

sp_sentry_mail_20

Last Modified on 05 August 2021

When a SQL Server instance is first set to **Watched** status with SQL Sentry, SQL Sentry auto-installs a stored procedure in the MSDB database named *sp_sentry_mail_20* that's intended to be an interface compatible replacement for *xp_sendmail*. *sp_sentry_mail_20* that supports almost all of the functionality of *xp_sendmail*, including sending query results as attachments.

Aside from using SMTP, not MAPI, *sp_sentry_mail_20* is a standard stored procedure, not an extended stored procedure, so it doesn't require installation of any dll's, scripts, or other components on every SQL Server. The configuration and maintenance requirements are dramatically reduced over *xp_sendmail* and other *xp_sendmail* replacements. In addition, because *sp_sentry_mail_20* has no dependencies on MAPI or SQLMail, it's inherently more reliable than *xp_sendmail*.

After watching the SQL Server instance, all that's required is replacing any calls to *xp_sendmail* with *sp_sentry_mail_20*, shown as follows.

Note: For *sp_sentry_mail_20* to function, [SMTP settings](#) must be configured first.

Note: You may receive an error if the required components are not turned on:

Msg 15281, Level 16, State 1, Line 26

SQL Server blocked access to STATEMENT 'OpenRowset/OpenDatasource' of component 'Ad Hoc Distributed Queries' because this component is turned off as part of the security configuration for this server. A system administrator can enable the use of 'Ad Hoc Distributed Queries' by using sp_configure. For more information about enabling 'Ad Hoc Distributed Queries', search for 'Ad Hoc Distributed Queries' in SQL Server Books Online.

[Additional Information:](#) Microsoft documentation for [Ad hoc distributed queries Server Configuration Option](#).

sp_sentry_mail_20 Parameters

A list of *sp_sentry_mail_20* parameters is shown in the following table. All parameters are optional except for *@recipients*. Parameters are identical to those used by *xp_sendmail*, except for two new optional parameters, *@from_address* and *@email_format*.

Parameter	Description
@recipients	Email addresses of recipients, delimited by semicolons.
@message	The body of the message.
	A SQL statement to be executed. The results of the query are included

Parameter	Description
@query	in the body of the email by default, or as an attachment if <code>@attach_results</code> is True.
@attachments	A semi-colon delimited list of files to attach to the message. Currently ignored. Planned for future version.
@copy_recipients	Email addresses of recipients to be copied, delimited by semicolons.
@blind_copy_recipients	Email addresses of recipients to be blind copied, delimited by semicolons.
@subject	Subject line of the message.
@type	Ignored. used by <code>xp_sendmail</code> only, but provided for <code>xp_sendmail</code> compatibility.
@attach_results	If True, the query results are attached as a text file. If False (default), the results are included in line in the body of the message.
@no_output	If True, no output is returned to the client when the message is sent. If False (default), Mail sent is returned to the client.
@no_header	If False (default), no column headers are included in the query results.
@width	The line width for rows in the query output. Zero (default) indicates no width limit should be used.
@separator	Column separator value to use for the query output.
@echo_error	Ignored. used by <code>xp_sendmail</code> only, but provided for <code>xp_sendmail</code> compatibility.
@set_user	The user context under which to execute the query. Currently ignored. Planned for future version.
@dbuse	The name of database in which to run the query.
@from_address	The mail from address to use for the message.
@email_format	Allowed values are text or html only.

Replacing Calls to xp_sendmail

Change calls from `xp_sendmail` to `msdb..sp_sentry_mail_20`, shown as follows:

Old Call:

```
exec xp_sendmail @recipients = 'user@SentryOne.com', ...
```

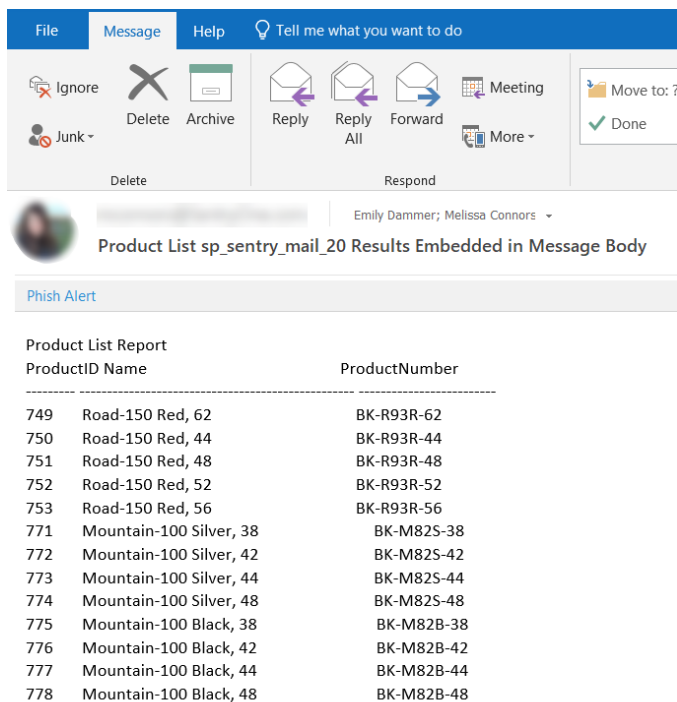
New Call:

```
exec msdb..sp_sentry_mail_20 @recipients = 'user@SentryOne.com', ...
```

Example: Results Embedded in Message Body

```
exec msdb..sp_sentry_mail_20
@from_address = 'm@SentryOne.com',
@recipients = 'e@SentryOne.com',
@copy_recipients = 'm@SentryOne.com',
@subject = 'Product List sp_sentry_mail_20 Results Embedded in Message Body',
@message = 'Product List Report',
@query = 'SELECT ProductID, [Name], ProductNumber FROM Production.Product WHERE ListPrice > 2500',
@dbuse = 'AdventureWorks2014';
```

Results:



The screenshot shows an email client interface with a blue header bar containing 'File', 'Message', and 'Help' menus. Below the header is a toolbar with icons for 'Ignore', 'Delete', 'Archive', 'Reply', 'Reply All', 'Forward', 'Meeting', 'Move to?', and 'Done'. The email content shows a sender profile for 'Emily Dammer; Melissa Connors' and a subject line 'Product List sp_sentry_mail_20 Results Embedded in Message Body'. A 'Phish Alert' banner is visible. The main body of the email contains a 'Product List Report' with a table of product data.

ProductID	Name	ProductNumber
749	Road-150 Red, 62	BK-R93R-62
750	Road-150 Red, 44	BK-R93R-44
751	Road-150 Red, 48	BK-R93R-48
752	Road-150 Red, 52	BK-R93R-52
753	Road-150 Red, 56	BK-R93R-56
771	Mountain-100 Silver, 38	BK-M82S-38
772	Mountain-100 Silver, 42	BK-M82S-42
773	Mountain-100 Silver, 44	BK-M82S-44
774	Mountain-100 Silver, 48	BK-M82S-48
775	Mountain-100 Black, 38	BK-M82B-38
776	Mountain-100 Black, 42	BK-M82B-42
777	Mountain-100 Black, 44	BK-M82B-44
778	Mountain-100 Black, 48	BK-M82B-48

Example: Comma-Separated Results Attached to Message

```
exec msdb..sp_sentry_mail_20
@from_address = 'm@SentryOne.com',
@recipients = 'e@SentryOne.com',
@copy_recipients = 'm@SentryOne.com',
@subject = 'Product List sp_sentry_mail_20 Comma-Separated Results Attached',
@message = 'Product List Report',
@query = 'SELECT ProductID, [Name], ProductNumber FROM Production.Product WHERE ListPrice > 2500',
@dbuse = 'AdventureWorks2014',
@attach_results = 'TRUE',
@separator = ',';
```

Results:

File Message Help Attachments Tell me what you want to do

Open Quick Print Remove Attachment Save As Save All Attachments Upload Upload All Attachments Select All Copy Show Message

Actions Save to Computer Save to Cloud Selection Message

← Back to message

Last changed: Monday, June 25, 2018

QueryResults.txt
2 KB

ProductID	Name	ProductNumber
749	,Road-150 Red, 62	,BK-R93R-62
750	,Road-150 Red, 44	,BK-R93R-44
751	,Road-150 Red, 48	,BK-R93R-48
752	,Road-150 Red, 52	,BK-R93R-52
753	,Road-150 Red, 56	,BK-R93R-56
771	,Mountain-100 Silver, 38	,BK-M82S-38
772	,Mountain-100 Silver, 42	,BK-M82S-42
773	,Mountain-100 Silver, 44	,BK-M82S-44
774	,Mountain-100 Silver, 48	,BK-M82S-48
775	,Mountain-100 Black, 38	,BK-M82B-38
776	,Mountain-100 Black, 42	,BK-M82B-42
777	,Mountain-100 Black, 44	,BK-M82B-44
778	,Mountain-100 Black, 48	,BK-M82B-48