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# EEAttachments

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## Documentation

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# EEAttachments – Documentation

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## 1 Functional Overview

EEAttachments is a service which can export attachments from Exchange mailboxes in order to use the data in your own workflow.

In order to access the Exchange server, Exchange Webservice (EWS) is used, the Exchange versions of which are available as of 2007 SP1.

The service can run on the server on which Exchange is installed but, as EWS is used, it can also run on any other computer. The advantage of this is that Hosted-Exchange can also be used for synchronization.

With EEAttachments it is possible for you to include several Exchange servers in the configuration as well as configure several synchronization jobs.

In order to use the program, Exchange as of version 2007 SP1 is required.

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## 2 Possible User Scenarios

Your mailbox contains mails with xml ad attachments. Your idea is to store the xml data inside a database. So use EEAttachments to extract the attachments from the folder your mails are stored and further process it with your own batch-files, powershell or import-program in order to get it into the database.

## 3 Configuration

After successful installation, you can adjust the settings in the configuration program under START=>Programs=>EEAttachments.

With the configuration you introduce the Exchange-Server connection to the service as well as the folders you want to be able to export attachments for.

### 3.1 Service Configuration (Addition of folder pairs)

**Create EWS-Access:** via menu item [EWS ]=> [create EWS access], you will receive a new item in the first box. This enables you to connect to the Exchange server.

Exchange webservice connections

ServiceConnection

EWS-name: ServiceConnection

ServiceURL: https://outlook.office365.com/EWS/Exchange.asmx

Domain:

User: hain.nloed@somebytes.net

Password: .....

Serverversion: Exchange 2016

Certificate:  Trust each Certificate

Connectiontype:  Use Impersonation

Type: SMTP Address

OK

The EWS-name can be freely chosen and serves as identification for your configurations.

Now enter the service-URL. You should now be able to access the web service of your Exchange server via https://YOURSERVER . If you test the URL via your browser you should see an XML file.

Now enter the user account, which should have access to the data you require.

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Should your certificate cause errors, you can use the checkbox „trust all certificates“. This may, however, violate your company’s safety policy.

**Logging:** under Logging/activate logging, you can create bug logs and record the process. Please disable this function if you no longer require it, as it produces a lot of data and is only required for bug detection.

**Impersonation:** If you would like to access data, which lies in a mailbox different from yours, you can also use „Impersonation“, i.e. the right to access another person’s data.

Exchange2007: In order for a user to be able to do this, the right [ms-Exch-EPI-Impersonation](#) has to be set up on the server. In addition, the mailbox you would like to access needs to have the right: [ms-exch-epi-may-impersonate](#). It is best to use the above mentioned rights with accounts specifically set-up for EEAttachments or other services.

Exchange2010: In 2010 there is another way to do this. It’s done with “[Application Impersonation Management Role](#)”.

**Server Version:** In order to be able to use the appropriate functions, the service needs to know which version is used by your Exchange server.

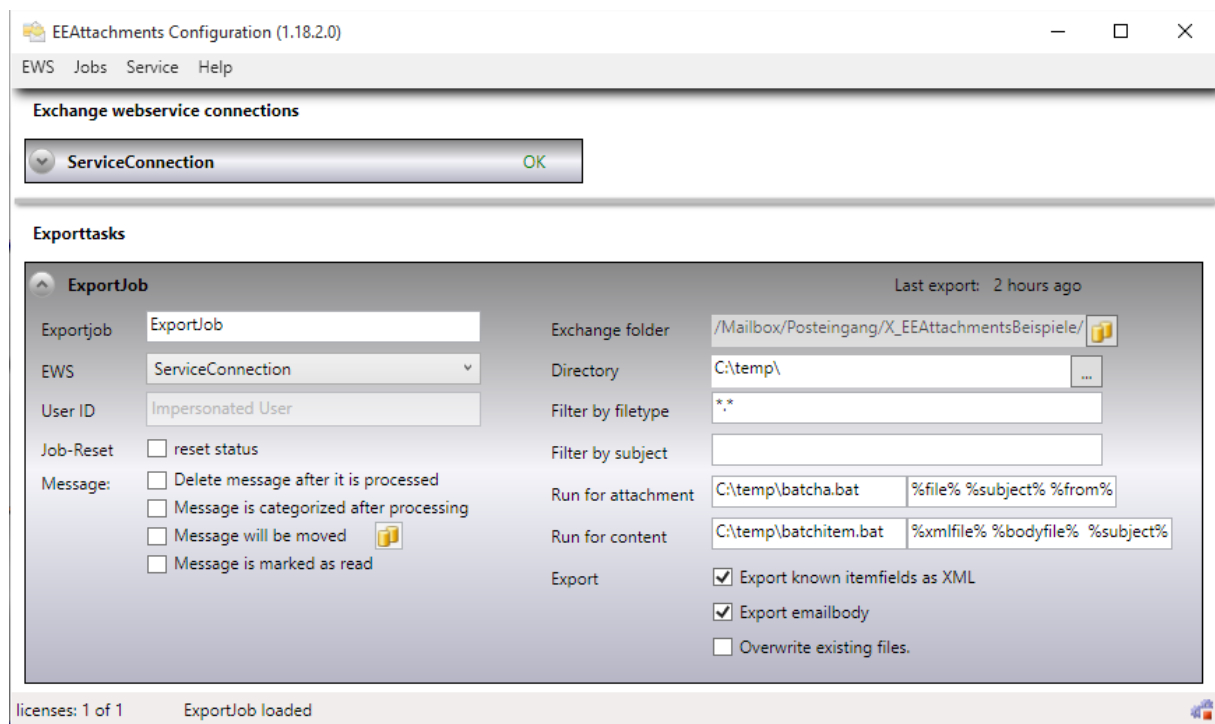
**Backup:** To secure the configuration files please save all files in the directory:  
C:\ProgramData\EEAttachments ending with „.conf“.

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## 3.2 Configuration of Exportjobs

In order to export attachments from Exchange folders you need to add a job in the second part of the configurator. A job includes the ServiceConnection you defined earlier, a folder inside a mailbox and a folder on your file system.



Assign a name of your choice for the job and select a service and a folder of the respective Exchange server.

**EWS:** Is the Exchange webservice you have configured above.

**User ID:** Is only needed if you are using Impersonation. You can enter the mailbox of the user you want to impersonate.

**Exchange folder:** Please select the folder in which you want to search for attachments to export.

**Directory:** Is the directory on your filesystem where the exported attachments are located.

**Job-Reset:** If you reset the job, each element will be exported again. You only need this checkbox if an error occurs.

**Filter:** If you want to export only files from a certain type, so use this functionality.

**Run program:** You can run a program for each file the service exports, so you can make your own process. See also Arguments which are passed to your program or batch job.

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Here you can find useful parameters:

%file% = path to the exported file.

%filename% = filename without directory.

%xmlfile% = path to XML – E-Mail content.

%Subject% = Subject of the Mail.

%From% = From field of the E-Mail.

%taskname% = Name of the EEAttachments Export-Task.

%exportpath% = The path which you have entered in the Export-Task.

These are fields you can use as well:

%ActualWork% %AssignedTime% %BillingInformation% %ChangeCount% %Companies% %CompleteDate%  
%Contacts% %DelegationState% %Delegator% %DueDate% %IsComplete% %IsRecurring% %IsTeamTask%  
%Mileage% %Mode% %Owner% %PercentComplete% %Recurrence% %StartDate% %Status%  
%StatusDescription% %TotalWork% %Alias% %AssistantName% %Birthday% %BusinessHomePage%  
%Children% %Companies% %CompanyName% %CompleteName% %ContactSource% %Department%  
%DirectoryId% %DirectReports% %DisplayName% %EmailAddresses% %FileAs% %FileAsMapping%  
%Generation% %GivenName% %HasPicture% %ImAddresses% %Initials% %JobTitle% %Manager%  
%ManagerMailbox% %MiddleName% %Mileage% %MSExchangeCertificate% %NickName% %Notes%  
%OfficeLocation% %PhoneNumbers% %PhoneticFirstName% %PhoneticFullName% %PhoneticLastName%  
%Photo% %PhysicalAddresses% %PostalAddressIndex% %Profession% %SpouseName% %Surname%  
%WeddingAnniversary% %AdjacentMeetingCount% %AdjacentMeetings% %AllowNewTimeProposal%  
%InternetMessageId% %BccRecipients% %CcRecipients% %ConversationTopic% %From%  
%InternetMessageId% %IsDeliveryReceiptRequested% %IsRead% %IsReadReceiptRequested%  
%IsResponseRequested% %ReceivedBy% %ReceivedRepresenting% %ReplyTo% %Sender% %ToRecipients%  
%MimeContent% %AppointmentReplyTime% %AppointmentSequenceNumber% %AppointmentState%  
%AppointmentType% %ConferenceType% %ConflictingMeetingCount% %ConflictingMeetings%  
%DeletedOccurrences% %Duration% %End% %EndTimeZone% %EnhancedLocation% %ICalDateTimeStamp%  
%ICalRecurrenceId% %ICalUid% %IsAllDayEvent% %IsCancelled% %IsMeeting% %IsOnlineMeeting%  
%IsRecurring% %IsResponseRequested% %JoinOnlineMeetingUrl% %LegacyFreeBusyStatus% %Location%  
%MeetingRequestWasSent% %MeetingWorkspaceUrl% %MyResponseType% %NetShowUrl%  
%OnlineMeetingSettings% %OptionalAttendees% %Organizer% %OriginalStart% %Recurrence%  
%RequiredAttendees% %Start% %StartTimeZone% %TimeZone% %When% %ArchiveTag% %Body%  
%Categories% %Culture% %DateTimeCreated% %DateTimeReceived% %DateTimeSent% %DisplayCc%  
%DisplayTo% %Flag% %HasAttachments% %IconIndex% %Importance% %InReplyTo% %IsAssociated%  
%IsDraft% %IsFromMe% %IsReminderSet% %IsResend% %IsSubmitted% %IsUnmodified% %ItemClass%  
%LastModifiedName% %LastModifiedTime% %ReminderDueBy% %ReminderMinutesBeforeStart%  
%RetentionDate% %Sensitivity% %Size% %Subject% %TextBody%

This link shows you the documentation of these fields:

[http://msdn.microsoft.com/en-us/library/microsoft.exchange.webservices.data.emailmessageschema\\_fields\(v=exchg.80\).aspx](http://msdn.microsoft.com/en-us/library/microsoft.exchange.webservices.data.emailmessageschema_fields(v=exchg.80).aspx)

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If you use EEAttachments to start PowerShell scripts EEAttachments will add your arguments as session-variables (Get-Variable). Also you will get a variable which contains the full MailItem in order to read or change it. You will find it in the variable “mailitem”.

In the program folder of EEAttachments you will find some PowerShell scripts like the unzip.ps1 which can unzip your attachments after the export.

## 3.3 Menu

### 3.3.1 Manage Exchange Webservice Connections

In the menu, under [EWS], you can set up and delete Exchange web service connections.

In addition, the menu contains the item [licenses] with which you can manage your licenses.

You can also find the menu items in the corresponding list boxes in the form of a context menu.

### 3.3.2 Manage Jobs

In the menu, under [Jobs] you can set up and delete synchronization jobs. A job sets up a connection between two folders of one mailbox or between two folders of different mailboxes.

### 3.3.3 Manage EEAttachments Services

In the menu [Service] you can save your settings and manage the EEAttachments service.

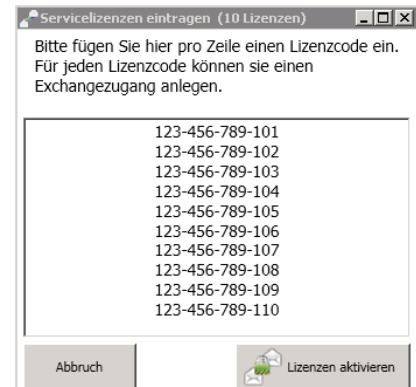
You can also find this service if you enter „services.msc“ under „Run“ “services.msc”.

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## 4 Licensing

EEAttachments requires a license for every Mailbox you would like to access. Enter the licenses received from Somebytes horizontally in the dialog and restart the service. If you would like to reach several Mailboxes in your configuration, for which you have no license, those remaining will not be loaded.



## 5 Troubleshooting

- Should you encounter problems with the service, you can look up the service's error messages in the file EEAttachments.log under C:\programdata\EEAttachments\logs\ which you can discuss with [info@somebytes.net](mailto:info@somebytes.net) as well. You can change the logging behavior with NLog.config from the NLog project. (<https://nlog-project.org/config/>).
- Further log data (please also see Logging in the configurator) can be found under C:\ProgramData\EEAttachments\logs\.
- In C:\ProgramData\EEAttachments\ you can also the configuration files for EEAttachments (.conf).
- By default, EEAttachments is run as a SYSTEM user. You can, however, enter another user if you wish. In order to configure the service, please enter services.msc at the command prompt or go to "Services" within the control panel. Here you will find the service EEAttachments.

## 6 Third Party Content

The following third-party software is distributed with EEAttachments and is provided under other licenses and/or has source available from other locations.

NLog Site: <https://github.com/NLog/NLog> License: <https://github.com/NLog/NLog/blob/master/LICENSE.txt> (BSD)