

sp_sentry_dbmail_20

Last Modified on 08 January 2021

Introduction

When a SQL Server 2005 and above instance is first set to watched status with SQL Sentry, SentryOne auto-installs a stored procedure in the MSDB database named *sp_sentry_dbmail_20* that is intended to be an interface compatible replacement for *sp_send_dbmail*. *sp_sentry_dbmail_20* that supports all functionality of *sp_send_dbmail* without the need to configure each server to use it. Therefore, the configuration and maintenance requirements are dramatically reduced over *sp_send_dbmail*.

After watching the SQL Server 2005 and above instance, all that's required is replacing any calls to *sp_send_dbmail* with *sp_sentry_dbmail_20* shown as follows:

Note: For *sp_sentry_dbmail_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_dbmail_20 Parameters

A list of *sp_sentry_dbmail_20* parameters is shown in following the table. All parameters are optional except for *@recipients*. You must specify at least one of *@body*, *@query*, *@file_attachments*, or *@subject*. Otherwise, *sp_sentry_dbmail_20* returns an error. Parameters are identical to those used by *sp_send_dbmail*.

Parameter	Description
@profile_name	Profiles are required to be set up in SQL Server 2005 and above before using mail functionality. Profiles aren't required for SentryOne; therefore, this parameter is optional for <i>sp_sentry_dbmail_20</i> .
@recipients	Email addresses of recipients, delimited by semicolons.
@copy_recipients	Email addresses of recipients to be copied, delimited by semicolons.

Parameter	Description
@blind_copy_recipients	Email addresses of recipients to be blind copied, delimited by semicolons.
@subject	Subject line of the message.
@body	The body of the message.
@body_format	The format of the message body. May be TEXT or HTML.
@importance	The importance of the message. May be Low , Normal , or High .
@sensitivity	The sensitivity of the message. May be Normal , Personal , Private , or Confidential .
@file_attachments	A semi-colon delimited list of files to attach to the message.
@query	A SQL statement to be executed. The results of the query is included in the body of the email by default, or as an attachment if <i>@attach_query_result_as_file</i> = one.
@execute_query_database	The name of database on which to run the query.
@attach_query_result_as_file	If one, the query results are attached as a text file. If zero (default), the results are included in line in the body of the message.
@query_attachment_filename	The file name to use for the result set of a query when attached. If none is specified and the above parameter =one, an arbitrary file name is used.
@query_result_header	If one(default), the query results is included in the column headers. If zero, they aren't included in the column headers.
@query_result_width	The line width, in characters, for rows in the query output.
@query_result_separator	Column separator value to use for the query output. The default is ' '. (space)
@exclude_query_output	If one, no output is returned to the client when the message is sent. If zero (default), Mail sent is returned to the client
@append_query_error	If one, the message is sent with the query error in the body. If zero (default), the message isn't sent.
@query_no_truncate	If one, query results aren't truncated. If zero (default), columns truncate to 256 characters.
@mailitem_id	Optional output parameter returns the <i>mailitem_id</i> of the message. The <i>mailitem_id</i> is of type int.
@from_address	The mail from address to use for the message.

Replacing Calls To Sp_send_dbmail

Change calls to `sp_send_dbmail` to `msdb..sp_sentry_dbmail_20`, shown as follows:

Old Call:

```
exec sp_send_dbmail @recipients = 'user@sentryone.com', ...
```

New Call:

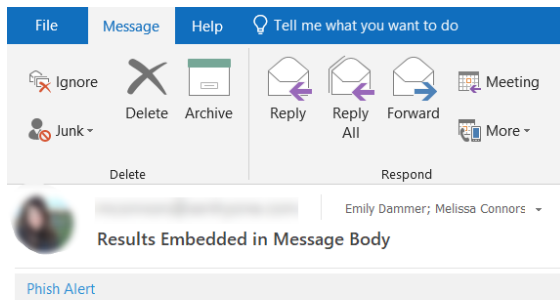
```
exec msdb..sp_sentry_dbmail_20 @recipients = 'user@sentryone.com', ...
```

Examples

Results Embedded in Message Body

```
exec msdb..sp_sentry_dbmail_20
@body = 'Products selling for over $2500.',
@body_format = 'Text',
@from_address = 'm@sentryone.com',
@recipients = 'e@sentryone.com',
@copy_recipients = 'm@sentryone.com',
@subject = 'Results Embedded in Message Body',
@query = 'SELECT ProductID, [Name], ProductNumber FROM Production.Product WHERE ListPrice > 2500',
@execute_query_database = 'AdventureWorks2014',
@attach_query_result_as_file = 0;
```

Results:



The screenshot shows an email client interface with a message titled "Results Embedded in Message Body" from "Emily Dammer; Melissa Connors". The message body contains a table of products with columns ProductID, Name, and ProductNumber.

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

Products selling for over \$2500.

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

(13 rows affected)

Comma-Separated Results Attached to Message

```

exec msdb..sp_sentry_dbmail_20
@body = 'See attached results.',
@body_format = 'HTML',
@from_address = 'm@sentryone.com',
@recipients = 'e@sentryone.com',
@copy_recipients = 'm@sentryone.com',
@subject = 'Comma-separated Results',
@query = 'SELECT ProductID, [Name], ProductNumber FROM Production.Product WHERE ListPrice > 2500',
@execute_query_database = 'AdventureWorks2014',
@attach_query_result_as_file = 1,
@query_result_separator = ', ',
@query_attachment_filename = 'queryresultscomma.txt';

```

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: Friday, June 22, 2018

queryresultscomma.txt
3 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

(13 rows affected)

Using in an Execute SQL action

[Additional Information:](#) See the blog post [Using SentryOne to Alert on SQL Server Database Object Changes](#) for an example of using `sp_sentry_dbmail_20` parameters in a custom message for condition alerting.

Troubleshooting

Use the `dbo.SQLSentryDBEmails_20` table in the `msdb` database to find the `status` of a message.

For example:

```

USE msdb;
SELECT *
FROM dbo.SQLSentryDBEmails_20
WHERE [status] != 4
ORDER BY send_request_date DESC;

```

[status]	Description
0	Ready for processing
1	Waiting for query results
2	Reserved
3	Retrieved by monitor
4	Email sent
5	Email failed
6	Message creation failed