

# XADMIN(8)

REVISION HISTORY			
NUMBER	DATE	DESCRIPTION	NAME

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## Chapter 1

# SYNOPSIS

**xadmin** [*COMMAND*] [*OPTIONS*]

## Chapter 2

# DESCRIPTION

*xadmin* is command line interface to Enduro/X. It is administration utility. Which is servers as communication interface between Enduro/X ATMI local daemon and administrator. *xadmin* can receive commands as parameter to *xadmin*. It can read command from pipe (stdin). And it can work in interactive mode. In this case *xadmin* is started with no parameters.

*xadmin* is responsible to start idle instance of *ndrxd*. After that *xadmin* sends commands to *ndrxd* and prints the response from daemon to the stdout in human readable form. Commands are sent and response from *ndrxd* are received via POSIX Queues.

*xadmin* can lookup the configuration (currently used for user specific generators). The configuration search order is following:

1. INI file by *NDRX\_XADMIN\_CONFIG* environment variable. This can also be a directory. The common-config routines will load all configs (.ini .cfg, .conf, .config) files.
2. INI file in *\$HOME/.xadmin.config*;
3. INI file in */etc/xadmin.config*;

## Chapter 3

# COMMANDS

**quit**

Quit from command line utility

**q**

Alias for quit

**echo**

Echo text back to terminal

**idle**

Enter daemon process in idle state (if not started)

**help**

Print help (this output)

**stat**

Prints general status information

**ldcf**

Load configuration

**start [-y] [-s <server>] [-i <srvid>]**

Start application domain. If config not loaded, it loads configuration automatically. *-y* means do not ask for confirmation. *-s* means ATMI servers binary name to be started, instead of whole application domain. *-i* means start specific server instance.

**psc**

Print services

**stop [-y] [-s <server>] [-i <srvid>] [-k]**

Stop application domain. *-y* means do not ask for confirmation. *-s* means ATMI servers binary name to be stopped, instead of whole application domain. *-i* means stop specific server instance. *-k* flag will keep *ndrxd* running, and protected servers will not be shutdown.

**sreload [-y] [-s <server>] [-i <srvid>]**

Reload application domain - restart server instance by instance. Configuration be loaded prior. *-y* means do not ask for confirmation. *-s* means ATMI servers binary name to be reloaded, instead of whole application domain. *-i* means restart specific server instance.

**sr**

Alias for *sreload*

**psc , down [-y]**

Force appserver shutdown & resurce cleanup. RUN ONLY IF YOU KNOW WHAT YOU ARE DOING! Basically this kills all ATMI servers and Enduro/X daemon. This does NOT remove client processes.

**cat**

Attached console to ndrxd user session in progress

**reload**

Load new configuration

**testcfg**

Test new configuration

**unadv -i server\_id -s service\_name**

Un-advertise service. *-i* is server id, *-s* is service name to be unadvertised.

**readv -i server\_id -s service\_name**

Re-advertise service. Might be usable if service Q was unlinked. *-i* is server id, *-s* is service name to be re-advertised.

**restart [-y] [-s <server>] [-i <srvid>]**

Restart app or service (invokes start & stop with same args!). *-y* makes to not to ask for confirmation. *-s* is server/binary name. *-i* is server ID.

**r**

Alias for *restart*

**-v**

Print version info

**ver**

Alias for *-v*

**ppm**

Print process model

**psvc**

Shared mem, print services

**psrv**

Shared mem, print servers

**cabort [-y]**

Abort shutdown or startup operation in progress. *-y* do not ask for confirmation.

**sreload [-y] [-s <server>] [-i <srvid>]**

Restart servers instance by instance

**pq**

Print Queue stats from ndrxd.

**pqa [-a]**

Print all queues including client and admin Q. *-a* includes other prefix queues.

**pt**

Print global transactions in progress.

**printrans**

Alias for *pt*.

**abort -t <transaction\_manager\_reference> -x <XID> [-g <resource\_manager\_id>] [-y]**

Abort transaction. *-g* does abort single resource manager's transaction. *-y* is for auto confirmation.

**aborttrans**

Alias for *abort*.

**commit -t <transaction\_manager\_reference> -x <XID> [-y]**

Commit transaction. *-y* is for auto confirmation.

---

**committrans**

Alias for *commit*.

**pe**

Print Environment variables of *ndrxd* process.

**printenv**

Alias for *pe*.

**set ENV\_NAME=ENV VALUE**

Set environment value. The value of env variable is parsed as command line arguments. Prior sending to *ndrxd* they are concatenated with spaces in between.

**unset ENV\_NAME**

Unset environment variable

**pc**

Print client processes. This sends command to Client Process Monitor server (*cpmsrv*).

**bc -t <process\_tag> [-s <sub\_section>] [-w <wait\_time>]**

Boot client process. This sends command to Client Process Monitor server (*cpmsrv*). Processes are registered in *ndrx-config.xml* *<clients>* section. If sub section is not specified, then default value is minus sign (-). The *process\_tag* and *sub\_section* can contain wildcards percent (%) sign. Then boot process will be executed in batch mode and progress will be returned to the xadmin's output. When running in batch mode *wait\_time* is time in milliseconds to sleep after each matched process is marked for start. Note that *wait\_time* shall be less than global timeout specified in *NDRX\_TOUT* env variable (or cconfig [*@global*] section).

**sc -t <process\_tag> [-s <sub\_section>] [-w <wait time in milliseconds>]**

Stop client process. This sends command to Client Process Monitor server (*cpmsrv*). The process is stopped by *process\_tag* and optional *sub\_section*. If sub section is not specified, then default value is minus sign (-). The *process\_tag* and *sub\_section* can contain wild-card percent sign (%), then stopping is executed in batch mode (stop all matched running processes). If *wait\_time* is specified then in batch mode it is sleep in milliseconds after each stopped process. Note that *wait\_time* shall be less than global timeout specified in *NDRX\_TOUT* env variable (or cconfig [*@global*] section). Also time needed for stopping shall be counted in. If the timeout occurs, *cpmsrv* will complete the operation anyway.

**rc -t <process\_tag> [-s <sub\_section>] [-w <wait time in milliseconds>]**

Reload client process. This sends command to Client Process Monitor server (*cpmsrv*). The process is reloaded (stopped/-marked for start) by *process\_tag* and optional *sub\_section*. If sub section is not specified, then default value is minus sign (-). The *process\_tag* and *sub\_section* can contain wild-card percent sign (%), then reloading is executed in batch mode (stop/start running processes one by one). If *wait\_time* is specified then in batch mode it is sleep in milliseconds after each stopped process. Note that *wait\_time* shall be less than global timeout specified in *NDRX\_TOUT* env variable (or cconfig [*@global*] section). Also time needed for stopping shall be counted in. If the timeout occurs, *cpmsrv* will complete the operation anyway. The *wait\_time* can be used in cases when reloading the binaries with out service interruption, in that case *wait\_time* should contain the *cpmsrv*'s interval check time (*-i* flag) because for start operation binary is only marked for boot and not the booted. Basically this executes *sc/bc* for each of the matched processes.

**mqlc**

List queue configuration. This broadcasts the requests of config listing to all *tmqueue* servers. If flags column contains *D* flag, then it means that queue was dynamically defined and QDEF string contains values from default queue.

**mqlq**

List actual queues allocated on system. Similarly as for *mqlc* this requests the information from all *tmqueue* servers. *#LOCK* column contains the number of active non committed messages in Q. *#SUCC* and *#FAIL* column contains number of processed messages for automatic queues (messages are sent to destination services automatically by *tmqueue* server).

**mgrc**

This command requests all queue servers to reload the configuration file.

**mqlm -s <QSpace> -q <QName>**

List messages in queue. *-s* is queue space name (set by *tmqueue -m* paramemter). The output lists the message ID in modified base64 version (/ changed to \_).

**mqdm -n <Cluster node id> -i <Server ID> -m <Message ID>**

Dump/peek message to stdout. The values from *-n* (node id), *-i* (srvid), *-m* (message id) can be taken from *mqdm* command. This command prints to stdout, the *TQCTL* structure in form of UBF buffer and the message it self. If message is UBF, then UBF dump is made, otherwise hexdump of message is printed.

**mqch -n <Cluster node id> -i <Server ID> -q <Q def (conf format)>**

Change/add queue definition to particular *tmqueue* server. The format of the queue definition is the same as used *q.conf(5)* (see the man page). You may miss out some of the bits (except the queue name). Those other bits will be take from default *q*.

**mqrm -n <Cluster node id> -i <Server ID> -m <Message ID>**

Remove message from queue. You have to identify exact queue space server here by Enduro/X cluster id and server id.

**mqmv -n <Source cluster node id> -i <Source server ID> -m <Source Message ID> -s <Dest qspace> -q <Dest qname>**

Move the message from specific qspace server to destination qspace and qname. The bits from *TPQCTL* which are returned by *tpdequeue()* call are preserved in new *tpenqueue()* call. Note that for this call *xadmin* must be in invalid XA environment, so that distributed transaction can be performed.

**killall <name1> [<name2> ... <nameN>]**

Kill all processes given by *ps -ef*. The command does match the name in the line. If substring is found, then process is killed.

**qrm <qname1> [<qname2> ... <qnameN>]**

Remove specific Posix queue.

**qrmall <substr1> [<substr2> ... <substrN>]**

Remove queue matching the substring.

**provision [-d] [-v<param1>=<value1>] ... [-v<paramN>=<valueN>]**

Prepare initial Enduro/X instance environment, create folder structure, generate configuration files with ability to register all available services.

**gen [-d] [-v<param1>=<value1>] ... [-v<paramN>=<valueN>]**

Generate application sources. See the *xadmin*'s help for more details. Currently it is possible to generate C and Go sources and the UBF buffer headers for both languages. By running the command, wizards will be offered asking for different details. Which later can be reconfigured by *-d* - allowing to default the wizard, while *-v* allows to set wizard values from command line.

## Chapter 4

# CONFIGURATION

The following parameters from section [**@xadmin**] or [**@xadmin/**<**\$NDRX\_CCTAG**>] are used (if config file is present):

**gen scripts=***PATH\_TO\_GENERATOR\_SCRIPTS*

This parameter configures the path where *xadmin* should look for .pscript files. The file names must be in following format: `gen_<lang>_<type>.pscript`. Basically <lang> and <type> will be offered as targets under `$xadmin gen` command. The `$xadmin help` will print these scripts. For script reference look in Enduro/X source code, **xadmin/scripts** folder. It is assumed that these scripts will inherit *WizardBase* class compiled into Enduro/X. This class is driving the wizard. Also note that each parameter which is asked to user enter into wizard, can be overridden from command line with **-v<param1>=<value1>**. The generator can be defaulted by **-d** argument.

## Chapter 5

# SAMPLE CONFIGURATION

For system wide settings the following file is created: **/etc/xadmin.config**:

```
[@xadmin]  
gen scripts=/development/templates
```

## Chapter 6

# EXIT STATUS

**0**      Success

**1**      Failure

## Chapter 7

# BUGS

Report bugs to [support@mavimax.com](mailto:support@mavimax.com)

## Chapter 8

## SEE ALSO

**ndrxd(8), q.conf(5), tmqueue(8) cpmsrv(8)**

## Chapter 9

# COPYING

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