

Admin+ User Guide

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1. Introduction

This document will describe use of the ADMIN+ scripts. These scripts are issued through JCL and results in output that can be viewed. The ADMIN+ program, supplied by Luminex, is to be installed on the mainframe running z/OS. Once installed, new functionality can easily be added by the addition of corresponding scripts on the Luminex Channel Gateways without modification or configuration of the ADMIN+ software on the mainframe.

2. JCL Syntax

When defining an ADMIN+ command, there are two categories of commands, GET and GO. The GET commands retrieve information. The GO commands will cause an execution on the server that may change the system configuration. Care must be taken with the GO command. When defining the command in JCL (see samples below), the GET or GO is declared first followed by the Action Word. The Action Word defines the action to perform. Following the Action Word may be additional parameters. When there are additional parameters, the Action Word is following by a colon. Parameters can be separated by commas or spaces. Valid samples are shown below:

```
GO PROTECT:ON ABC123 SPPROD
GO PROTECT:ON,ABC123,SPPROD
GET VOLINFO:ABC123 SPPROD
```

Some reports can contain a large amount of data. To enable these large reports, the JCL shall also include:

```
LARGEREREPORTS=Y
```

See the description of the commands to determine if this option is required.

The parameter list must be contained on a single line, line continuation is not supported. Most all commands and their parameters will easily fit on a line.

3. Sample JCL

Below are two examples of JCL used to issue an ADMIN+ script.

3.1 Example 1

Example 1 shows two ADMIN+ commands: CAP and SYSYSTEMCAP. In the first case no additional parameters are required on the SYSPRINT DD statement. The job output will display the outputs of these two commands without wrapping. By default, the resulting data will be a 133 character long output report.

```
//*JOB CARD
/*
//JS010 EXEC PGM=LUMADM
//STEPLIB DD DSN=SYS2.LUMINEX.LOADLIB,
// DISP=SHR
//DUMMY DD DUMMY
//TAPECTL DD DSN=SYS3.LUMINEX.ADMNPLUS, <- Cataloged tape DSN
// DISP=OLD to pass command
//SYSPRINT DD SYSOUT=$ <- Standard Reports
//SYSUDUMP DD DUMMY
//SYSIN DD *
GET CAP
/*
//
```

3.2 Example 2

Example 2 shows the ADMIN+ command DDRPERFSTATS. This specialized report requires a larger LRECL to prevent wrapping of the data at the 133 character limit. The JCL shows the method to increase the line length to 300 by adding the DCB parameter to the SYSPRINT DD statement. The resulting data will be a 300 character long output report.

```
//*JOB CARD
/*
//JS010 EXEC PGM=LUMADM
//STEPLIB DD DSN=SYS2.LUMINEX.LOADLIB,
// DISP=SHR
//DUMMY DD DUMMY
//TAPECTL DD DSN=SYS3.LUMINEX.ADMNPLUS, <- Cataloged tape DSN
// DISP=OLD to pass command
//SYSPRINT DD SYSOUT=$,DCB=(RECFM=FBA,LRECL=300) <- Wide Reports
//SYSUDUMP DD DUMMY
//SYSIN DD *
GET DDRPERFSTATS: UMEC5601
/*
//
```

4. Additional Parameters

Some ADMIN+ commands will require the additional parameter of a “device”. This device value is not the mainframe Unit Address, instead it is the internal value used to describe a device. The user should have a translation of these values. It is important to know which Channel Gateway the ADMIN+ command will be issued as multiple Channel Gateways will have identical device values.

Another common parameter passed is the “common storage name”. This name can be acquired through the `GET STORAGELIST` command.

Additional parameters are indicated after the command, delimited by the “:” (colon) character. For example, the parameter 1003 is passed to the `GET DEVSTAT` command as follows:

```
GET DEVSTAT:1003
```

5. GET Scripts

These scripts provide the functionality of ADMIN+. This section describes the GET scripts that are provided in the standard Luminex Channel Gateway products. GET scripts result in information being passed back from the Channel Gateways to the ADMIN+ output.

5.1 GET DEVSTAT

This script returns the status of the specified device.

5.1.1 Parameters

This requires the CU (control unit number) and the UA (unit address number) to be passed. For example, to get the status of CU 0 and Unit Address 01 do the following. Syntax shown below.

```
GET DEVSTAT:0001
```

5.1.2 Results

Below is a sample output where 0001 has tape X6600X mounted.

```
Mounted: X6600X
Display: X6600XS
Activity: writing
Tape Position: 1.410GB
```

5.2 GET CAP

This script will get capacity for all storage defined in the storage configuration file. This file is created upon installation of the Channel Gateways.

5.2.1 Parameters

There are no input parameters for this command. The syntax of the command is:

```
GET CAP
```

5.2.2 Results

Below is a sample output:

Storage Pool	Capacity	Used	Used(%)	CompRatio
SPprod	31.37TB	6.23TB	20	3.11
SPtest	10.00TB	5.27TB	52	2.73
SPdev	6.60TB	4.22TB	64	3.23

5.3 GET ALERT

This will get all alert conditions from the server. This script utilizes several server calls to detect server issues such as power supplies, fans, etc. Additionally, any replication issues will be picked up here.

5.3.1 Parameters

There are no input parameters for this command. The syntax of the command is:

```
GET ALERT
```

5.3.2 Results

The results are varied, depending on the alert condition. Below is an example where a scratch list is below a defined limit, and a device program is not running.

```
LUM101 - Only 10 scratch tapes in SPdev  
LUM009 - Server mdig9 - VolSer=EK2606 on Tag=CU0_0(mfaddr=9300) was idle 7200
```

5.4 GET ALLSCRCNT

This script will return the counts of all scratch pools defined on this server. It will also show the next 5 VOLSERs to be used as scratch.

5.4.1 Parameters

There are no input parameters for this command. The syntax of the command is:

```
GET ALLSCRCNT
```

5.4.2 Results

Below is the sample output for 3 scratch pools. The output includes the Pool name, the number of scratch tapes in the pool, and the next 10 scratches to be used.

Scratch Pool	Count	Next Available Volsers
SPdev	10	TS0038 TS0035 TS0032 TS0014 TS0003
SPprod	6376	EK2628 EK2627 EK2626 EK2625 EK2624
SPtest	875	JPS129 JPS128 JPS127 JPS126 JPS125

5.5 GET VOLINFO

This script will return information regarding a specific VOLSER.

5.5.1 Parameters

The VOLSER is required, the storage pool is optional. If no storage pool is provided, the software will attempt to find the valid one. For example, to get the status of VOLSER AAA000:

```
GET VOLINFO:AAA000
```

Or provide the storage pool of SPprod:

```
GET VOLINFO:AAA000 SPPROD
```

5.5.2 Results

The results indicate that VOLSER AAA000 is not in the scratch pool. Its size is 1.273G. The output also indicates the first dataset name, when it was last modified and when it was last accessed.

```
Volser - AAA000
Scratch - No
Location - etc/SPprod.config
Size - 1.273G
Dataset - T.F01K16C.AAA000
Modified:      Wed Feb 14 13:49:26 2018
Accessed:      Wed Feb 14 13:49:26 2018
```

5.6 GET CGINFO

This script will return information on the Channel Gateway on which this script is run.

5.6.1 Parameters

There are no input parameters for this command. The syntax of the command is:

```
GET CGINFO
```

5.6.2 Results

The hostname, primary IP address, and the CGX and LUC version installed on the server is displayed:

```
Hostname: mdig9
IP Address: 10.250.101.162
CGX Version 1.1.2.0, LUC Version 2.2.2.0
```

5.7 GET STORAGELIST

This script will return the storage spool defined on this server.

5.7.1 Parameters

There are no input parameters for this command. The syntax of the command is:

```
GET STORAGELIST
```

5.7.2 Results

The results give the names of all the Storage Pool On the server

```
SPprod
SPdev
SPtest
```

5.8 GET DDRINFO

This script will retrieve information on the Data Domains statistical information. Passed to this script is the common name of the DDR. A sample output is as follows:

5.8.1 Parameters

The common storage name is required as an input. For example, if information on DDR690 is requested:

```
GET DDRINFO:DDR690
```

5.8.2 Results

Information retrieved from the Data Domain is displayed. General information is first displayed, then information regarding specific directories is displayed.

Space Information for DDR690

Resource	Size GiB	Used GiB	Avail GiB	Use%	Cleanable GiB*
/backup: pre-comp	-	1416.2	-	-	-
/backup: post-comp	5026.8	225.3	4801.5	4%	20.4
/ddvar	189.0	5.3	174.0	3%	-

* Estimated based on last cleaning of 2011/03/29 06:12:50.

Overall Compression of DDR690

From: 2011-03-28 14:00 To: 2011-04-04 14:00

	Pre-Comp (GiB)	Post-Comp (GiB)	Global-Comp Factor	Local-Comp Factor	Total-C Fac (Reduction)
Currently Used:	1416.2	225.3	-	-	6.3x (84
Written:*					
Last 7 days	19669.6	36.6	28.5x	18.9x	537.3x (99
Last 24 hrs	3579.0	4.0	55.9x	16.0x	892.3x (99

Key:

```
Pre-Comp = Data written before compression
Post-Comp = Storage used after compression
Global-Comp Factor = Pre-Comp / (Size after de-dupe)
Local-Comp Factor = (Size after de-dupe) / Post-Comp
Total-Comp Factor = Pre-Comp / Post-Comp
Reduction % = ((Pre-Comp - Post-Comp) / Pre-Comp) * 100
```

```
Compression of /backup/mainframe/3590
Total files: 1; bytes/storage_used: 2.6
```

Original Bytes:	688
Globally Compressed:	688
Locally Compressed:	83
Meta-data:	180

Compression of /backup/mainframe/3490
Total files: 33; bytes/storage_used: 20.2

Original Bytes:	3,805,350,439
Globally Compressed:	2,218,221,707
Locally Compressed:	183,465,308
Meta-data:	5,287,524

5.9 GET DDRALERT

This script will put the alerts from the Data Domain.

5.9.1 Parameters

The common storage name is required as an input. For example, if information on DDR690 is requested:

```
GET DDRALERT:DDR690
```

5.9.2 Results

These results are variable as the messages from the Data Domain are returned. Below is an example of a failed disk.

```
LUM103 - Fri Feb 18 18:18    Encl 2 (SHU8959001073A8) Disk 9 has failed and should be replaced
```

5.10 GET DDRREPSTATUS

This script will retrieve information on the Data Domains replication status.

5.10.1 Parameters

The common storage name is required as input. To get the replication status for DDR690:

```
GET DDRREPSTATUS:DDR690
```

5.10.2 Results

Below is a partial result of this command:

```
DDR690 Replication Configuration
CTX      : 1
Source   : dir://dd690.luminex.com/backup/replicate
Dest     : dir://dd510.luminex.com/backup/replicate
Connection : dd510.luminex.com (default)
Status   : yes
CTX      : 2
Source   : dir://dd690.luminex.com/backup/dd690replicate
Dest     : dir://dd510.luminex.com/backup/dd510replicate
```

```
Connection : dd510.luminex.com (default)
Status      : yes
```

5.11 GET SP

This script will display the SP associated with the device that ran the ADMIN+ job

5.11.1 Parameters

There are no input parameters for this command. The syntax of the command is:

```
GET SP
```

5.11.2 Results

The results below show the Storage Pool associated with device

```
SP=SPprod
```

5.12 GET ACTIVE

This will display all the active devices on this server.

5.12.1 Parameters

There are no input parameters for this command. The syntax of the command is:

```
GET ACTIVE
```

5.12.2 Results

Below is a sample output:

Dev	VOLSER
6600	X6601X
6601	X6602X
6602	X6603X
660E	LUADM3

5.13 GET DDRFILESTATS

This script will issue the `filesys show compression` command to the DDR. The results will be formatted into a comma delimited file. This command will result in a display line greater than 133 characters. The JCL should be adjusted accordingly.

5.13.1 Parameters

The common storage name is to be passed. To send the command to DDR690:

```
GET DDRFILESTATS:DDR690
```

5.13.2 Results

Below is a sample output:

```
TYPE,DDUP_ID,START_DT,START_TM,END_DT,END_TM,CATEGORY,PRE-COMP-GB,POST-COMP-GB,GLOBAL-  
COMP  
,LOCAL-COMP,TOTAL-COMP,REDUCTION%  
FILESYS,DDR690,2011-03-22,10:00,2011-03-29,10:00,CURRENT,818.2,96.4,-,-,8.5,88.2  
FILESYS,DDR690,2011-03-22,10:00,2011-03-  
29,10:00,LAST7DAYS,2201.3,46.8,9.3,5.1,47.1,97.9  
FILESYS,DDR690,2011-03-22,10:00,2011-03-  
29,10:00,LAST24HRS,1740.9,8.0,9.1,23.9,218.1,99.5
```

5.14 GET DDRDFSTATS

This script will issue the `system show performance` command to the DDR. The results will be formatted into a comma delimited file.

5.14.1 Parameters

The common storage name is to be passed. To send the command to DDR690:

```
GET DDRDFSTATS:DDR690
```

5.14.2 Results

Below is a sample output:

```
TYPE,DDUP_ID,DATE,TIME,RESOURCE,SIZE,USED,AVAIL,USE%,CLEANABLE  
DF,DDR690,2011/03/29,06:12:50.,BACKUP-PRE,-,820.7,-,-,-  
DF,DDR690,2011/03/29,06:12:50.,BACKUP-POST,5026.8,96.4,4930.4,2%,0.8  
DF,DDR690,2011/03/29,06:12:50.,DDVAR,189.0,5.3,174.0,3%,-
```

5.15 GET DDRPERFSTATS

This script will issue the `df` command to the DDR. The results will be formatted into a comma delimited file. This command will result in a display line greater than 133 characters. The JCL should be adjusted accordingly.

5.15.1 Parameters

The common storage name is to be passed. To send the command to DDR690:

```
GET DDRPERFSTATS:DDR690
```

5.15.2 Results

Below is a sample output:

```
TYPE,DDUP_ID,DATE,TIME,READ_MB,WRITE_MB,NET_IN,NET_OUT,REPL_IN,REPL_OUT,PROC%,RECV%,SEN  
D%,I  
DLE%,GCOMP,LCOMP,CM_THRA,CM_UNUS,CM_OVHD,CM_DATA,CM_META,ST_RD,ST_WR,ST_R+,ST_W+,CDBVMS,CP  
U_AV,CPU_MX%,CPU_MX,DSK_MX%,DSK_MX,LAT_AV,LAT_SD  
PERFORM,DDR690,2011/03/28,10:13:50,0.0,0.0,0.00,0.00,0.00,0%,0%,0%,99%,4.6,3.2,0%,0%,  
99%,33%,0%,0,0,0,1,-----,0%,1%,0,0%,00,0.1,1.0
```

PERFORM,DDR690,2011/03/28,10:23:50,0.0,0.0,0.00,0.00,0.00,0.00,0%,0%,0%,99%,0.0,0.0,0%,0%,

5.16 GET REPREPORT

This script will generate a report of the Replicated volumes for the time frame specified. This could result in a large Report to the JCL should specify LAREGREPORT=Y.

5.16.1 Parameters

```
GET REPREPORT:<Time Frame> <Storage Pool>
```

Valid Time Frames are:

TODAY

WEEK

MONTH

Or since a specific date:

5/1/18

The resulting report may be large. Specify LARGEREREPORT=Y in the jcl:

LARGEREREPORT=Y

```
GET REPREPORT:WEEK SPprod
```

5.16.2 Results

Generating Replication Report for Storage Pool SPprod
from cga1 on Mon Apr 16 10:45:52 PDT 2018

DATE	TIME	VOLSER	Storage Pool
2018-04-11	11:03:02	A07993	SPprod
2018-04-11	13:55:38	A07991	SPprod
2018-04-11	14:00:49	A07991	SPprod

5.17 GET SCRLIST

This script will retrieve the scratch list for the specified Storage Pool. If no storage pool is specified then it will you the Storage Pool of the device the command run to. This script will display the complete scratch pool list.

5.17.1 Parameters

The Storage Pool can be specified. If not specified, the software will attempt to determine the best storage pool to use.

```
GET SCRLIST:<Storage Pool>
GET SCRLIST:SPPROD
```

5.17.2 Results

The list of all scratch VOLSER's will be displayed.

```
X00009
X00008
X00007
X00006
X00005
```

5.18 GET SYSTEMCAP

This script will get the system capacity of the server. It will issue a `df -v` to the server and return the results

5.18.1 Parameters

There are no parameters for this command. The syntax is shown below

```
GET SYSTEMCAP
```

5.18.2 Results

Below are some sample results;

Filesystem	1K-blocks	Used	Available	Use%	Mounted on
/dev/mapper/vg_hp1-lv_root	40185208	10624660	27512548	28%	/
/dev/mapper/vg_hp1-lv_opt	40185208	25524184	12613024	67%	/opt
/dev/mapper/vg_hp1-lv_var	40185208	3398496	34738712	9%	/var
10.100.1.25:/export/data1	281474976710656	682454080	281474294256576	1%	/luminex/storage/data
/dev/mapper/3600508b1001cb4048e259bcab2ebe5e8p1	487652	182521	279531	40%	/boot
/dev/mapper/vg_hp1-lv_home	9371576	7118396	1770468	81%	/home

5.19 GET REPPARMS

This script will return the Replication Parameters for the specified Storage Pool.

5.19.1 Parameters

The Storage Pool is required. The syntax is shown below.

```
GET REPPARMS:SPPROD
```

5.19.2 Results

Below are the results of this command.

```
Replication Parameters for SPprod
queueMax=4
replication=TRUE
remoteHost=cga2
timeoutSeconds=5000
```

5.20 GET VOLREPORT

This script will generate a report of all the volumes in the Storage Pool. This list could be very large so LARGEREPORT=Y needs to be specified in the JCL.

5.20.1 Parameter

The Storage pool name can be passed. If it isn't passed, then the Storage Pool for the device selected will be used. LARGEREPORT needs to be set to Y.

```
LARGEREPORT=Y
GET VOLREPORT: SPnec
```

Or

```
LARGEREPORT=Y
GET VOLREPORT
```

5.20.2 Result

The Scratch status of Yes indicates that the VOLSER is in the Luminex scratch list. The Dataset is the first dataset on the tape and consists of the last 17 characters of the true Dataset name. Modified is that last time, in server time, in which the VOLSER was last written. Size is the actual VOLSER size as written by the mainframe. Encrypt indicates if the VOLSER has been encrypted using Luminex's software. Comp is the compression ratio. The actual size on the server is approximately Size / Comp.

VOLSER	Scratch	Dataset	Modified	Size	Encrypt	Comp
EK0000	No	.STC.CONTROL.FILE	06/08/17 15:35	1830932	NO	2.4
EK0001	No	.PM.MG.TEST.F2434	06/01/17 13:09	22200004	NO	3.1
EK0002	No	PDQ.PM.MG.TEST.F1	06/01/17 13:09	322003	NO	3.6
EK0003	No	.PM.MG.TEST.F2437	06/01/17 13:09	9197522	NO	2.3
EK0004	No	.PM.MG.TEST.F2444	06/01/17 13:09	9934872	NO	6.2
EK0005	Yes	.PM.MG.TEST.F2408	06/01/17 13:09	239390	NO	3.3
EK0006	No	.PM.MG.TEST.F2444	06/01/17 13:09	1109375	NO	4.1
EK0007	Yes	.PM.MG.TEST.F2413	06/01/17 13:09	1330044	NO	2.6

6. GO Scripts

The ADMIN+ GO scripts should only be used by Luminex Personnel. These scripts display or change configurations on the Luminex Channel Gateway server. This section will describe the ADMIN+ GO scripts.

6.1 GO SETREPSTATE

This script will set the replication State to either TRUE or FALSE. By setting to FALSE, all replications will be suspended. While in this state the replication queue will continue to grow. When set to TRUE, replication will continue.

6.1.1 Parameters

The ADMIN+ scripts will pass either a TRUE or FALSE

GO SETREPSTATE:TRUE

6.1.2 Results

Replication state is set to TRUE

6.2 GO DRMODE

This script will start or stop DR test mode. It can also get the status of the Primary Replication queue.

6.2.1 Parameters

This ADMIN+ scripts allow one of four commands to be passed. The commands are:

STATUS

DRSTART

DRSTOP

TRUEDR

Examples are:

GO DRMODE:STATUS,SPPROD

GO DRMODE:DRSTART,SPPROD

A storage pool of “ALL” will perform the action on all storage pools.

6.2.2 STATUS

This get the status of the DR Mode:

```
GO DRMODE:STATUS,SPPROD
```

6.2.3 Results

Below is a sample result. In this case the DR site is not in DR mode:

```
----- Channel Gateway Nodes - SPprod -----  
DR Site    : cga2 : SECONDARY  
Primary Site : cga1 : PRIMARY  
Primary Site replication queue has 15 entries  
Replication is ENABLED
```

The DR site is now in DR/COR Mode:

```
----- Channel Gateway Nodes - SPprod -----  
DR Site    : cga2 : DR COR  
Primary Site : cga1 : PRIMARY  
Primary Site replication queue has 12 entries  
Replication is ENABLED
```

6.2.4 DRSTART

This will start the DR test mode

```
GO DRMODE:DRSTART,SPPROD
```

6.2.5 Result

Below is a sample result, and the warning message if the Copy-on-Replicate feature is enabled:

```
DR Site    : cga2 : Test DR mode initiated
```

Copy-on-Replicate (COR) Mode is active. COR will preserve all previously replicated VOLSER's in a temporary storage area for use during DR testing, while allowing replications to continue. When in COR mode storage capacity usage will increase.

6.2.6 DRSTOP

This will stop the DR test mode.

```
GO DRMODE:DRSTOP,SPPROD
```

6.2.7 Results

DR Site : cga2 : Stopped DR Test mode

6.2.8 TRUEDR

This will Activate Recovery Mode. This mode is only intended for a True DR site swap. It will take Luminex Support to revert operations to the primary site. This mode must be enabled by Luminex Support personnel.

GO DRMODE:TRUEDR,SPPROD

6.3 GO PROTECT

This will set or clear the Write Protect of a VOLSER. When set, the VOLSER is in a Read Only state.

6.3.1 Parameters

The syntax is:

GO PROTECT: ON/OFF <VOLSER> <SP>

To set the Write Protect feature on VOSLER ABC123 in storage pool SPprod:

GO PROTECT:ON ABC123 SPPROD

To clear the Write Protect Feature:

GO PROTECT:OFF ABC123 SPPROD

6.3.2 Results

Successful cleared Write Protect mode on ABC123

6.4 GO NOTES

A short note can be assigned to the VOLSER. This note can be displayed in the ADMIN GUI under View Volume.

6.4.1 Parameters

The VOLSER and storage pool are required.

GO NOTES:<VOLSER> <SP> <Text>

For example, to set a note of “This tape contains payroll information for 5/12/19” for VOLSER ABC123 in storage pool SPprod:

GO NOTES:ABC123 SPPROD THIS TAPE HAS PAYROLL INFORMATION FOR 5/12/19

The length of the notes text is limited to one line in the JCL. There is no line continuation.

6.4.2 Results

Successfully set notes on ABC123

7. Other Commands

Other commands exist or can be created. Contact Luminex Support to request additional features.