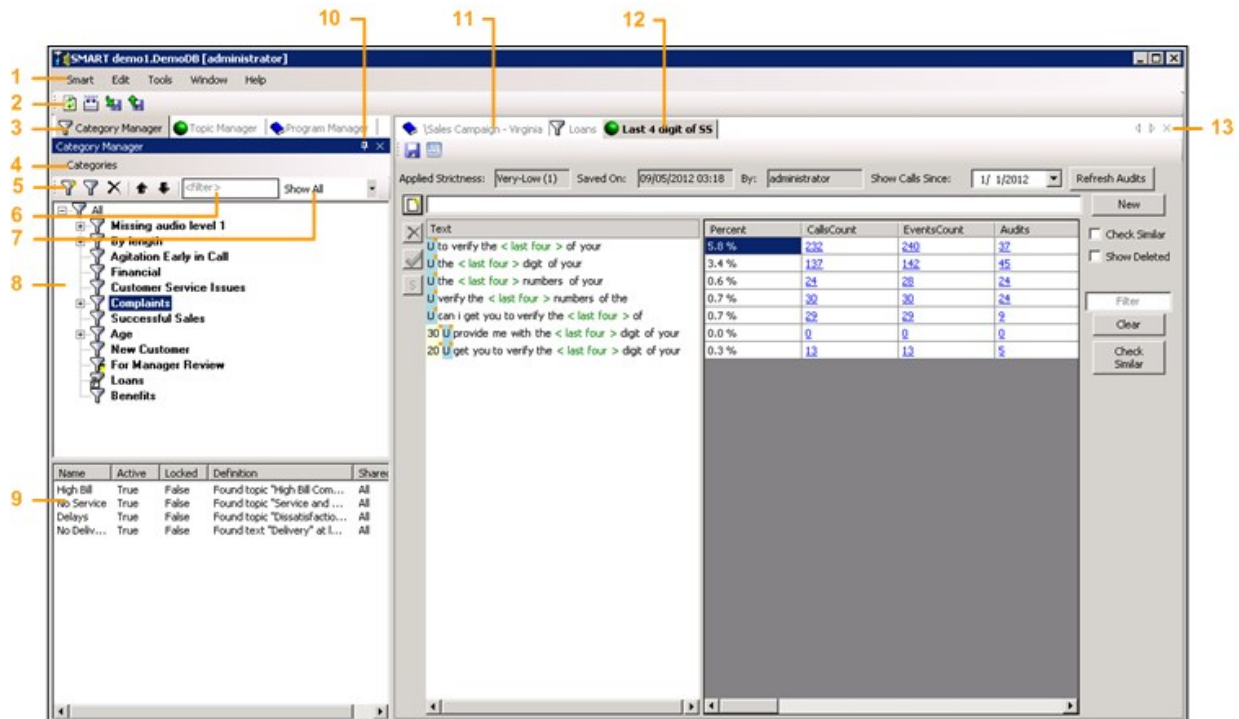
See also

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


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Overview of the Main Window

The main SMART window contains the following elements:



Element	Number in Illustration	Description
Main Menu	1	A menu bar providing access to some of the application options
Quick Access Bar	2	Buttons providing quick access to selected options from the SMART menu: <ul style="list-style-type: none"> Refresh: Updates the display to include all of the latest changes made by SMART users working with the system Apply: Opens the Apply dialog box, which allows you to apply the latest definitions that are saved in SMART to SpeechMiner Import: Opens the Import dialog box, which allows you to import definitions that were previously exported from a SMART system Export: Opens the Export dialog box, which allows you to export definitions to a file; the definitions can be imported from the file to any SMART system
Tabs	3	Tabs for selecting the type of manager to open: Categories, Topics, or Programs: <ul style="list-style-type: none"> Click a tab to open the required Manager. The tree list (no. 8) displays the items in the selected group, and the tab menu button and tree-list controls for the selected manager appear above the tree list.
Tab menu button	4	Click to open a menu for managing items in the currently displayed tree list (also available by right-clicking anywhere in the tree list)
Tree-list menu bar	5	Controls for managing the items in the tree list <p>Note: If the left pane is not wide enough to display all of the items in the menu bar, a dropdown menu containing all of the hidden options is added on the right of the menu bar. Click the arrow () to open the menu and access the hidden options.</p>
Filter text box	6	Enables you to hide items that are not of interest so that they are temporarily not included in the tree list: <ul style="list-style-type: none"> Type a sequence of one or more characters. Items that do not contain the sequence are not displayed in the tree list.

		Note: This option works in conjunction with the Filter button (no. 7); only those items that contain the specified character sequence and also belong to the selected filter group are displayed.
Filter button	7	<p>Enables you to hide items that are not of interest so that they are temporarily not included in the tree list:</p> <ul style="list-style-type: none"> Click the arrow and select the desired filter. The tree list is updated in accordance with your choice. <p>Note: This option works in conjunction with the Filter text box (no. 6); only those items that belong to the selected filter group and also contain the specified character sequence are displayed.</p>
Tree structure	8	<p>Expandable list of items in the selected tab group</p> <p>Note: To change the width of the left pane, drag the right border left or right.</p>
Child Categories	9	<p>Display of the child Categories of the Category selected in the tree list.</p> <p>Note: This area is only displayed when the Category Manager is open in the tree structure.</p>
Autohide button	10	<p>Enables you to hide the left panel when it is not in use:</p> <ul style="list-style-type: none"> When autohide is turned off, click  to turn it on. The left panel is hidden whenever your mouse is not over it, and the tabs are moved to the left edge of the window. Click a tab to open the left panel and display the relevant Manager. When autohide is turned on, click  to turn it off. The left panel remains open all the time.
Window tabs	11	<p>Multiple items of all types can be open in SMART at one time. A tab is displayed for each open window. Click the appropriate tab to view a particular window.</p> <p>Note: Alternatively, to view a window, select it in the main menu under Window.</p>
Selected tab	12	The tab of the window that is currently displayed
Window-tab controls	13	<p>Controls for the Window tabs:</p> <ul style="list-style-type: none"> If many windows are open, some of the window tabs may not be visible. Click  or  to scroll the tab bar to the left or right. To close the selected window tab, click .

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Organizing Items Hierarchically


Each of the Managers - Categories, Topics, and Programs - enables you to organize items in a hierarchic fashion. Topics and Programs can be contained in folders, and Categories can contain sub-Categories. The hierarchic organization is designed to help you manage large numbers of items. For example, if your call center is involved in sales campaigns and handles customer service calls from customers, you could create folders for each sales campaign and each type of customer-service issue.

The hierarchic organization of Categories has an additional, functional purpose. When a sub-Category is assigned to a call by SpeechMiner, its parent Category is also automatically assigned to it. For example, if the Category Sales Campaigns has the sub-Categories Spring Campaign and Summer Campaign, whenever Spring Campaign is assigned to a call, Sales Campaigns is also assigned to it.

Note: For simplicity, in this page, folders and parent Categories are called containers.

You can create new items in containers or move existing items to new containers or from one container to another.

To create a folder in the Topics or Programs Manager:

1. In the tree list, select the folder in which you want to create the folder. To create a top-level folder, select the **All** folder.
2. In the tree-list control bar, click . A new folder is added under the selected folder. It is initially called "new folder."
3. Type a name for the new folder, and then press **Enter**. The name is applied.


Any existing Category can be used as a parent Category simply by creating or placing a sub-Category in it. The simplest way to create a parent Category is to create a new blank Category.

To create a parent Category:

- Place a sub-Category in an existing Category. The Category in which you placed the sub-Category becomes a parent Category.

Note: Parent Categories cannot have any properties (i.e. they have a name but no definition). If you use an existing Category as a parent Category, any properties it has when the first sub-Category is added to it are automatically removed.

To create a new item in an existing container:

1. Select the container.
2. In the tree-list control bar, click the button that opens a new item of the current type. For example, if you are creating a new Program in the Program Manager, click . A dialog box or screen opens where you can define the properties of the new item. For detailed information about how to do this, see the relevant section in this manual.

To move an item to a container or from one container to another:

- Drag the item to the target container.

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Locking and Unlocking Items

When a user opens an item in SMART, it is automatically locked to other users. This means other users can view it but cannot save changes to it. This prevents situations in which two users attempt to edit the same item simultaneously.

Users can also lock items manually, without opening them, to ensure that no one changes them. In this case, the lock is not canceled until it is unlocked manually. And users with the required permissions can also unlock items that were locked by other users.

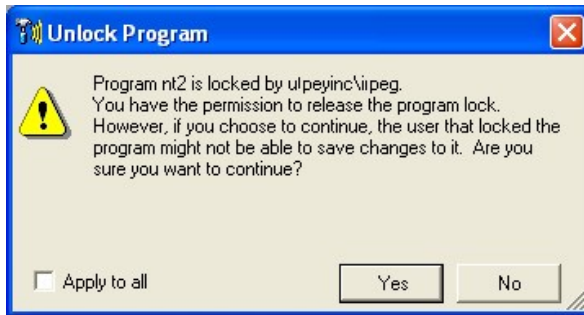
Note: Changes to items cannot be applied in SpeechMiner if the items are locked. Although changes to Programs can be applied even if one or more of their component Topics are locked, it is highly recommended to avoid doing so.

To manually lock one or more items:

1. In the tree list, select the items.
2. Right-click and then select **Lock [item type]**.

To manually unlock one or more items:

1. In the tree list, select the items.
2. Right-click and then select **Unlock [item type]**. For each selected item, if you are the user who locked the item, it is unlocked immediately. Otherwise, a confirmation prompt appears for each item:



3. Select **Yes** to unlock the item. The item is unlocked. If additional locked items were selected, a prompt appears for the next item. Repeat the process until you have confirmed the unlocking of all the selected items.

Note: If you want to unlock all of the selected items without confirming a prompt for each one, select **Apply to All** before you select **Yes**.

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Inserting Special Characters

You can type the special characters listed below by using the specified key combinations. This is primarily necessary when you are typing a Topic in a supported language that uses accented characters.

To enter a special character:

1. Make sure **Num Lock** is on.
2. Hold down the **ALT** key and type the specified number.
3. Press **Enter**. The character is inserted into the text.

Character	Key Combination
á	ALT 160 or ALT 0225
é	ALT 130 or ALT 0233
í	ALT 161 or ALT 0237
ó	ALT 162 or ALT 0243
ú	ALT 163 or ALT 0250
Á	ALT 0193
É	ALT 0201
Í	ALT 0205
Ó	ALT 0211
Ú	ALT 0218

ü	ALT 129 or ALT 0252
Ü	ALT 154 or ALT 0220
ñ	ALT 164 or ALT 0241
Ñ	ALT 165 or ALT 0209
ı	ALT 168 or ALT 0191
İ	ALT 173 or ALT 0161
¼	ALT 172
½	ALT 171
°	ALT 167

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Saving and Applying Changes

Although SMART is a stand-alone application, it only exists in order to configure SpeechMiner. When you make changes in SMART - creating new items, or changing or deleting existing items, you save the changes in SMART as you proceed, but they do not affect the call-processing performed by SpeechMiner until they are applied. If you apply your changes, the instructions that are followed by SpeechMiner are updated to match your changes, and all the calls in the database are re-categorized.

Note: Calls can also be reprocessed following changes to SMART using the SpeechMiner browser-based interface. For additional information, see the SpeechMiner manual.

For additional information about applying changes, see [Applying Changes](#).

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Typical Workflows

In general, Genesys technical staff performs the entire initial set up of customer implementations of SpeechMiner on site, including the initial configuration in SMART. Genesys professional staff is also available to modify your company's implementation, including the instructions defined in SMART, as required. This means that users do not normally build the system of instructions that are defined in SMART from scratch. In fact, if you wish, you can leave all necessary updating to Genesys. However, if you wish to do so, you can make moderate changes to SMART on your own, as explained in this manual. Typically, you will want to make slight modifications to Topics based on the accuracy of the results they are achieving, or define new Programs for new call campaigns or procedures based on existing ones.

Therefore, typically, you will perform the following tasks when you work with SMART:

1. Open existing items - Categories, Topics, Programs - in order to modify them.
2. Create new items, either from scratch or by copying existing items, and define their properties.
3. Add new Topics to a Program, and define the structure of the Program (by specifying when the items are expected to occur in the timeline of a call).
4. Save changes to items as you modify them, by clicking a **Save** or **OK** button.
5. Optionally, test the changes by applying them to a demo database.
6. Apply changes to SpeechMiner when you have completed the modification process.
7. Reprocess selected calls through the SpeechMiner browser-based interface.

Other tasks that you may have occasion to perform are:

- Rolling back the current set of instructions to an earlier set, if parts of the newer set were only relevant for a limited time, or changes made were not useful
- Importing an existing set of instructions to SMART
- Exporting the current set of instructions from SMART to a file. This is typically done for one of the following reasons:
 - To send the output to another location within your company for importing into a different SMART implementation
 - To send the output to Genesys staff for testing or when you are having a problem with the system
 - To create a backup copy of the set of instructions.

See also

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Managing Topics

A Topic is a subject that you want SpeechMiner to find in a call. A Topic definition consists of a collection of phrases ("terms") that may be used in a call when the subject is being discussed. For example, the Topic Cancellation can be defined to include a list of terms such as "close out my account" or "I need to cancel."

Topics are defined globally for the SpeechMiner system, and then included in one or more Programs as required. When you include a Topic in a Program, SpeechMiner searches for all of the terms included in the Topic's definition in all calls that belong to the Program. When one of the terms is found, SpeechMiner identifies it as a linguistic [Event](#) indicating that the Topic has been found.

See also

[Welcome](#)
[Overview](#)
[Managing Programs](#)
[Managing Categories](#)
[Applying Changes](#)
[Managing Version History](#)
[Exporting and Importing](#)

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Creating an Effective Topic

To be effective, a Topic must be well-defined. Since people use many different terms to express the same idea, you should try to include as wide a range of alternative terms as possible. To get ideas for what to include, listen to existing calls about the subject or similar subjects, read e-mails that relate to them, and consult agents who interact with customers.

In many cases, Topics can benefit from fine-tuning after they have been applied to calls and the call-auditing process takes place. (For information about call auditing, see the SpeechMiner User Manual and [Auditing a Topic](#) below.)

Here are a few suggestions to help you get started when defining a Topic:

1. **Business Problem:** Before you begin listing terms, define the data you want to collect in 3-4 sentences. Think about the intent that the terms you are collecting should reflect, and be as specific as possible.
2. **Terms:** List as many common terms as you can that are frequently used to express the intent. Include as many variations of the term as you can.
3. **Term length:** Longer terms are easier for SpeechMiner to identify than shorter terms, so try to use terms that include at least 4-6 words and at least 20 characters. Terms can contain up to 100 characters. As a rule, the longer the term, the more accurately it will be identified by SpeechMiner. However, fewer events are found for longer terms. Conversely, the shorter the term, the more events will be found, but the accuracy will be lower.
4. **Synonyms:** Try to think of synonyms for words that appear in the terms, and list variations of the terms by using the synonyms in place of the original terms. For example, if you are looking for conversations in which closing an account is discussed, list all terms with the verbs "cancel" and "close":
 - "want to cancel my account"
 - "want to close my account"
 - "need to close my account"
 - "need to cancel my account"
5. **Short words:** Remove short words from the beginnings of terms whenever possible. For example, instead of "I want to reduce the rate," use "want to reduce the rate."
6. **Keywords:** When you select a keyword in a term, you give it extra weight, so that SpeechMiner specifically looks for that word when processing calls. It is not always necessary to specify a keyword. If no keyword is selected for a term, SMART automatically marks the longest word in the term as the keyword. For example, in the term "I already called to cancel my account," if you do not select a keyword, SMART automatically selects the word "already" as the keyword.

However, it is best to choose the keyword for each term if you can, because this ensures that the correct keyword is selected. Thus, in the example above, you should select "cancel" as the keyword. Note that when a keyword is selected for a term, it is

automatically applied to the entire Topic. Do not select the same keyword for another Topic.

In general, only one keyword should be selected per term; if two words always appear together, like credit card', you can select them both as the keyword.

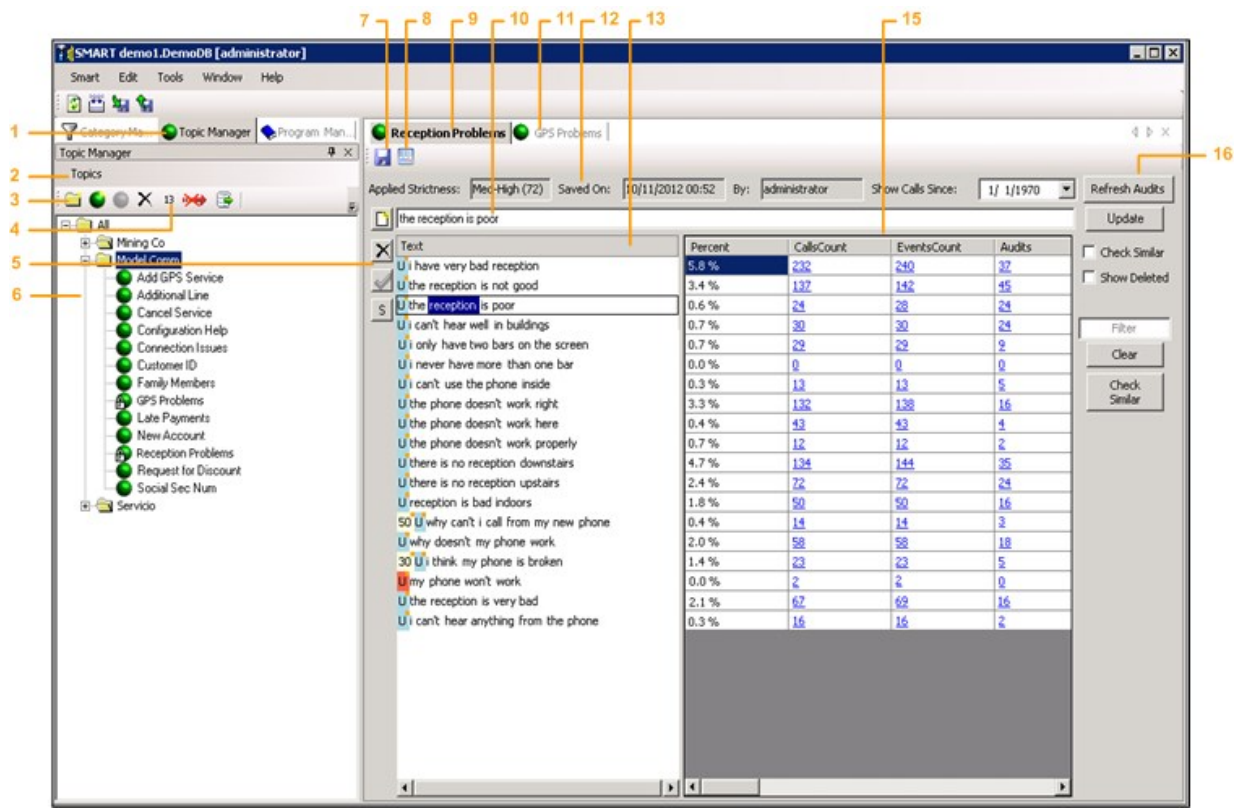
See also

- Overview of the Topic-Manager Interface
- Defining a New Topic
- Modifying a Topic
- Auditing a Topic
- Managing Secured Topics
- Deleting Topics

Home > Managing Topics > Overview of the Topic-Manager Interface

Overview of the Topic-Manager Interface

The standard version of the Topic Manager contains the elements in the illustration below.



Element	Number in Illustration	Description
Topic Manager tab	1	Select this tab to display the Topic Manager
Topics menu	2	Click to open a menu for managing items in the tree list (also available by right-clicking anywhere in the tree list)
Tree-list menu bar	3	Controls for managing the items in the tree list (i.e., shortcuts to some of the Topics menu items) and filtering them

		Note: If the left pane is not wide enough to display all of the items in the menu bar, click the arrow (↗) on the right to access the hidden options.
Topic counter	4	Number indicating how many Topics are in the selected folder. If no folder is selected, the total number of Topics in the database appears.
Term controls	5	Buttons for managing selected items in the list of terms
Tree structure	6	Expandable list of Topics
Save button	7	Click to save changes that were made to the displayed Topic; changes are saved in SMART, but not applied in SpeechMiner
Audit Report button	8	Click to open the Topic Analysis - Audits report template in the SpeechMiner web interface. Note: Only available if you have auditing permissions.
Displayed Topic tab	9	Tab of the currently displayed Topic Note: Multiple windows can be open at one time in SMART. Click a tab to view the desired window.
Term field	10	Text field in which you can type new terms or edit existing terms; if an existing term is selected, it is displayed here
Open Topic tab	11	Tab of a Topic that is open but not currently displayed Note: Click the tab to display the Topic.
Topic Properties	12	Information about the strictness level required for the Topic, when the Topic was last saved, and by whom
Term list	13	List of terms in the Topic
Selected term	14	Term that is currently selected and displayed in the Term field (#10)
Auditing information	15	Auditing information for each term in the Term list (see Auditing a Topic). Note: If you do not have auditing permissions, this information is not displayed.
Term-list controls	16	Buttons and options for working with the list of terms

See also

[Creating an Effective Topic](#)
[Defining a New Topic](#)
[Modifying a Topic](#)
[Auditing a Topic](#)
[Managing Secured Topics](#)
[Deleting Topics](#)

Home > Managing Topics > Defining a New Topic

Defining a New Topic

You can define a new Topic by opening a blank Topic and adding terms to it. Once you have done this, you can select a keyword for each term. Finally, you should save the Topic in SMART.

[Creating a Blank Topic](#)
[Adding Terms](#)
[Marking Keywords](#)

[Saving the Topic](#)

See also

[Creating an Effective Topic](#)
[Overview of the Topic-Manager Interface](#)
[Modifying a Topic](#)
[Auditing a Topic](#)
[Managing Secured Topics](#)
[Deleting Topics](#)

Home > Managing Topics > Defining a New Topic > Creating a Blank Topic

Creating a Blank Topic

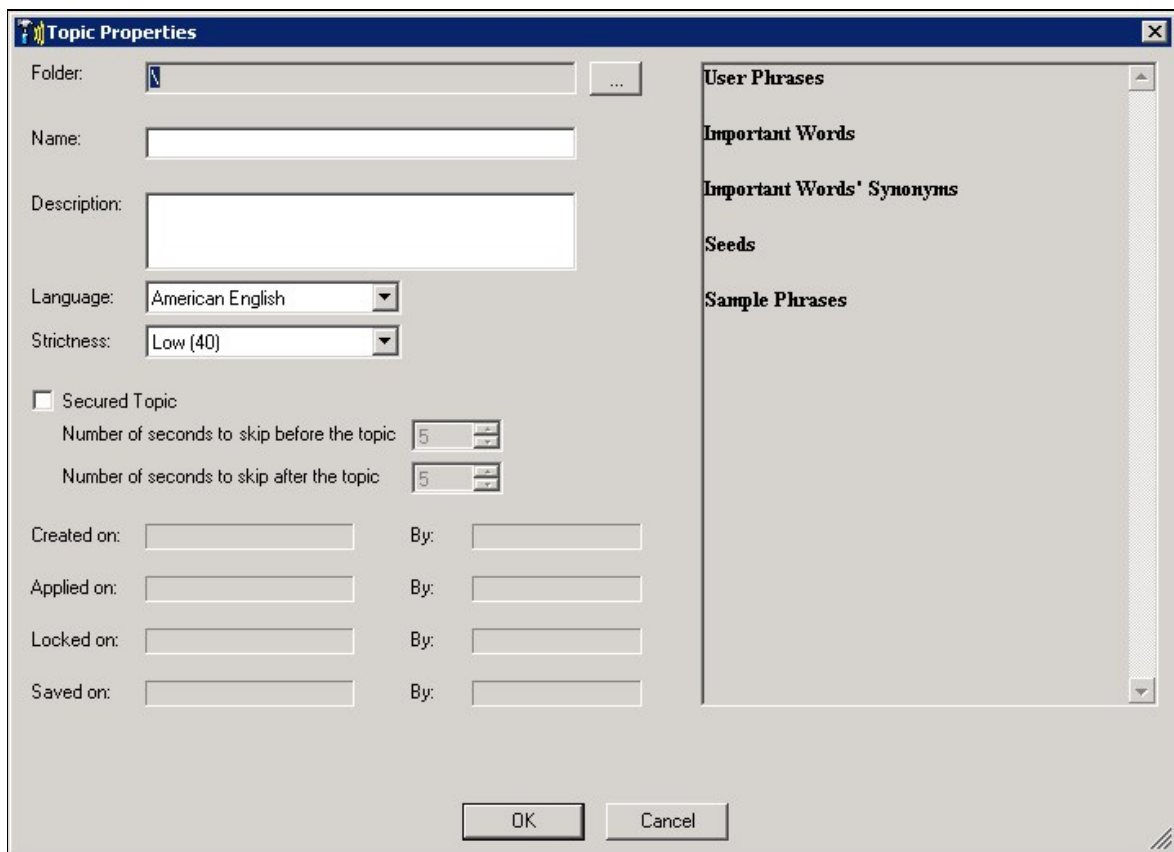
The first step in creating a new Topic is opening a blank Topic and defining its properties.

To open a blank Topic:

1. In the tree list, select the folder in which you want to create the Topic.

Note: For information about creating folders, see [Organizing Items Hierarchically](#). You can also move the Topic to a folder later.

2. In the tree-list controls, click  (New Topic). The **Topic Properties** dialog box opens.



3. Fill in the fields as follows:

Field	Description

Folder	Displays the folder in which the Topic will be placed. If you want to save the Topic in a different folder, click the ... button and select the folder.
Name	Enter a name for the Topic. (Do not include any special characters in the name.)
Description	Enter a free-text description for the Topic (optional).
Strictness	<p>Select the required level of strictness for the Topic. This defines how confident SpeechMiner must be when recognizing one of the terms in the Topic in order for it to identify it as a linguistic Event of this Topic. The confidence level must be at least the value specified in parentheses. For example, if you select Medium (65), the terms listed must be identified with confidence levels of at least 65 in order to be identified as Events of this Topic.</p> <p>SpeechMiner has a number of predefined confidence levels (Very Low, Low, Medium Low, Medium, Medium High, and High). You can select one of these, or, if you prefer, you can select Custom and then specify a custom confidence level (see below).</p> <p>Note: Confidence levels are assigned by SpeechMiner to each term it identifies during csll processing. They indicate how closely the term defined in the Topic matches the term that was discovered in the call.</p>
Confidence	<p>If, under Strictness, you selected Custom, specify the required level of strictness as a number in the range 1-100.</p> <p>Note: This field is only visible if Custom is selected under Strictness.</p>
Language	Select the language of the Topic.
Secured Topic	<p>Select this option if you want the Media Player to skip playback of this Topic for SMART users who do not have permission to hear confidential Topics. For example, if the Topic identifies the caller's credit card details, you can use this option to hide that information from users who are not authorized to hear it.</p> <p>Note: When you select this option, the two fields below it become active.</p>
Number of seconds to skip before the topic	<p>Specify how many seconds of playback before the Topic should be skipped when the Topic is not played back by the Media Player.</p> <p>Note: This field is only active when Secured Topic is selected.</p>
Number of seconds to skip after the topic	<p>Specify how many seconds of playback after the Topic should be skipped when the Topic is not played back by the Media Player.</p> <p>Note: This field is only active when Secured Topic is selected.</p>

Note: The other fields in the dialog box are automatically updated by SMART each time the Topic is saved.

- Click **OK**. The dialog box closes. The new Topic appears in the tree list and is opened in the right panel of the SMART window.

See also

[Adding Terms](#)
[Marking Keywords](#)
[Saving the Topic](#)

Home > Managing Topics > Defining a New Topic > Adding Terms

Adding Terms

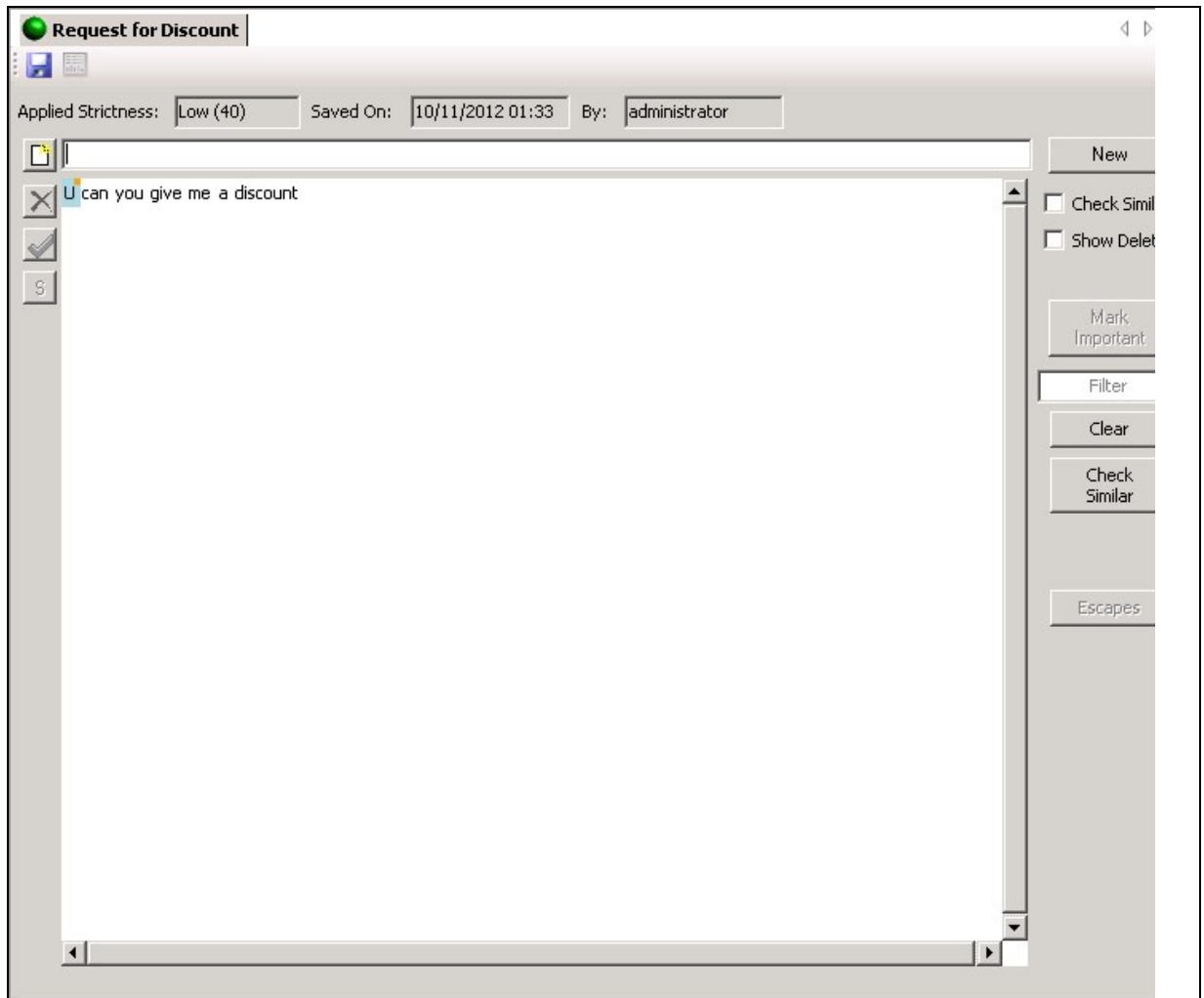
You can add terms to a Topic in one of the following ways:

- Manually typing terms, one at a time
- Pasting one or more terms from an external file, such as a Word or Excel file

SMART allows you to check whether terms you have added also appear in other Topics, and lets you set custom Confidence requirements for terms. In addition, SMART notifies you if a term is too short to be accurately recognized. Along with regular text, terms can include certain wildcards.

To manually add a term:

1. In the **Term** field above the list of terms, type the term.
2. Press **Enter**, or click the **New** button to the right of the text field. The term is added to the list.



Term added to Topic

To paste one or more terms:

1. Copy one or more terms from an external file, such as a text file or a Word file. Each term should be in a separate paragraph in the original file.
2. Right-click the **Term** field above the list of terms, and then click **Paste**. The last term in the list you pasted appears in the text field.
3. Click the **New** button. All of the terms you pasted are added to the Topic list.

Inserting Wildcards in Terms

Terms can include wildcards to represent certain phrases, characters, or words. For example, you can insert the wildcard [zipcode] into terms that would normally include zipcodes, like "my home zipcode is [zipcode]." Wildcards give you greater flexibility in defining terms, because they allow you to include general types of content in particular places in a term, rather than only specific words or phrases.

Wildcards are inserted into terms between square brackets. Two types of wildcards are supported: a general wildcard, [*], which replaces any word or phrase, and specific wildcards that represent particular types of things. In transcripts of calls and the text of other calls, when a term containing a specific wildcard is identified, the word or phrase appears. For example, [zipcode] is replaced with the actual zipcode. When a term containing the general wildcard is identified, SpeechMiner does not attempt to transcribe it, and instead simply inserts an ellipsis ("...").

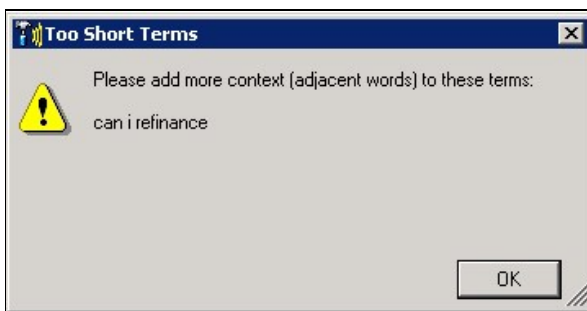
Note: Wildcards are not currently supported in the analysis of textual data, such as e-mails.

The following specific wildcards are supported in Topic terms:

Wildcard	Description
[alphanum]	Any alphanumeric string
[boolean]	Affirmation/Negation
[ccexpdate]	Credit card expiry date
[creditcard]	Type of credit card (optional) and credit card number
[currency]	Type of currency
[date]	Date
[digits]	Digits
[number]	Any number
[phone]	Phone number
[socialsecurity]	Social Security number
[time]	Time
[zipcode]	Zip code

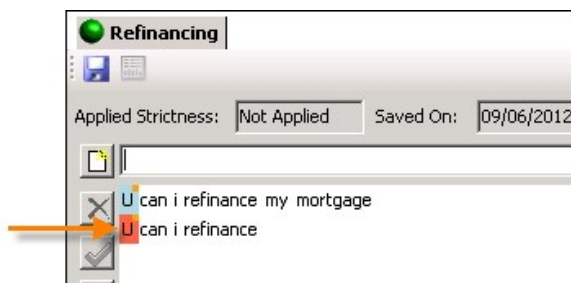
Short Terms

When you add a new term to a Topic, the system checks to see if the term is long enough to be accurately recognized in call audio. If it is not, a **Too Short Terms** warning message appears:



Too Short Terms message

The term is still added to the list, but a red icon (U) identifies it as too short.



Red icon identifying short term

Although you can leave the short term in the list as it is, the system will not necessarily be able to recognize it in a call. If you can, add additional words to the term. You may even want to add a number of variations to the term. For example, if the term is "can I refinance," you could modify it to "can I refinance my loan," and also add in the variations "can I refinance my mortgage" and "can I reschedule my payments."

To modify a term that is too short:

1. Click the term in the list. The term appears in the **Term** field above the list, and the **New** button to the right of the field become an **Update** button.
2. In the **Term** field, modify the term by adding additional words to it.
3. Click **Update**. The term is updated in the list.

If you try to [save](#) a Topic that contains terms that are too short, the system notifies you of the existence of the short terms and asks you how to handle them. You can choose either to keep them as they are or to delete them. (You can restore deleted terms later if you wish; see [Modifying a Topic](#).)

Checking for Other Occurrences of Terms

If you wish, you can include the same term in more than one Topic. If two Topics that contain the same term are linked to a single Program, the term is sought by SpeechMiner twice - once for each Topic - and, if it is found, it is marked twice. Nevertheless, you may wish to check whether an existing Topic already contains the same terms as those you have included in the Topic you are creating. If you find one, you may be able to use it, with or without modifications, instead of creating a new Topic.

SMART can check to see if other Topics contain any of the terms that are in the current Topic, in one of the following ways:

- Checking each term as you enter it into the list
- Checking all of the terms whenever you choose to do so

Checking the entire database of Topics for duplicate terms can require significant system resources. If you choose to check each term as you enter it, you may have to wait a while before you can enter the next term or perform other SMART actions. Checking all of the terms at once may therefore be more efficient.

To check each term as you enter it:

- In the term-list controls, select the **Check Similar** checkbox. Any terms you add when this option is selected are checked before they are inserted into the list. Terms that are duplicated elsewhere are still inserted into the list, but a flag (M) is inserted beside them and they are displayed in blue text until you perform another action.



Duplicated term

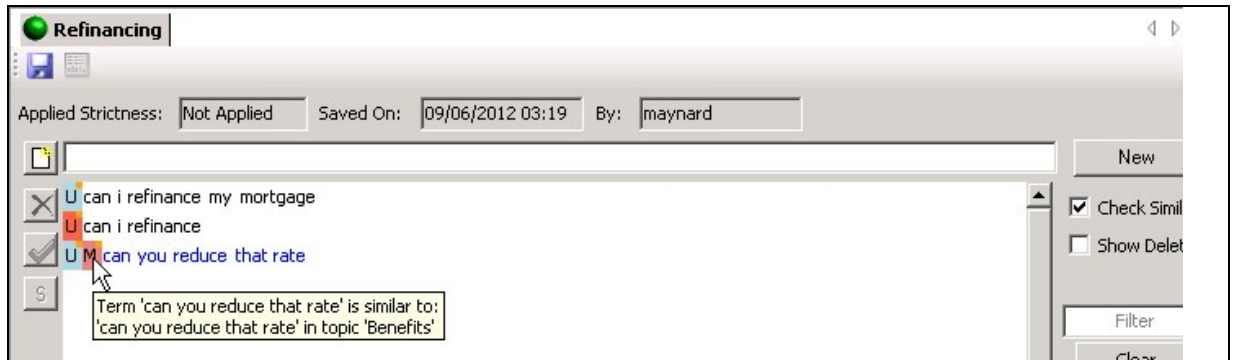
To check all of the terms that are currently in the list:

- In the term-list controls, click the **Check Similar** button. The terms in the list are checked one by one. A flag (M) is inserted beside each duplicated term, and they are displayed in blue text until you perform another action.

Regardless of which method you used to check for duplicate terms, you can see information about which Topics contain the duplicates.

To see which other Topics contain a duplicate term:

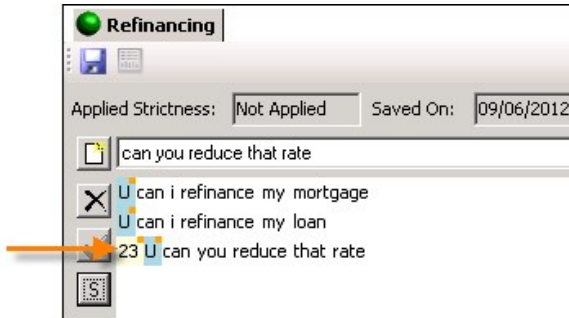
- Place your mouse pointer on the flag beside the term. A screen tip displays the details.



Information about a duplicate term

Customizing the Strictness of a Term

By default, each of the terms in a Topic are assigned the Strictness value that is assigned to the Topic (in the Topic's properties). You can change the Strictness values of individual terms if you wish. When the Strictness of a term has been customized, the custom level appears beside the term.



Term with a custom Strictness value

To set a custom Strictness value for a term:

1. In the term list, select the term. The **Set Strictness** button (S) becomes active.
2. Click the **Set Strictness** button. The **Term Strictness** dialog box opens.



Term Strictness dialog box

3. Select **Custom**. A value field opens.



Value field added to dialog box

4. Specify the required Strictness value
5. Click **OK**. The custom Strictness value is set for the term.

See also

[Creating a Blank Topic](#)
[Marking Keywords](#)
[Saving the Topic](#)

Home > Managing Topics > Defining a New Topic > Marking Keywords

Marking Keywords

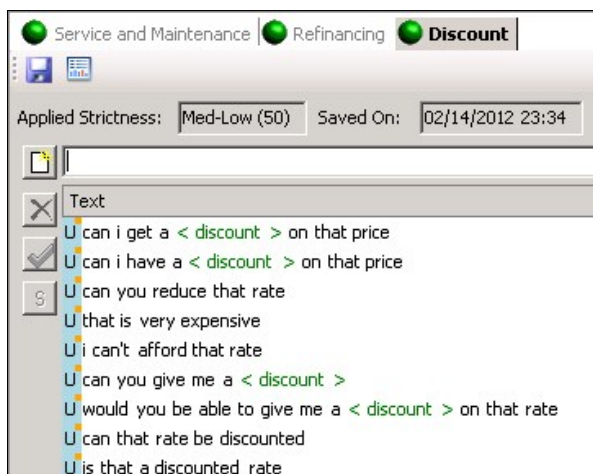
SpeechMiner searches for terms by keyword. If it finds a keyword, it checks to see if the other words in the term also appear as specified. The keyword of a term should reflect the intent of the term. SMART automatically chooses the keywords of terms if you do not select one yourself. However, it is best if you choose the keyword yourself, because this ensures that the correct keyword is selected. In general, only one keyword should be selected for each term; if two words always appear together, like credit card, you can select them as the keyword.

When you select a keyword in one term, SMART automatically selects the word as the keyword in every term in the list in which it appears. For example, if you select "discount," "discount" is selected in all the terms in the list (but "discounted" is not). If you add additional terms containing one of the selected keywords, those words are also marked.

Some keywords are easily mistaken for words that sound similar. You can define escapes for these keywords. When escapes are defined for a keyword, SMART double-checks the call audio to try to make sure the word is identified correctly.

To select a keyword:

1. In the term, click the keyword.
2. To the right of the list, click the **Mark Important** button. Pointy brackets are inserted on either side of the word, and the word is displayed in green in every term in which it appears.



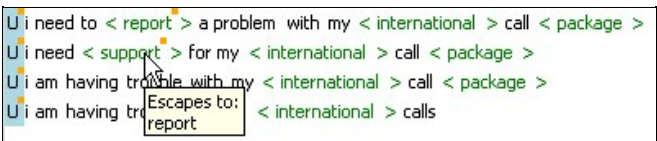
Terms with keywords marked

Escapes

Some keywords sound similar to other words, and may be misinterpreted by SpeechMiner during the recognition process. For example, when a speaker uses the term "I have to support this" in a call, SpeechMiner may mistakenly identify it as "I have to report this." To increase the accuracy of the recognition process, and thus minimize the number of False Positive identifications, keywords of this sort can be marked in the terms of a Topic as having escapes. Marking escapes for a keyword tells SpeechMiner that during the recognition process, it should recheck its identification of that keyword to verify it is not actually one of the other words listed as escapes for the keyword.

Escapes can be defined globally for all Topics in the current language, or locally for the current Topic. You can also define an escape that you want to save in the database, but deactivate it so that it is not implemented during the processing of any calls. If you do so, the escape will appear in the list of escapes that are defined for the word whenever the **Escapes** dialog box (see below) is opened for it, so that you can easily activate it as necessary.

When a keyword has escapes defined for it, an orange square (🟠) appears at the end of the keyword in the Topic definition. If you place your mouse pointer on the keyword, a pop-up opens and displays the escapes that are defined for the keyword in the Topic.



Keyword "support" with escape "report" defined for it

Note: For a keyword to be marked as having escapes, at least one escape must be active for it in the current Topic. This means the escape must either be activated globally for the language or locally for the Topic. Thus, if the keyword "support" has the escapes "report," "abort," and "distort" defined for it, with "report" activated globally, "abort" activated locally but only for a different Topic, and "distort" is defined but not active for any Topic, only "report" will appear in the pop-up.

To define escapes for a keyword:

- 1. Select the keyword. The **Escapes** button to the right of the list of terms becomes active.
- 2. Click the **Escapes** button. The **Escapes** dialog box opens.

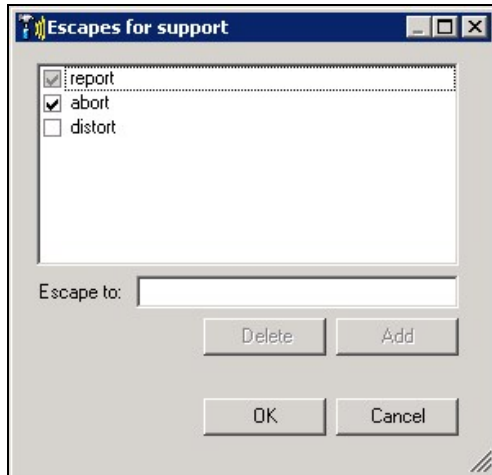


Escapes dialog box for the keyword "support"

- 3. Under **Escape to**, enter the word that is easily mistaken for the selected keyword.
- 4. Click **Add**. The word is inserted in the list of escapes for the keyword. It is initially activated only for the current Topic, as indicated by the checkbox beside it (see below).
- 5. Click the checkbox to change the activation setting, as necessary:

Checkbox	Description

<input checked="" type="checkbox"/>	Active locally (in the current Topic)
<input checked="" type="checkbox"/>	Active globally (in all Topics in the current language)
<input type="checkbox"/>	Not active in the current Topic (either because it is only active locally in other Topics, or because it is not active in any Topics)



Three escapes defined for "support" - one active globally, one active locally, and one not active in the current Topic

6. If you want to add additional escapes for the keyword, under **Escape to**, enter each one and click **Add**. Then, adjust their activation settings as necessary by clicking their checkboxes.
7. When you have finished defining the escapes for the keyword, click **OK** to close the dialog box.

To delete an escape:

1. In the Topic, select the keyword for which the escape is defined.
2. Click the **Escapes** button. The **Escapes** dialog box opens and displays a list of all the escapes that are currently defined for the keyword.
3. In the **Escapes** dialog box, select the escape word you want to delete.
4. Select **Delete**.
 - If the escape word is in use in other Topics, you are prompted to confirm that you want to delete it. Select **Yes** to confirm the deletion.
 - If the escape word is not in use in other Topics, you are not prompted to confirm the deletion; it is deleted immediately.
5. Click **OK** to close the dialog box.

See also

[Creating a Blank Topic](#)
[Adding Terms](#)
[Saving the Topic](#)

Home > Managing Topics > Defining a New Topic > Saving the Topic

Saving the Topic

Once you have added the required terms to the new Topic and marked their keywords, you can save the Topic in SMART. The first time you save a Topic, SMART offers the following options:

- **Create a new Category for the Topic:** If you choose this option, SMART automatically opens a new Category with the same name as the Topic, and configures the Category such that linguistic Events in which the Topic is recognized are included in the Category. (If you do not choose to do this at this point, you can manually open a Category for the Topic [Defining a New Category](#) or include the Topic in the properties of one or more existing Categories later; see [Managing Categories](#).)

- **Link the Topic to an existing Program:** If you choose this option, SMART adds the Topic to the selected Program. (If you do not choose to do this at this point, you can manually link the Topic to one or more Programs later; see [Managing Programs](#).)

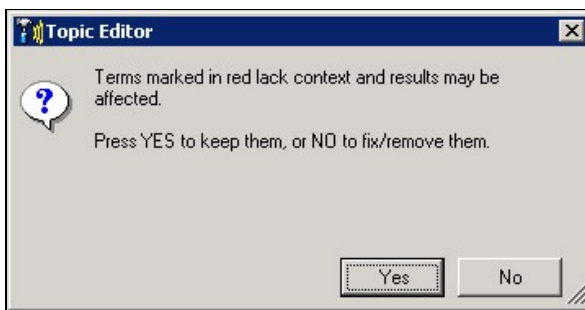
To save a new Topic:

1. To the upper-left of the list of terms, click  (**Save**). The **Topic Express** dialog box opens.



Topic Express dialog box

Note: If you try to save a Topic that contains terms that are [too short](#) to be effective, before the **Topic Express** dialog box opens you are prompted to choose how to handle them.



Prompt about short terms

2. If you want to create a Category for the Topic, select **Build a default category for this topic**.
3. If you want to include the Topic in a Program, select **Search this topic in program**, and then, in the dropdown list, select the Program.
4. Click **OK**. The Topic is saved in SMART and the options you selected are implemented.

See also

[Creating a Blank Topic](#)
[Adding Terms](#)
[Marking Keywords](#)

[Home](#) > [Managing Topics](#) > [Modifying a Topic](#)

Modifying a Topic

Modifying an existing Topic includes the following tasks:


- Managing the list of terms:
 - Filtering the list
 - Adding additional terms
 - Modifying existing terms
 - Deleting existing terms

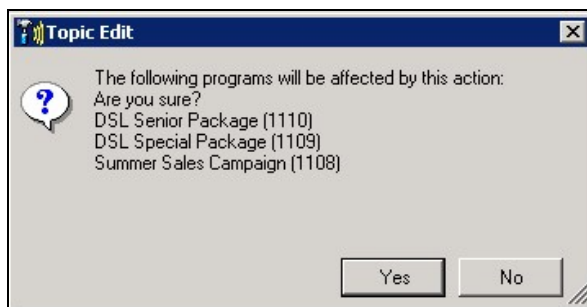
- Viewing and restoring deleted terms
- Changing the keyword selection
- Changing the properties of the Topic
- Moving the Topic to a different folder

Managing the List of Terms

In order to manage the list of terms in a Topic, you must open the Topic in the right panel.

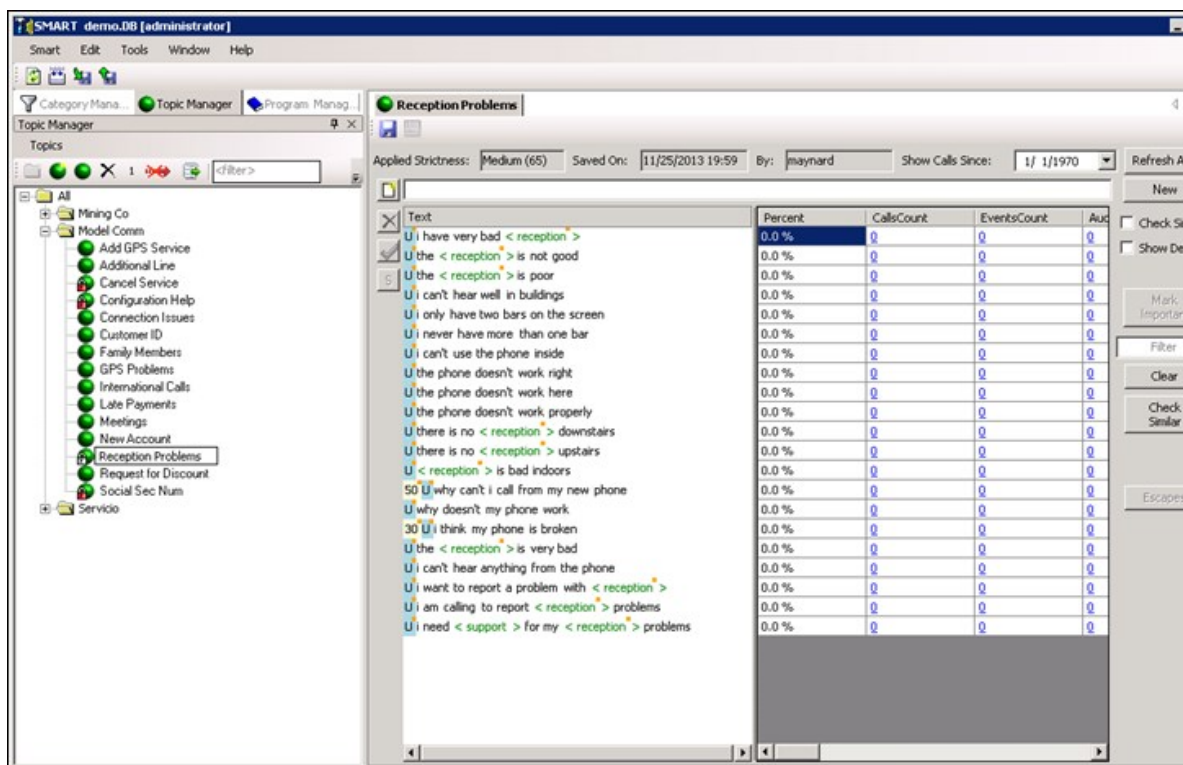
To open a Topic:

1. In the left panel, click the **Topic Manager** tab. The list of existing Topics is displayed in the tree structure.
2. Double-click the Topic, or select the Topic and then click  (**Open Topic**). If the Topic is linked to one or more Programs, a **Topic Edit** message appears, prompting you to confirm that you want to open the Topic.



Topic Edit message

3. In the **Topic Edit** message, click **Yes**. The Topic opens in a tab in the right panel, and the list of terms it contains is displayed.



Open Topic

Filtering the List of Terms

You can filter the display of terms so that only terms that include a specified text string are visible in the list. For example, if you only want to see terms that include the word "reduce" in any of its forms, you can limit the display to terms that include the string "reduc." Terms that include "reduce," "reduces," "reduced," and "reduction" will be displayed; all other terms will be hidden from view.

To specify a text string to use as a filter:

- To the right of the list, under **Filter**, type the text string. The list is filtered as you type.

To clear the filter:

- To the right of the list, click **Clear**.

Adding Terms

Adding additional terms can be done as explained under [Defining a New Topic](#).


Modifying Existing Terms

You can change the text of any term in the list. In addition, you can modify the Strictness of a term (see [Customizing the Strictness of a Term](#)).

To modify a term:

1. In the term list, select the term. The term appears in the **Term** field above the list, and the **New** button to the right of the field becomes an **Update** button..
2. In the **Term** field, modify the term as required.
3. Click **Update**. The term is updated in the list


To modify the Strictness value of a term:

1. In the term list, select the term, and then click the **Set Strictness** () button. The **Term Strictness** dialog box opens.
2. To use the default Strictness value for the Topic, select **Topic Strictness**. To set a custom value, select **Custom**, and then modify the value as required.
3. Click **OK**. The Strictness value is modified.

Deleting Terms

You can delete any term from the list. Deleted terms are not sought in calls, but they are nevertheless stored in SMART's database. You can view and restore them later, if necessary (see [below](#)).


To delete terms:

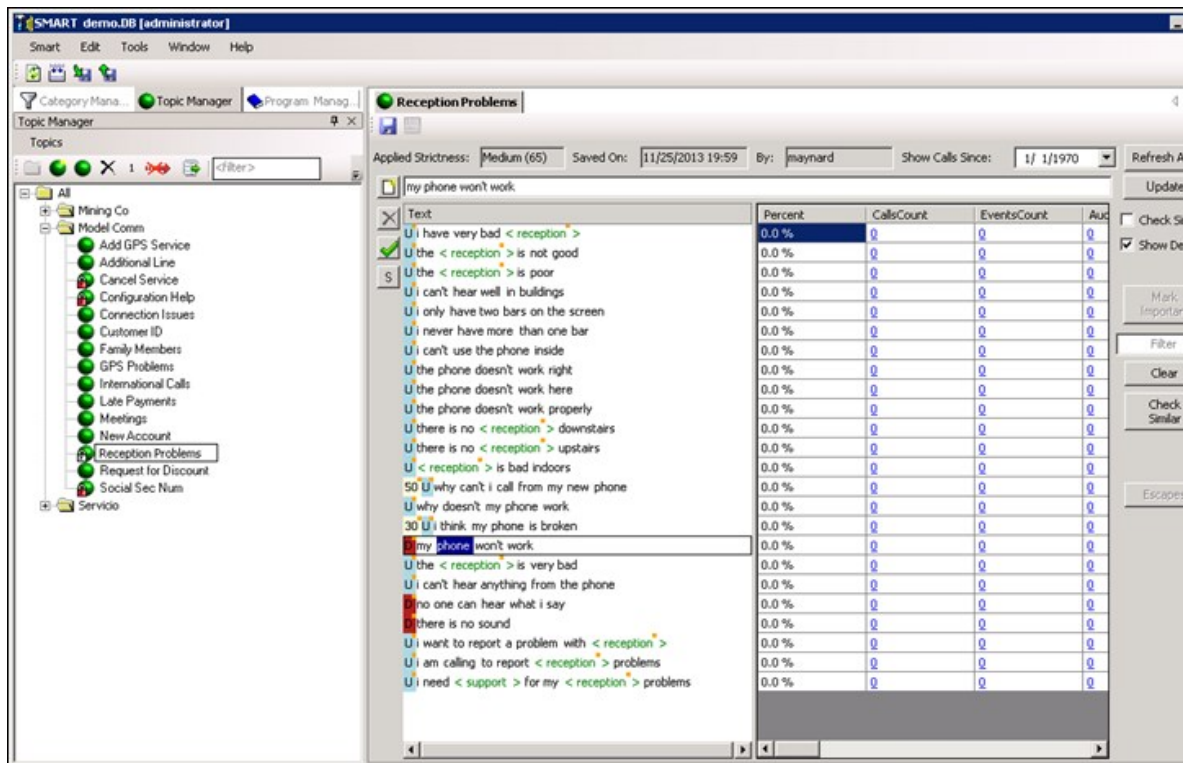
1. In the term list, select the terms. To delete multiple terms, hold down the **Ctrl** key and click each term.
2. To the left of the list, click  (**Delete**). The selected terms are deleted.

Displaying and Restoring Deleted Terms

You can include all the previously deleted terms in the list, and you can restore selected terms.

To include deleted terms in the list:

1. To the right of the list, select **Show Deleted**. All previously deleted terms are added to the display. A  icon appears beside each deleted term.
2. Select the deleted terms you want to restore. To select multiple terms, hold down the **Ctrl** key and click each term.



List including deleted terms, with the first deleted term selected

- To the left of the list, click  (Restore). The selected terms are restored.

Changing the Keyword Selection

You can cancel the selection of a keyword. When you do, the marking of every instance of the keyword is removed. (The words are not removed from the terms.)

To cancel the selection of a keyword:

- Select the keyword in one of the terms. The **Mark Important** button becomes an **Unmark Important** button.
- Click the **Unmark Important** button. The Mark Important designation is removed from every instance of the selected word.

Saving Changes

Whenever you modify a Topic, you must save the changes in order for them to be implemented in SMART. For additional information about saving changes in SMART and implementing them in SpeechMiner, see [Saving and Applying Changes](#).

To save changes to the Topic:

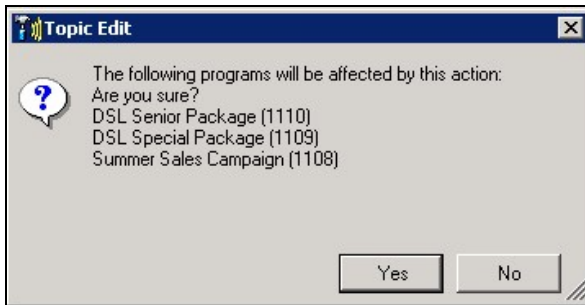
- To the upper-left of the right panel, click  (Save).

Modifying Topic Properties

Most of the Topic properties are set automatically by the system and cannot be changed by users, but you can change the folder, name, description, and Strictness of a Topic.

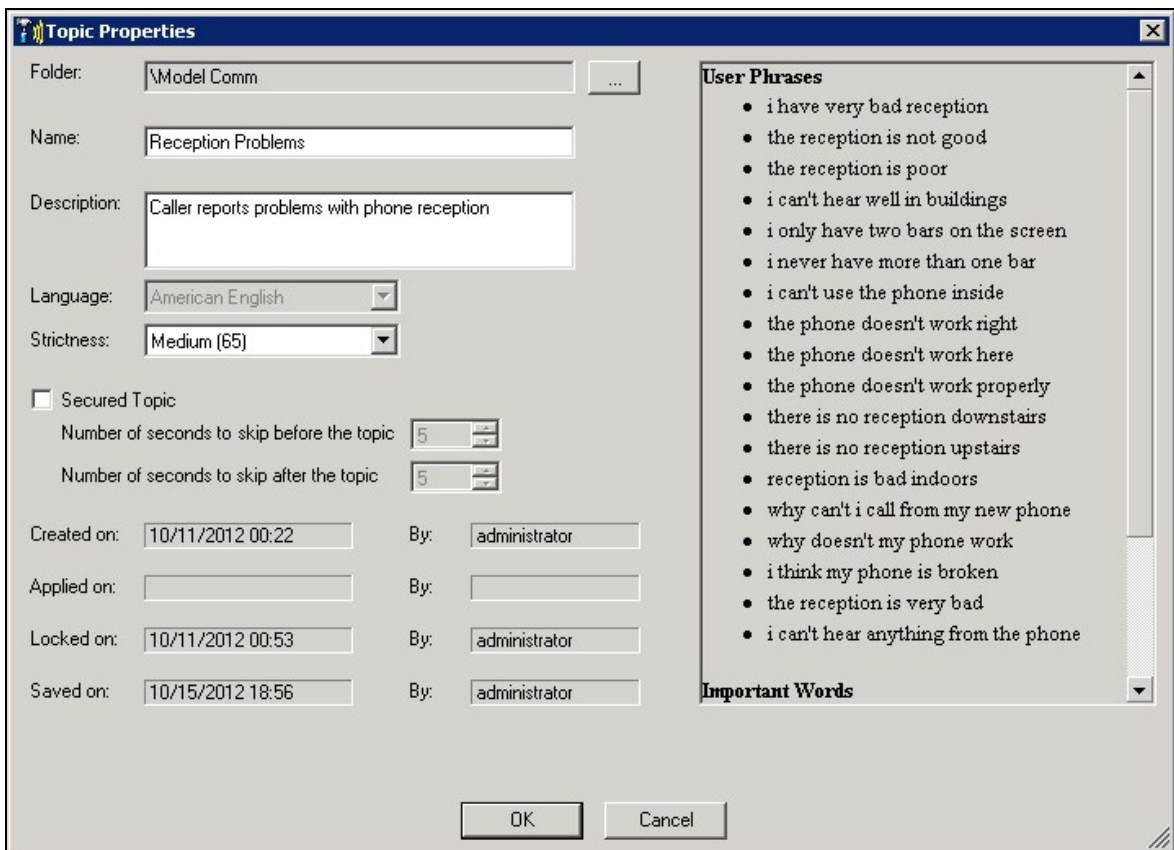
To modify Topic properties:

- In the left panel, click the **Topic Manager** tab. The list of existing Topics is displayed in the tree structure.
- Right-click the Topic, and then select **Open Topic Properties**. If the Topic is linked to one or more Programs, a **Topic Edit** message appears, prompting you to confirm that you want to open the Topic properties.



Topic Edit message

3. In the **Topic Edit** message, click **Yes**. The **Topic Properties** dialog box opens.



Topic Properties dialog box

4. Modify the properties as necessary. (For information about these properties, see [Opening a Blank Topic](#).)
5. Click **OK**. The dialog box closes, and the properties are modified.

Moving a Topic to a Different Folder

You can move a Topic to a different folder at any time, either by changing its **Folder** in the **Topic Properties**, as described [above](#), or by dragging the Topic to another folder in the tree list (see [Organizing Items Hierarchically](#)).

See also

[Creating an Effective Topic](#)
[Overview of the Topic-Manager Interface](#)
[Defining a New Topic](#)

[Auditing a Topic](#)
[Managing Secured Topics](#)
[Deleting Topics](#)

[Home](#) > [Managing Topics](#) > [Auditing a Topic](#)

Auditing a Topic

As SpeechMiner processes calls, you may want to check how well the terms it contains represent the intent of the Topic and how accurately SMART identifies the terms in calls. You can use this information to fine-tune the terms in the Topic. You can do this in two ways:

- Run the Topic Analysis - Audits report to see information about the precision with which Topics, and the terms they contain, were identified by SpeechMiner
- View statistical data about each term in the Topic, including information about how often the term was recognized by SpeechMiner and summary data of term audits

See also

[Running the Topic Analysis - Audits Report](#)
[Viewing Term Statistics](#)

[Creating an Effective Topic](#)
[Overview of the Topic-Manager Interface](#)
[Defining a New Topic](#)
[Modifying a Topic](#)
[Managing Secured Topics](#)
[Deleting Topics](#)

[Home](#) > [Managing Topics](#) > [Auditing a Topic](#) > [Running the Topic Analysis - Audits Report](#)







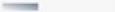



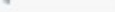








Running the Topic Analysis - Audits Report

The Topic Analysis - Audits report is one of the reports that can be generated from a template in the SpeechMiner web interface. The report shows the precision with which Topics were identified by SpeechMiner. Precision values are given for one or more confidence levels, as specified in the report parameters, and are determined by the TP/FP/SFP (True Positive/False Positive/Sense False Positive) selections made by the call auditor. You can drill down from any Topic included in the report to see detailed information about each term in the Topic.

When you run the Topic Analysis - Audits report, you can choose which calls to include in the data set that will be used for the report. For example, you can choose to see information only about specific Topics from a specified time range and involving specific agents. This can help you interpret the auditing data.

Topic Analysis - Audits

Payment Issues

Topic ▾	Percent of Calls ▾	Calls ▾	Strictness ▾	Events ▾	Audits ▾	1	40	50	65	72	85
Customer Identification (9 Terms)	 81.8%	305	 Very-Low (1)	364	44	B	A	A	A	A	A
Service Activation or Transfer (51 Terms)	 34.6%	129	 Very-Low (1)	204	55	B	B	C	C	C	C
Last 4 digits of SS (5 Terms)	 33.0%	123	 Very-Low (1)	127	45	A	A	A	A	A	A
Make Payment (14 Terms)	 27.3%	102	 Very-Low (1)	150	27	C	B	B	C	C	C
Deposit (17 Terms)	 22.3%	83	 Very-Low (1)	122	2	D	D	D	A	A	A
Payment Arrangements (10 Terms)	 8.0%	30	 Very-Low (1)	69	15	C	C	C	C	C	C
Balance Inquiry (16 Terms)	 5.9%	22	 Med-High (72)	25	1	A	A	A	A	A	A
Payment Locations (6 Terms)	3.5%	13	 Med-High (72)	13	5	D	D	D	D	D	A
Payment Issue (4 Terms)	0.8%	3	 High (85)	4	1						
Restore Service (2 Terms)	0.8%	3	 Low (40)	3	0						
High Bill Complaint (1 Term)	0.3%	1	 Medium (65)	1	0						
Payment Address (1 Term)	0.3%	1	 High (85)	1	0						
Summary	100.0%	373		1408	195	B	B	B	B	B	B

TP	131	87	80	59	49	30
FP	44	26	22	18	17	8
SFP	20	12	11	7	7	5
PREC	75	77	78	77	74	79

Data Set Summary

373

1408

195

* Summary of calls containing the selected Topic (defined in Items on Report section)

** Summary of all calls that meet the Data Set criteria (defined in Data Set Filters section)

SpeechMiner® by UTOPIA

Topic Analysis - Audits executed 4/7/2011 4:35:02 AM by Libby

Calls have the following constraints:

Language: American English

Topics: (Payment Arrangements,Payment Locations,Balance Inquiry,Payment Issue,High Bill Complaint,Fees and Services Charges,Make Payment,Customer Identification,Payment Address)

Topic Analysis - Audits report

Make Payment (14 Terms)

Payment Issues

Term	Percent of Calls	Calls	Strictness	Events	Audits	1	40	50	65	72	85
name on the check	<div></div> 4.5%	31	<div></div> Very-Low (1)	34	0						
to do a one time payment	<div></div> 2.9%	20	<div></div> Very-Low (1)	23	13	B	B	B	B	C	C
do you authorize almat energy to take a one	<div></div> 2.2%	15	<div></div> Very-Low (1)	15	0						
is it a visa or a master card	<div></div> 2.0%	14	<div></div> Very-Low (1)	14	14	C	B	B	D	D	
name of the bank	<div></div> 2.0%	14	<div></div> Very-Low (1)	16	0						
is this a checking account	<div></div> 1.9%	13	<div></div> Very-Low (1)	14	0						
and the expiration date	<div></div> 1.4%	10	<div></div> Very-Low (1)	10	0						
expiration please	<div></div> 1.0%	7	<div></div> Very-Low (1)	7	0						
i'll take your routing number first	<div></div> 0.6%	4	<div></div> Very-Low (1)	4	0						
would you like to pay by check	<div></div> 0.6%	4	<div></div> Very-Low (1)	4	0						
and how much are you paying	<div></div> 0.4%	3	<div></div> Very-Low (1)	3	0						
and what is that bank account number	<div></div> 0.4%	3	<div></div> Very-Low (1)	3	0						
how would you like to make that payment	<div></div> 0.3%	2	<div></div> Very-Low (1)	2	0						
the zip code where you receive your card	<div></div> 0.1%	1	<div></div> Very-Low (1)	1	0						
Summary	14.8%	102		150	27	C	B	B	C	C	C
					TP	17	14	13	7	6	2
					FP	8	5	4	4	4	1
					SFP	2	1	1	1	1	1
					PREC	68	74	77	64	60	67
Data Set Summary		690		1829	233						

* Summary of calls containing the selected Topic (defined in Items on Report section)

** Summary of all calls that meet the Data Set criteria (defined in Data Set Filters section)

SpeechMiner® by UTOPY

Topic Analysis - Audits executed 4/8/2011 3:35:39 AM by libby

Calls have the following constraints:

Language: American English

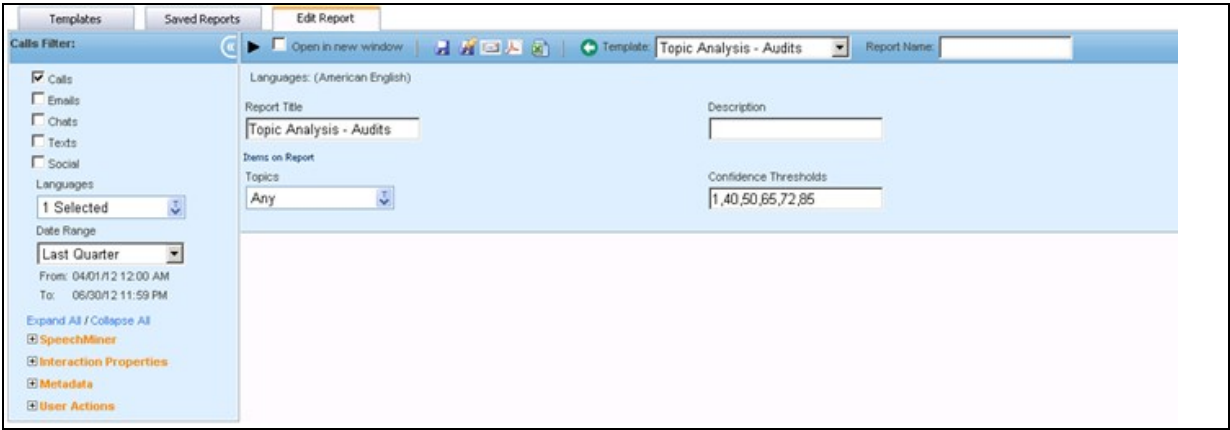
Drilling down to see data about the terms of a selected Topic

For your convenience, you can run the Topic Analysis - Audits report directly from the SMART interface.

Note: For complete information about SpeechMiner report templates in general and the Topic Analysis - Audits report in particular, please refer to the SpeechMiner User Manual.

To run the Topic Analysis - Audits report from the SMART Topic Manager:

1. Above the list of terms, click . The SpeechMiner web interface opens in a browser window. If you are already logged into SpeechMiner, the Topic Analysis - Audits report template opens immediately. If not, the SpeechMiner login screen opens. Enter your SpeechMiner username and password, and then the Topic Analysis - Audits report template will open.



Topic Analysis - Audits report template

2. Select the settings for the report.
3. At the top of the template, click **Run** (▶). The report runs, and the results are displayed below the template.

See also

[Viewing Term Statistics](#)

[Home](#) > [Managing Topics](#) > [Auditing a Topic](#) > [Viewing Term Statistics](#)

Viewing Term Statistics

If you have Audit permissions in SpeechMiner ("Audit Events in Calls Grid" is allowed in the permissions of at least one of the Roles applied to your SpeechMiner account), the Topic Manager screen in SMART includes additional information about each term in the Topic that is not visible to other users. The illustration below shows what an open Topic looks like in this case. The table to the right of the list of terms contains the additional information for each term. Only Events that are recognized with at least the strictness specified for the Topic (indicated under Applied Strictness above the list of terms) are included in the data.

Clicking links in this data opens Call Grids listing the calls in each category. You can use the grids to listen to the Topic Events in the calls and audit them for accuracy. This information can help you decide if certain terms should be modified or removed from the Topic, and if additional terms should be added.

Applied Strictness: Very-Low (1) Saved On: 10/11/2012 01:30 By: administrator Show Calls Since: 1/ 1/1970 Refresh Audits

Text	Percent	CallsCount	EventsCount	Audits	TPCount	FPCount	SFPCount	AuditsPrecision
U to verify the < last four > of your	5.8 %	232	240	37	25	4	8	86.2 %
U the < last four > digit of your	3.4 %	137	142	45	34	7	4	82.9 %
U the < last four > numbers of your	0.6 %	24	28	24	17	4	3	81.0 %
U verify the < last four > numbers of the	0.7 %	30	30	24	17	4	3	81.0 %
U can i get you to verify the < last four > of	0.7 %	29	29	9	5	2	2	71.4 %
30 U provide me with the < last four > digit of you	0.0 %	0	0	0	0	0	0	0.0 %
20 U get you to verify the < last four > digit of you	0.3 %	12	12	5	3	1	1	75.0 %

Topic Manager screen for users with Auditing permissions

Overview of the Auditing Data

The auditing data included in the Topic Manager provides information about how often terms in the Topic were found in calls and how accurately SpeechMiner identified them. The table contains the following data for each term:

Column	Description
Percent	The percentage of all the calls in the database in which the term was found
Calls Count	The number of calls in the database in which the term was found
Events Count	The number of times the term was found in the database
Audits	The number of times the term was audited for precision (was rated TP, FP, or SFP)
TP Count	The number of times the term was rated TP during auditing
FP Count	The number of times the term was rated FP during auditing
SFP Count	The number of times the term was rated SFP during auditing
Audits Precision	The percentage of TP ratings among all the audits

Filtering the Events by Date

You can filter the Event data set by selecting the earliest date to include in the data.

To set the date filter:

1. Above the list of terms, in the **Show Calls Since** field, select the start date of the data set.
2. Click **Refresh Audits**. The data is refreshed; only data from calls that took place from the selected date on are included in it.

Sorting the Terms

You can sort the terms in the list alphabetically.

To sort the terms:

- Click the **Text** button in the title bar of the list of terms. (Click it a second time to reverse the sort order.)

Understanding the Term-Auditing Data

Each linguistic Event that is recognized in a call can be audited. This means that a SpeechMiner user listens to the Event and then rates the precision of the identification. The rating can be one of the following:

- TP** (True Positive): The Event was correctly identified by SpeechMiner.
- FP** (False Positive): The Event was incorrectly identified by SpeechMiner.
- SFP** (Sense False Positive): The words were correctly identified by SpeechMiner, but they were used in a sense that does not match the intent of the Topic.

In order to audit an Event, the auditor must play the Event using an Event Grid. After listening to the Event, the auditor rates the accuracy of the Event recognition by selecting the rating in the TP/FP column of the Event Grid. Auditing can be performed in this way either in the SpeechMiner web interface or directly from SMART.

Opening a Call Grid

You can open a Call Grid directly from the Topic Manager screen. Once the list is open, you can use it to open the Media Player and play back calls. If the grid contains an Event list, you can audit the Event recognition and add or modify the precision ratings of the Events.

Note: For information about working with Call Grids, playing calls in the Media Player, and auditing Events, please refer to the SpeechMiner User Manual.

To open a Call Grid:

- In the table of term information, click the number in the relevant column, as follows:

Column	List Contents
Calls Count	A Call Grid containing calls in which the term was found
Events Count	An Event Grid listing locations in which the term was found
Audits	An Event Grid listing locations in which the term was audited
TP Count	An Event Grid listing locations in which the term was audited and rated TP
FP Count	An Event Grid listing locations in which the term was audited and rated FP
SFP Count	An Event Grid listing locations in which the term was audited and rated SFP

Refreshing the Data

While the Topic Manager is open, SpeechMiner continues to process calls. In addition, you or other users may audit Events that were already included in the data. You can refresh the data at any time to incorporate information about newly processed calls and newly audited Events.

To refresh the term data:

- On the right side of the window, click **Refresh Audits**.

Managing Terms

Based on the information about the terms that were recognized by SpeechMiner in actual calls, you can modify the words of a term, add new terms, or delete existing terms, as necessary. For example, if a term is not recognized consistently (has a large number of FP ratings), you could add more words to the term to make it easier for SpeechMiner to identify. Similarly, if the auditing data show

that the term frequently does not match the intent of the Topic (has a large number of SFP ratings), you could add more words to it in order to ensure it is only identified when it really does match the intent of the Topic. On the other hand, if you think a term with a large number of FPs or SFPs cannot be improved, you might choose to delete it.

For information about how to modify the list of terms defined for a Topic, see [Modifying a Topic](#).

See also

[Running the Topic Analysis - Audits Report](#)

[Home](#) > [Managing Topics](#) > [Managing Secured Topics](#)

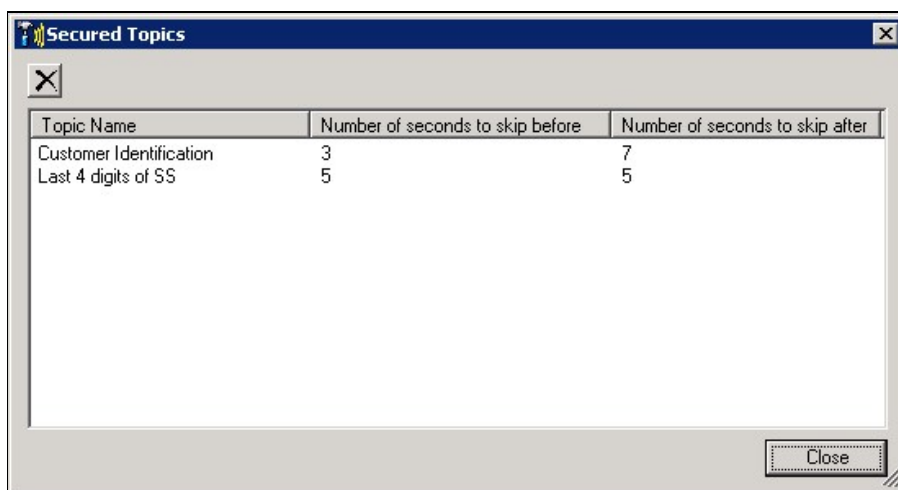
Managing Secured Topics

You can view a list of all the secured Topics in the system and their settings, and remove the settings from the properties of one or more Topic. When you remove the security settings from selected Topics, the properties of the Topics are modified.

Note: You can also manually delete the security settings from a Topic in the [Topic Properties](#) dialog box.

To view the list of secured Topics:

- In the Main Menu, under **Tools**, select **Secured Topics**. The **Secured Topics** dialog box opens and lists all of the secured Topics in the system.



Secured Topics dialog box

To delete the security settings from selected Topics:

1. In the **Secured Topics** dialog box, select the Topics whose security settings you want to delete. To select multiple Topics, hold down **Ctrl** or **Shift** while you click them. **Ctrl** is used to select multiple items individually; **Shift** is used to select all items between the first and last item that is clicked.
2. In the upper-left corner of the dialog box, click **X**. The security settings are removed from the properties of all of the selected Topics.

See also

[Creating an Effective Topic](#)
[Overview of the Topic-Manager Interface](#)
[Defining a New Topic](#)
[Modifying a Topic](#)

Auditing a Topic

Deleting Topics

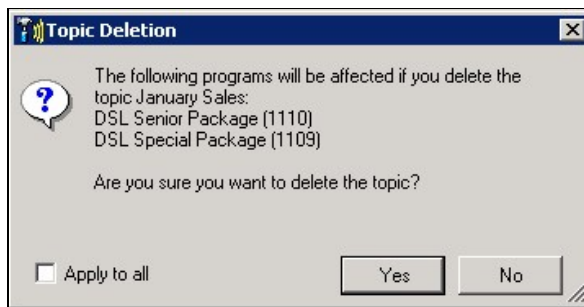
Home > Managing Topics > Deleting Topics

Deleting Topics

You can delete Topics that are not required. Topics can be deleted even if they are linked to Programs, but they cannot be deleted if they are linked to Categories. If you want to delete a Topic that is linked to a Category, remove it from the Category definition first (see [Modifying a Category](#)).

To delete one or more Topics:

1. Make sure the Topics you want to delete are closed.
2. In the left panel, click the **Topic Manager** tab. The list of existing Topics is displayed in the tree structure.
3. In the tree structure, select the Topics you want to delete. To select multiple Topics, hold down the **Ctrl** key while you click them.
4. In the tree controls above the tree structure, click **X (Delete)**. For each Topic, a **Topic Deletion** message appears. If the Topic is linked to any Programs, the Programs are listed in the message.



Topic Deletion message

5. Click **Yes**. The Topic is deleted. If additional Topics were selected, a **Topic Deletion** message appears for each one. Click **Yes** to confirm each deletion.

Note: If you want to delete all of the selected Topics without confirming each one, select **Apply to All** before you select **Yes**.

See also

[Creating an Effective Topic](#)
[Overview of the Topic-Manager Interface](#)
[Defining a New Topic](#)
[Modifying a Topic](#)
[Auditing a Topic](#)
[Managing Secured Topics](#)

[Home](#) > [Managing Programs](#)

Managing Programs

A Program is a set of instructions for analyzing recorded conversations between call center agents and customers. It includes all of the detailed instructions required by SpeechMiner to recognize the content of a call and display the results. Each set of distinctive calls being processed (for example, calls from a particular sales campaign) should have a separate Program.

All Programs include an instruction to identify non-linguistic data, such as key presses and caller agitation. You define a Program by specifying how the speech in the calls should be processed by SpeechMiner:

- Whether SpeechMiner should perform speech recognition. When speech recognition is performed, all the speech that is recognized is also transcribed. Transcription enables users to search for terms and facilitates certain types of reports that analyze the speech that is recognized for trends.
- Whether SpeechMiner should look for specific [Topics](#) in calls, and, if so, where in the calls it should look for them. This aspect of a Program definition is essentially a structured list of Topics. Before you can add Topics to a Program, you must define them in SMART using the relevant Manager. Topic data enables users to search for calls containing particular Topics, and facilitates reports that analyze the Topic data. (If speech recognition is not performed, Topic recognition cannot be performed either.)

Calls are sent to SpeechMiner from the external recording system. When they are received, they are put into SpeechMiner's processing queue to await their turn for analysis by SpeechMiner. Because the processing of some calls may be more important than the processing of others, SpeechMiner does not automatically process calls in the order in which they were placed into the queue. When you create a Program, you assign a priority level to it. SpeechMiner chooses which call to process first based on its priority level. SpeechMiner processes the highest priority calls in the queue first, and then proceeds to calls with lower priorities, regardless of how long the calls have been in the queue. (If multiple calls have the same priority level, SpeechMiner processes them in the order in which they were put into the queue.)

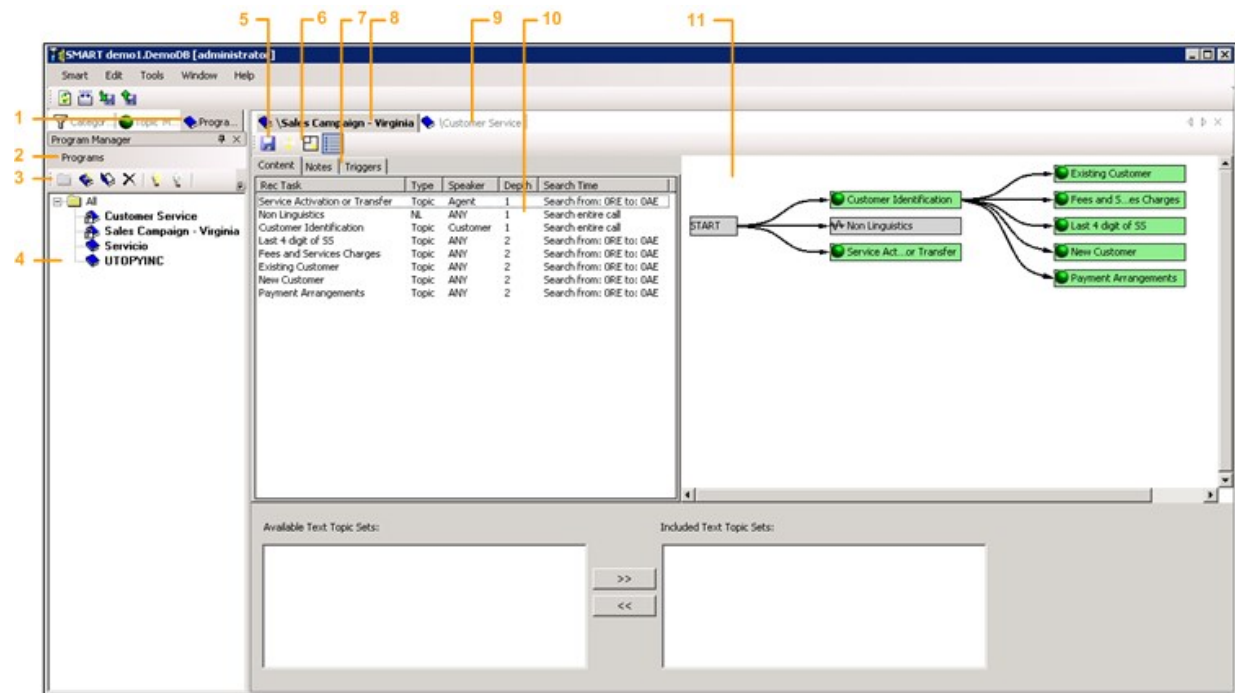
See also

[Welcome](#)
[Overview](#)
[Managing Topics](#)
[Managing Categories](#)
[Applying Changes](#)
[Managing Version History](#)
[Exporting and Importing](#)

[Home](#) > [Managing Programs](#) > [Overview of the Program-Manager Interface](#)

Overview of the Program-Manager Interface

The Program Manager contains the following elements:



Element	Number in Illustration	Description
Program Manager tab	1	Select this tab to display the Program Manager
Programs menu	2	Click to open a menu for managing items in the tree list (also available by right-clicking anywhere in the tree list)
Tree-list controls	3	Controls for managing the items in the tree list (i.e., shortcuts to some of the Programs menu items) and filtering the items Note: If the left pane is not wide enough to display all of the items in the menu bar, click the arrow (↔) on the right to access the hidden options.
Tree structure	4	Expandable list of Programs
Save button	5	Click to save changes that were made to the displayed Program; changes are saved in SMART, but not applied in SpeechMiner
Display-control buttons	6	Click a button to choose a display option: <ul style="list-style-type: none"> Changes the direction of the structure diagram from horizontal to vertical and vice versa Shows or hides details in the structure diagram Hides the List pane to make more room for the structure diagram; Shows the List pane when it is hidden
List-pane tabs	7	Tabs for selecting what you want to display in the List pane - a list of the items in the Program (Topics and Non-linguistic data), notes, or a list of the links in the Program structure
Displayed-Program tab	8	Tab of the currently displayed Program Note: Multiple windows can be open at one time in SMART. Click a tab to view the desired window.
Open Program	9	Tab of a Program that is open but not currently displayed

tab		Note: Click the tab to display the Program.
List pane	10	Area in which either a list of the items in the Program (Topics and Non-linguistic data), notes, or a list of the links in the Program structure are displayed
Structure pane	11	Area in which the Program's structure is displayed

See also

[Defining a New Program](#)
[Modifying a Program](#)
[Deleting Programs](#)

Home > Managing Programs > Defining a New Program

Defining a New Program

You begin defining a new Program by creating a blank Program and specifying its properties. Once you have done this, you can [add Topics](#) to the program. You can then fine-tune the Program as necessary, by doing some or all of the following:

- [Defining the Program Structure](#)
- [Configuring Trigger Properties](#)
- [Configuring Recognition Tasks](#)

Finally, you complete the process of defining a new Program by [saving and activating](#) it.

See also

[Creating a Blank Program](#)
[Adding Topics](#)
[Managing the Program Structure](#)
[Using Notes](#)
[Saving and Activating the Program](#)

[Overview of the Program-Manager Interface](#)
[Modifying a Program](#)
[Deleting Programs](#)

Home > Managing Programs > Defining a New Program > Creating a Blank Program

Creating a Blank Program

The first step in creating a new Program is opening a blank Program.

To open a blank Program:

1. In the tree list, select the folder in which you want to open the Program.

Note: For information about opening folders, see [Organizing Items Hierarchically](#). You can also move the Program to a folder later.

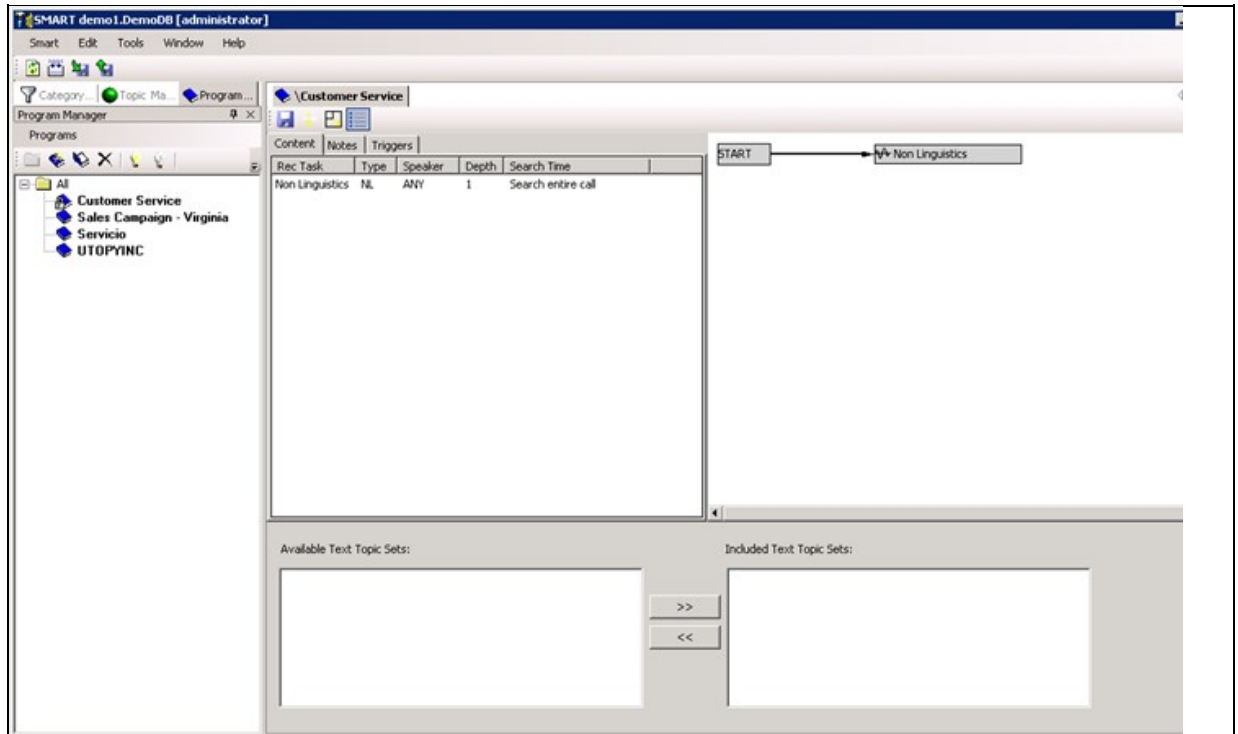
2. In the tree-list controls, click  (**New Program**). The **Program Properties** dialog box opens.

3. Fill in the fields as follows:

Field	Description
Folder	Displays the folder in which the Program will be placed. If you want to save the Program in a different folder, click the ... button and select the required folder.
Name	Enter a name for the Program.
External ID	<p>The ID of the Program in the external recording system. Each call that belongs to this Program is assigned this ID by the recording system. When SpeechMiner receives the call audio from the recording system, it checks this ID in order to find out which Program to use to analyze the call.</p> <p>For information about the correct External ID to assign to the Program, please consult your system administrator.</p>
Language	<p>Select the language of the Program.</p> <p>Note: In some systems, some or all calls do not undergo speech-recognition processing. In these systems, the option No Speech Recognition appears in the list of Languages. Select this value if calls in this Program should not undergo speech recognition processing. Topic recognition cannot be performed on calls that do not undergo speech-recognition processing.</p>
Active	Select this option if you want the Program to be active when it is applied. (See Saving and Activating the Program.)
Priority	<p>Specify the priority level of the Program. The priority level tells SpeechMiner in what order to process calls that are in the processing queue: Calls with higher priority are processed first. Five priority levels are defined: Very High, High, Medium, Low, and Very Low. The default priority level is Medium. If two calls in the queue have the same priority level, the processing order follows the process order set in SpeechMiner - either older calls first or newer calls first.</p> <p>Note: This level, and the process order setting, can be changed in SpeechMiner under Tools>System Admin>Manage Call Queue</p>
Description	Enter a free-text description for the Program (optional).

Note: The other fields in the dialog box are automatically updated by SMART each time the Program is saved.

- Click **OK**. The dialog box closes. The new Program appears in the tree list and is opened in the right panel of the SMART window. The Non Linguistics task is added to the Program automatically. This means SpeechMiner is instructed to try to identify non-linguistic Events in the call audio; this task is included in all Programs and cannot be removed.



Blank Program

See also

[Adding Topics](#)
[Managing the Program Structure](#)
[Using Notes](#)
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Adding Topics

A Program is essentially a list of recognition tasks that SpeechMiner must perform on calls that belong to the Program. The recognition tasks are lists of audio data that SpeechMiner should try to identify in the calls: [Topics](#) and non-linguistic data. When a Program is created, the Non Linguistics recognition task is automatically added to the Program and cannot be removed. This means SpeechMiner always tries to identify non-linguistic data in the calls it processes. When [speech recognition](#) is enabled for a Program, Topics can also be included in it as recognition tasks.


The Topics included in the recognition tasks of a Program define the linguistic data that SpeechMiner should look for in calls that belong to the Program. You must add the Topics to the Program manually. You can add multiple Topics to a single Program.

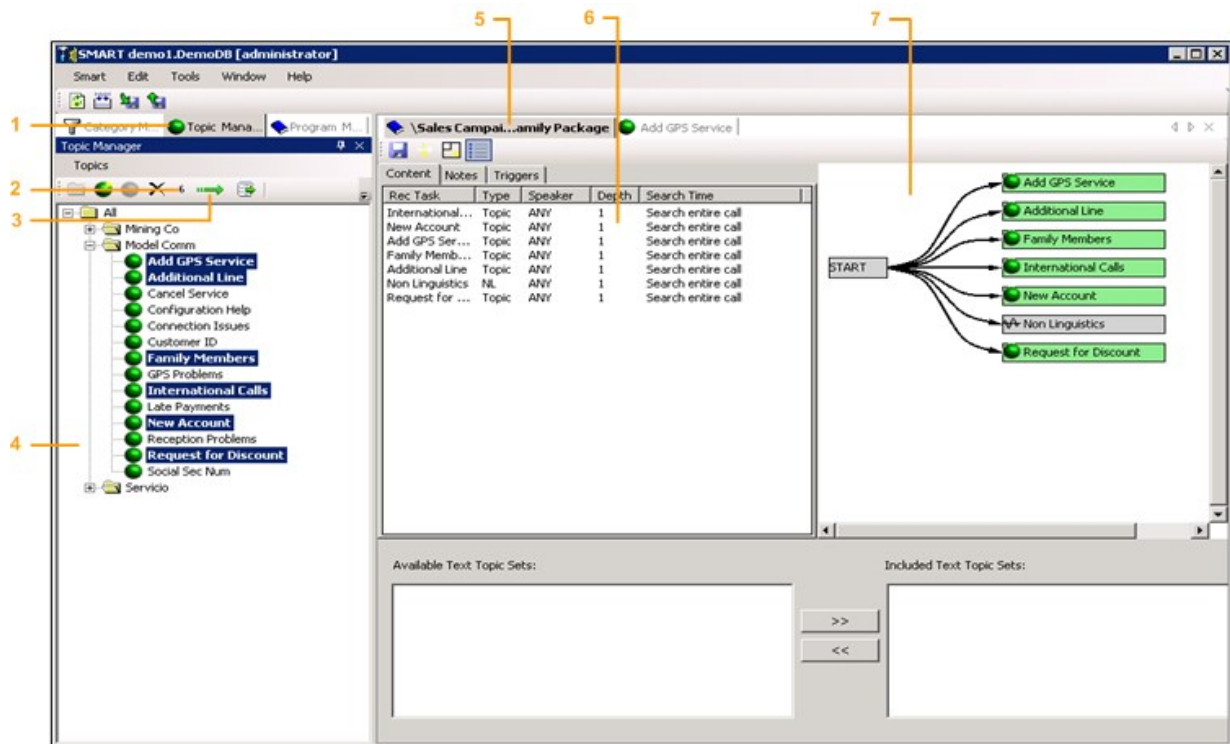
Note: The Topics must be defined before you can add them to a Program. However, you can change their contents after you add them to a Program. The Topic contents that are defined when the Program is applied are the ones that will be sought by SpeechMiner in calls belonging to the Program. For information about creating and modifying Topics, see [Managing Topics](#).

Adding Recognition Tasks to a Program

You can add one or more Topics to every Program.

To add Topics to a Program:

1. Make sure the Program is open in SMART (i.e., a tab for it appears in the right panel of the SMART window) and is selected (i.e., it is displayed in the right panel - no. 5 in the illustration below).
2. In the left panel, select the Topics tab (no. 1 below). An expandable list of the currently defined recognition tasks is displayed in the tree structure.
3. Select the Topics you want to add to the Program. If you want to select multiple Topics, hold down the **Ctrl** key and click each of the Topics, or, to select a range of Topics, hold down the **Shift** key and click the first and last Topic in the range. You can also select a folder to include all of the Topics it contains (no. 4 below). The number of selected Topics is displayed in the tree-list controls above the tree structure (no. 2 below).
4. In the tree-list controls, click the  button (no. 3 below). The selected Topics are added to the Program. They appear in the right panel in the **Content** tab (no. 6 below) and in the structure diagram (no. 7 below).



Adding Topics to a Program

Removing Topics from a Program

You can remove Topics from a Program as necessary.

To remove Topics from a Program:

1. In the right panel, in the **Contents** tab, select the Topics you want to remove. To select multiple recognition tasks, hold down the **Ctrl** key and click each of the Topics.
2. Press **Delete**. The Topics are removed from the Program.

See also

[Creating a Blank Program](#)
[Managing the Program Structure](#)
[Using Notes](#)
[Saving and Activating the Program](#)

Home > Managing Programs > Defining a New Program > Managing the Program Structure

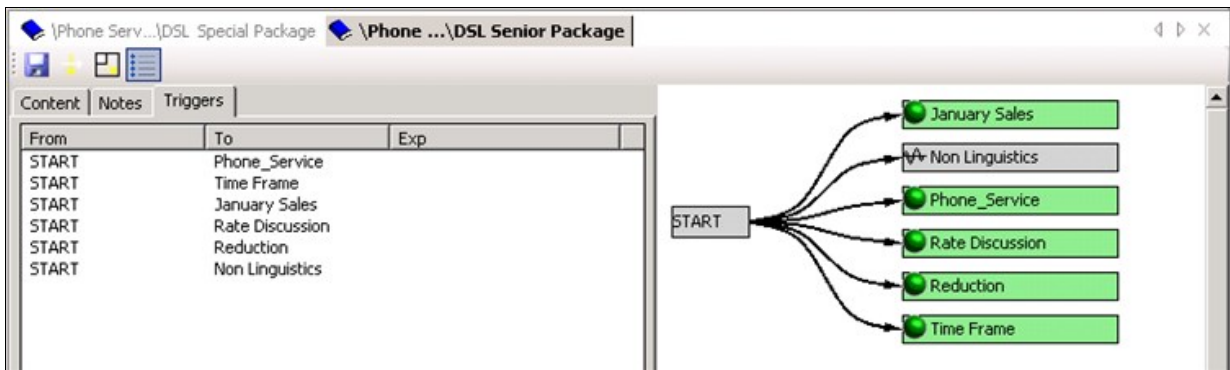
Managing the Program Structure

The Program structure defines the order in which the Program items should appear in the call audio. The structure is defined using a flow chart. Each recognition task in the Program is represented in the flow chart by a rectangle, and the order of the flow is represented by arrows that connect the rectangles. If the Program has alternative flows, the flow chart can be branched to show the alternatives. If an item is optional, one branch can include the optional item while another does not. You can also define conditions for an optional section. For example, if a particular item would only appear in calls made by a particular agent, you could indicate that the link to the item is only for that agent.

Note: You cannot include loops in a Program structure. However, SpeechMiner can recognize the same item more than once in a call, as long as it meets the conditions in each case.

The Program structure is defined in the right pane of the Program Manager. By default, the structure is defined such that all of the items in the Program are sought throughout each call. In the structure diagram, this is indicated by a Start item with separate branches to each of the recognition tasks of the Program.

Note: Gray rectangles represent items that cannot be removed from the Program.



Default Program structure

You can fine tune the structure to increase the efficiency and accuracy of the recognition process using the following features:

- **Modify the structure diagram:** Specify the order in which the items must appear in the call, and indicate where branches may occur and which items are optional, by adding and removing arrows in the structure diagram
- **Configure trigger properties:** Set conditions for the links defined in the structure diagram, including conditions that the parent item must meet and metadata conditions that the call must meet (e.g, that the agent must be from a particular work group, or the call must have taken place after a certain date)
- **Configure recognition tasks:** Specify that the item must have taken place at a certain time in the call.

This section explains how to modify the structure diagram. For information about configuring triggers and recognition tasks, see [Configuring Trigger Properties](#) and [Configuring Recognition Tasks](#).

Structure Diagram Display Options

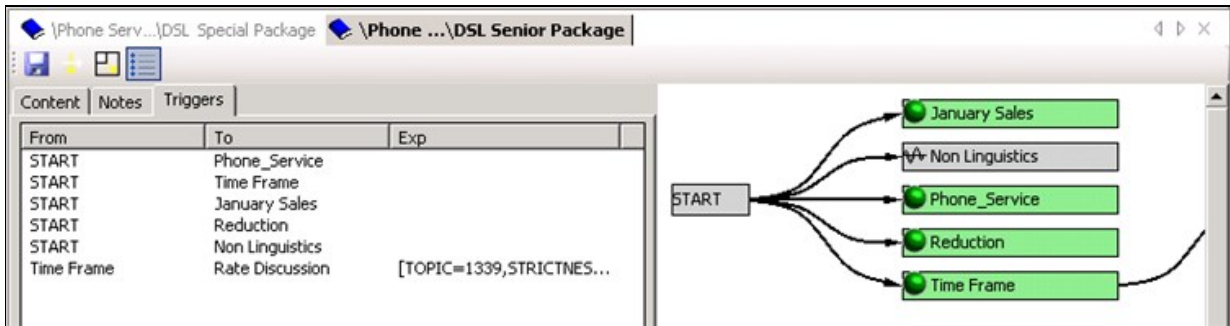
The structure diagram can be fairly large. It may not fit easily into the Structure pane. If it is too wide or long for the available space, scroll bars are added to the pane to enable you to see the entire structure.

The SMART interface also includes some display options that can help you see and manage the structure diagram more easily:

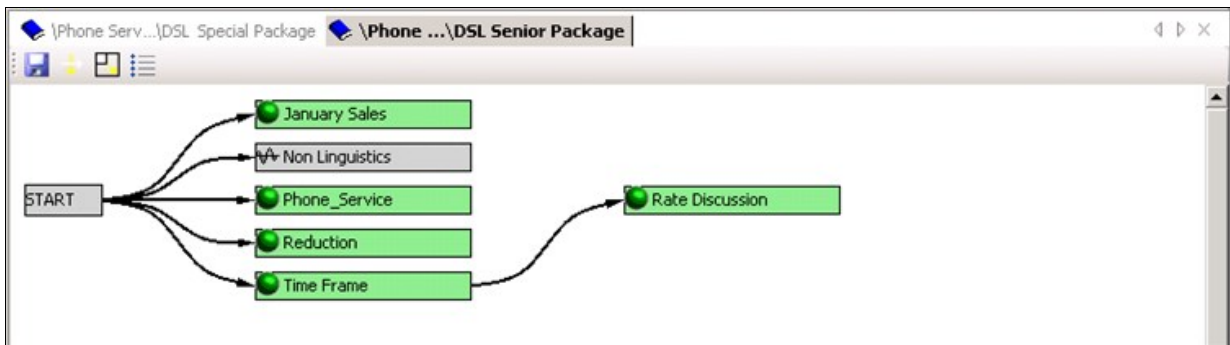
- Close the List pane so that the diagram can fill the entire right panel of the SMART window
- Display the diagram vertically or horizontally
- Display or hide details about the items in the diagram

Closing and Opening the List Pane

You can hide the List pane to allow more space for the structure diagram.





List pane displayed



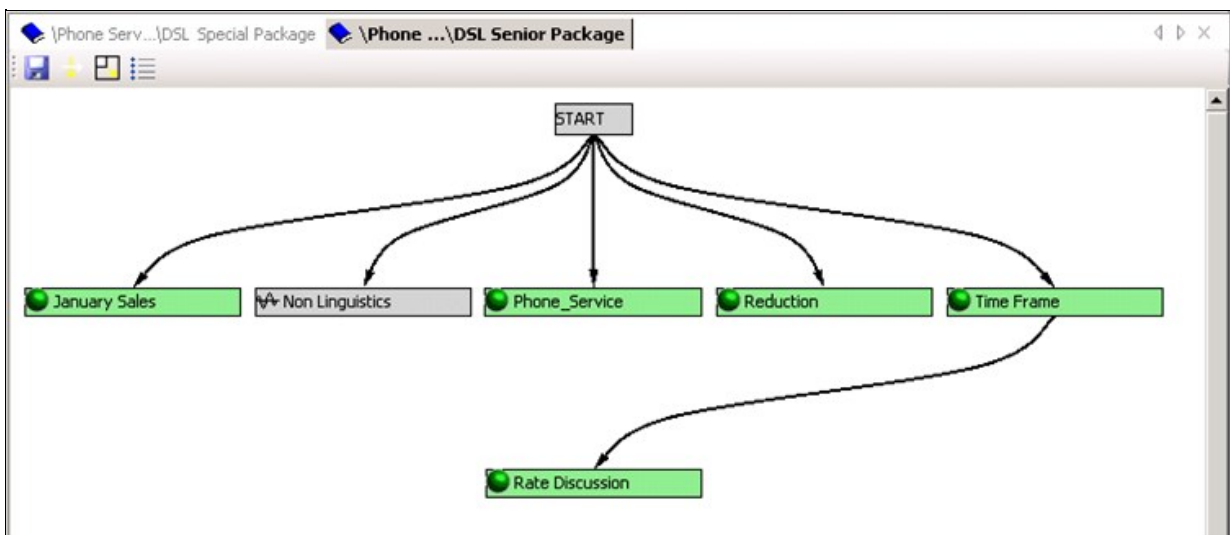
List pane hidden

To hide or display the List pane:

- In the display-control area above the List pane, click one of the following:
 -  To hide the List pane when it is visible
 -  To show the List pane when it is hidden


Changing the Direction of the Diagram Display

The structure diagram can be displayed either horizontally (as in the illustrations above) or vertically.



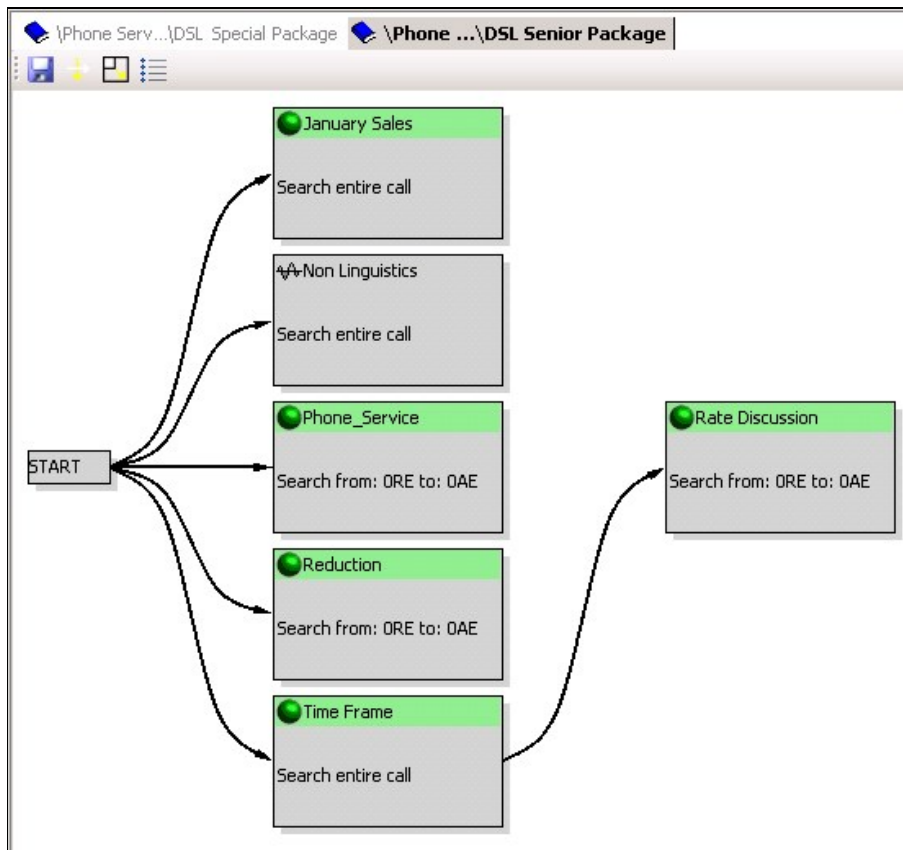
Vertical structure diagram

To change the direction of the structure diagram:

- In the display-control area above the List pane, click .


Displaying Item Details

You can choose to display or hide item details in the structure diagram. By default, the details are hidden.



Details displayed

To display or hide item details in the structure diagram:

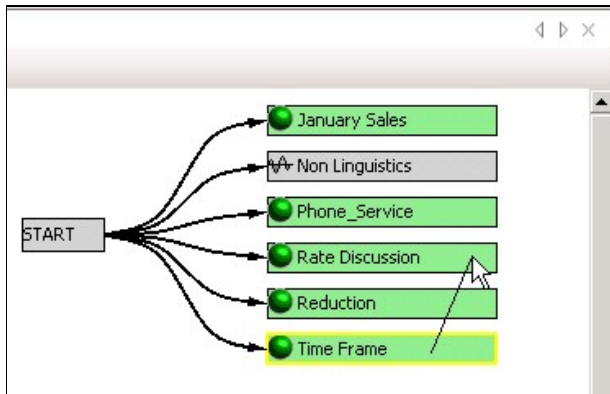
- In the display-control area above the List pane, click .

Creating a Child Link

A child link indicates that a particular item - the child item - should only be sought in a call after another item - the parent item - is found. That is, the parent item must always precede the child item. For example, you could specify that the Rate Discussion Topic can only appear after the Time Frame Topic.

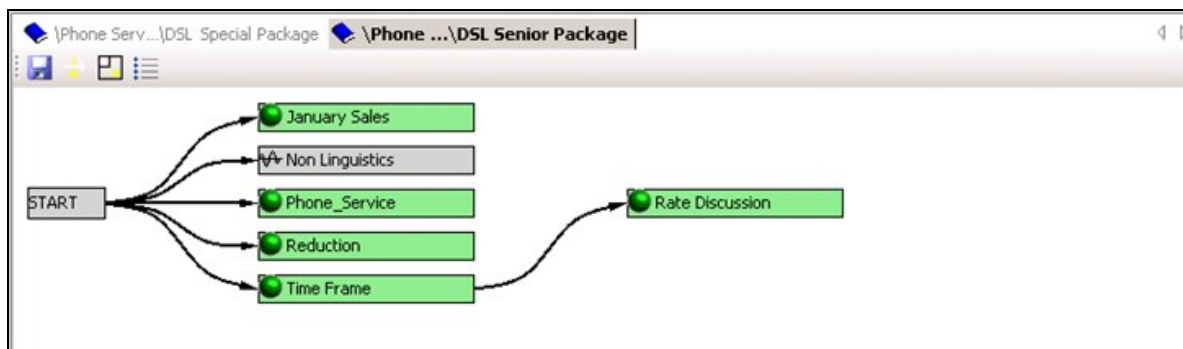
To create a child link in the structure:

- Place the mouse cursor on the first item rectangle, hold down the left-mouse button, and drag the cursor to the second item rectangle. A line connecting the two items is displayed as you drag the mouse.



Dragging the cursor to create a child link

When you release the mouse button, the link is created. If the item was previously a child of the Start item, it becomes a child of the new item instead. If the item was previously a child of another item, both child links are retained.



Rate Discussion linked as a child to Time Frame

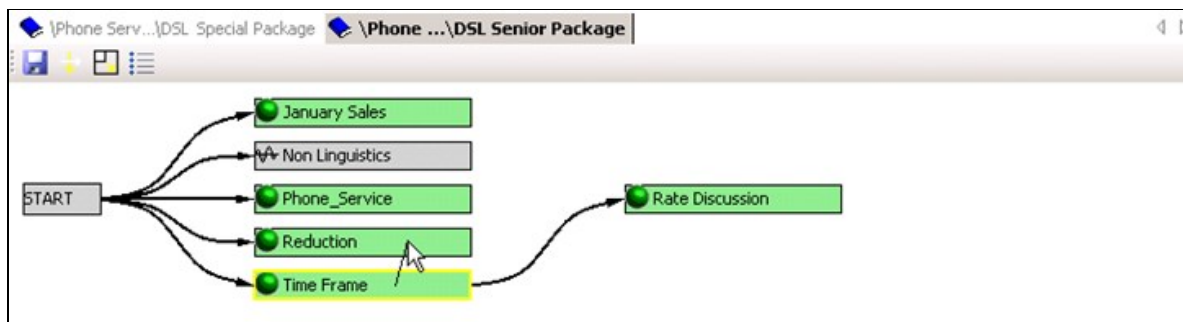
Note: When you create a link, SMART may rearrange the way all of the item rectangles are laid out in the structure area.

Creating a Branch

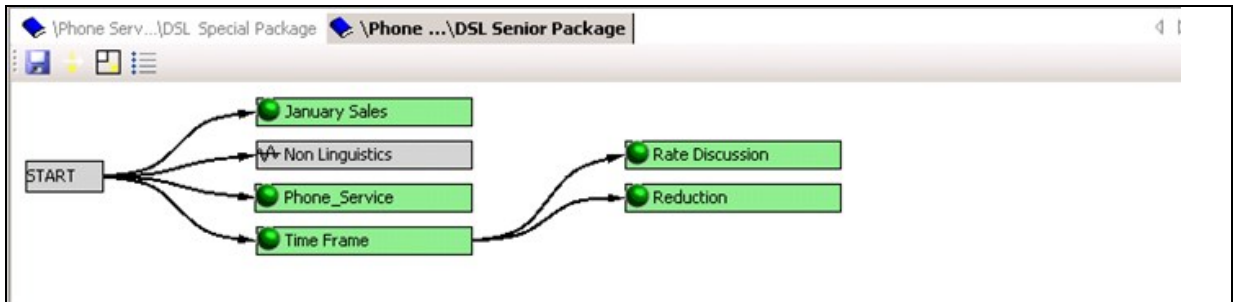
You can create a branch in the Program structure by creating two child links from the item before the branch - one to each of the alternative branches of the Program.

To create a branch:

1. Create a link between the section that precedes the branch and one of the alternative sections of the branch.
2. Repeat the process by creating a second link from the section that precedes the branch to another of the alternative branches.



The branch is created. (The arrangement of the section rectangles is modified as necessary to display the branches correctly.)



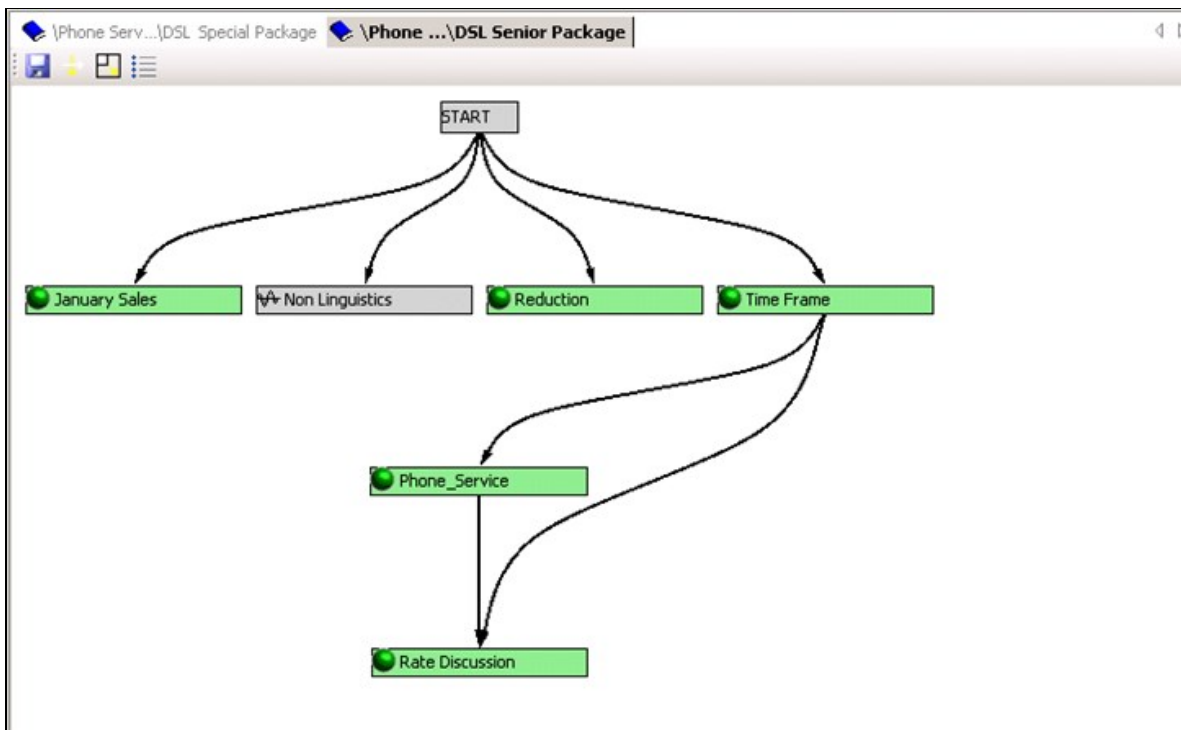
3. Repeat the process as necessary in order to create all of the required branches.

Creating an Optional Link

An optional link is essentially an extra branch that contains an optional section. For example, if the agent only has to discuss a particular Topic in certain cases, but must continue with the rest of the flow in either case, you can create two branches, one with the Topic and the other without it.

To create an optional link:

1. Create a link from the section that precedes the optional section to the optional section. A branch is created for the optional section.
2. Create a link from the optional section to the next section of the Program. The branch "rejoins" the main flow of the Program.



Optional branch containing Phone Service Topic

Deleting a Link

You can delete existing links between items as necessary.

To delete an existing link:

1. Click the link. The selected link is displayed in yellow.
2. Press **Del**. The link is deleted. The arrangement of the item rectangles is modified as necessary to display the structure as it is

currently defined. If you removed the only link from a parent item to a particular child item, the child item becomes a child of the Start item.

See also

[Configuring Trigger Properties](#)
[Configuring Recognition Tasks](#)

[Creating a Blank Program](#)
[Adding Topics](#)
[Using Notes](#)
[Saving and Activating the Program](#)

[Home](#) > [Managing Programs](#) > [Defining a New Program](#) > [Managing the Program Structure](#) > [Configuring Trigger Properties](#)

Configuring Trigger Properties

The conditions that define the circumstances under which SMART should search for a child item in a call are called triggers. The triggers of linguistic recognition tasks are defined in the Program's structure diagram (see [Managing the Program Structure](#)), and are represented there by the arrows that connect recognition tasks. You can fine-tune the triggers in the following ways:

- **Metadata:** Specify that a particular child item should only be sought in a call if the call meets one or more metadata requirements. For example, you can specify that a particular Topic should only be sought if the customer is in the state of Nevada, or if a particular agent handled the call.
- **Parent conditions:** Configure the settings of the parent-child relationships that are defined in the structure diagram. For example, you can specify that the parent must be recognized with a particular level of strictness before the child should be sought, or that the parent must be found twice before the child is sought.

Logical Expressions

Configuring triggers is performed by defining a logical expression for SpeechMiner to evaluate. If the logical expression is evaluated as True, the trigger is activated and the child recognition task is run on the call; if it is false, the trigger is not activated, and the child recognition task is not run.

Logical expressions can consist of one or more elements. Each element is a statement, such as Date Of Call>1/19/2010 or Found topic "Reduction" at least once with Low Strictness. If a logical expression contains one element, it is True whenever the condition defined in the element is true. For example, if a logical expression contains the element Date Of Call>1/19/2010, it is True for any call whose metadata indicates that it took place on or after 1/20/2010.

Logical expressions can also contain multiple elements. When they do, the elements must be related to one another by logical operators, such as AND or OR. For example, Date Of Call>1/19/2010 AND Found topic "Reduction" at least once with Low Strictness is a logical expression that indicates both conditions must be met - the Topic must be found and the call must have taken place in the specified time period - in order for the expression to be evaluated as True and the recognition task to be implemented.

The following operators can be used in logical expressions:

Operator	Description
AND	Both conditions must be met in order for the expression to be evaluated as True
OR	At least one of the conditions must be met in order for the expression to be evaluated as True
NOT	The expression should be evaluated as True only when the condition is not met.
(Opens a group of conditions that are evaluated as a unit
)	Closes a group of conditions that are evaluated as a unit

Logical expressions can be quite complex, containing a number of elements, various logical operators, and parentheses, if necessary. For example:

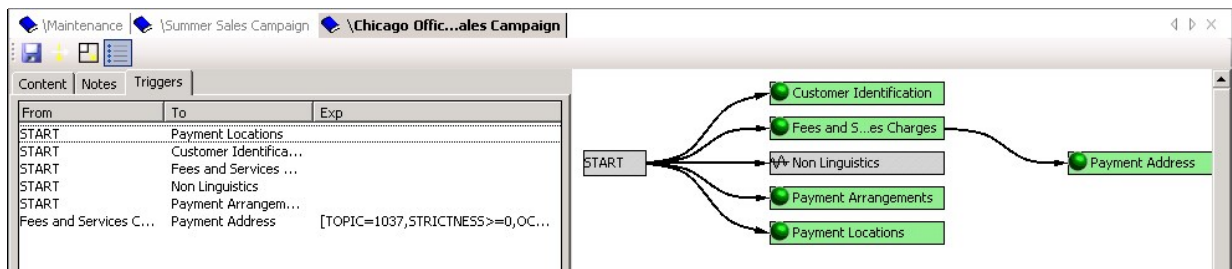
(Date Of Call>1/1/2011 AND Date Of Call<1/30/2011 AND Found topic "Reduction" at least once with Low Strictness) OR (Date Of Call>1/31/2011 AND (Found topic "Time Frame" at least once with Low Strictness OR Found topic "Payment Locations" at least once with Medium Strictness))

means the recognition task should be performed if the call took place between Jan. 1st and Jan. 30th and the Topic "Reduction" was found, or if the call took place Jan. 31st or later and either the Topic "Time Frame" or the Topic "Payment Locations" was found.

Configuring Trigger Conditions

Trigger conditions are configured by defining logical expressions. Both metadata and parent conditions can be included in the logical expression. Metadata conditions are added to the logical expression manually, but parent conditions must be created in the structure diagram; once they are created, you can modify their properties manually.

If conditions are defined for a particular trigger, they are displayed in the List pane in the **Triggers** tab, under **Exp**.

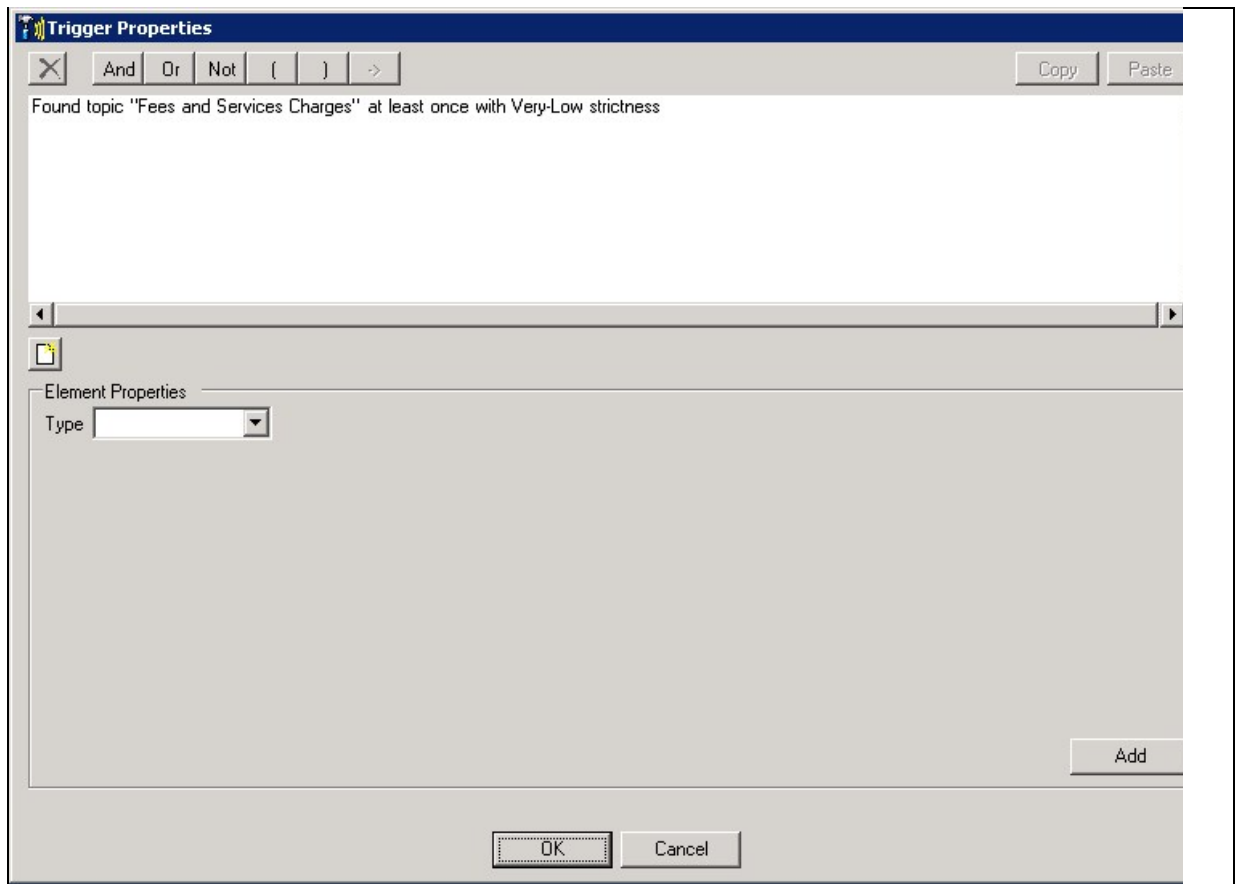


Trigger conditions defined for the Fees and Services Charges -> Payment Address trigger

To configure the trigger conditions of a recognition task:

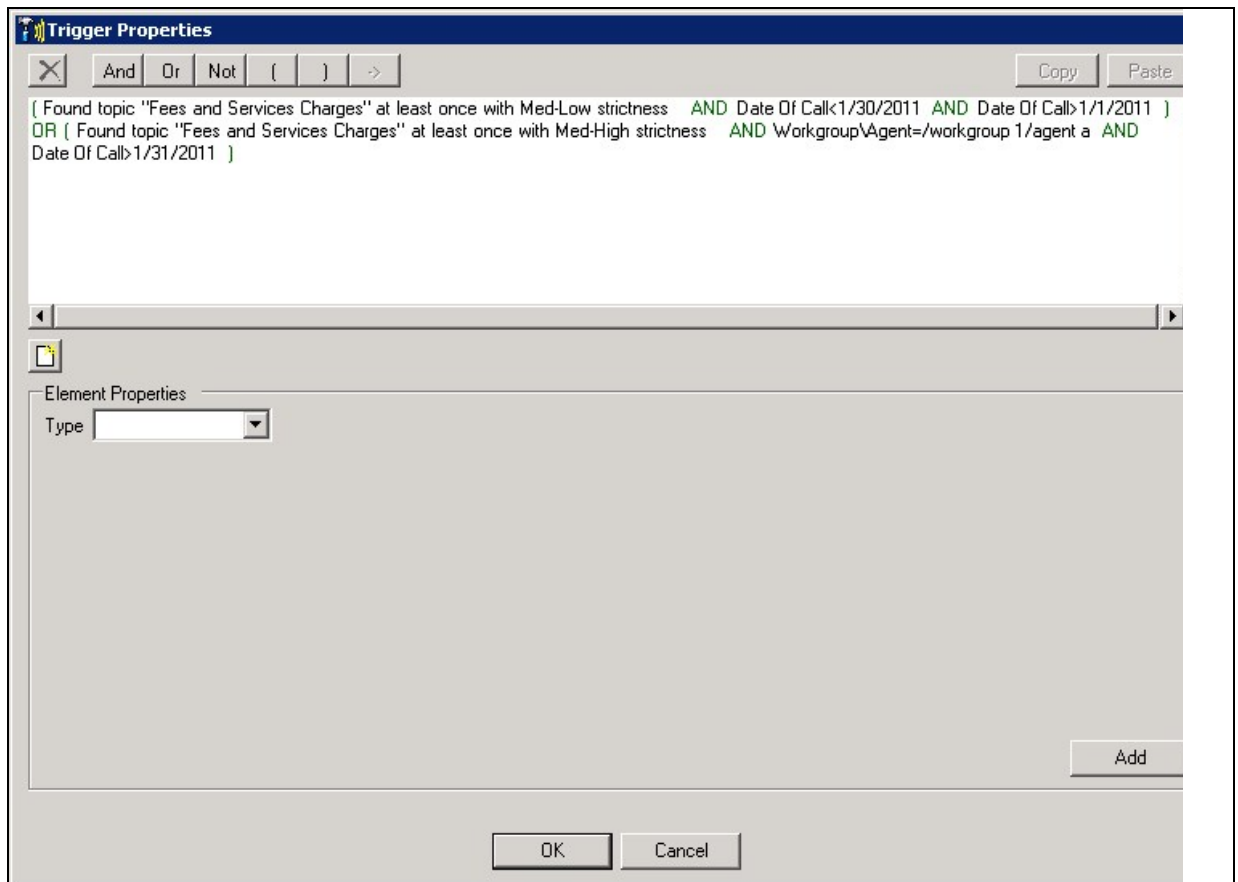
1. In the List pane, select the **Triggers** tab. A list of all the triggers that are defined in the Program structure is displayed.
2. Double-click the trigger for which you want to define the condition. The **Trigger Properties** dialog box opens. If any conditions are already defined for the trigger, they appear in the text area in the middle of the dialog box. Otherwise, the text area is blank.

Note: You can also open the dialog box by double-clicking the trigger in the structure diagram.



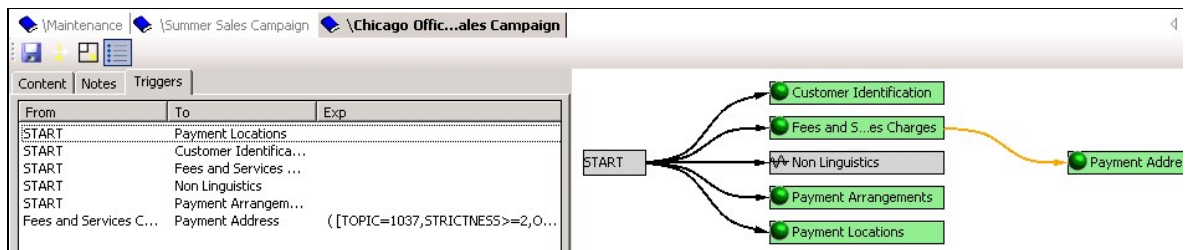
Trigger Properties dialog box

3. Add metadata elements, modify existing elements, and add or change operators as explained below.



Trigger Properties with logical expression defined

4. Click **OK**. The condition appears in the **Triggers** tab under **Exp**. If the expression contains metadata elements, the trigger is displayed in the structure diagram in orange.




Metadata trigger-condition displayed in orange

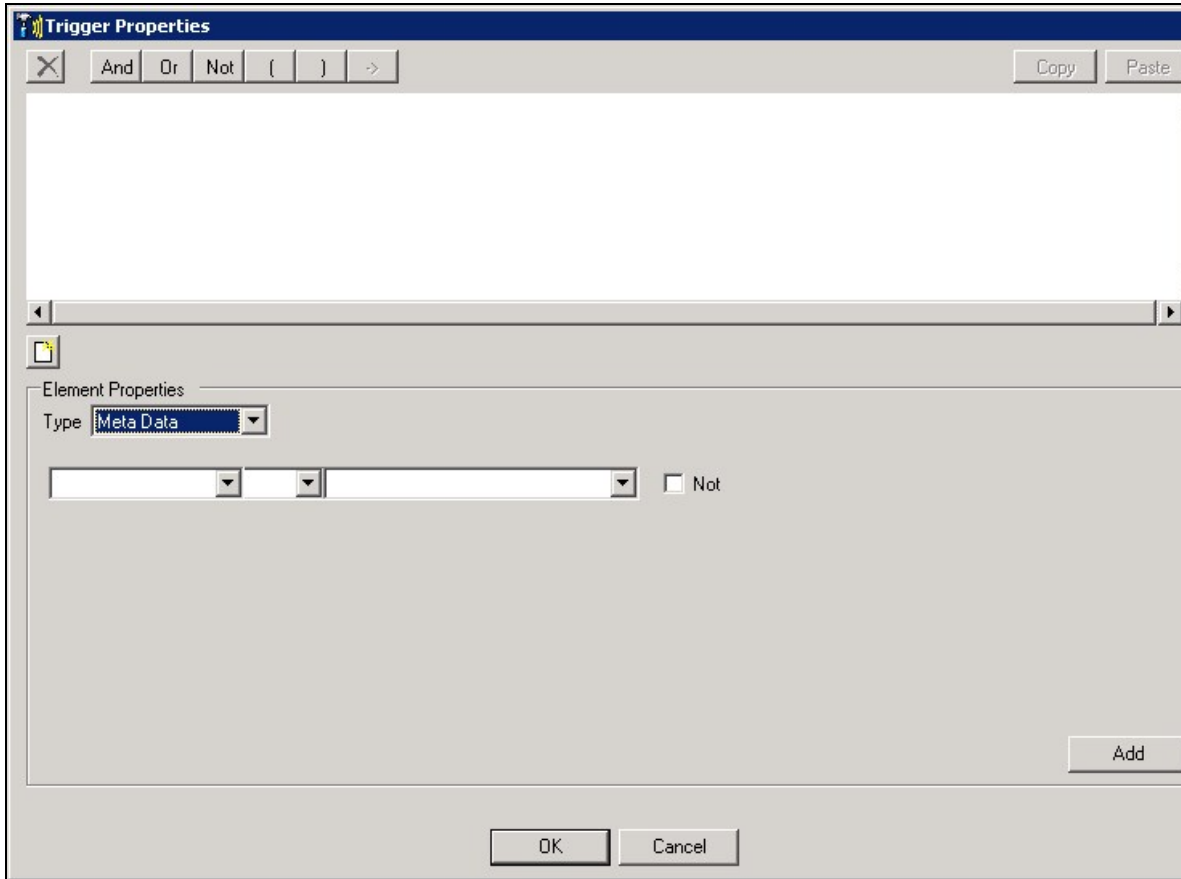
Adding Metadata Conditions

Metadata is information about calls that is gathered by the external recording system and relayed to SpeechMiner along with the call audio. Each system receives different sets of information about the calls that are passed to it for processing. For example, metadata could include the name of the agent for each call, the location of the customer, and the duration of the call.

You can define metadata conditions based on any of the metadata values available in your system. In addition, you can define different metadata conditions for each linguistic task in a Program. The conditions you define can be as simple as one metadata value or complex expressions that specify the relationships among a number of types of metadata. Take, for example, a sales campaign that is undertaken in Wyoming and in Texas. Certain agents in each location target senior citizens, while others target families with teenage children. To process calls to senior citizens differently from other calls that belong to the Program, you could define a condition that specifies either Agent1 or Agent2 if the customer is in Wyoming, and Agent3 if the customer is in Texas, and apply the condition to the items that are specific to the senior-citizen campaign.

To add a metadata element to an expression:

1. In the lower part of the **Trigger Properties** dialog box, click  to clear all existing selections.
2. Under **Type**, select **Metadata**. The fields required to select the metadata values are added to the dialog box below the **Type** field.



3. In the first field, specify the type of metadata. You can specify the type in one of two ways
 - If the type appears in the dropdown list, select it. For example, select **Workgroup\Agent** if you want to define a condition based on the workgroup or agent that handled the call.
 - Type the name of the type in the field. For example, if your system gathers data on call direction under the name **calldirection**, type **calldirection** if that is the name of that type of metadata.
4. In the remaining fields, specify the condition. In some cases, you can select an operator (<, >, or =) in the second field and specify a value in the third; in other cases, you only specify a value (and the = operator is assumed). You can specify a value by selecting it from the list or by typing it manually into the third text field.

Note: Some of the options may be arranged hierarchically. For example, if you select **Workgroup\Agent**, a list of workgroups is displayed. You can select a workgroup, or click the + beside the name of a workgroup to expand the list and display the names of the agents in the workgroup. If you select a workgroup, all members of the workgroup are included in the condition; if you expand a workgroup and select an agent, only that agent is included.
5. If you want the trigger to include all calls except those that match the condition, select **Not** (or click the **Not** operator, as explained [below](#)).
6. Click **Add**. The element is inserted into the expression.
7. If the element is not the first element in the expression, at the top of the dialog box, click the operator that should precede the element (**And**, **Or**, or **Not**). The operator is inserted into the expression before the element.

Inserting Parentheses into an Expression

Parentheses can be inserted into an expression to group elements together for evaluation as a single unit. Complex expressions often require parentheses to break them into smaller expressions so that the relationships between the expressions are clear. For example, if a Topic must be found in calls handled by one of two agents, and you wrote

```
Workgroup\Agent=workgroup 1/agent a OR Workgroup\Agent=workgroup 1/agent b AND Found topic
"Reduction" at least once with Low Strictness
```

it would not be clear whether the Topic must be found in calls handled by both agents or only in calls handled by agent b. If you add parentheses like this

```
(Workgroup\Agent=workgroup 1/agent a OR Workgroup\Agent=workgroup 1/agent b) AND Found
topic "Reduction" at least once with Low Strictness
```

the Topic would have to be found in calls handled by one of the agents. But if you write

```
Workgroup\Agent=workgroup 1/agent a OR (Workgroup\Agent=workgroup 1/agent b AND Found topic
"Reduction" at least once with Low Strictness)
```

the Topic would only be required in calls handled by agent b.

To insert parentheses into an expression:

1. Click the first element that you want to include in the parentheses. The element is selected.
2. At the top of the dialog box, click (. A (is inserted into the expression before the selected element.
3. Click the element or operator after the last element you want to include in the parentheses. If the element you want to include is the last element in the expression, do not select any items in the expression.
4. At the top of the dialog box, click). A) is inserted into the expression after the last element of the expression.

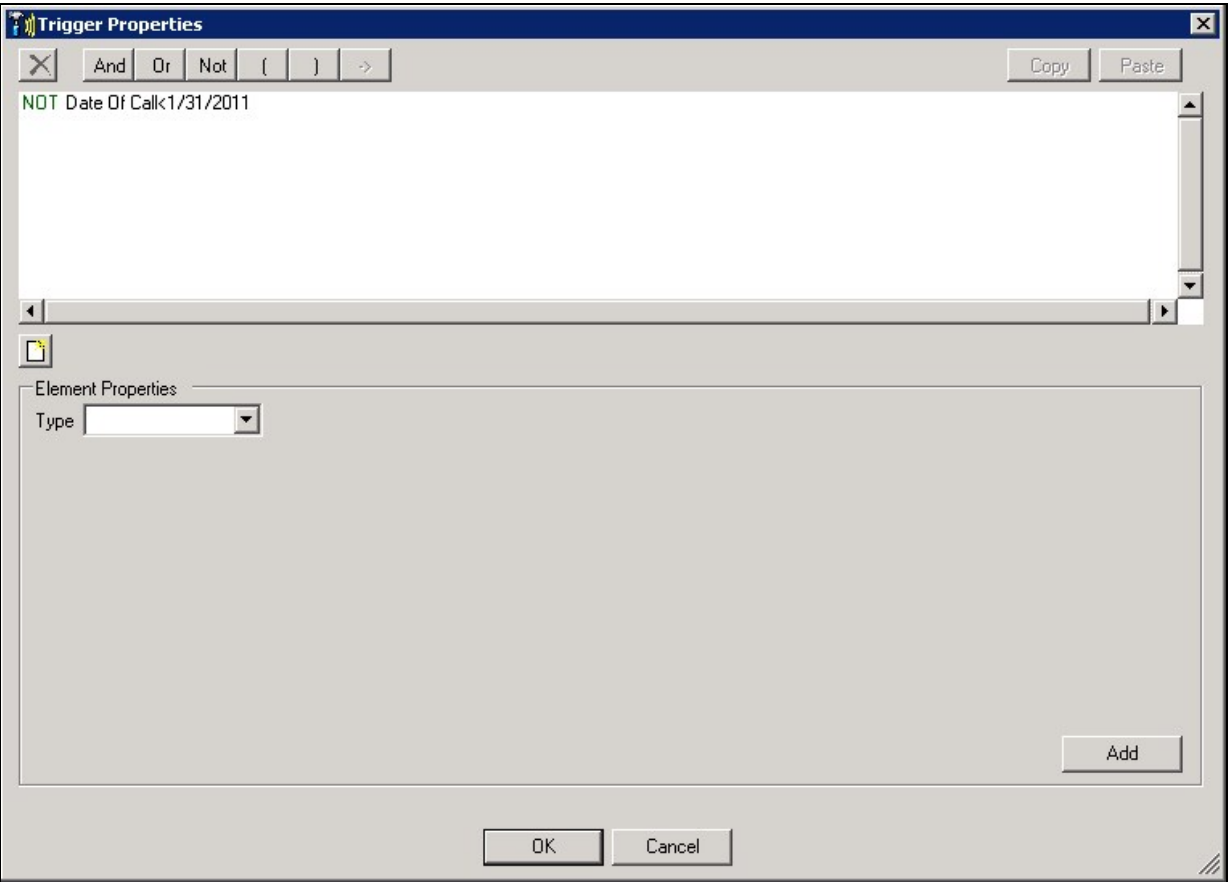
Defining a Negative Condition

A negative condition is a condition that must not be met if an expression is to be evaluated as True. For example, a condition that states that a call must not have taken place in the month of January is a negative condition. Negative conditions can be specified for a single element of an expression or a group of elements that are contained in parentheses.

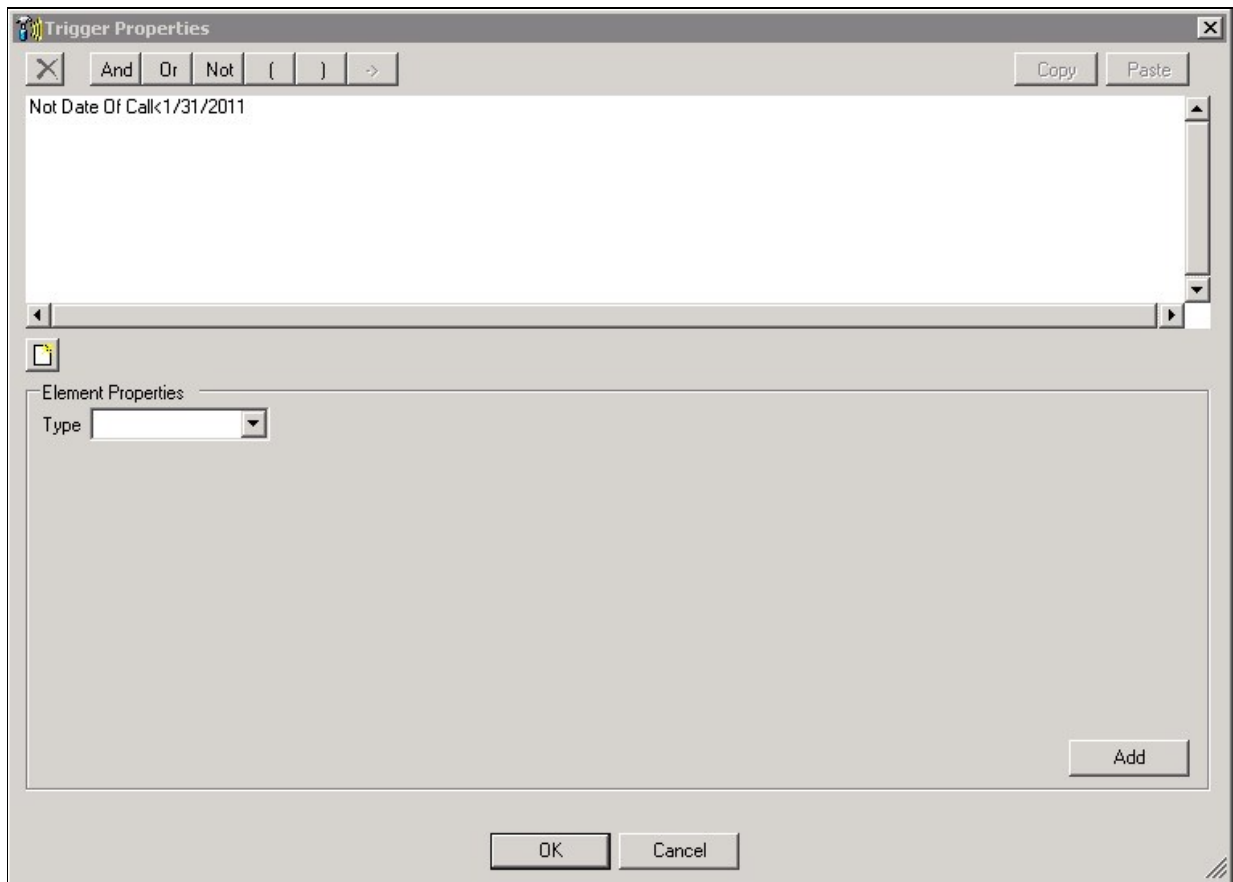
Two methods are available for creating a negative condition for a single element:

- Insert a NOT operator before the element.
- Select the **Not** option in the element's conditions.

In the following two illustrations, a negative condition is created in each of these ways. The meanings of the two conditions are identical: the condition is True as long as the date is not on or before January 31st, 2011.

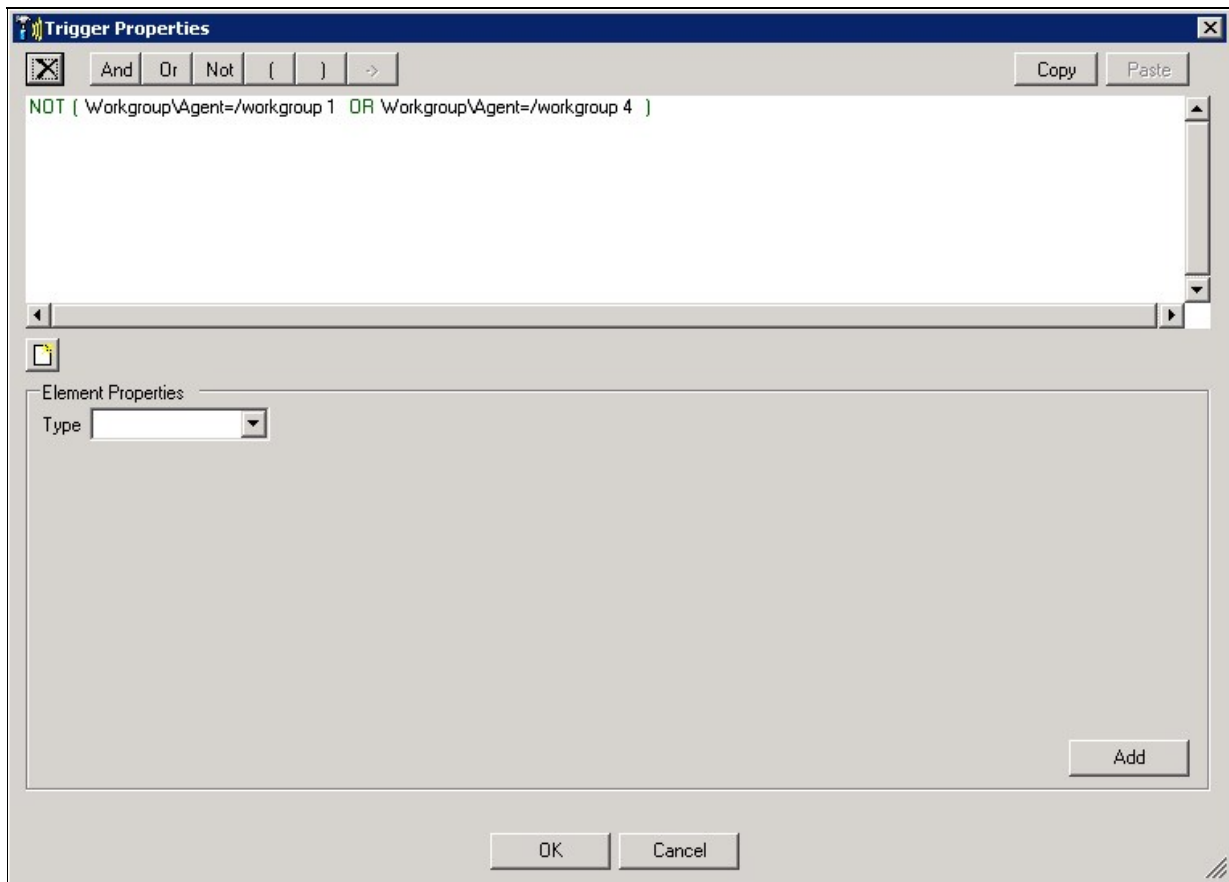


Negative condition created using the NOT operator



Negative condition created using the Not option

An expression containing multiple elements can only be marked as a negative condition using the NOT operator. For example, in the illustration below, the NOT operator is attached to a multi-element condition. The condition is True for all workgroups except workgroup 1 and workgroup 4.



NOT operator used to create a negative condition with multiple elements

To insert a NOT operator before an element or expression:

1. If the condition is an expression that contains multiple elements, make sure it is contained in parentheses.
2. In the text area of the **Trigger Properties** dialog box, select the element or expression.
3. At the top of the text area, click **Not**. A NOT operator is added to the condition before the selected item.

To select the Not option for an element:

1. If the properties of the element are not displayed, in the text area of the **Trigger Properties** dialog box, select the element.
2. In the condition area below the text area, select **Not**.
3. Click **Add** or **Update** to add or update the negative element in the text area.

Modifying the Elements of an Expression

You can modify the properties of elements that are already included in the expression. You can do this for metadata elements and for parent elements.

Modifying Metadata Elements

You can modify any of the properties of a metadata element.

To modify an existing metadata element:

1. In the text area, click the element. Its properties open below the text area.
2. Modify the settings as required (see [above](#)).
3. Click **Update**. The settings are modified.

Modifying Parent Elements

You can change the properties of a parent element, including the required number of occurrences of the element, its strictness level, and its timing constraints, but you cannot change it to a different Topic and you cannot move it to a different position in the Program structure. (To do these latter two things, you have to change the structure diagram; see [Managing the Program Structure](#).)

To modify a parent element:

1. In the text area, click the element. The element is selected and its properties open below the text area.

Trigger Properties

Found topic "Fees and Services Charges" at least once with Very-Low strictness

Element Properties

Type: Topic

Topic: Fees and Services Charges

☐ Not found

Occurrence

At least 1 Occurrence

At least Very-Low Strictness

Position

From 0 Secs Abs

To 0 Secs Abs from End

Speaker

Speaker Type: ANY

Update

OK Cancel

2. Modify the following settings as necessary:

Setting	Description
Not found	Select this option if you want the trigger to include all calls except those that match the condition; that is, the child should not be sought unless the parent is not found in the call
At least ___ Occurrences (Topics only)	Specify the minimum number of times the parent Topic must be found in the call in order for the child to be sought; if the parent recognition does not meet this minimum, SpeechMiner proceeds as if the parent was not found
At least ___ Strictness (Topics only)	Select the minimum level of strictness for the recognition of the parent Topic; if the parent recognition does not meet this minimum, SpeechMiner proceeds as if the parent was not found
From	Define the earliest position in the call audio at which the parent may be found, in seconds, and then select one of the following types of reference points: <ul style="list-style-type: none"> ▪ Secs Abs: The number of seconds is defined relative to the beginning of the call

	<ul style="list-style-type: none"> ▪ Secs Abs from End: The number of seconds is defined relative to the end of the call (i.e., the parent must be found no earlier in the call than this number of seconds from the end of the call) ▪ Secs Rel to Start of Prev: The number of seconds is defined relative to the beginning of the parent item ▪ Secs Rel to End of Prev: The number of seconds is defined relative to the end of the parent item
To	Define the latest position in the call audio at which the parent may be found, in seconds, and then select one of the types of reference points explained above.
Speaker Type	Select a speaker type if you want the trigger to only include locations in which the selected type of speaker is speaking, or ANY to include all speaker types.

3. Click **Update**. The settings are modified.

Copying an Expression from Another Trigger

You can copy an expression from the Trigger Properties of one trigger and paste it into the Trigger Properties of another trigger. The triggers do not have to be part of the same Program. After you paste the expression, you can edit it as necessary, just as you would edit any other expression.

To copy the trigger conditions from one trigger to another:

1. In the Program containing the source trigger, double-click the trigger. The **Trigger Properties** dialog box of the source trigger opens.
2. At the top-right of the dialog box, click **Copy**.
3. Click **OK**. The dialog box.
4. In the Program containing the target trigger, double-click the trigger. The **Trigger Properties** dialog box of the target trigger opens.
5. At the top-right of the dialog box, click **Paste**. The condition expression from the source trigger appears in the expression area of the dialog box.

Removing Elements and Operators from an Expression

You can remove any element or operator from an expression except for a parent element (which must be removed in the structure diagram; see [Managing the Program Structure](#)).

To remove an element or operator from an expression:

1. Click the element. The element is selected.
2. At the top of the dialog box, click **X**. The selected item is deleted from the expression.

See also

[Configuring Recognition Tasks](#)

Home > Managing Programs > Defining a New Program > Managing the Program Structure > Configuring Recognition Tasks

Configuring Recognition Tasks

By default, the linguistic recognition tasks of the Program are performed by SpeechMiner throughout the call and for any speaker. In other words, SpeechMiner searches for each item throughout the entire audio record of the call. You can specify exactly when a particular linguistic item should be sought in a call. Defining the search time makes searching more efficient and minimizes false-positive identifications. In some systems, you can also specify that an item should only be sought in a call if a particular speaker or type of speaker (caller, agent, etc.) took part in the call.

Note: You can also specify other preconditions for linguistic items by defining and configuring triggers. See [Configuring Trigger Properties](#).

Non-linguistic recognition tasks are performed on all calls and on all parts of each call. Silence, busy tones, music and noise, dial tones, DTMF key presses, and ring-back tones are always detected. By default, non-verbal agitation is not sought. However, you can choose to search for it if you wish.

Configuring Linguistic Recognition Tasks

You can specify when each linguistic recognition task should be performed in a call by defining a time range in which it can appear. Both the start time and the end time of the range can be defined relative to either the start or end time of the call. If the recognition task is the child of another item in the Program structure, you can also define the times relative to the start or end time of the parent item.

Note: When SpeechMiner operates in Analytics and Recording UI mode, the audio of a single call may be divided into segments. Recognition is performed on each segment of these calls separately. Because of this, if you define the start and end times of an Event relative to the start or end time of a parent item, the recognition task will only recognize the Event if it is found in the same segment of the call as the parent item.

In some systems, you can also specify that the recognition task should only be performed in the call if certain types of speakers took part in the call. For example, you could choose to perform the recognition task only if a supervisor participated in the call.

To configure a linguistic recognition task:

1. In the List pane, select the Content tab. The recognition tasks that are included in the Program are listed.
2. Double-click the recognition task. The **Recognition Task** dialog box opens.

Note: You can also open the dialog box by double-clicking the rectangle representing the task in the Program structure diagram.

The image shows a 'Recognition Task' dialog box. The 'Name' field is 'Phone_Service'. The 'Type' is 'Script'. Under 'Search Times', 'From' is '30' and 'To' is '0', both with dropdown menus showing 'Secs Abs' and 'Secs Abs from End'. Under 'Speakers', 'Any' is checked, and 'agent' and 'supervisor' are unchecked. There are 'OK' and 'Cancel' buttons at the bottom.

Recognition Task dialog box for linguistic tasks (Scripts)

3. Under **From**, define the earliest time that the start of the task should be sought in the call audio, in seconds.
For both options, select one of the following types of reference points:
 - **Secs Abs:** The number of seconds is defined relative to the beginning of the call
 - **Secs Abs from End:** The number of seconds is defined relative to the end of the call (i.e., the item must be found no earlier in the call than this number of seconds from the end of the call)
 - **Secs Rel to Start of Prev:** The number of seconds is defined relative to the beginning of the parent item (for child items)
Note: In segmented calls, the child item will only be recognized if it is found in the same segment as the parent item.
 - **Secs Rel to End of Prev:** The number of seconds is defined relative to the end of the parent item (for child items)
Note: In segmented calls, the child item will only be recognized if it is found in the same segment as the parent item.

4. Under **To**, define the latest time that the start of the task should be sought in the call audio, in seconds, and select the reference point as explained above.
5. In some systems, you can choose one or more types of speakers for the recognition task. If you can do so in your system, the **Any** checkbox is active. Clear the checkbox if you want to select one or more types of speakers from the list, and then select the speakers.
6. Click **OK**. The setting is saved.

Configuring Non-Linguistic Recognition Tasks

You can choose whether SpeechMiner should search for evidence of agitation in calls that belong to the Program.

To configure the non-linguistic recognition task:

1. In the List pane, select the Content tab. The recognition tasks that are included in the Program are listed.
2. Double-click the Non Linguistics task. The **Recognition Task** dialog box opens.

Note: You can also open the dialog box by double-clicking the Non Linguistics rectangle in the Program structure diagram.



Recognition Task dialog box for non-linguistic tasks

3. If you want SpeechMiner to search for evidence of agitation in calls belonging to the Program, select **Agitated**. If you do not, clear the checkbox.
4. Click **OK**. The setting is saved.

See also

[Configuring Trigger Properties](#)

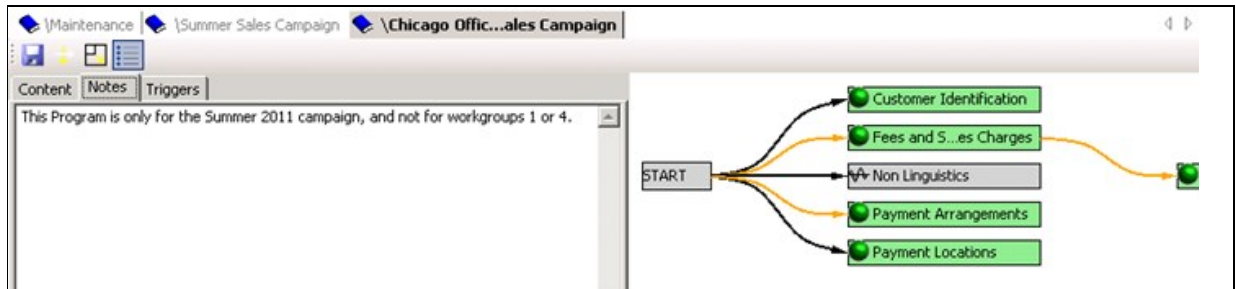
[Home](#) > [Managing Programs](#) > [Defining a New Program](#) > [Using Notes](#)

Using Notes

You can add notes to the entire Program as necessary. The notes can be seen by SpeechMiner users when they review calls that belong to the Program.

To add new Program notes and modify existing notes:

- In the List pane, select the **Notes** tab. The existing notes are displayed. Modify the text as required.



Notes in the Notes tab

See also


[Creating a Blank Program](#)
[Adding Topics](#)
[Managing the Program Structure](#)
[Saving and Activating the Program](#)

Home > Managing Programs > Defining a New Program > Saving and Activating the Program

Saving and Activating the Program

When you open a blank Program, it is saved automatically. When you add or modify recognition tasks or other items, you should save the Program manually. For additional information about saving changes in SMART and applying them to SpeechMiner, see [Saving and Applying Changes](#).


To save a Program:

- To the upper-left of the right panel, click  (**Save**).

A saved Program can be active or inactive. When an active Program is applied to SpeechMiner, it can be used to process calls that belong to it. When an inactive Program is applied, it is saved in SpeechMiner but cannot be used to process calls. Calls that belong to it are not processed. This feature allows you to temporarily stop using a Program when you want to modify it.

Before you apply a new Program to SpeechMiner, make sure it is active. Active Programs appear in the tree list in bold type.

To activate a Program:

1. In the left panel, in the **Program Manager** tab, select the Program.
2. In the tree controls above the tree structure, click  (**Activate**). The Program is activated.

See also

[Creating a Blank Program](#)
[Adding Topics](#)
[Managing the Program Structure](#)
[Using Notes](#)

Home > Managing Programs > Modifying a Program

Modifying a Program


Modifying an existing Program includes the following tasks:

- Managing the recognition tasks of the Program:
 - Adding or removing recognition tasks
 - Modifying the Program structure
 - Modifying the configuration of the recognition tasks and triggers
 - Managing Program notes
- Changing the priority level of the Program
- Activating or deactivating the Program
- Changing the properties of the Program
- Moving the Program to a different folder

Managing the Recognition Tasks

In order to manage the Program's recognition tasks, you must open the Program in the right panel. Once it is open, you can follow the instructions for defining a new Program to modify it as necessary. See [Defining a New Program](#).

To open a Program:

1. In the left panel, click the **Program Manager** tab. The list of existing Programs is displayed in the tree structure.
2. Double-click the Program, or select the Program and then click  (**Open Program**). The Program opens in a tab in the right panel.

Changing the Priority Level of the Program

The priority level tells SpeechMiner in what order to process calls that are in the processing queue: Calls with higher priority are processed first. Five priority levels are defined: Very High, High, Medium, Low, and Very Low. The default priority level is Medium. For additional information about priority levels, see [Managing Programs](#).

Note: This level, and the process order setting, can be changed in SpeechMiner under **Tools>System Admin>Manage Call Queue**

The priority level is one of the Program properties, and can be modified in the **Program Properties** dialog box, as explained [below](#). However, you can also raise or lower the priority level without opening the dialog box, as follows:


To change the priority level of the Program:

- In the left panel, in the tree list, right-click the Program, and then select **Increase Program Priority** to raise the priority one level, or **Decrease Program Priority** to lower the priority one level. The change is automatically saved.

Saving Changes

Whenever you make changes to the contents of a Program, you must save the changes in order for them to be implemented in SMART. For additional information about saving changes in SMART and implementing them in SpeechMiner, see [Saving and Applying Changes](#).

To save changes to the Program:


- To the upper-left of the right panel, click  (**Save**).

Activating or Deactivating a Program

A saved Program can be active or inactive. When an active Program is applied to SpeechMiner, it can be used to process calls that belong to it. When an inactive Program is applied, it is saved in SpeechMiner but cannot be used to process calls. Calls that belong to it are not processed. This feature allows you to temporarily stop using a Program when you want to modify it. For example, if you want to modify a Program that is currently being used to process calls, the first thing you might want to do is deactivate the Program so that it will not process any more calls until the change you make is applied.


When you deactivate a Program that has been applied to SpeechMiner previously, you have to apply the change in order to deactivate it in SpeechMiner.

To deactivate a Program:

1. In the left panel, in the **Program Manager** tab, select the Program.
2. In the tree controls above the tree structure, click  (**Deactivate**). The Program is deactivated in SMART.
3. If you want to deactivate the Program in SpeechMiner, apply the Program. For additional information, see [Applying Changes](#).

After you modify a Program, make sure it is active before you apply it to SpeechMiner. Active Programs appear in the SMART tree list in bold type.

To activate a Program:

1. In the left panel, in the **Program Manager** tab, select the Program.
2. In the tree controls above the tree structure, click  (**Activate**). The Program is activated.

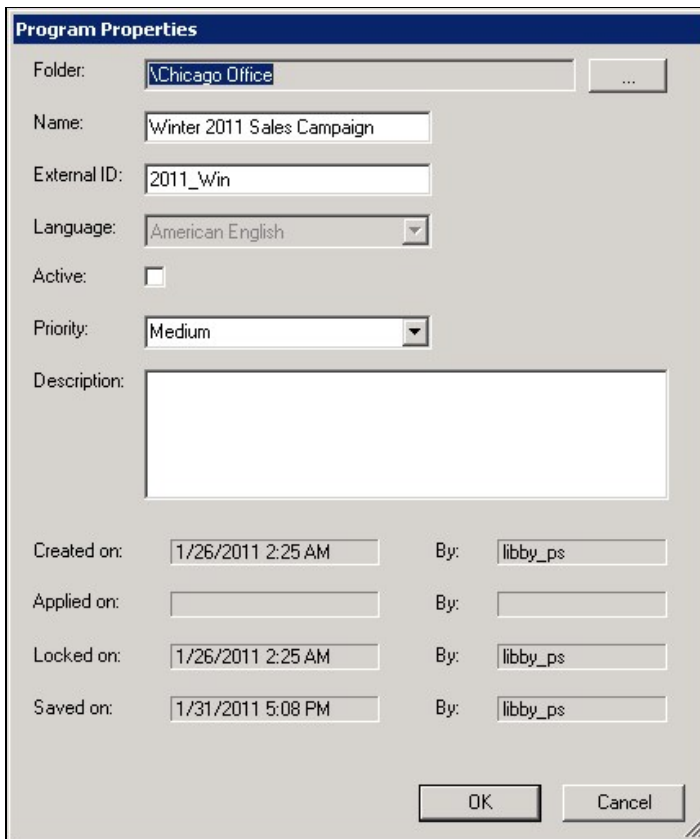
Note: You can also activate or deactivate a Program in the **Program Properties** dialog box, as explained below.

Modifying Program Properties

Many of the Program properties are set automatically by the system and cannot be changed by users, but you can change all of the user-defined properties except for the language.

To modify Program properties:

1. In the left panel, click the **Program Manager** tab. The list of existing Programs is displayed in the tree structure.
2. Right-click the Program, and then select **Open Program Properties**. The **Program Properties** dialog box opens.



The **Program Properties** dialog box is shown with the following fields and values:

- Folder:** \Chicago Office
- Name:** Winter 2011 Sales Campaign
- External ID:** 2011_Win
- Language:** American English
- Active:** ☐
- Priority:** Medium
- Description:** (Empty text box)
- Created on:** 1/26/2011 2:25 AM
- By:** libby_ps
- Applied on:** (Empty text box)
- By:** (Empty text box)
- Locked on:** 1/26/2011 2:25 AM
- By:** libby_ps
- Saved on:** 1/31/2011 5:08 PM
- By:** libby_ps

Buttons: OK, Cancel

Program Properties dialog box

3. Modify the properties as necessary. (For information about these properties, see [Opening a Blank Program](#).)
4. Click **OK**. The dialog box closes, and the properties are modified.

Moving a Program to a Different Folder

You can move a Program to a different folder at any time, either by changing its **Folder** in the **Program Properties**, as described [above](#), or by dragging the Program to another folder in the tree list (see [Organizing Items Hierarchically](#)).

See also

[Overview of the Program-Manager Interface](#)
[Defining a New Program](#)
[Deleting Programs](#)

[Home](#) > [Managing Programs](#) > [Deleting Programs](#)

Deleting Programs

You can delete Programs that are not required, as long as they are not linked to Categories. If you want to delete a Program that is linked to a Category, remove it from the Category definition first (see [Modifying a Category](#)).

To delete one or more Programs:

1. Make sure the Programs you want to delete are closed.
2. In the left panel, click the **Program Manager** tab. The list of existing Programs is displayed in the tree structure.
3. In the tree structure, select the Programs you want to delete. To select multiple Programs, hold down the **Ctrl** key while you click them.
4. In the tree controls above the tree structure, click **X (Delete)**. For each Program, a **Program Deletion** message appears.



Program Deletion message

5. Click **Yes**. The Program is deleted. If additional Programs were selected, a **Program Deletion** message appears for each one. Click **Yes** to confirm each deletion.

Note: If you want to delete all of the selected Programs without confirming each one, select **Apply to All** before you select **Yes**.

See also

[Overview of the Program-Manager Interface](#)
[Defining a New Program](#)
[Modifying a Program](#)

[Home](#) > [Managing Categories](#)

Managing Categories

Categories are used to group calls with similar characteristics so that SpeechMiner users can find calls that require their attention for particular reasons. The call characteristics that define a Category can be as simple as "calls in which the Topic of interest rates was found," but they can also be very complex, defining a very specific mix of characteristics. For example, a Category can be defined to group calls in which the Topic Payments was mentioned by the agent, the customer displayed signs of agitation, and the call-center supervisor was called in to deal with the customer during the last two minutes of the call.

SpeechMiner assigns calls to Categories after it has finished processing them. All the Categories in the system are global Categories that can be applied to any call. When call processing is completed for a call, SpeechMiner goes one by one through the list of Categories in the system and checks whether the call meets the conditions of the Category. If it does, the call is assigned to the Category. A single call may not belong to any Categories, but it can also belong to many Categories.

Category assignment is intended to help reviewers find calls with particular characteristics so that they can analyze them and compare them. For example, reviewers may wish to compare how different agents handled customer agitation during a particular sales campaign. It also enables SpeechMiner to perform statistical analysis on calls. For example, SpeechMiner can check the percentage of calls in September in which customers exhibited agitation.

Categories can be nested: a parent-Category can contain sub-Categories, and there can even be multi-tiered Categories, in which a Category is a sub-Category of one Category and a parent-Category to other Categories. In this case, only the lowest-level Category in the hierarchy is defined by specifying the characteristics of the calls that belong to it; the parent-Categories are defined as containers for their sub-Categories. Thus, when SpeechMiner identifies a call as belonging to a sub-Category, it automatically identifies it as belonging to the parent-Category as well. For example, a Category called Sales Campaigns could contain the sub-Categories Spring Campaign and Summer Campaign, and each of these sub-Categories could contain a number of their own sub-Categories, such as Supervisor Required, Customer Agitated, and Customer Agreement. Any call that was included in the Supervisor Required Category of the Spring Campaign would automatically also belong to the Spring Campaign Category and to the Sales Campaigns Category. Call reviewers could use any of these Categories to find calls belonging to the Supervisor Required Category of the Spring Campaign.

Another type of Category is a Manual Category. These Categories have no criteria at all; users of SpeechMiner can use them to group calls manually when they are reviewing them. For example, a manual Category could be Weekly Review, and a SpeechMiner user could use it to save a list of calls to review during routine weekly staff meetings.

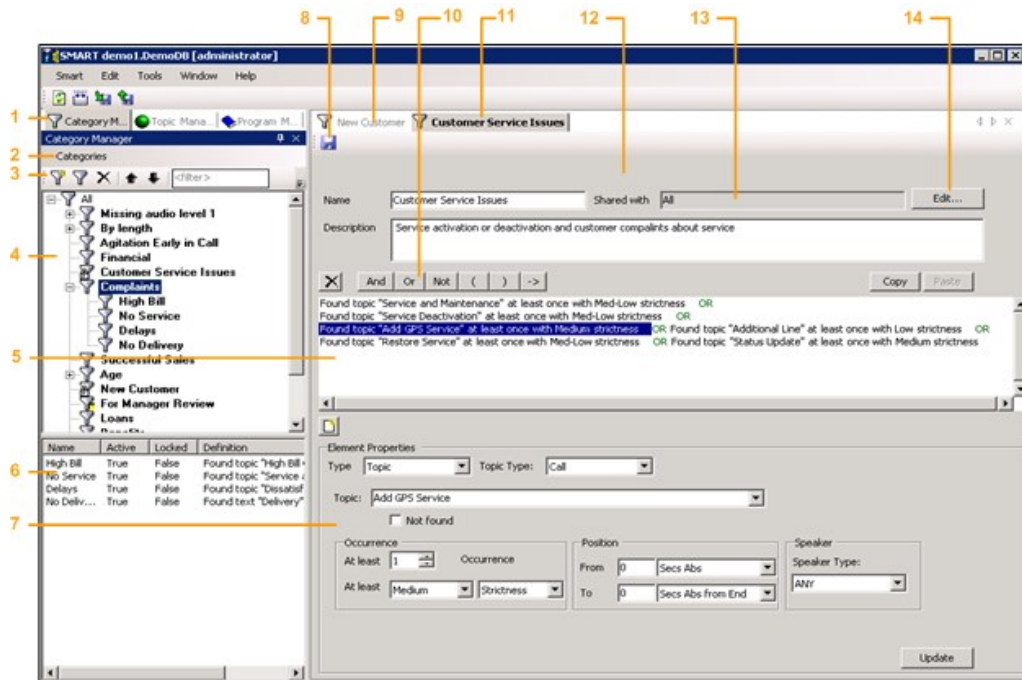
See also


- [Welcome](#)
- [Overview](#)
- [Managing Topics](#)
- [Managing Programs](#)
- [Applying Changes](#)
- [Managing Version History](#)
- [Exporting and Importing](#)

[Home](#) > [Managing Categories](#) > [Overview of the Category-Manager Interface](#)

Overview of the Category-Manager Interface

The Category Manager contains the following elements:



Element	Number in Illustration	Description
Category Manager tab	1	Select this tab to display the Category Manager
Categories menu	2	Click to open a menu for managing items in the tree list (also available by right-clicking anywhere in the tree list)
Tree-list controls	3	Controls for managing the items in the tree list (i.e., shortcuts to some of the Categories menu items) and filtering the items Note: If the left pane is not wide enough to display all of the items in the menu bar, click the arrow () on the right to access the hidden options.
Tree structure	4	Expandable list of Categories
Expression area	5	Box containing a logical expression that defines the conditions for inclusion in the Category that is open and selected in the right panel
Child Categories list	6	Displays a list of the sub-Categories of the Categories that are selected in the Tree structure, with information about the status and definition of each one. All levels of sub-Categories are included in the list. For example, if you select a Category whose sub-Categories have sub-Categories, the sub-Categories of both levels are included. Note: To select multiple Categories in the Tree structure, hold down Ctrl or Shift and click the Categories. Ctrl selects each Category you click; Shift selects all of the Categories between the first Category and the second Category you click. Note: In the Child Categories list, use the bottom scroll bar to view hidden parts of the list. Place your mouse cursor over the definition column to see the complete definition.
Element Properties area	7	Area in which each statement (condition) contained in the logical expression is defined or modified
Save button	8	Click to save changes that were made to the displayed Category; changes are saved in SMART, but not applied in SpeechMiner

Open Category tab	9	Tab of a Category that is open but not currently displayed Note: Click the tab to display the Category.
Operator buttons	10	Click a button to insert the selected operator into the logical expression; the operator is inserted immediately before the selected statement or, if no statements are selected, at the end of the expression
Displayed Category tab	11	Tab of the currently displayed Category Note: Multiple windows can be open at one time in SMART. Click a tab to view the desired window.
Category definition pane	12	The right panel of the Category Manager, in which the properties of the Category, including the logical expression that defines the conditions for inclusion in the Category, are defined
Sharing settings	13	Displays the current sharing settings of the Category
Edit sharing-settings button	14	Click to open a dialog box in which you can edit the sharing settings of the Category

See also

[Defining a New Category](#)
[Modifying Categories](#)
[Deleting Categories](#)

Home > Managing Categories > Defining a New Category

Defining a New Category

Categories can be created in one of two ways:

- Manually by a SMART user, by creating a blank Category and constructing a logical expression to define which calls belong to it
- Automatically by SMART when a Topic is saved (see [Saving the Topic](#)); in this case, the default definition of the Category is essentially "calls in which the Topic was found"

In either case, the characteristics that define the Category can be edited to include all relevant conditions. This section explains how to create a blank Category and construct the logical expression that defines which calls belong to it. For information about modifying a Category that was created automatically, see [Modifying a Category](#).

See also

[Overview of the Category-Manager Interface](#)
[Modifying Categories](#)
[Deleting Categories](#)

Home > Managing Categories > Defining a New Category > Creating a Blank Category

Creating a Blank Category

A Category definition consists of a name, a description (optional), sharing properties, and, in some cases, a logical expression that defines the types of calls to which the Category can be assigned. Three types of Categories exist in SpeechMiner:

- Regular Categories:** Categories that have conditions defined in the form of a logical expression. When SpeechMiner processes a call, the call is automatically assigned to this type of Category if it matches the requirements that are defined in the condition. These Categories can be independent (on the top level of the Category hierarchy) or they can be sub-Categories of other, parent Categories.
- Parent Categories:** Categories that contain other Categories. These Categories have a name and description, but do not include a logical expression. Calls are assigned to them when they are assigned to any of their sub-Categories. Any Category can be converted into a parent Category by adding sub-Categories to it. (When a regular Category is converted into a parent Category, the logical expression that defined the Category is deleted.)

- **Manual Categories:** Categories that have no conditions; SpeechMiner users manually assign calls to them as required.

The sharing properties of a Category define which users will see it in the SpeechMiner interface. Users with whom a Category is shared will see the Category in the lists of Categories available for selection in the Call Explorer and in Category filters. Sharing settings are intended to remove "clutter" by hiding Categories that are not relevant to particular users. For example, if a particular workgroup only deals with calls that relate to maintenance issues, you can choose not to share sales Categories with that group. In this way, members of that workgroup will not have to encounter large numbers of Categories that do not concern them. In addition, if you are creating a new Category, you may not want to share it with anyone else until you have fully tested it. Once the testing process is complete, you can change the sharing settings and [apply](#) the change to SpeechMiner.

By default, Categories are shared with all SpeechMiner users. You can change this by specifying groups, workgroups, roles, and/or specific users with whom a Category should be shared.



Note: Category sharing does not affect which calls a user can see or play back.


To create a blank Category:

1. In the tree list, select **All** to create an independent Category, or select an existing Category to create the new Category as a sub-Category of the selected Category.

Note: If you select an existing Category, the conditions defined for inclusion in the Category (its logical expression) are automatically erased.

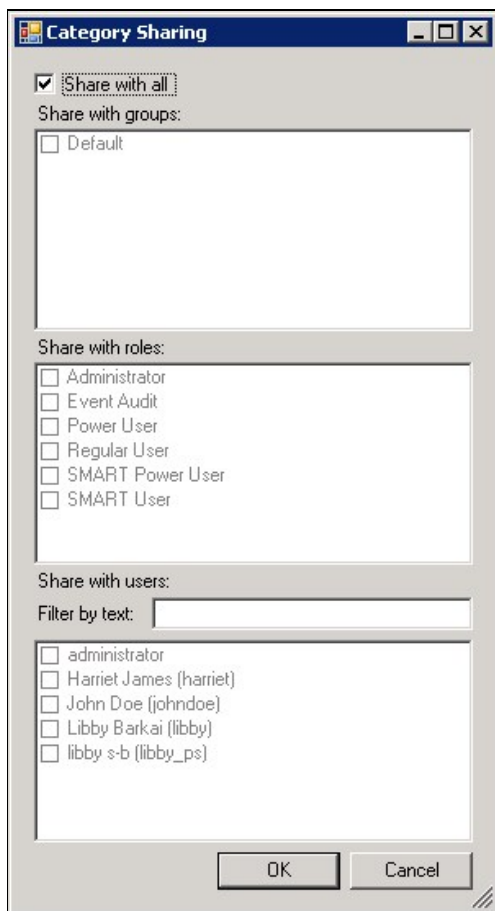
Note: You can also move the Category to a parent Category later.

2. In the **Categories** menu, click  (**New Category**) to create a regular Category or  (**New Manual Category**) to create a manual Category. The blank Category opens in the right panel.

Note: You can also create a new regular Category by selecting  in the tree-list controls, but you must open the **Categories** menu to create a manual Category. The **Categories** menu can be opened either by clicking **Categories** above the tree-list controls or by right-clicking in the tree list. For additional information, see [Overview of the Main Window](#).

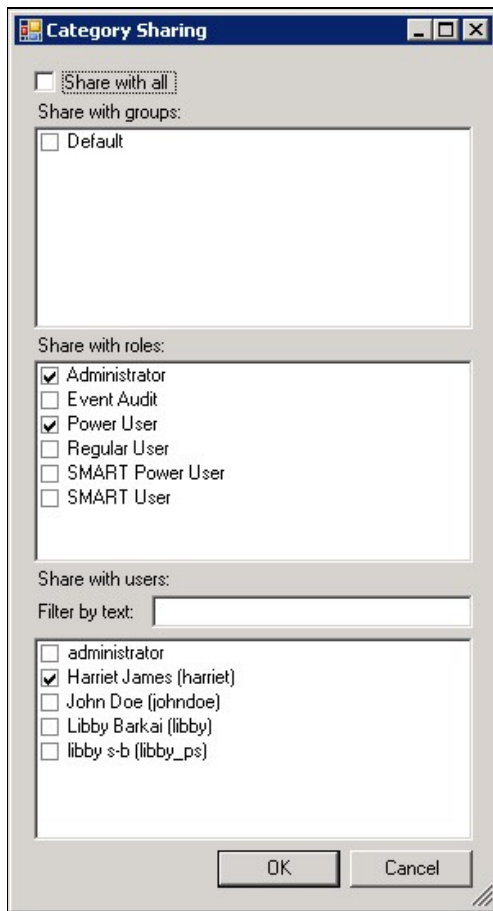
The screenshot shows a software window titled 'New Category'. At the top, there are three tabs: 'Bill Inquiry', 'Fees and Service Charges', and 'New Category'. The 'New Category' tab is active. Below the tabs, there are two input fields: 'Name' with the text 'New Category' and 'Shared with' with the text 'All'. To the right of these fields is an 'Edit...' button. Below these fields is a large text area for 'Description'. Below the text area is a row of buttons: a close button (X), 'And', 'Or', 'Not', '(', ')', and '->'. To the right of these buttons are 'Copy' and 'Paste' buttons. Below this row is a large empty text area. At the bottom left, there is a section titled 'Element Properties' with a 'Type' dropdown menu. At the bottom right, there is an 'Add' button.

3. Under **Name**, enter a name for the Category.
4. If you want to limit the types of SpeechMiner users with which the Category is shared, click **Edit**. The **Category Sharing** dialog box opens.




Note: If you do not want to change the sharing settings, [skip to step 8 below](#).

5. Clear the **Share with all** checkbox. The sharing options become active.
6. Select the groups, roles, and/or users with which the Category should be shared.



Note: To filter the list of users, type a sequence of characters that appears in the user name you want to find. The list is filtered; only user names that contain the sequence you type are displayed.

7. Click **OK**. The sharing settings are displayed in the **Shared with** field.
8. Under **Description**, enter a description for the Category (optional).
9. On the upper-left of the right panel, click  (**Save**). The Category is saved.

Note: If the Category is a regular Category, you can configure its conditions, as explained under [Configuring Category Conditions](#), before you save it. If the Category is a parent Category or a manual Category, it does not require any additional configuration, and must be saved at this point.

See also

[Configuring Category Conditions](#)
[Saving and Activating the Category](#)

[Home](#) > [Managing Categories](#) > [Defining a New Category](#) > [Configuring Category Conditions](#)

Configuring Category Conditions

A call is assigned to a regular Category if it meets the conditions that are defined for inclusion in the Category. The conditions can include a wide variety of call characteristics, including the Program the call belongs to, Topics that were recognized in it, non-linguistic Events that were detected in it, its metadata properties, and even other Categories to which it belongs.

Logical Expressions

Configuring Category conditions is performed by defining a logical expression for SpeechMiner to evaluate. If the logical expression is evaluated as True for a particular call, the call is assigned to the Category.

Logical expressions can consist of one or more elements. Each element is a statement, such as Date Of Call>1/19/2010 or Found topic "Reduction" at least once with Low Strictness. If a logical expression contains one element, it is True whenever the condition defined in the element is true. For example, if a logical expression contains the element Date Of Call>1/19/2010, it is True for any call whose metadata indicates that it took place on or after 1/19/2010.

Logical expressions can also contain multiple elements. When they do, the elements must be related to one another by logical operators, such as AND and OR. For example, Date Of Call>1/19/2010 AND Found topic "Reduction" at least once with Low Strictness is a logical expression that indicates both conditions must be met - the Topic must be found and the call must have taken place in the specified time period - in order for the expression to be evaluated as True and the call to be assigned to the Category.

The following operators can be used in logical expressions:

Operator	Description
AND	Both conditions must be met in order for the expression to be evaluated as True
OR	At least one of the conditions must be met in order for the expression to be evaluated as True
NOT	The expression should be evaluated as True only when the condition is not met.
(Opens a group of conditions that are evaluated as a unit
)	Closes a group of conditions that are evaluated as a unit
->	Conditional AND: Both conditions must be met, but the second condition is dependent in some way on the first (e.g., the second must occur within 30 seconds of the end of the first); this operator is used in conjunction with the Secs Rel to Start of Prev or the Secs Rel to End of Prev position setting

Logical expressions can be quite complex, containing a number of elements, various logical operators, and parentheses, if necessary. For example:

(Date Of Call>1/1/2011 AND Date Of Call<1/30/2011 AND Found topic "Payment Locations" at least once with Low Strictness)
OR (Date Of Call>1/31/2011 AND (Found topic "Time Frame" at least once with Low Strictness OR Found topic "Payment Locations" at least once with Medium Strictness))

means the call should be assigned to the Category if it took place between Jan. 1st and Jan. 30th and the Topic "Reduction" was found, or if the call took place Jan. 31st or later and either the Topic "Time Frame" or the Topic "Payment Locations" was found.

Defining Logical Expressions


The logical expressions that are used as Category conditions are configured by incorporating elements and logical operators to create the conditional statement.

Inserting Elements into an Expression

Elements of the following types can be included in the logical expression:

- Call metadata
- Non-linguistic Event information about the call
- The Program to which the call belongs
- Topics that were or were not found in the call
- Other Categories to which the call belongs
- Whether or not a speaker of a particular type (e.g., agent, supervisor) participated in the call (not available in all systems)
- Text that was or was not found in the transcript of the call

To add an element to the logical expression:

1. If you want to insert the element at the end of the expression, in the lower part of the right panel, click  to clear all existing selections. Otherwise, select the element in the expression before which you want to insert the new element.
2. Under **Type**, select the type of element you want to add to the expression. The fields required to select and configure the element are added to the right panel below the **Type** field. For information about the settings and options of each type of element, see:

- [Configuring Metadata Elements](#)

- [Configuring Non-Linguistic Event Elements](#)
- [Configuring Program Elements](#)
- [Configuring Topic Elements](#)
- [Configuring Category Elements](#)
- [Configuring Speaker-Type Elements](#)
- [Configuring Text Elements](#)

3. Click **Add**. The element is inserted into the expression.

Inserting Operators into an Expression

You can add logical operators (see [above](#)) to the expression as necessary to define the relationships between the elements of the expression.

Note: There is no precedence among the logical operators in an expression. For example, NOT does not take precedence over AND, as it may in other environments. Thus, NOT A AND NOT B does not mean the same as (NOT A) AND (NOT B); rather it means the same as NOT (A AND NOT B). For this reason, it is important to use parentheses to ensure that the operators define the condition as you intend them to. By contrast, the internal [Not](#), which is an element property, always relates just to the element that follows it. Thus, Not A AND Not B does mean the same as (NOT A) AND (NOT B).

Inserting AND, OR, NOT, and Conditional AND Operators into an Expression

AND, OR, NOT, and Conditional AND (->) define the relationship between two consecutive elements in an expression. You can add these operators to an expression as required.

To insert AND, OR, NOT, or Conditional AND into an expression:

1. Click the second of the two consecutive elements. The element is selected.
2. At the top of the dialog box, click the required operator. The operator is inserted into the expression before the selected element.

Inserting Parentheses into an Expression

Parentheses can be inserted into an expression to group elements together for evaluation as a single unit. Complex expressions often require parentheses to break them into smaller expressions so that the relationships between the expressions are clear. For example, if a Topic must be found in calls handled by one of two agents, and you wrote

```
Workgroup\Agent=workgroup 1/agent a OR Workgroup\Agent=workgroup 1/agent b AND Found topic
"New Account" at least once with Low Strictness
```

it would not be clear whether the Topic must be found in calls handled by both agents or only in calls handled by agent b. If you add parentheses like this

```
(Workgroup\Agent=workgroup 1/agent a OR Workgroup\Agent=workgroup 1/agent b) AND Found
topic "New Account" at least once with Low Strictness
```

the Topic would have to be found in calls handled by one of the agents. But if you write

```
Workgroup\Agent=workgroup 1/agent a OR (Workgroup\Agent=workgroup 1/agent b AND Found topic
"New Account" at least once with Low Strictness)
```

the Topic would only be required in calls handled by agent b.

To insert parentheses into an expression:

1. Click the first element that you want to include in the parentheses. The element is selected.
2. At the top of the dialog box, click (. A (is inserted into the expression before the selected element.
3. Click the element or operator after the last element you want to include in the parentheses. If the element you want to include is the last element in the expression, do not select any items in the expression.
4. At the top of the dialog box, click). A) is inserted into the expression after the last element of the expression.

Defining a Negative Condition

A negative condition is a condition that must not be met if an expression is to be evaluated as True. For example, a condition that states that a call must not have taken place in the month of January is a negative condition. Negative conditions can be specified for a

single element of an expression or a group of elements that are contained in parentheses.

Two methods are available for creating a negative condition for a single element:

- Insert a NOT operator before the element.
- Select the **Not** or **Not found** option in the element's conditions.

In the following two illustrations, a negative condition is created in each of these ways. The meanings of the two conditions are identical: the condition is True as long as the date is not on or before January 1st, 2011.

The screenshot shows a software window titled "New Customer - 2011". At the top, there is a "Name" field containing "New Customer - 2011" and a "Shared with" dropdown menu set to "All". Below these is a large "Description" text area. A toolbar below the description contains buttons for "X", "And", "Or", "Not", "(", ")", and "->". The "Not" button is highlighted. To the right of the toolbar are "Copy" and "Paste" buttons. Below the toolbar, the text "NOT Date Of Call<1/1/2011" is displayed in a green font. At the bottom of the window, there is an "Element Properties" section with a "Type" dropdown menu. An "Add" button is located in the bottom right corner.

Negative condition created using the NOT operator

New Customer - 2011

Name: Shared with:

Description:

Not Date Of Call < 1/1/2011

Element Properties

Type:

Negative condition created using the Not option

An expression containing multiple elements can only be marked as a negative condition using the NOT operator. For example, in the illustration below, the NOT operator is attached to a multi-element condition. The condition is True for all workgroups except workgroup 1 and workgroup 4.

New Customer - 2011

Name: Shared with:

Description:

NOT (Workgroup\Agent=/workgroup 1 OR Workgroup\Agent=/workgroup 4)

Element Properties

Type:

NOT operator used to create a negative condition with multiple elements

To insert a NOT operator before an element or expression:

1. If the condition is an expression that contains multiple elements, make sure it is contained in parentheses.
2. In the expression area of the Category definition, select the element or expression.
3. At the top of the expression area, click **Not**. A NOT operator is added to the condition before the selected item.

To select the Not option for an element:

1. If the properties of the element are not displayed, in the expression area of the Category definition, select the element.
2. In the condition area below the expression area, select **Not**.
3. Click **Add** or **Update** to add or update the negative element in the expression area.

Copying Elements of an Expression from One Category to Another

You can copy one or more elements of an expression from a Category and paste them into another Category. After you paste them, you can edit them as necessary, just as you would edit any other expression (see [Modifying a Category](#)).

To copy the elements of an expression from one Category to another:

1. In the source Category, select the elements of the expression that you want to copy. To select multiple elements, hold down the **Shift** or **Ctrl** keys as you select them.
2. In the source Category, at the top-right of the dialog box, click **Copy**.

3. In the target Category, at the top-right of the dialog box, click **Paste**. The selected elements of the source expression appear in the logical-expression area of the target.

See also

[Creating a Blank Category](#)
[Saving and Activating the Category](#)

[Home](#) > [Managing Categories](#) > [Defining a New Category](#) > [Configuring Category Conditions](#) > [Configuring Metadata Elements](#)

Configuring Metadata Elements

Metadata is information about calls that is gathered by the external recording systems and relayed to SpeechMiner along with the call data. Each system receives different sets of information about the data that is passed to it for processing. For example, metadata for calls could include the name of the agent for each call, the location of the customer, and the duration of the call.

You can define metadata conditions based on any of the metadata values available in your system. The conditions you define can be as simple as one metadata value or they can be complex expressions that specify the relationships among a number of types of metadata. Consider, for example, a sales campaign that is undertaken in Wyoming and in Texas. Certain agents in each location target senior citizens, while others target families with teenage children. To assign senior-citizen calls to a Category, you could define a condition that specifies either Agent1 or Agent2 if the customer is in Wyoming and Agent3 if the customer is in Texas.

When you add a metadata element to an expression (see [Inserting Elements into an Expression](#)), the fields required to select and configure the element are added to the right panel below the **Type** field.

To configure a metadata element:

1. In the first field, specify the type of metadata. You can specify the type in one of two ways
 - If the type appears in the dropdown list, select it. For example, select **Workgroup\Agent** if you want to define a condition based on the workgroup or agent that handled the call.
 - Type the name of the type in the field. For example, if your system gathers data on call direction under the name calldirection, type **calldirection** if that is the name of that type of metadata.

The screenshot shows a window titled "Element Properties". Inside, there is a "Type" dropdown menu currently showing "Meta Data". Below this, there is a configuration area for a condition. It starts with a dropdown menu showing "Call Duration (sec)". To its right is another dropdown menu showing comparison operators: "<", ">", and ">=". To the right of the operators is a text input field. Further right is a checkbox labeled "Not". At the bottom right of the window is an "Add" button.

2. In the remaining fields, specify the condition. In some cases, you can select an operator (<, >, or =) in the second field and specify a value in the third; in other cases, you only specify a value (and the = operator is assumed). You can specify a value by selecting it from the list or by typing it manually into the third text field.

Note: Some of the value options may be arranged hierarchically. For example, if you select **Workgroup\Agent**, a list of workgroups is displayed. You can select a workgroup, or click the + beside the name of a workgroup to expand the list and display the names of the agents in the workgroup. If you select a workgroup, all members of the workgroup are included in the condition; if you expand a workgroup and select an agent, only that agent is included.

3. If you want the condition to include all calls except those that match the condition, select **Not**. (For additional information, see [Configuring Category Conditions](#).)

See also

[Configuring Non-Linguistic Event Elements](#)
[Configuring Program Elements](#)
[Configuring Topic Elements](#)
[Configuring Category Elements](#)
[Configuring Speaker-Type Elements](#)
[Configuring Text Elements](#)

Home > Managing Categories > Defining a New Category > Configuring Category Conditions > Configuring Non-Linguistic Event Elements

Configuring Non-Linguistic Event Elements

Non-linguistic Events include various sounds that SpeechMiner detects in a call, such as busy tones, key presses, and music or noise. Depending on the Program settings of the call, non-verbal indications of agitation may also be detected. In addition, the non-linguistic Event called **Cross Talk** is identified when two speakers are talking at the same time. This type of Event can only be identified in systems in which dual-channel recording is employed.

In some cases, an element can include more than one type of related Event. For example, you can select **Silence**, **Busy Tone**, and **Dial Tone** together, but you cannot select **Agitation** along with other types of Events. When you select multiple types of non-linguistic Events, if any of those Events is found in the call, it meets the condition.

When you add a non-linguistic Event element to an expression (see [Inserting Elements into an Expression](#)), the fields required to select and configure the element are added to the right panel below the **Type** field. You can use these fields to select the type of non-linguistic Event and specify what proportion of the call must contain this type of Event and when it must be detected in the call.

To configure a non-linguistic Event element:

1. Under **Non Linguistics**, select the type of non-linguistic Event. Other types of non-linguistic Events, types that cannot be selected along with the selected type, become inactive. If it is possible to select additional types, they remain active.

The screenshot shows the 'Element Properties' dialog box. The 'Type' dropdown is set to 'Non Linguistic'. Below it, the 'Non Linguistics' section contains checkboxes for Silence, DTMF, Busy Tone, Ring Back Tone, Music/Noise, Agitated, Dial Tone, and Cross Talk. The 'Position' section has 'From' and 'To' fields, both set to '0', and dropdown menus for 'Secs Abs' and 'Secs Abs from'. There is also a 'Not found' checkbox. An 'Add' button is at the bottom right.

If you selected **DTMF**, a dropdown menu appears. If you selected **Silence**, **Busy Tone**, **Music/Noise**, **Dial Tone**, **Ring Back Tone**, or **Cross Talk**, the **Amount** area opens below the **Position** area.

2. If additional types of Events are active, select any of the other active types, as required.
3. If you selected **DTMF**, in the dropdown menu beside the option, select **any** to accept any key press, or select a key from the list.

4. If you selected **Silence**, **Busy Tone**, **Music/Noise**, **Dial Tone**, **Ring Back Tone**, or **Cross Talk**, in the **Amount** area, define the amount of time that the selected types of non-linguistic Events must occupy in the total time of the call, as follows:

Field	Description
From	Define the minimum amount of time that the selected types of non-linguistic Events must occupy in the total time of the call in one of the following ways: <ul style="list-style-type: none"> ▪ Seconds: The minimum number of seconds in the call in which the types of Events must be found ▪ Percentage: The minimum proportion of the call in which the types of Events must be found, expressed as a percentage. (Insert the % character after the value to indicate it is a percentage.)
To	Define the maximum amount of time that the selected types of non-linguistic Events must occupy in the total time of the call, as explained above.
Accumulated Amount / Continuous	Select one of the following: <ul style="list-style-type: none"> ▪ Accumulated Amount: The values in the From and To fields refer to the total amount of time in the call audio in which the selected types of Events were found, even if the total consists of more than one distinct Event. ▪ Continuous: The values in the From and To fields refer to individual Events in the call audio. That is, an Event only meets the condition if it lasted at least as long as the value in the From field and not longer than the value in the To field.

5. Modify the following settings as necessary:

Setting	Description
Not found	Select this option if you want the condition to include all calls except those in which the selected types of non-linguistic Events were found. (For additional information, see Configuring Category Conditions.)
From	Define the earliest position in the call audio at which the non-linguistic Event may be found, in seconds, and then select one of the following types of reference points:

	<ul style="list-style-type: none"> ▪ Secs Abs: The number of seconds is defined relative to the beginning of the call ▪ Secs Abs from End: The number of seconds is defined relative to the end of the call (i.e., the Event must be found no earlier in the call than this number of seconds from the end of the call) ▪ Secs Rel to Start of Prev: The number of seconds is defined relative to the beginning of the previous item in the expression; this option will only work if the operator connecting the two elements is Conditional AND (->). Otherwise, selecting this is the same as selecting Secs Abs. ▪ Secs Rel to End of Prev: The number of seconds is defined relative to the end of the parent item; this option will only work if the operator connecting the two elements is Conditional AND (->). Otherwise, selecting this is the same as selecting Secs Abs from End.
To	Define the latest position in the call audio at which the non-linguistic Event may be found, in seconds, and then select one of the types of reference points explained above.

See also

[Configuring Metadata Elements](#)
[Configuring Program Elements](#)
[Configuring Topic Elements](#)
[Configuring Category Elements](#)
[Configuring Speaker-Type Elements](#)
[Configuring Text Elements](#)

Home > Managing Categories > Defining a New Category > Configuring Category Conditions > Configuring Program Elements

Configuring Program Elements

A Program element specifies that a call must (or must not) belong to a Program in order for the call to be assigned to the Category.

When you add a Program element to an expression (see [Inserting Elements into an Expression](#)), the fields required to select and configure the element are added to the right panel below the **Type** field. You can use these fields to select the Program and indicate if the call must belong to the Program or must not belong to the Program in order to meet the requirements of the Category.

To add a Program element:

1. Under **Program**, select the Program.

The screenshot shows a software interface titled 'Element Properties'. It contains a 'Type' dropdown menu with 'Program' selected. Below it is a 'Program:' label followed by a dropdown menu showing '{MFT Bank}January Campaign' and an unchecked checkbox labeled 'Not'. In the bottom right corner, there is an 'Add' button.

2. If you want the condition to include all calls except those that belong to the Program, select **Not**. (For additional information, see [Configuring Category Conditions](#).)

See also

[Configuring Metadata Elements](#)
[Configuring Non-Linguistic Event Elements](#)
[Configuring Topic Elements](#)
[Configuring Category Elements](#)
[Configuring Speaker-Type Elements](#)
[Configuring Text Elements](#)

Home > Managing Categories > Defining a New Category > Configuring Category Conditions > Configuring Topic Elements

Configuring Topic Elements

A Topic element specifies that a Topic must be found (or must not be found) by SpeechMiner in a call in order for the call to be assigned to the Category.

When you add a Topic element to an expression (see [Inserting Elements into an Expression](#)), the fields required to select and configure the element are added to the right panel below the **Type** field. You can use these fields to select the Topic and specify its required number of occurrences in the call, its strictness level, and its timing constraints.

To add a Topic element:

1. Under **Topic**, select the Topic.

2. Modify the following settings as necessary:

Setting	Description
Not found	Select this option if you want the condition to include all calls except those in which the Topic was found. (For additional information, see Configuring Category Conditions .)
At least __ Occurrences	Specify the minimum number of times the Topic must have been found in the call in order for the condition to be met.
At least __ Strictness	Select the minimum level of strictness for the recognition of the Topic; if the Topic recognition does not meet this minimum, SpeechMiner proceeds as if the Topic was not found. Note that this only limits strictness beyond the Topic's defined strictness.
From	Define the earliest position in the call audio at which the Topic may be found, in seconds, and then select one of the following types of reference points: <ul style="list-style-type: none"> ▪ Secs Abs: The number of seconds is defined relative to the beginning of the call ▪ Secs Abs from End: The number of seconds is defined relative to the end of the call (i.e., the Topic must be found no earlier in the call than this number of seconds from the end of the call) ▪ Secs Rel to Start of Prev: The number of seconds is defined relative to the beginning of the previous item in the expression; this option will only work if the operator connecting the two elements is Conditional AND (->). Otherwise, selecting this is the same as selecting Secs Abs. ▪ Secs Rel to End of Prev: The number of seconds is defined relative to the end of the parent item; this option will only work if the operator connecting the two elements is Conditional AND (->). Otherwise, selecting this is the same as selecting Secs Abs from End.

To	Define the latest position in the call audio at which the Topic may be found, in seconds, and then select one of the types of reference points explained above.
Speaker Type	Select a speaker type if the Topic must be found when the selected type of speaker is speaking, or ANY to include all speaker types.

See also

[Configuring Metadata Elements](#)
[Configuring Non-Linguistic Event Elements](#)
[Configuring Program Elements](#)
[Configuring Category Elements](#)
[Configuring Speaker-Type Elements](#)
[Configuring Text Elements](#)

Home > Managing Categories > Defining a New Category > Configuring Category Conditions > Configuring Category Elements

Configuring Category Elements

A Category element specifies that a call must (or must not) belong to another Category in order for the call to be assigned to the Category that is currently being configured.

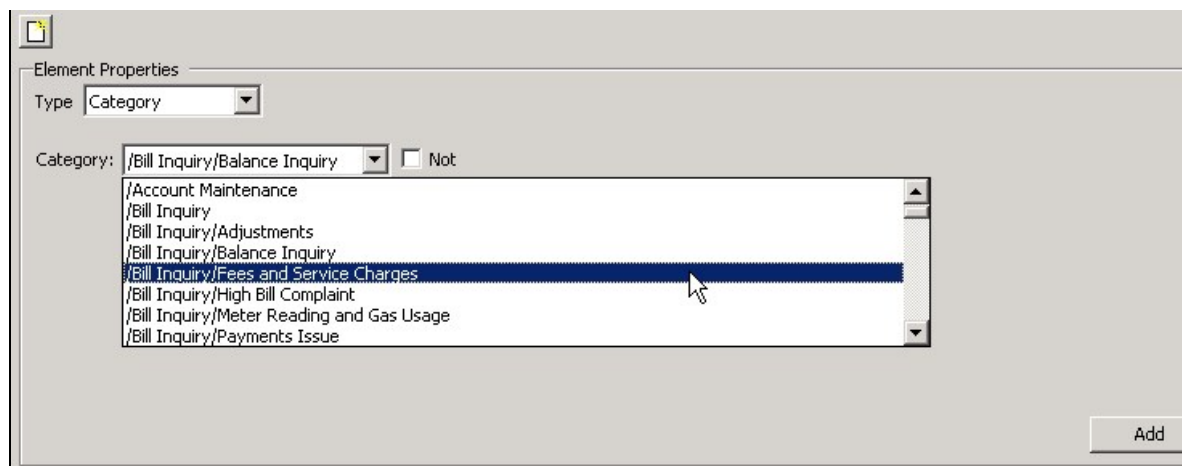
When you add a Category element to an expression (see [Inserting Elements into an Expression](#)), the fields required to select and configure the element are added to the right panel below the **Type** field. You can use these fields to select the Category and indicate if the call must belong to the Category or must not belong to the Category in order to meet the requirements of the current Category. Sub-Categories appear in the list of available Categories as separate Categories, and their parent Categories are indicated. For example, a Category called Adjustments that is a sub-Category of a Category called Bill Inquiry appears in the list of Categories as Bill Inquiry/Adjustments.

Although you can create circular Category references, the Categories in which they appear cannot be applied to SpeechMiner. For example, if Category A is an element of the expression that defines Category B, Category B cannot also be an element of the expression that defines Category A. If they are, the circular references are indicated in the **Apply** dialog box, in the **Message** column of each Category. For additional information about applying changes to SpeechMiner, see [Applying Changes](#).

Note: Including a Category element in the expression that defines a Category is not the same as making one a sub-Category of the other. For additional information about sub-Categories, see [Managing Categories](#).

To add a Category element:

1. Under **Category**, select the Category.



2. If you want the condition to include all calls except those that belong to the Category, select **Not**. (For additional information, see [Configuring Category Conditions](#).)

See also

[Configuring Metadata Elements](#)
[Configuring Non-Linguistic Event Elements](#)
[Configuring Program Elements](#)
[Configuring Topic Elements](#)
[Configuring Speaker-Type Elements](#)
[Configuring Text Elements](#)

Home > Managing Categories > Defining a New Category > Configuring Category Conditions > Configuring Speaker-Type Elements

Configuring Speaker-Type Elements

A Speaker-Type element specifies that a speaker of a particular type must have taken part (or must not have taken part) in a call in order for the call to be assigned to the Category. This information is gathered by the recording system and passed on to SpeechMiner along with the call data. The exact type of information available depends on the recording system that is employed in your company.

Some recording systems also indicate the times in the call when each speaker was heard. In these cases, you can also specify the times in the call when the type of speaker must have taken part in the call in order for the call to meet the condition. For example, you could specify that a supervisor must have taken part in the last 120 seconds of the call.

When you add a Speaker-Type element to an expression (see [Inserting Elements into an Expression](#)), the fields required to select and configure the element are added to the right panel below the **Type** field. You can use these fields to select the Speaker-Type and specify its timing constraints.

To add a Speaker-Type element:

1. Under **Speaker-Type**, select the type of speaker.

1. If you want the condition to include all calls except those that match the condition, select **Not**. (For additional information, see [Configuring Category Conditions](#).)
2. Modify the following settings as necessary:

Setting	Description
From	<p>Define the earliest position in the call audio at which the speaker may be found, in seconds, and then select one of the following types of reference points:</p> <ul style="list-style-type: none"> ▪ Secs Abs: The number of seconds is defined relative to the beginning of the call ▪ Secs Abs from End: The number of seconds is defined relative to the end of the call (i.e., the Script must be found no earlier in the call than this number of seconds from the end of the call)

	<ul style="list-style-type: none">▪ Secs Rel to Start of Prev: The number of seconds is defined relative to the beginning of the previous item in the expression; this option will only work if the operator connecting the two elements is Conditional AND (->). Otherwise, selecting this is the same as selecting Secs Abs.▪ Secs Rel to End of Prev: The number of seconds is defined relative to the end of the parent item; this option will only work if the operator connecting the two elements is Conditional AND (->). Otherwise, selecting this is the same as selecting Secs Abs from End.
To	Define the latest position in the call audio at which the speaker may be found, in seconds, and then select one of the types of reference points explained above.

See also

- Configuring Metadata Elements
- Configuring Non-Linguistic Event Elements
- Configuring Program Elements
- Configuring Topic Elements
- Configuring Category Elements
- Configuring Text Elements

Home > Managing Categories > Defining a New Category > Configuring Category Conditions > Configuring Text Elements

Configuring Text Elements

A Text element specifies that a phrase containing one or more words must be found (or must not be found) by SpeechMiner in the transcript of a call in order for the call to be assigned to the Category. The phrase must be found exactly as it is entered in the Text element definition to meet the condition, except that it is not case sensitive. For example, "i want to repay my loan" and "I want to Repay My loan" are treated as identical phrases, but "I wanted to repay my loan" and "I want you to repay my loan" are not identified as matching them.

When you add a Text element to an expression (see [Inserting Elements into an Expression](#)), the fields required to select and configure the element are added to the right panel below the **Type** field. You can use these fields to specify the phrase, its required number of occurrences in the call, its strictness level, and its timing constraints.

To add a Text element:

1. Under **Text**, enter the phrase. The phrase should consist of a sequence of one or more whole words. The words should be separated by single spaces, and no punctuation or other symbols should be included in the sequence. The text is not case-sensitive.

Element Properties

Type

Text

Text:

☐ Not found

Occurrence

At least

1

 Occurrences

At least

0

 Confidence

Position

From

0

 Secs Abs

To

0

 Secs Abs from End

Speaker

Speaker Type:

ANY

Add

2. Modify the following settings as necessary:

Setting	Description
Not found	Select this option if you want the condition to include all calls except those in which the phrase was found. (For additional information, see Configuring Category Conditions .)

At least __ Occurrences	Specify the minimum number of times the phrase must have been found in the call in order for the condition to be met.
At least __ Confidence	Select the minimum level of confidence for the recognition of the phrase; if the Confidence level does not meet this minimum, SpeechMiner proceeds as if the phrase was not found.
From	Define the earliest position in the call audio at which the phrase may be found, in seconds, and then select one of the following types of reference points: <ul style="list-style-type: none"> ▪ Secs Abs: The number of seconds is defined relative to the beginning of the call ▪ Secs Abs from End: The number of seconds is defined relative to the end of the call (i.e., the phrase must be found no earlier in the call than this number of seconds from the end of the call) ▪ Secs Rel to Start of Prev: The number of seconds is defined relative to the beginning of the previous item in the expression; this option will only work if the operator connecting the two elements is Conditional AND (->). Otherwise, selecting this is the same as selecting Secs Abs. ▪ Secs Rel to End of Prev: The number of seconds is defined relative to the end of the parent item; this option will only work if the operator connecting the two elements is Conditional AND (->). Otherwise, selecting this is the same as selecting Secs Abs from End.
To	Define the latest position in the call audio at which the phrase may be found, in seconds, and then select one of the types of reference points explained above.
Speaker Type	Select a speaker type if the phrase must be found when the selected type of speaker is speaking, or ANY to include all speaker types.

See also


[Configuring Metadata Elements](#)
[Configuring Non-Linguistic Event Elements](#)
[Configuring Program Elements](#)
[Configuring Topic Elements](#)
[Configuring Category Elements](#)
[Configuring Speaker-Type Elements](#)

Home > Managing Categories > Defining a New Category > Saving and Activating the Category

Saving and Activating the Category

When you create a blank Category, it is saved automatically. When you modify the name, description, or conditional expression, you should save the Category manually. For additional information about saving changes in SMART and applying them to SpeechMiner, see [Saving and Applying Changes](#).


To save a Category:

- To the upper-left of the right panel, click  (**Save**).

A saved Category can be active or inactive. When an active Category is applied to SpeechMiner, calls can be assigned to it. When an inactive Category is applied, it is saved in SpeechMiner but calls cannot be assigned to it. This feature allows you to temporarily stop using a Category when you want to modify it.

Before you apply a new Category to SpeechMiner, make sure it is active. Active Categories appear in the tree list in bold type.

To activate a Category:

1. In the left panel, in the **Category Manager** tab, select the Category.
2. In the tree controls above the tree structure, click  (**Activate**). The Category is activated.

See also

Creating a Blank Category

Configuring Category Conditions

Home > Managing Categories > Modifying Categories

Modifying Categories


Modifying existing Categories includes the following tasks:

- Modifying the definition of a Category:
 - Changing the logical expression that defines the conditions of the Category, by adding, modifying, or removing elements or operators
 - Changing the sharing settings of the Category
 - Changing the name or description of the Category
- Activating or deactivating a Category
- Moving a Category up or down in the tree list
- Modifying Category nesting
- Sorting the sub-Categories of a parent Category alphabetically

Modifying the Definition of a Category

You can modify all parts of the definition of a Category - its name, description, and the logical expression that defines the conditions for assigning a call to a Category. To modify any aspect of a Category, you must open the Category in the right panel. When you have finished making changes to the Category, you must save them in SMART.

To open a Category:

1. In the left panel, click the **Category Manager** tab. The list of existing Categories is displayed in the tree structure.
2. Double-click the Category, or select the Category and then click  (**Open Category**). The Category opens in a tab in the right panel.

Changing the Sharing Settings of a Category

You can change the sharing settings of a Category as necessary.

To change the sharing settings of a Category:

1. To the right of the **Share with** field, click **Edit**. The **Category Sharing** dialog box opens.
2. Modify the settings as necessary. For additional information, see [Opening a Blank Category](#).
3. Click **OK**. The **Share with** field is updated.

Changing the Name and Description of a Category

You can change the name and description of a Category as necessary.

To change the name or description of a Category:

- Modify the **Name** and **Description** fields as necessary.

Adding Elements and Operators to the Expression

For information about adding elements to the expression, see [Inserting Elements into an Expression](#). For information about adding operators, see [Inserting Operators into an Expression](#).

Modifying the Properties of an Element

You can change the properties of any of the elements that are already included in the expression. For additional information about logical expressions, see [Configuring the Category](#).


To modify the properties of an existing element:

1. In the text area, click the element. Its properties open below the text area.
2. Change the properties as required. For additional information about the properties of each type of element, see:
 - [Configuring Metadata Elements](#)
 - [Configuring Non-Linguistic Event Elements](#)
 - [Configuring Program Elements](#)
 - [Configuring Topic Elements](#)
 - [Configuring Speaker-Type Elements](#)
 - [Configuring Text Elements](#)
3. Click **Update**. The properties are modified.

Removing Elements and Operators from the Expression

You can remove any element or operator from the expression.


To remove an element or operator from an expression:

1. Click the element. The element is selected.
2. At the top of the right panel, click . The selected item is deleted from the expression.

Saving Changes

Whenever you modify a Category, you must save the changes in order for them to be implemented in SMART. For additional information about saving changes in SMART and implementing them in SpeechMiner, see [Saving and Applying Changes](#).

To save changes to a Category:

- To the upper-left of the right panel, click  (**Save**).

Activating or Deactivating a Category


A saved Category can be active or inactive. When an active Category is applied to SpeechMiner, calls can be assigned to it. When an inactive Category is applied, it is saved in SpeechMiner but calls cannot be assigned to it.

This feature allows you to temporarily stop using a Category when it is not relevant. When SpeechMiner processes a call, it checks every active Category to see if it should be assigned to the call. Because of this, it is a good idea to deactivate Categories that are not needed because it makes call processing faster and more efficient. For example, if you only use a particular Program during certain sales campaigns, you can deactivate Categories that require the Program when no sales campaigns that use it are underway.

Activating or deactivating a parent Category causes all of its sub-Categories to be activated or deactivated along with it.


When you deactivate a Category that has been applied to SpeechMiner previously, you have to apply it to SpeechMiner in order to deactivate it in SpeechMiner.

To deactivate a Category:

1. In the left panel, in the **Category Manager** tab, select the Category.
2. In the tree controls above the tree structure, click  (**Deactivate**). The Category is deactivated in SMART.
3. If you want to deactivate the Category in SpeechMiner, apply the Category. For additional information, see [Applying Changes](#).

After you modify a Category, make sure it is active before you apply it to SpeechMiner. Active Categories appear in the SMART tree list in bold type.



To activate a Category:

1. In the left panel, in the **Category Manager** tab, select the Category.
2. In the tree controls above the tree structure, click  (**Activate**). The Category is activated.

Moving a Category Up or Down in the Tree List

The list of Categories appears in SpeechMiner in the same order and with the same structure as it does in SMART. It is therefore a good idea to organize the list in a way that is convenient for SpeechMiner users. You can do this by moving Categories up or down in the tree list.

To move a Category up or down in the tree list:

1. In the tree list select the Category
2. In the tree controls above the tree structure, click  (**Move Up**) or  (**Move Down**) as many times as necessary to move the Category to the desired location in the tree list.

Modifying Category Nesting

You can change any regular Category into a parent Category or a sub-Category, or move a sub-Category from one parent Category to another at any time (see [Organizing Items Hierarchically](#)).

To change a regular Category into a parent Category:

- In the tree list, drag a Category over the regular Category. The regular Category becomes the parent of the other Category. (Note that any conditions that were defined for the regular Category are deleted when it becomes a parent Category.)

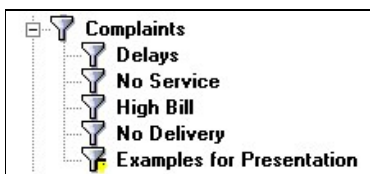
To change a regular Category into a sub-Category, or move a sub-Category from one parent Category to another:

- In the tree list, drag the Category over the desired parent Category.

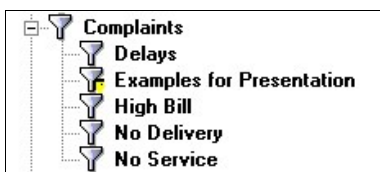
Sorting Sub-Categories Alphabetically

The sub-Categories of a parent Category can be sorted alphabetically. The sorting operation is not recursive - only the immediate "children" of the selected parent Category are sorted; the sub-Categories of the sub-Categories are not sorted as part of the operation. In addition, the sort order is not case-sensitive.

You can use this feature to sort the sub-Categories of individual parent Categories, or, if you sort the **All** Category, you can sort all of the top-level Categories (i.e., the immediate children of the **All** Category). You can also select multiple parent Categories, to sort all of their sub-Categories in one operation.



Sub-Categories of the parent Category "Complaints," before sorting



Sub-Categories of the parent Category "Complaints," after sorting (before applying changes)

To sort the sub-Categories of a parent Category:

- In the tree list, right-click the parent Category, and then select **Sort Alphabetically**. The sub-Categories of the selected Category are rearranged in alphabetical order.

To sort the sub-Categories of multiple parent Categories:

1. In the tree list, select the checkbox of each of the parent Categories. The parent Categories must all be at the same level in the Category tree.
2. Right-click the last parent Category you selected, and then select **Sort Alphabetically**. The sub-Categories of each of the selected Categories are rearranged in alphabetical order.

See also

[Overview of the Category-Manager Interface](#)
[Defining a New Category](#)
[Deleting Categories](#)

Home > Managing Categories > Deleting Categories

Deleting Categories

You can delete Categories that are not required. When you apply the changes to SpeechMiner, the Categories you deleted from SMART are removed from SpeechMiner as well, and the Category assignments of all of the calls in the SpeechMiner database are redone (see [Applying Changes](#)).

To delete one or more Categories:

1. Make sure the Categories you want to delete are closed.
2. In the left panel, click the **Category Manager** tab. The list of existing Categories is displayed in the tree structure.
3. In the tree structure, select the Categories you want to delete. To select multiple Categories, hold down the **Ctrl** key while you click them.
4. In the tree controls above the tree structure, click **X (Delete)**. For each Category, a **Category Deletion** message appears.



Category Deletion message

5. Click **Yes**. The Category is deleted. If additional Categories were selected, a **Category Deletion** message appears for each one. Click **Yes** to confirm each deletion.

Note: If you want to delete all of the selected Categories without confirming each one, select **Apply to All** before you select **Yes**.

See also

[Overview of the Category-Manager Interface](#)
[Defining a New Category](#)
[Modifying Categories](#)

Home > Applying Changes

Applying Changes

As you add and modify definitions in SMART, you save your changes within SMART, but the definitions in SpeechMiner are not changed. In order to implement your changes in SpeechMiner, you must apply them in SMART.

Applying changes can be done in a number of ways:

- **Apply All:** Applies all changes to Programs, Topics, and Categories, and reprocesses the calls using the new definitions
- **Apply Programs, Topics, and Scripts:** Applies all changes to Programs and Topics (Scripts are not supported in this version of SpeechMiner), and reprocesses the calls using the new definitions
- **Apply Categories:** Applies all changes to Categories, and reprocesses the calls using the new definitions
- **Recategorize calls only:** Does not apply any changes from SMART to SpeechMiner, but reprocesses the calls in SpeechMiner using the latest set of Category definitions that was already applied.


Note: Applying changes to Categories does not affect manual Categories; any items that SpeechMiner users assigned to a manual Category remain assigned to it even after changes to Categories are applied.

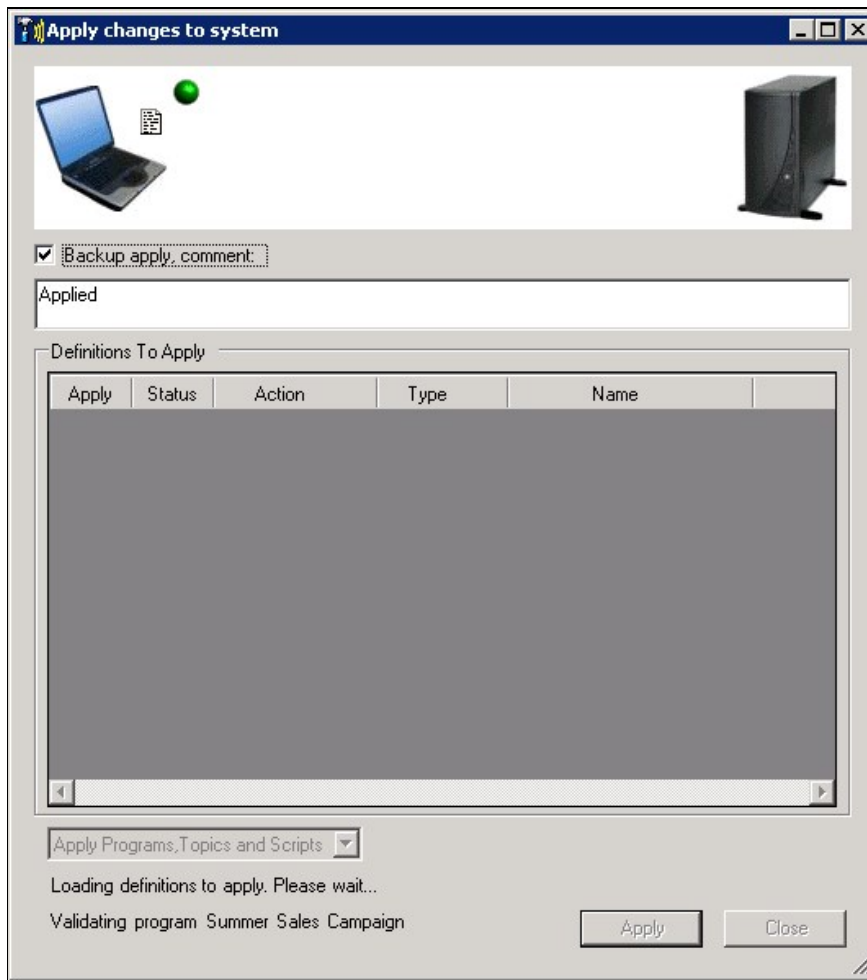
When you choose to apply changes to SpeechMiner, SMART checks the SMART database for changes, and lists all of the changes that were made since the last time changes were applied. You can choose which of the changes you want to apply. In addition, SMART checks each of the changes in the list to ensure that it is ready to be applied, and marks all problematic items. For example, if it discovers Programs that contain locked Topics, it indicates which Programs they are and which Topics are locked. Some types of problems must be corrected before you can apply the problematic items, while others can be ignored if you choose.

You cannot apply items that are locked by other users unless you have permissions to do so and explicitly choose to override the lock. (For additional information about locking items, see [Locking and Unlocking Items](#).)

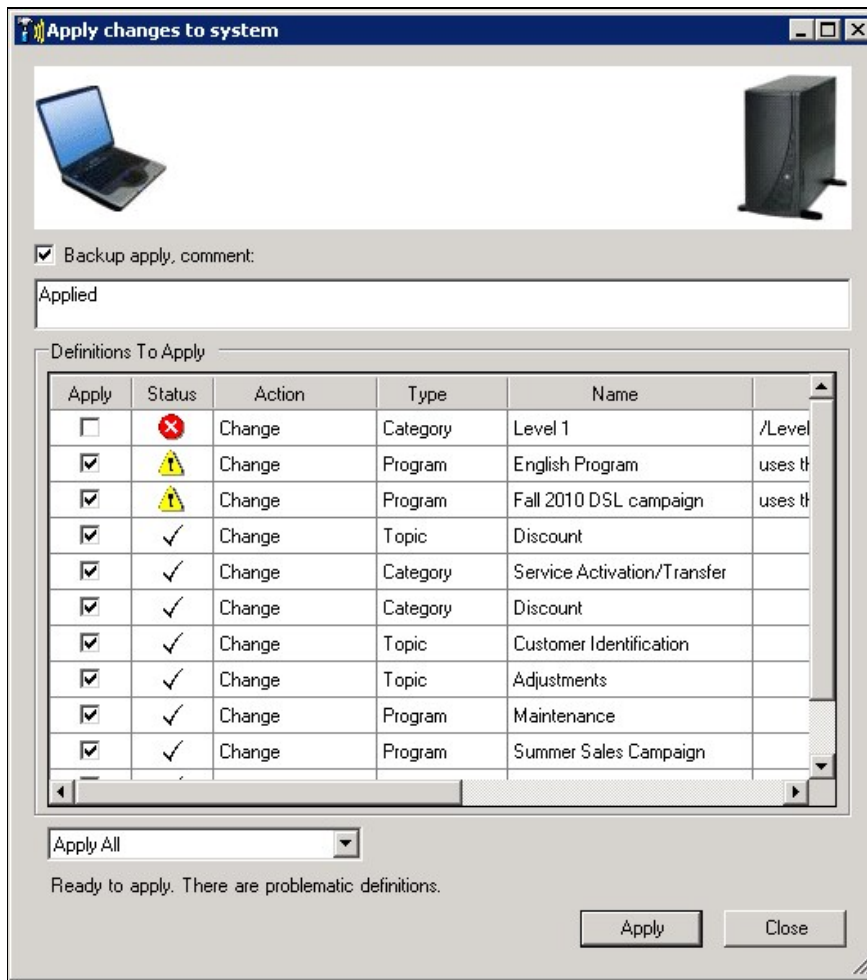
In most systems, SMART allows you to save backup copies of the existing definition set in SpeechMiner before applying any changes. If you do this, you can later choose to roll back the definition set to an older set, if necessary. For additional information, see [Managing Version History](#).

To apply changes to SpeechMiner:

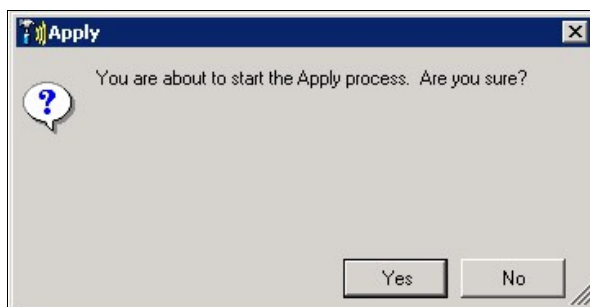
1. Make sure no windows are open in the right panel.
2. In the Quick Access Bar below the main menu, click  (**Apply**). The **Apply** dialog box opens. SMART begins to review all of the changes that were made to the system since it was last applied. During this validation process, the message "Loading definitions to apply. Please wait..." appears at the bottom of the dialog box. The process may take a few minutes.



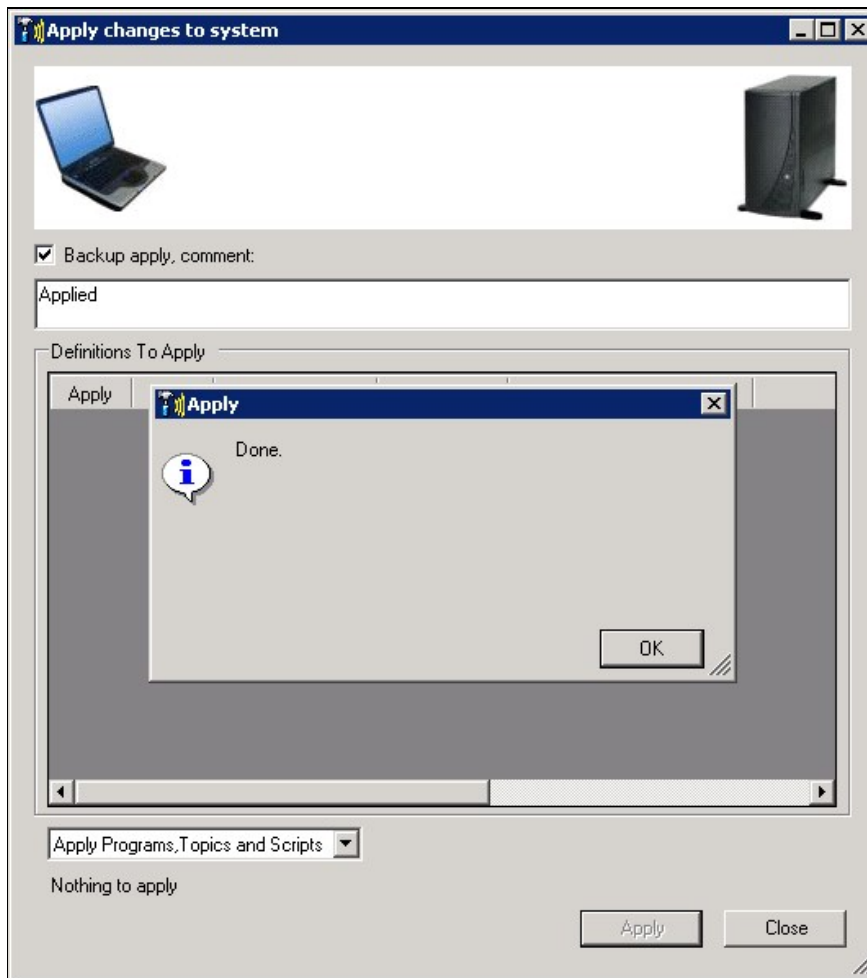
- When SMART has finished validating the definitions, it displays a list of all of the changes it found. Under **Status**, a ✓ marks items that are ready to be applied, a ⚠ identifies problematic items that may require your attention but can be applied if you choose to apply them, and a ✗ identifies items that cannot be applied.



4. If there are problems that require correction before you apply the changes, close the dialog box and correct the problems. Then, open the dialog box again, as described above.
5. If you want to save a backup copy of the existing set of definitions in SpeechMiner before the new set is applied, select **Backup apply, comment**. (In some systems, this option is always implemented, or not available.) Modify the text field below the option as required, to specify the comment that will be attached to the backup.
6. If you do not want to apply a particular item, in the **Apply** column, clear the checkbox. (The checkbox is not available for items that cannot be applied.)
7. At the bottom of the dialog box, select the type of changes to apply: **Apply All**, **Apply Programs, Topics, and Scripts**, **Apply Categories**, or **Recategorize Calls Only**. (See [above](#) for information about these options.)
8. Click **Apply**. You are prompted to confirm that you want to apply the changes.



9. Click **Yes**. The process of applying the changes begins. The process may take a few minutes. When it is completed, a "Done" message appears, and the list of changes in the **Apply** dialog box is blank.



See also

[Welcome](#)
[Overview](#)
[Managing Topics](#)
[Managing Programs](#)
[Managing Categories](#)
[Managing Version History](#)
[Exporting and Importing](#)

[Home](#) > [Managing Version History](#)

Managing Version History

The version-management system is used to back up and restore previous definitions of individual items or of the entire definition set. Two types of back ups are supported:

- **Item tags:** Backups of the definitions of individual items, such as a specific Program or Topic
- **Definition sets:** Backups of entire sets of definitions; the existing set of definitions can be backed up before an updated set is [applied](#)

This section explains how to manually create item tags and how to work with item tags and definition sets.

See also

[Welcome](#)
[Overview](#)
[Managing Topics](#)
[Managing Programs](#)
[Managing Categories](#)
[Applying Changes](#)
[Exporting and Importing](#)

[Home](#) > [Managing Version History](#) > [Item Tags](#)

Item Tags

Item tags can be created in three ways:

- **Manually:** You can manually create a tag for an item at any time.
- **On closing SMART:** When you close SMART, the system automatically creates a tag for each item definition that has been changed and has not yet been [applied](#).
- **On applying changes:** When you [apply](#) changes to SpeechMiner, if you choose to create a backup, SMART automatically creates a tag for every item in the system; this tag contains the definition as it appears in SMART when the changes are applied

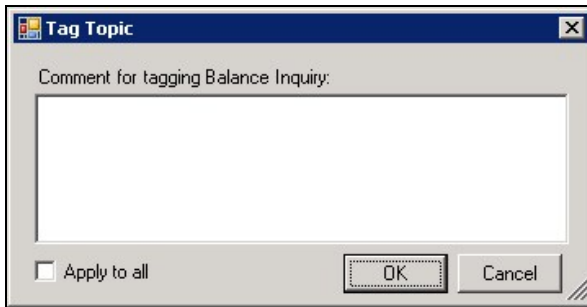
Each item tag includes the current definition of the item, the date and time the tag was created, your user name, and a comment. When you manually create a tag, you can enter the comment text you want to attach to it. When you apply changes, if you added a comment to the backup settings, the comment is attached to the tag of every item in the system. When SMART generates tags automatically before it closes, the tags have blank comment fields.

Manually Creating Item Tags

You can create item tags for one or more items at a time, as long as they are all of the same type. For example, you can tag one or more Topics.

To create tags for one or more items:

1. In the left panel, select the tab of the type of item for which you want to create tags (Categories, Topics, or Programs), so that the tree structure is displayed.
2. In the tree structure, right-click the item you want to tag. To tag multiple items, hold down **Ctrl** or **Shift** while you click, and right-click after all the items are selected. (**Ctrl** causes individual items to be selected; **Shift** selects all items between the first and second item clicked.)
3. In the menu, select **Tag [item type]**. For example, if you are in the Topics tree structure, select **Tag Topic**. The **Tag [item type]** dialog box opens.



Tag Topic dialog box

4. In the text field, enter a comment to attach to the tag.
5. If you selected multiple items, select **Apply to all** if you want to attach the comment to all of the items. If you do not select this option, the **Tag [item type]** dialog box will open again for each item you selected, so that you can enter a different comment for each one.

Note: The **Apply to all** option does not appear if only one item was selected in the tree structure.

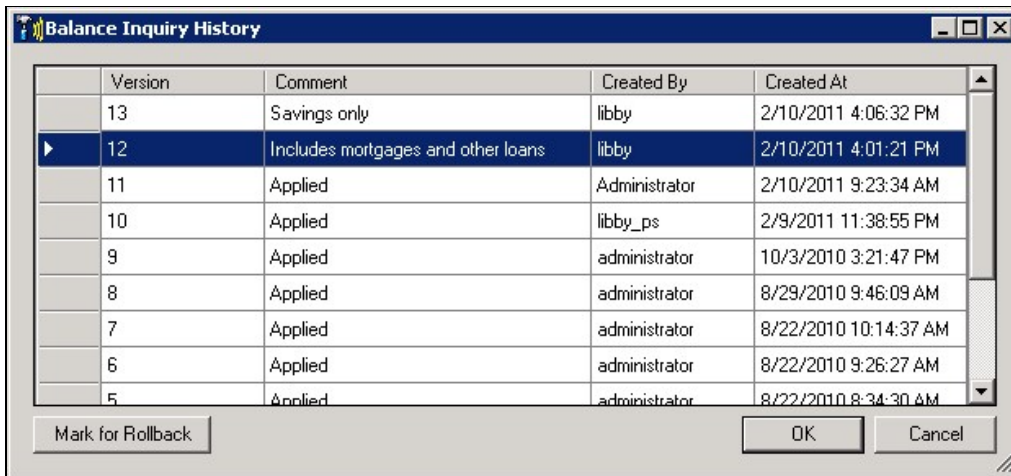
6. Click **OK**. The tags are created.

Restoring a Tagged Definition

Any definition of an item that is stored in a tag can be restored to SMART by rolling back the definition to the selected tag. Note that this rollback process only restores the item definitions within SMART. If you want to restore the definitions to SpeechMiner, you must [apply](#) them after they are restored in SMART.

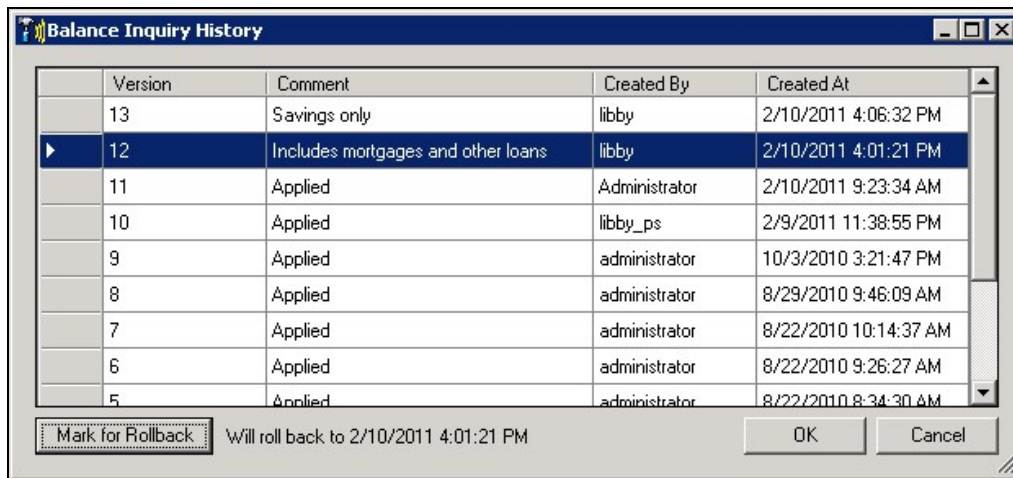
To restore a tagged definition:

1. Make sure the item whose definition you want to restore is not open or locked.
2. In the tree structure, right-click the item, and then select **History**. The **History** dialog box opens and displays a list of available tags for the item.



History dialog box for "Balance Inquiry" Topic

3. In the list, select the tag you want to restore.
4. Click **Mark for Rollback**. A rollback message appears at the bottom of the dialog box indicating that the item definition will be restored in accordance with the selected tag.



Rollback message

- Click **OK**. The definition of the item in SMART is restored to match the tagged definition.

Managing Tags

You can change the comment text of any tag that you created or any tag you have permissions to change. You can also delete these tags as necessary.

Note: Tags that were generated as a set during an apply process cannot be modified or deleted individually as described below. For information about modifying or deleting them, see [Rolling Back the Definition Set](#).

To change the comment of a tag:

- In the tree structure, right-click the item whose comment you want to modify, and then select **History**. The **History** dialog box opens.
- Click the comment text that you want to change. The text becomes an editable text field.
- Modify the text as necessary and then click outside the text field to close it.
- Click **OK**. The change is saved.

To delete tags:

- In the tree structure, right-click the item whose tag you want to delete, and then select **History**. The **History** dialog box opens.
- Select the tags you want to delete. To select multiple tags, hold down **Ctrl** or **Shift** while you click. (**Ctrl** causes individual tags to be selected; **Shift** selects all tags between the first and second tags clicked.)
- Press the **Delete** key (on your keyboard). The selected tags are deleted from the list.
- Click **OK**. The tags are deleted from the database.

See also

[Rolling Back the Definition Set](#)

Home > Managing Version History > Rolling Back the Definition Set

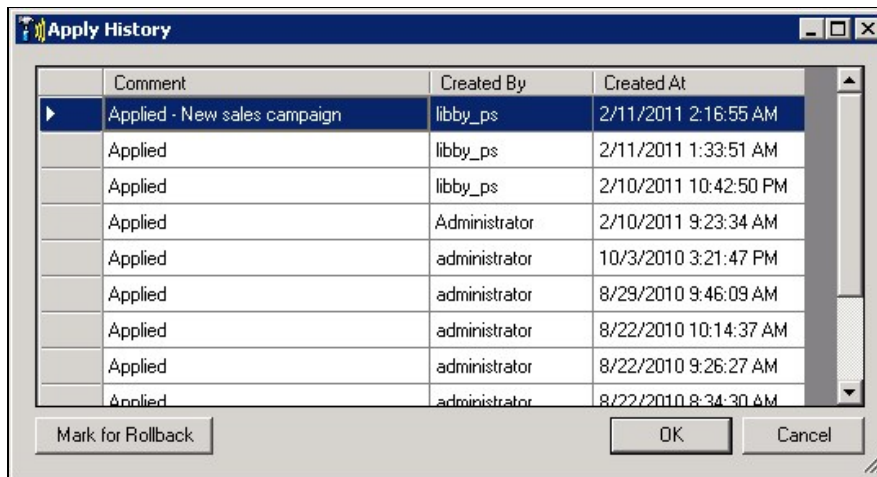
Rolling Back the Definition Set

If you chose to save a backup when you applied changes to SpeechMiner (see [Applying Changes](#)), the entire definition set can be restored to SpeechMiner later on as necessary. When the definitions are restored, they are automatically applied to SpeechMiner, and the calls in the database are reprocessed and re-Categorized. This process is called rollback.

Note: It is highly recommended to create a backup whenever you apply changes. If you do so, you will be able to undo apply processes after they are implemented, by rolling back to the previous, saved definition set.

To restore the definitions in SpeechMiner to a saved set:

1. Make sure no items are open or locked.
2. In SMART, in the **SMART** menu, select **Apply History**. The **Apply History** dialog box opens and displays a list of available definition sets.



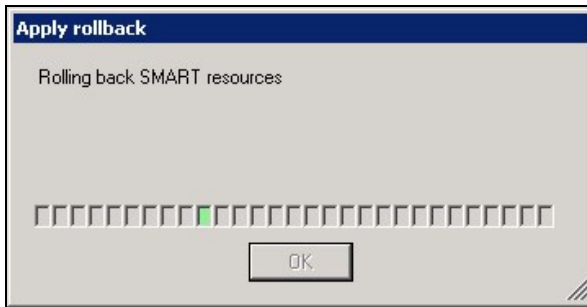
History dialog box

3. In the list, select the definition set you want to restore.
4. Click **Mark for Rollback**. A rollback message appears at the bottom of the dialog box indicating that the definition set will be restored in accordance with the selected set.



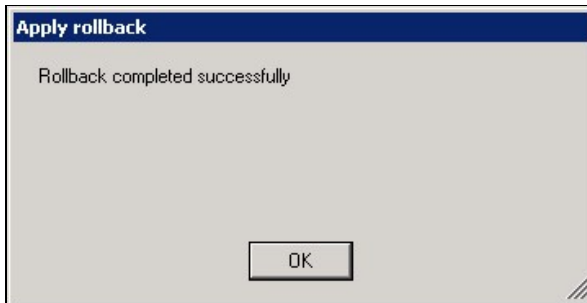
Rollback message

5. Click **OK**. The rollback process begins, and the **Apply Rollback** dialog box opens:



Apply Rollback dialog box

6. When the process is completed, a confirmation message appears:



Confirmation message

7. Click **OK** to close the message.

Managing Stored Definition Sets

You can change the comment text of any stored definition set, and delete definition, sets as necessary.

To change the comment of a definition set:

1. In SMART, in the **SMART** menu, select **Apply History**. The **Apply History** dialog box opens.
2. Click the comment text that you want to change. The text becomes an editable text field.
3. Modify the text as necessary and then click outside the text field to close it.
4. Click **OK**. The change is saved.

To delete definition sets:

1. In SMART, in the **SMART** menu, select **Apply History**. The **Apply History** dialog box opens.
2. Select the definition sets you want to delete. To select multiple sets, hold down **Ctrl** or **Shift** while you click. (**Ctrl** causes causes individual sets to be selected; **Shift** selects all sets between the first and second sets clicked.)
3. Press **Delete**. The selected sets are deleted from the list.
4. Click **OK**. The sets are deleted from the database.

See also

[Item Tags](#)

Home > Exporting and Importing

Exporting and Importing

You can save selected parts of the definitions contained in SMART in a file by exporting them. Exported files can be imported into any SMART system. They can be used for a number of purposes:

- To back up your system
- To transfer the definitions from a test environment to the real system used by your company
- To transfer the definitions they contain to other SMART systems in your company. For example, you could export all of the definitions in your system and send the files to a company office in a different state. The SMART administrator in the other office could then import your system into the local SMART system. In this way, both offices can use the same definitions for their SpeechMiner systems.
- To send the file to Genesys technical support if you are having problems with something you are defining in SMART

SMART export files have the extension upf .

Exporting Definitions

You can select one or more items of a single type for export in a single file - one or more Topics, Programs, or Categories. If you select a folder, all of the items in the folder are selected. If you select **All** in the tree list, all of the definitions of the selected type are selected. If you do not select any items, all items in the currently displayed Manager are included in the export file. For example, if the Topic tab is open, but no Topics are selected, all of the Topic definitions are included.

When you export a Program, all Topics included in the Program are exported along with the Program. When you export a Parent Category, all of its sub-Categories are included in the export file.

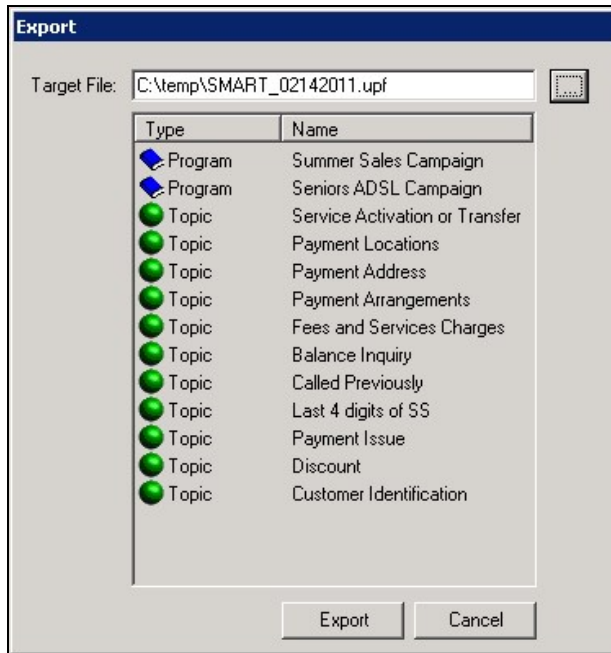
Note: When you export a Category, its [sharing](#) settings are not exported with it. Thus, if you later import it, its sharing setting will normally be **All**. For additional information, see [below](#).

To export some or all of your SMART definitions:

1. Make sure none of the items you want to export are open or locked. (For information about unlocking locked items, see [Locking and Unlocking Items](#).)
2. If you want to select specific items for export, in the left panel, select the tab of the type of item you want to export. The tree list of the selected type of item is displayed. In the tree structure, select the items you want to export. To select multiple items, hold down **Ctrl** or **Shift** while you click. (**Ctrl** causes individual items to be selected; **Shift** selects all items between the first and second items clicked.)

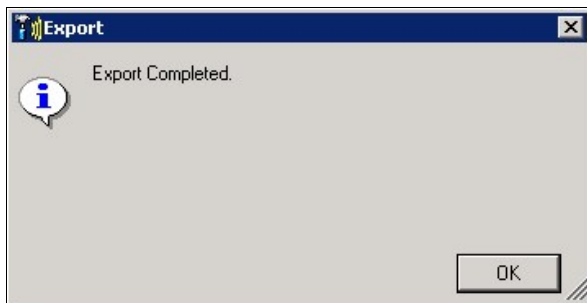
If you want to export the entire SMART system, make sure no items are selected in the tree list.

3. In the Quick Access Bar below the main menu, click  (**Export**). The **Export** dialog box opens. If you selected specific items for export, they are listed in the dialog box.



Selected Program items, and the Topics they contain, in the Export dialog box

- Under **Target**, modify the name and path of the export file as required, or click ... (**Browse**) to open a Windows **Save as...** dialog box in which to specify the target name and path.
- Click **Export**. The export file is created. When the process is completed, a confirmation message appears:




- Click **OK** to close the message. Both the message and the **Export** dialog box close.

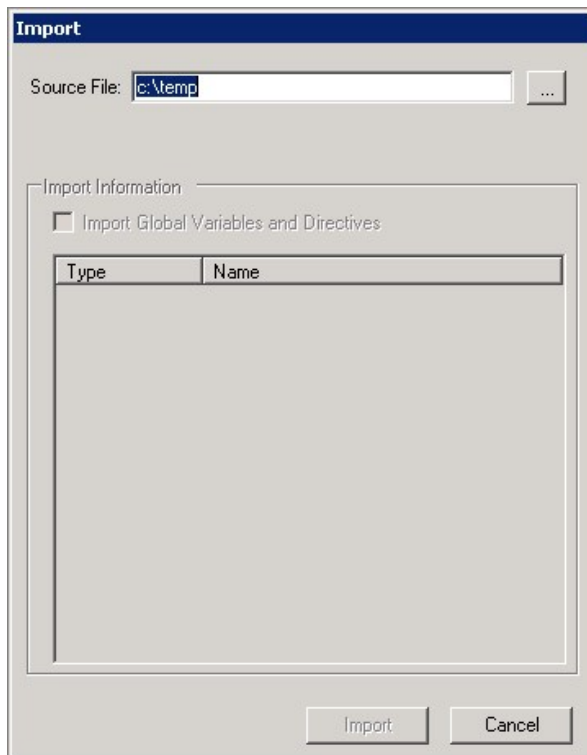
Importing Definitions from an Export File

When you import a file, you can choose which items to import. In addition, you can choose whether to import the global definitions. Bear in mind that if you do import the global definitions, all existing global definitions will be erased and replaced by those that were imported.

Note: When you import a Category, its [sharing](#) setting is normally set to **All**. However, if a Category with the same name already exists in SMART when the import process is initiated, the sharing settings of the existing Category are applied.

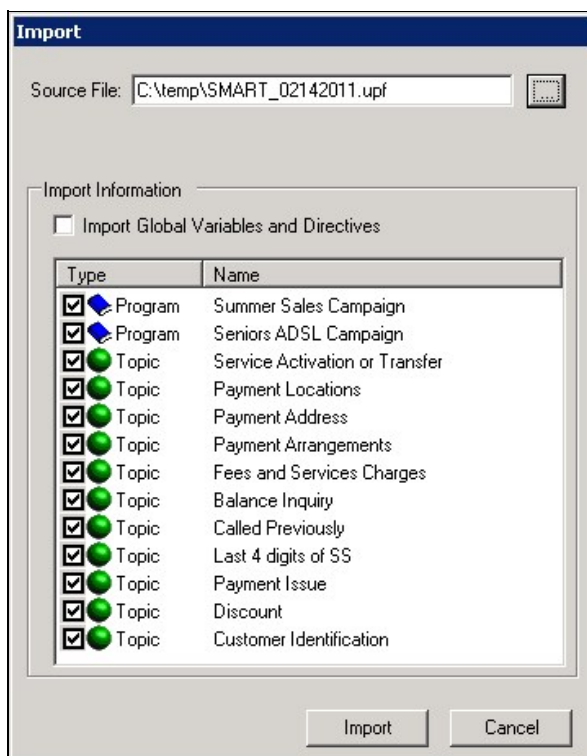
To import the definitions from a upf export file:

- In the Quick Access Bar below the main menu, click  (**Import**). The **Import** dialog box opens.



Import dialog box

2. Under **Source file** click ... (**Browse**) to open a Windows **Open** dialog box. Navigate to the file, and then click **Open**. The **Import** dialog box opens and displays a list of the items that are available for import from the file.

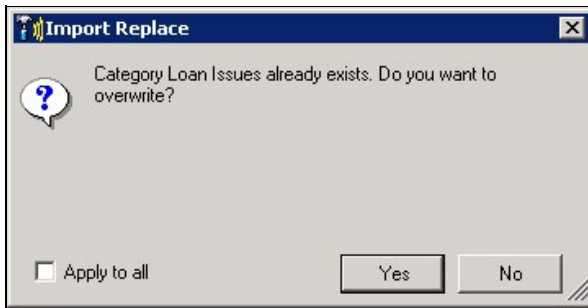


Specific Program items, and the Topics they contain, in the Import dialog box

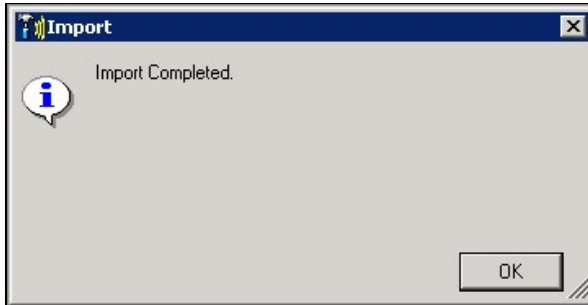
3. If there are items in the list that you do not want to import, clear their checkboxes.

Note: The **Import Global Variables and Directives** option is not in use in the version of SpeechMiner.

4. Click **Import**. The import process begins.
5. If you are importing items that already exist in SMART, you are prompted to confirm that you want to replace the existing items with the ones contained in the file. Select **Yes** to confirm or **No** skip the item and continue with the import process.



6. When the process is completed, a confirmation message appears:



7. Click **OK** to close the message. Both the message and the **Import** dialog box close.

See also

[Welcome](#)
[Overview](#)
[Managing Topics](#)
[Managing Programs](#)
[Managing Categories](#)
[Applying Changes](#)
[Managing Version History](#)

Index