

## Exchange 2003 – Exchange Dump Utility (ExchDump)

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### Abstract

In this article I will give you some information's about the small but very helpful tool ExchDump. With the help of ExchDump you can collect many useful informations about your Exchange Servers.

### Let's begin

ExchDump is a command line utility to collect configuration information about the Exchange Server configuration. ExchDump is very useful in troubleshooting various Exchange Support issues. You can download the ExchDump utility from the following [website](#).

Exchdump creates two output files: One .HTM file and one .XML file. You will find the files in the directory from where you start ExchDump.

ExchDump collects information from the following sources, depending on the parameter you specified at the command prompt:

- Active Directory
- RPC Endpoint Mapper
- IIS Metabase
- Local Security Database

It is possible to execute Exchdump from Windows 2000, Windows XP and Windows Server 2003 and you can use Exchdump to dump information about Exchange Server 2000 and 2003.

The following table shows the available command line options for using ExchDump. I simply pasted the help from the ExchDump Readme into this article.

Option <parameter>	Description
/HTTP	Dumps configuration information specific to the Exchange HTTP components including OWA, IM, OMA, Active Synch and RPC/HTTP. For more detailed RPC/HTTP information you should also use /RPC.
/SMTP	Dumps configuration information specific to Exchange SMTP. Also includes Recipient Policy and Routing Group information
/W3SVC	Dumps IIS W3SVC configuration information, includes ACLs reports for all valid paths as well as user rights information.
/RPC	Dumps configuration information helpful in troubleshooting RPC from the server side, not available in "Remote Mode"
/IM	Dump configuration information specific to Instant Messaging
/RG	Dumps information specific to Routing Groups such

	as connectors installed and their configuration.
/RP	Dumps configuration information specific to Recipient Policies
/AL	Dumps contents of the Address List Container including the Recipient Update Service
/FH	Dump Folder Hierarchies configuration information
/CA	Dump ADC Connection Agreement configuration information
/SERVER[: <servername>]	Dumps Exchange Server configuration information including child objects. If the name of the Exchange server is different than that of the computer name as in the case of a cluster configuration you can specify the Exchange server name here.
/ALL	Dump a report of all of the above items, this does not include any of the items below.
/EXORG	Dumps configuration information for every Server and Administrative Group object in the organization. Depending on the size of the organization this report might be quite large and take a long time to be generated.
/HOSTING	Dump a report helpful in troubleshooting Hosting or Application Service Provider specific issues.
/COMPUTER: [<ComputerName>]	Dumps Computer object configuration information
/USER: <UserName>	Dump a single user object, you must provide either a valid User logon name or User Principle Name for a user in the Forest.
/GUID: <GUID>	Dump a single Active Directory object, you must provide a valid GUID in one of two formats "Binary String" or "Guid String" Examples:  Binary String /GUID: ACEFA3E81F20694E953EB2DAA1E8B1B6  Guid String /GUID: {E8A3EFAC-201F-4E69-953E-B2DAA1E8B1B6}  Also finds Extended Rights or Schema objects based on SchemaGUID.
/DN: <DistinguishedName>	Dump a single Active Directory object, you must provide a valid distinguishedName, default is to dump only the requested object. Use the /V switch to dump child objects.
/ACE: <ModifierString>	Dump only objects which have an ACE that meets the criteria specified in the ModifierString. This switch must be used along with the /DN switch. The ModifierString is a 4 part, comma seperated string in the following format: <Name>, [Allowed: Denied], [Read: Write: SendAs: ListObject], [Match: NoMatch]  For example the following command would dump all objects under the supplied DN to which the everyone group has been granted read rights ExchDump /DN: <"Distinguished Name"> /ACE: everyone, allowed, read, Match
/DATE: MM/DD/YYYY	Dump only objects that have been modified since the date specified. This switch must be used along with the /DN switch and the date must be in the format: MM/DD/YYYY  For example the following command would dump all objects under the supplied DN that have been changed since February 1st, 2003 ExchDump /DN: <"Distinguished Name"> /DATE: 02/01/2003
/REMOTE: <ServerName>	Specify a remote server to gather information from default is to query the local computer. This option places ExchDump in "Remote Mode" some items will not be available in this mode
/DBDIR	When used with the /SERVER switch or a DN/GUID of an Exchange Storage Group or Information Store object a Dir listing will be dumped for each database or log file storage path.
/V	Adds extra configuration information to the report that would not be needed under most circumstances.
/NOACL	Prevents dumping of ACL information on an Object.

	If ExchDump fails dumping an object or runs extremely slow try adding this switch.
/?	Display this usage screen(Default)

You can start ExchDump without any parameters to see which options are available.

```

C:\temp>exchdump

Usage: ExchDump is a command line utility that gathers Exchange configuration
information from various sources. The information is then written to two
separate output files.

Syntax: ExchDump.exe [/HTTP][/SMTP][/U3SUC][/RPC][/IM]
                    [/RG][/RP][/AL][/PH][/CA][/SERVER: <ServerName>][/ALL]
                    [/EXORC][/HOSTING][/COMPUTER: <ComputerName>][
                    [/USER: <UserName>][/GUID: <Guid>]
                    [/DN: <"Distinguished Name">]
                    [/DATE: <MM/DD/YYYY>][/ACE: <ModifierString>]
                    [/REMOTE: <ServerName>][/DBDIR][/U][/NOACL][?]

/HTTP    Dumps configuration information specific to the Exchange HTTP
          components including OWA, IM, OMA, Active Sync and RPC/HTTP. For
          more detailed RPC/HTTP information you should also use /RPC.

/SMTP    Dumps configuration information specific to Exchange SMTP. Also
          includes Recipient Policy and Routing Group information

/U3SUC   Dumps IIS U3SUC configuration information. includes CACLs reports
          for all valid paths as well as user rights information.

/RPC     Dumps configuration information helpful in troubleshooting RPC
          from the server side. not available in "Remote Mode"

/IM      Dump configuration information specific to Instant Messaging

/RG      Dumps information specific to Routing Groups
          such as connectors installed and their configuration.

/RP      Dumps configuration information specific to Recipient Policies

/AL      Dumps contents of the Address List Container including
          the Recipient Update Service

```

Figure 1: ExchDump options

In our example we collect information about the SMTP component of our Exchange Server.

```

C:\temp>exchdump /smtp

Current date/time = 10/14/05 18:48:44
Opening file "ExchDump_101405_184844.htm" for writing.
Opening file "ExchDump_101405_184844.xml" for writing.
Opening file "ExchDump.D01" for writing.
Generating Report.
ExchDump node: Local

Dumping Metabase objects.
-----
Searching for Exchange server object.
Dumping Active Directory objects.
----
Searching for Recipient Policies Container.
Dumping Recipient Policy objects.
-----
Searching for Exchange server object.
Dumping Routing Group objects.
-----
Executing: IPCONFIG /ALL
Executing: NETSTAT -AN

C:\temp>

```

Figure 2: ExchDump /smtp

After executing Exchdump with the /SMTP option and some processing you will find two files in the directory from which you start ExchDump. One .XML and one .HTM file. For most troubleshooting tasks you will only need the .HTM file. The files are named ExchDump\_Data\_Time.HTM/XML so you can find different ExchDump files very quickly.

Name	Size	Type	Date Modified
Exchdump		File Folder	10/14/2005
eula.txt	14 KB	Text Document	2/11/2004 1
Exchdump.exe	209 KB	Application	3/1/2004 12
ExchdumpReadme.doc	80 KB	Wordpad Document	2/11/2004 1
ExchDump_101405_184809.HTM	223 KB	HTML Document	10/14/2005
ExchDump_101405_184809.XML	336 KB	XML Document	10/14/2005
ExchDump_101405_184844.HTM	223 KB	HTML Document	10/14/2005
ExchDump_101405_184844.XML	336 KB	XML Document	10/14/2005

Figure 3: ExchDump output files

Doubleclick the ExchDump HTML file and you will see the following report.

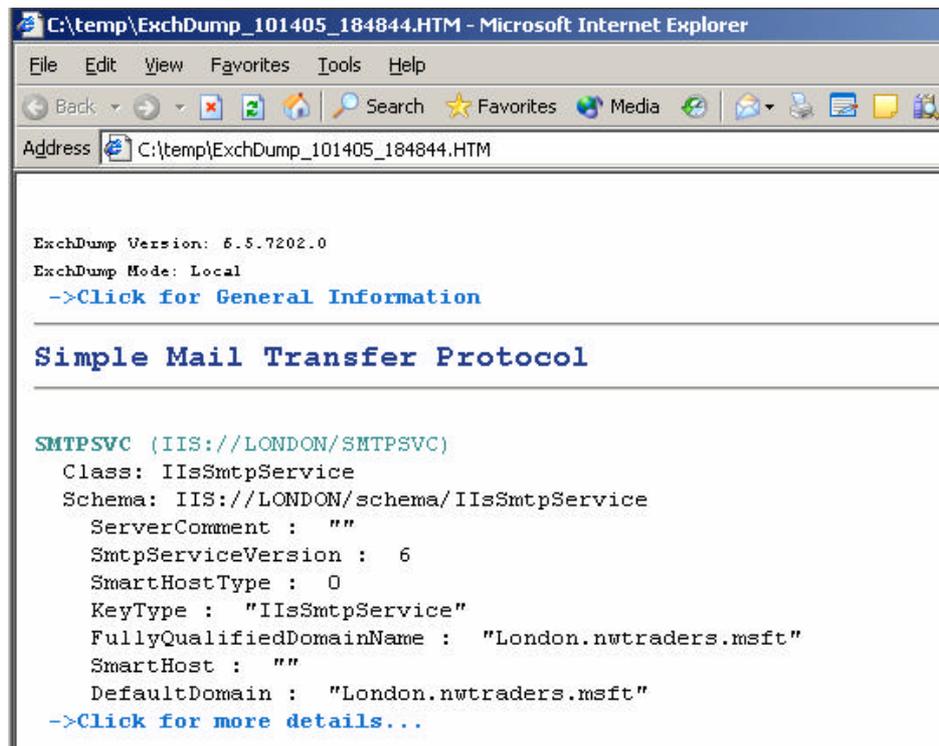


Figure 4: ExchDump output file

If you "click for more details" you will find very helpful details about the SMTP service configuration.

->Click for more details...

```
KeyType : "IISsmtpService"
MaxBandwidth : -1
MaxConnections : 2000000000
ServerComment : ""
ConnectionTimeout : 600
ServerListenTimeout : 120
MaxEndpointConnections : -1
ServerAutoStart : TRUE
AdminACL : IDispatch
AdminACLBin : (ARRAY)
IPSecurity : IDispatch
DontLog : FALSE
AccessFlags : 1
AccessExecute : FALSE
AccessSource : FALSE
AccessRead : TRUE
AccessWrite : FALSE
AccessScript : FALSE
AccessNoRemoteExecute : FALSE
AccessNoRemoteRead : FALSE
```

Figure 5: ExchDump /SMTP detailed informations

If you "Click for general information" you will find some general information about the Windows Server version, Computername, Logged in user and installed hotfixes and many more.

ExchDump Version: 5.5.7202.0

ExchDump Host: Local

->Click for General Information

#### Local Environment

```
COMPUTERNAME: LONDON
USERDNSDOMAIN: NWTRADERS.MSFT
USERNAME: administrator
LOGONSERVER: \\LONDON
NUMBER_OF_PROCESSORS: 1
```

#### Windows version

```
Product Name: Microsoft Windows Server 2003
Build Number: 3790
Value not defined
```

#### Windows HotFixes applied

```
iscsi200
KB819696
KB823182
KB823353
KB823559
KB824105
```

Figure 6: ExchDump /SMTP general information

These are only some examples of ExchDump so I recommend playing with this tool to collect all information you need.

## Conclusion

Exchdump is a small but very powerful utility to collect useful informations about your Exchange servers and your Exchange Organization for troubleshooting purposes.

## Related Links

Download Exchdump

<http://www.microsoft.com/downloads/details.aspx?familyid=d88b807d-964e-4bf8-9344-754892e9f637&displaylang=en>