

Sample Message Hook

Overview and release notes, 5/13/95

This document gives a brief overview of the sample spooler message hook provider (SMH32.DLL) that is part of the MAPI SDK.

Architecture

The sample spooler hook is an example of a reasonably clever extension to MAPI which uses the documented MAPI spooler message hook interfaces to categorize and archive sent and received messages.

Installation

The sample spooler hook is available for 32-bit platforms only. To install the provider, copy it from the MSTOOLS\BIN directory to the system directory of the target machine, then use the mergeini utility to merge smh.inf from the source directory into mapisvc.inf.

Configuration

The sample message hook has a three-page property sheet interface for interactive configuration, which is accessible through service provider logon, through the **ServiceEntry()** call, and through the **IMAPIStatus::SettingsDialog** method.

When you first add the sample message hook to the profile configuration you will need to log off the profile if you are already logged in, and then log in again before the change will take effect.

General page

Incoming mail. Use the "Enable filtering of inbound messages" checkbox to start inbound and outbound message filtering. Use the "Add unread messages folder to hierarchy" checkbox to create a search folder containing all unread messages for easier access.

Sent mail. Use the "Archive sent mail into monthly subfolders" checkbox to instruct the hook processor to categorize sent messages by date and to use and create subfolders based on the month of submission to contain these messages. Use the "Archive sent mail monthly folders by year" checkbox to further organize the archives by year (For example, sent mail\year\month folder hierarchy).

Deleted mail. Use the "Archive deleted mail into monthly subfolders" checkbox to instruct the hook processor to categorize deleted messages by date and to use and create subfolders based on the month of creation to contain these messages. Use the "Archive deleted mail monthly folders by year" checkbox to further organize the archives by year (For example, deleted mail\year\month folder hierarchy).

Filters page

This page displays a listbox containing all the filters and actions which have been defined for this profile. The sample hook processor traverses this list from top to bottom in determining the disposition of a newly sent or received message. The first rule that "fires" will be the only one which is applied to the message in question.

To add a filter rule, choose the New button. To change a rule, select it and choose the Edit button. To delete a rule, select it and choose the Delete button. To arrange the ordering of rules, select the rule whose position in the list needs changing and use the up or down arrow buttons to make the appropriate change.

When you select New or Edit, the filter description dialog box will be presented to you. In this dialog box you should enter a display name for the filter rule that can be used for the list box and select one of the filtering criteria (self-explanatory). Enter the appropriate string in the Value Contains field (in the case of recipients, the filter compares both the display name and the e-mail address), the display name (as shown in the left-hand pane of the Microsoft Exchange client) of the target store in the Target Store field, and the display name (again as shown in the Microsoft Exchange client) of the folder to which you want messages matching this filter rule to be copied in the Target Folder field. The hook provider will create folders if need be; to specify folders in a hierarchy use a backslash character (For example, My Mail\Clever

Sayings). To get the negative effect (For example, this rule fires for a message not matching the criteria), set the "Filter messages that do not match this criteria" checkbox. To disable a filter without deleting it, you set the "Discontinue the filtering of messages matching this criteria" checkbox. To choose archiving options for the filter (like in the Sent Mail / Deleted Mail option above) you may set the appropriate checkboxes for the rule. Messages can be deleted using the selection criteria by using the "Delete message from store"(not move to 'Deleted Items') checkbox.

Exclusions page

This page displays a list box containing all the message classes for which filtering is disabled. The sample hook processor traverses this list from top to bottom in determining whether it should filter a newly sent or received message. If any message class matches, rules processing will not occur for that message.

To add a message class, choose the New button. To delete a message class, select it and choose the Delete button.

Known problems

The hook only can be built on or for and used on or for 32-bit platforms (this is a limitation of the sample provider, not of the hook interface itself). The "Filter messages that do not match this criteria" checkbox doesn't always seem to work.