

# Oxygene.lua 1.5a

© Szabolcs Molnár, 2004-2007

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**- an all-round slot rules and trigger bot for BCDC++ -**

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# 1. Preface

Oxygene.lua is a Lua script (<http://www.lua.org>) for BCDC++. Originally it was made to check some hubrules and kick/notify the user if something is wrong. Lately, many other options added, so now it can even handle triggers which can do actions like responding to main chat messages and other events.

## 1.1 License and copyright

Oxygene.lua is licensed under the terms of GNU General Public License version 3. See license.txt for terms and conditions. This documentation is licensed under GNU Free Documentation License. See Appendix C for the full text of license.

## 1.2 Document syntax

...

# 2. Features

- 1) Works only hubs which you want it to work, this way you can enter as many hubs as you want with the script, it won't kick the users on the others ;)
- 2) Checks if Download/Upload bandwidth is shown in the Description field and checks the slot rules and the upload limit amount for that
  1. Able to process the numbers, don't matter if it's integer or float
  2. Rules are fully customizable
- 3) Advanced trigger functions adding possibility to check for non-wanted clients, respond for main chat actions, executing commands based on time and so (for example it can check any text in description field, or version number, can notice OpChat, or send a content of a text file in pm to a user or to the hub's main chat, it can send a particular message to the chat in every 20 minutes, etc)
- 4) You can set up the protected users' list using exact or partial nick match or with regular expressions.
- 5) Logging to files "oxygene\_log.log" and "oxygene\_kicks.log"
- 6) Statistics about online users and client types
- 7) Able to kick selected users (selected nicks or a given amount) if they're violating the rules
- 8) Easy to translate to your own language using the Language files
- 9) Sure there is much more, just don't get in my mind now :)

# 3. Requirements

The script requires **BCDC++ 0.699d or newer** to run. To get the current version of BCDC++, go to <http://bcdc.dccafe.org> (click on "English pages" at the bottom of the menu if want the homepage in English) or <http://utrum.dyndns.org:8000>. For script updates, go to <http://bcdc.dccafe.org>.

# 4. How to install?

## 4.1 Setting up the script

- 1) Copy all files from the archive into BCDC's "scripts" directory
- 2) Edit the **startup.lua** file.
  1. Look for the **dofile**( lines in **startup.lua** which are used to load the scripts at the start of BCDC++. For example, you will find a some lines similar to this:  
`dofile( DC():GetAppPath() .. "scripts\\formatting.lua" )`  
 When you've found these **dofiles** (probably at the end of the file), add your own to load checkslot.lua the following way:  
`dofile( DC():GetAppPath() .. "scripts\\oxygen.lua" )`
  2. Then save **startup.lua**
- 3) Restart BCDC++ to make the script load then enter with it to the hub.
- 4) Since the script only answers to the operator of those hubs you want, someone has to add the hub's IP to the 'allowed hubs' list simply using the **-chaddhub**<sup>1</sup> command in private chat.
- 5) **Important:** Reconnect to the hub (or restart BCDC++) to get the userlist built for the script
- 6) You're ready, from now on, you can send commands to this client in pm (and some commands in main chat) from any other clients on the hub. For the most command, you should be an operator of the hub to get them work.

## 4.2 Setting up your language

After installation, the script sends English messages to the users. To use other language, ensure that the appropriate language file and help file is in the /scripts directory too (for example: `oxygen.lua`, `oxygen_help.lua`), then use the **-chset language HUN** command to change the language. Don't forget to use the **-chreload** command after this to load the language file.

## 5. Commands which are recognized by the script

### 5.1 General

**-help [command] or -? [command]**

Usage: **-help [command]**, **-? [command]**

Description: Shows the help. If [command] parameter is given, then sends a short help for the given command.

Answers for: main chat, private chat

Only for: Operators on the allowed hubs

**-chgetinfo <nick>**

Usage: **-chgetinfo <nick>**

Description: Shows some userinfo. Mostly includes things you can read from the tag manually, but this is more convenient than checking the tag, since you get his/her status against the current slot rules. If the user is violating it, you can see the verbatim copy of the message he gets from the bot.

Command example: **-chgetinfo JohnSmith**

Answers for: private chat

Only for: Operators on the allowed hubs

Example:

```
[13:41:35] <[OP]FleetCommand> -chgetinfo [HUN]Missy
[13:41:39] <Oxygene>
```

---

Userinfo ([HUN]Missy):

---

<sup>1</sup> Alternatively, you can add any hub (not only the current one) if you specify a host: **-chaddhub [host]**

---

Description: [384K/64K] Nice share  
Bandwidth: 384K/64K  
Operator: no  
Tag: ++ V:0.674,M:A,H:2/0/0,S:2  
Connection: DSL  
E-mail:  
Sharesize: 23847505497 B  
Latest chat message: "bye"  
Not protected  
Slotrules: OK  
Points for slotrules violation: 0

---

OK

## **-chstat**

Usage: -chstat [full]

Description: Shows the user statistics including the number of slotrules violators, the Active/Passive users and users grouped by their client version. The average point statistics section displays the points get the users for slotrules violation based on their client type. If you use the **-chstat full** command, the table includes the percentages of the client distribution too.

Answers for: private chat

Only for: Operators on the allowed hubs

Example:

[14:20:35] <[OP]FleetCommand> -chstat

[14:20:36] <Oxygene>

---

General hub statistics	Oxygene 1.5a
------------------------	--------------

---

Autochecking active: yes  
Usercount: 3189 users  
Bad slotrules: 1216 users (1 protected)  
Average points: 16,37  
P: 1318  
A: 1863  
Missing tag: 7  
S: 1

---

Client statistics

---

++ 0,4032:	22
++ 0,4033:	6
++ 0,4034:	11
++ 0,4036:	1
++ 0,405:	1
++ 0,406:	1
++ 0,4242:	1
++ 0,604:	1
++ 0,666:	2
++ 0,667:	6
++ 0,668:	292
++ 0,67:	35
++ 0,673:	19
++ 0,674:	505
++ 0,676:	1
++ 0,6811:	4
++ 0,686:	29
++ 0,687:	2
++ 0,688:	21
++ 0,689:	35
++ 0,69:	5
++ 0,691:	78
++ 0,693:	1
++ 0,694:	22
++ 0,695:	1
++ 0,696:	14
++ 0,698:	414
++ 0,699:	426
ApexDC++ 0,2:	1
ApexDC++ 0,3:	1

```

ApexDC++ 0,4: 12
ApexDC++ 1: 5
BCDC++ 0,698: 1
bmrgDC++ 0,674: 17
DCGUI 0,3: 3
DCWatch 0,3: 1
ELITE 0: 1
IceDC++ 1,01: 1
Missing tag: 6
PWDC++ 0,41: 1
Royal 1: 22
Royal 2,03: 3
SP 0,9: 2
StrgDC++ 1: 461
StrgDC++ 2: 39
StrgDC++ 2,01: 41
StrgDC++ 2,02: 54
StrgDC++ 2,03: 550
wessX++ 32,8: 1
Z++ 2,01: 1
Z++ 2,02: 3
Z++ 2,05: 1
Z++ 2,15: 1
Z++ 2,16: 3
Z++ 2,17: 1

```

---

Average points statistics

---

```

++: 17,3
ApexDC++: 24,31
BCDC++: 0
bmrgDC++: 13,7
DCGUI: 1,11
DCWatch: 0
ELITE: 0
IceDC++: 0
Missing tag: 0
PWDC++: 100
Royal: 10,43
SP: 50
StrgDC++: 14,73
wessX++: 0
Z++: 34,37

```

---

OK

### **-chsay <chat\_message>**

Usage: -chsay <chat\_message>

Description: This command allows our bot to “talk” in main chat. It does nothing else but repeat the message we want in main chat.

Answers for: private chat

Action goes to: main chat

Only for: Operators on the allowed hubs

## **5.2 Installation**

### **-chaddhub [host]**

Usage: -chaddhub [host]

Description: Adds the current or specified hub to the enabled hubs' list.

**Important:** After enabling the script, you must reconnect with the bot client to the hub!

Answers for: private chat

Only for: Any operator on the hubs where the script's running

Example: -chaddhub

### **-chrhub [host]**

Usage: -chrhub



Description: Removes the current or specified hub from the enabled hubs' list.

Answers for: private chat

Only for: Any operator on the hubs where the script's running

Example: -chrhub

### **-chlisthubs**

Usage: -chlisthubs

Description: Lists the addresses of the hubs where the script is currently allowed.

Answers for: private chat

Only for: Any operator on the hubs where the script's running

Example:

```
[12:39:32] <[OP]FleetCommand> -chlisthubs
```

```
[12:39:32] <Oxygene>
```

```
-----  
Currently allowed hubs:  
-----
```

```
elite.4242.hu:4242  
-----
```

## **5.3 Getting and setting configuration**

### **-chgetconfig**

Usage: -chgetconfig

Description: Shows some settings you can change

Answers for: private chat

Only for: Operators on the allowed hubs

Example:

```
[20:11:08] <[OP]FleetCommand> -chgetconfig
```

```
[20:11:09] <Oxygene>
```

```
[20:11:09] <Oxygene> Configuration Oxygene 1.5a
```

```
[20:11:09] <Oxygene>
```

```
[20:11:09] <Oxygene> language US
```

```
[20:11:09] <Oxygene> opchat_name OpChat
```

```
[20:11:09] <Oxygene> chbandwidth pm
```

```
[20:11:09] <Oxygene> ulimitcheck 1
```

```
[20:11:09] <Oxygene> reversebandwidth 1
```

```
[20:11:09] <Oxygene> minshare 0
```

```
[20:11:09] <Oxygene> trigcase 0
```

```
[20:11:09] <Oxygene> inactivetime 120
```

```
[20:11:09] <Oxygene> rulesurl http://www.myhub.com/slotrules.asp
```

```
[20:11:09] <Oxygene> triggers 1
```

```
[20:11:09] <Oxygene> OK
```

Explanation of config values:

- **language**

The language which the script uses for displaying help and the messages for users. See 6.2 if you want to make your own translation. Use **-chreload** command after changing this value.

- **opchat\_name**

It's the name of the OpChat. You can make the script report anything you want to the opchat using some triggers.

- **chbandwidth**

Sets the way of slot-checking (based on bandwidth indicated in the description field). Possible values: **off**, **pm** and **disconnect**. If you set to **off**, the script doesn't check the slot rules. The **pm** value makes it send a private message to the users if their settings don't fit the slot rules. The **disconnect** value kicks the users with bad slot rules using the current kick profile (see 5.5).

- **ulimitcheck**

If set to **1**, then the script checks the upload bandwidth rules together with the slot rules. The user get notifications only when **chbandwidth** is set to other than **off**.

- **reversebandwidth**

When set to other than 0, the script also check if the user's upload bandwidth is larger than the download bandwidth. If so, then notifies the user that he indicated the bandwidth in the wrong order in his/her description. To automatically send notifications, you need to set **chbandwidth** other than **off**.

- **minshare**

The minimal share size in bytes the rules are applied to. The slotrules for users with less share than this value are ignored. For example, if you set **minshare** to 1048576, users with less than 1 MiB share won't get kicked and notified because of slotrules violations.

- **inactivetime**

Sets how much time (in seconds) should the bot wait after connecting to the hub before sending any private messages or kicking anyone because of the slotrules. This setting doesn't affect the trigger actions! If you don't have problem with entering the hub then you don't have to modify this variable.

- **rulesurl**

Specifies the URL of the slotrules of the hub. This URL is sent at the end of every private/kick message which is sent because of slotrules.

- **trigcase**

Enables or disables case-sensitive comparing in triggers. Set it to 0 if you want your triggers to be non case-sensitive; other than 0 to enable case-sensitivity.

- **triggers**

Enables or disables the triggers. Set it to **0** if you want to disable triggers, or to **1** if you want to enable them.

### **-chset <config\_var> <value>**

Usage: -chset <config\_var> <value>

Description: Modifies the config values. You can modify any value which can be found in the config list (see -chgetconfig above). Please be careful when modifying them, since the script doesn't verify the values.

Answers for: private chat

Only for: Operators on the allowed hus

Example:

```
[14:26:22] <[OP]FleetCommand> -chset chbandwidth pm
```

```
[14:26:23] <Oxygene> [string][off>> pm] OK
```

### **-chreload**

Usage: -chreload

Description: Loads the specified language file, then updates all userdata in order to storing the kick-messages on the new language. You only need to use this command after changed the **language** config value using the -chset command.

|| Please note that this may take a while, even on a quite fast computer, the update can take a minute or even more :)

## 5.4 Checking bandwidth

### 5.4.1 Kicking and noticing users

**-chnotice** <nick> <pm/profile\_name>

Usage: -chnotice <nick> <pm/profile\_name>

Description: Sends a private message or kicks the user if violating the rules. Recommended to use it when you want to kick a special user for violating the rules. -chnotice can be used to disconnect/pm the user without waiting for a new \$MyINFO from him/her.

If the second parameter is **pm**, the script sends a private message to the user. If you provide a profile name, the user will be kicked with that profile. If you send **default** as profile name, it kicks with the default kick profile.

Examples: -chnotice [HUN]Sandor\_vagyok default

Answers for: private chat

Only for: Operators on the allowed hubs

**-chcheckhub** <max\_num> [profile]

Usage: -chcheckhub <max\_num> [profile]

Description: Checks the hub against slot rules and kicks at most **max\_num** users using the given kick-profile. **profile** parameter is optional. If missing, the default kick-profile will be used (see 5.5).

Examples:

-chcheckhub 200 verli\_kick

-chcheckhub 500

Answers for: private chat

Only for: Operators on the allowed hubs

If you want the users to be automatically notified or kicked for violating the rules, then set the **chbandwidth** config value to **pm** (for private messaging) or **disconnect** (for kicking). See 5.3.

### 5.4.2 Customizing slot rules

You can view and modify the slot rules using the **-chrules** command. There are various parameters you can use: **-chrules** <list/add/rm/ulimit/clearall/restore> [params]

#### Listing rules

To view the current slot rules, use the **-chrules list** command. You'll get a table similar to this:

```
[15:45:37] <[OP]FleetCommand> -chrules list
[15:45:38] <Oxygene> -----
[15:45:38] <Oxygene> Bandwidth          min. slot  max. slot  rec. slot  max. hub  max-hub kick
[15:45:38] <Oxygene> -----
[15:45:38] <Oxygene> Up to 56 kbps:      1          1          1          1          1
[15:45:38] <Oxygene> Up to 64 kbps:      2          2          2          2          3
[15:45:38] <Oxygene> Up to 96 kbps:      2          3          2          2          3
[15:45:38] <Oxygene> Up to 128 kbps:     3          3          3          3          4
[15:45:38] <Oxygene> Up to 160 kbps:     3          4          3          4          5
[15:45:38] <Oxygene> Up to 256 kbps:     4          4          4          4          5
[15:45:38] <Oxygene> Up to 384 kbps:     4          5          4          5          6
[15:45:38] <Oxygene> Up to 512 kbps:     5          6          6          5          6
[15:45:38] <Oxygene> Up to 768 kbps:     6          8          7          6          7
[15:45:38] <Oxygene> Up to 1024 kbps:    6          8          8          6          7
[15:45:38] <Oxygene> Up to 2048 kbps:    8         10         10         7          8
[15:45:38] <Oxygene> Up to 4096 kbps:   11         20         20         8          9
[15:45:38] <Oxygene> Up to 10240 kbps:  18         35         30        10         11
[15:45:38] <Oxygene> Above that:        31         50         40        13         14
[15:45:38] <Oxygene> -----
[15:45:38] <Oxygene> Upload limit config:
```

```
[15:45:38] <Oxygene> Threshold: 75 % - Min. limit: 8 KiB/sec - Applied for: 64 kbps and above
[15:45:38] <Oxygene> Total: 14 items
[15:45:38] <Oxygene> -----
[15:45:38] <Oxygene> OK
```

The **min. slot** and **max. slot** column shows how many slots should be opened for the given upload bandwidth. The **rec. slot** column is a recommendation for the user. If the slot number is out of the min-max interval, then the user gets notified (if bandwidth-checking is set to pm or disconnect. See 5.4.1 and 5.3) that it's recommended to open <rec. slot> slots according to the hub rules, so the bot asks him/her to open at least <min. slot> and at most <max. slot> slots to ensure he/she can stay in the hub.

The **max. hub** column contains the maximum number of hubs according to the rules. The latest, **max-hub kick** column provides some allowance for that since the script kicks/pms the user only after he/she overrun this number of hubs. The difference between the two columns is that the user will be notified after the **max-hub kick** column number of hubs, but the script will tell him/her to be only **max. hub** number of hubs.

The later part of the table shows the current upload limit rules. The users should set their upload limit at least <Threshold> percent of their nominal upload bandwidth, but minimum <Min. limit> KiB/sec.

The upload rules not applied to everyone but the users with the indicated minimum upload bandwidth. By default, it's set to 64 kbps. It means that users below 64 kbps upload bandwidth are not checked against rules. This protects the dial-in modem users and users with extremely bad connection.

|| The slot rules are only applied if **chbandwidth** config value is set to pm or disconnect. See 5.3 for details.

### ***Adding and modifying a rule***

For adding a new bandwidth-rule or modifying an old one, you should use the following command:  
**-chrules add <upper\_bandwidth> <minslot> <maxslot> <slotrec> <maxhub> <maxhub\_kick>**  
 Where:

**<upper\_bandwidth>** is the maximum bandwidth in kbps which the rule is applied for. Specify -1 if you want to add/modify the rule called "Above that". The -1 is special, because that will be applied to everyone who specifies larger upload bandwidth than the numbered element of the list.

**<minslot>** and **<maxslot>** is the minimum and maximum number of slots which the user should open not to be noticed/kicked. The **<slotrec>** is a slot recommendation (between the boundaries of min and max-slot). The script states the user that it's recommended to open <slotrec> slots, but he/she should keep the slot number between <minslot> and <maxslot> to be not kicked.

**<maxhub>** is the maximum numbers of hub where the user can stay at the same time.. but he/she won't be kicked until overruns the **<maxhub\_kick>** number of hubs.

|| Only the plain hub number and registered hub number is counted into the <maxhub> number, the hubs where the user is op are not.

You should use the same command to add a new bandwidth and to overwrite an existing one. In the latter case you should specify a bandwidth which already added to the rules.

Example:

```
[18:53:19] <[OP]FleetCommand> -chrules add 512 5 6 6 5 6
[18:53:19] <Oxygene> [overwrite] OK
```

## Removing rule or rules

You have two options to remove rules. You can remove rules one by one, by using the **-chrules rm <bandwidth>** command, where the bandwidth is the upper bandwidth which is listed in the rules table.

You may remove all rule by clearing the whole table. For this, you can use the **-chrules clearall** command.

Examples:

```
[18:56:04] <[OP]FleetCommand> -chrules rm 512  
[18:56:04] <Oxygene> OK
```

```
[18:56:13] <[OP]FleetCommand> -chrules clearall  
[18:56:14] <Oxygene> OK
```

## Restoring default rules

To restore the default slot rules table use the **-chrules restore** command. That will clear and recreate your existing slot rules table with the default values including the bandwidth rules.

Example:

```
[18:59:13] <[OP]FleetCommand> -chrules restore  
[18:59:14] <Oxygene> OK
```

When you add/modify/remove a rule or clear/restore the slot rules table, the script automatically disables the automatic bandwidth checking for the users' protection (you'll be notified). To re-enable, use the **-chset** command. See 5.3

## Setting upload limit rule

You can set the upload limit rule with the **-chrules ulimit <percent> <min\_limit> <applied\_from>** command. The users should set their upload limit to <percent> percent of their upload bandwidth, but at least <min\_limit> KiB/sec. It's only checked if the upload bandwidth of the user is equal or greater than <applied\_from> kbps.

The upload limit is checked only if **ulimitcheck** config variable is set to 1. See 5.3 for details.

## 5.5 Kick profiles

Kick profiles provides different modes for kicking. The script includes some preset for different types of hub software. For instance, you can use them to kick users for different interval than the default one or simply just disconnect them and more.

Two different profiles are known. The **chat**-type profile is a command which is sent to the mainchat of the hub. You can use it when your hub contains a mainchat-command for kicking. The **raw**-type profiles are commands which fits the NMDC protocol. The default profile named RawKick is equivalent with the right-click Kick-command included in DC++. You should use it if your hub doesn't contain any chat-command for kicking or banning. Of course, if you know NMDC protocol, you can add more raw-profiles by yourself.

The **-chprofiles** command handles the profiles: **-chprofiles <list/add/rm/setdefault>**. Discussed below.

### 5.5.1 Listing existing profiles

For listing the existing profiles, use the **-chprofiles list** command. You get a table like this:

```
[08:23:02] <[OP]FleetCommand> -chprofiles list
[08:23:03] <Oxygene> -----
[08:23:03] <Oxygene> Profile name [type] (Command)
[08:23:03] <Oxygene> -----
[08:23:03] <Oxygene> (1) RawKick [r] ($To: %[userNI] From: %[myNI] $< %[myNI]> You are being kicked because: %[reason]|< %[myNI]>
[08:23:03] <Oxygene> %[myNI] is kicking %[userNI] because: %[reason]|$Kick %[userNI])
[08:23:03] <Oxygene> (2) verlihub [c] (!drop %[userNI])
[08:23:03] <Oxygene> (3) dchpp [c] (+disconnect %[userNI])
[08:23:03] <Oxygene> (4) verli_kick [c] (+kick %[userNI] %[reason])
[08:23:03] <Oxygene> (5) verli_10m [c] (+kick %[userNI] %[reason] _BAN_10m)
[08:23:03] <Oxygene> -----
[08:23:03] <Oxygene> Default profile: verli_kick
[08:23:03] <Oxygene> Total: 5 items
[08:23:03] <Oxygene> -----
[08:23:03] <Oxygene> OK
```

The profile type **r** means raw-kick profile, type **c** means chat-kick profile. See 5.5 for details.

### 5.5.2 Adding/removing profiles

To add a new profile, use the **-chprofiles add <profile\_name> <profile\_type> <command>** command where **<profile\_name>** is the desired profile name, **<profile\_type>** is the type. Use **c** for chat-kick profile, or **r** for raw-kick profile. **<command>** is the command used for kicking in that profile. It will be sent to main chat when the type is **c** or sent directly to the hub when it's **r**. You should know the NMDC specification when using **r** profiles.

You can use **%[myNI]**, **%[userNI]** and **%[reason]** parameters in the **<command>**. They will be substituted with your own nick, the user-to-kick's nick and the kick reason for him/her.

Example:

```
[08:30:41] <[OP]FleetCommand> -chprofiles add verli_4hour c +kick %[userNI] %[reason] _BAN_4h
[08:30:42] <Oxygene> OK
```

To remove a profile, use the **rm** parameter for the **-chprofiles** command the following way: **-chprofiles rm <profile\_name>** where **<profile\_name>** is the profile name which you want to remove.

Example:

```
[08:31:28] <[OP]FleetCommand> -chprofiles rm verli_4hour
[08:31:29] <Oxygene> OK
```

### 5.5.3 Selecting default profile

If you select a profile for default profile, that will be used everywhere where indicated (for example if you set the **chbandwidth** config value to **disconnect**). To do this, use the **-chprofiles setdefault <profile\_name>** command.

Example:

```
[08:39:52] <[OP]FleetCommand> -chprofiles setdefault verli_4hour
[08:39:52] <Oxygene> Profile 'verli_4hour' selected
```

## 5.6 Triggers

With triggers, the bot can automatically react for any given event. Triggers can be activated by main chat messages/commands, by any incoming userdata (for example, e-mail-address, description, nick, etc.) or by timer.

It offers advanced possibility to be used for checking non-wanted clients on the hub, or reacting to any user action – for example – by kicking, private messaging (a custom message or a content of a

file), noticing OpChat, or simply answering in main chat.  
Trigger commands which are recognized by the script:

**-chtrigs <list/addtrig/rmtrig/addc/rmc/adda/rma/enable/settype> [params]**

**-chtrigs list [all/tirgger\_name]**  
**-chtrigs addtrig <trigger\_name> [type] [interval]**  
**-chtrigs rmtrig <trigger\_name>**  
**-chtrigs addc <trigger\_name> <variable> <condition> <value>**  
**-chtrigs addcondition <trigger\_name> <variable> <condition> <value>**  
**-chtrigs rmc <trigger\_name> <C\_num/all>**  
**-chtrigs rmcondition <trigger\_name> <C\_num/all>**  
**-chtrigs adda <trigger\_name> <action> <parameters>**  
**-chtrigs addaction <trigger\_name> <action> <parameters>**  
**-chtrigs rma <trigger\_name> <A\_num/all>**  
**-chtrigs rmaction <trigger\_name> <A\_num/all>**  
**-chtrigs enable <trigger\_name> <+/->**  
**-chtrigs settype <trigger\_name> <and/or>**  
**-chtrigs setinterval <trigger\_name> <interval>**  
**-chtrigs reset <trigger\_name>**

All of them are discussed in detail below.

## 5.6.1 Listing triggers

You can list the currently added triggers by using the **-chtrigs list [all/trigger\_name]** command. If you don't specify the trigger's name, you'll get a table containing all of their names. It looks like this:

```
[08:58:11] <[OP]FleetCommand> -chtrigs list
[08:58:12] <Oxygene> -----
[08:58:12] <Oxygene>      [Enabled] (Cnt) Name
[08:58:12] <Oxygene>      [Conditions/Actions]
[08:58:12] <Oxygene>      -----
[08:58:12] <Oxygene>      [+] (1) UserCount
[08:58:12] <Oxygene>      [-] (2) Faq
[08:58:12] <Oxygene>      -----
[08:58:12] <Oxygene>      Total: 2 (of 2) triggers listed
[08:58:12] <Oxygene>      -----
[08:58:12] <Oxygene>      Note: Use -chtrigs list all command to list all triggers detailed, or -chtrigs list <trigger_name> to see a specified trigger
[08:58:12] <Oxygene>      -----
[08:58:12] <Oxygene> OK
```

You can see two triggers in the above example. If you want to see what the triggers do, you should list them individually (**-chtrigs list UserCount** for example) or you can list all triggers detailed by one command (using **-chtrigs list all**). To see the UserCount trigger, you should try the following command:

```
[09:09:00] <[OP]FleetCommand> -chtrigs list UserCount
[09:09:01] <Oxygene> -----
[09:09:01] <Oxygene>      [Enabled] (Cnt) Name
[09:09:01] <Oxygene>      [Conditions/Actions]
[09:09:01] <Oxygene>      -----
[09:09:01] <Oxygene>      [+] (1) UserCount
[09:09:01] <Oxygene>      [C1] user is op
[09:09:01] <Oxygene>      [C2] %[chat] is -usercount
[09:09:01] <Oxygene>      [A1] mainchat: oxygene.lua %[chversion]: %[usercount] users (%[opcount] operators)
[09:09:01] <Oxygene>      C: 2, A: 1, T: and, Interval: 0, Activated 9 times since 07. 09. 2006. - 10:46:06
[09:09:01] <Oxygene>      -----
[09:09:01] <Oxygene>      Total: 1 (of 2) triggers listed
[09:09:01] <Oxygene>      -----
```

[09:09:01] <Oxygene> OK

The trigger names are highlighted with blue. The **[+]** and **[-]** signs before them indicates whether they are enabled or disabled. A trigger consists of conditions (marked with [C1], [C2], ...) and actions ([A1], [A2], ...). If the trigger's type (T:) is “and-trigger” and all conditions are met (and the trigger is enabled), the script executes the actions for that trigger. If it's an “or-trigger” then the actions are executed if any of the conditions met. If you have the UserCount trigger, as in the example above, you can execute it if you are an operator (Condition2: user is op) and enter the **-usercount** command to main chat (Condition1: %[chat] is -usercount):

```
[19:58:36] <[OP]FleetCommand> -usercount
[19:58:36] <Oxygene> oxygene.lua 1.5a: 4108 users (9 operators)
```

It works this simply :) As you can see, variables like %[usercount] can be used. Discussed later. You can also see the **Interval** property in the trigger's detailed view. That tells you how much time (in seconds) must be spent between two execution of the trigger. It's useful if the trigger is intended to do main chat actions and you want to limit the number of answers. For example, if you make a trigger which posts some URL to the main chat, you may want to set it to 60 or 120 seconds, so the users can't play with the bot. This also can protect the hub against flooding.

## 5.6.2 Enabling/Disabling triggers

### *Enabling/Disabling all triggers at once*

You can enable/disable all triggers generally by setting the triggers config value using the **-chset** command (see 5.3). If you want to enable the triggers, just say **-chset triggers 1**, if you want to disable them, use the **-chset triggers 0** command to private chat. You can check the current state by using the **-chgetconfig** command. See 5.3 for more details. Note that this won't enable the triggers which are disabled individually, just enables the trigger processing itself.

### *Enabling/Disabling triggers one by one*

You can enable/disable triggers one by one if you want. Use the **-chtrigs enable <trigger\_name> <+/->** command for that. If you want to enable the trigger “Faq” mentioned in the 5.6.1 example, then you can do it with the **-chtrigs enable Faq +** command.

## 5.6.3 Adding a new trigger, condition and action

Adding and setting up a trigger consist of three steps. First, you have to add the trigger itself. Then you have to add the conditions and actions. When you're ready, just simply enable the trigger using the **-chtrigs enable** command, because all trigger is disabled by default to avoid non-wanted reactions while it's not set up correctly. We'll set up the UserCount trigger through the following example.

### *Adding a trigger*

To add a trigger, you should use the **-chtrigs addtrig <trigger\_name> [type] [interval]** command, where the name of the trigger can't contains spaces. The **[type]** parameter is optional. It specifies whether the trigger should be an “or-trigger” or an “and-trigger”. Possible values: **and**, **or**. If not given, **and** is applied. The **[interval]** is also optional, it sets the minimum time in seconds between two execution of the trigger (recommended to use it if the trigger posts messages to main chat). Example:



[08:52:00] <[OP]FleetCommand> -chtrigs addtrig UserCount and  
[08:52:00] <Oxygene> "UserCount" added. Use -chtrigs addc or -chtrigs addcondition to add a condition then -chtrigs adda or -chtrigs addaction to add an action to it.  
[08:52:00] <Oxygene> OK

## Adding a condition

Now we have an empty trigger, which can do nothing. To make it do something, we have to add some condition using the **-chtrigs addcondition<sup>2</sup> <trigger\_name> <variable> <condition> <value>** command, where **<trigger\_name>** is the name of the trigger which you want to add the condition to. The remaining three parameters mean the condition. The possible values are:

<i>Possible &lt;variables&gt;</i>	<i>Possible &lt;conditions&gt;</i>	<i>Possible &lt;values&gt;</i>	<i>Trigger won't be activated by<sup>3</sup></i>
<i>Regular variables and values</i>			
%[userNI],      %[userNIshort], %[userDE],      %[userTAG], %[userEM],      %[client_type], %[tagM],          %[tagVE],, %[connection], %[userSSshort]	is, isnot, contains, ncontains, similar_to, nsimilar_to, begins_with, nbegins_with, ends_with, nends_with	<any string value>	Timer, if any present; INF if all is missing (along with %[tagV]...);
%[chat]			INF, Timer if present; MSG if missing
%[date], %[time], %[fulldate]			Timer if missing (along with %[hour], %[min], %[sec])
%[myNI],          %[chversion], %[usercount], %[opcount]			No limit
%[tagV], %[tagHN], %[tagHR], %[tagHO], %[tagSL], %[tagO], %[tagB], %[userSS], %[upBW], %[downBW],          %[points], %[pointsint]	==, ~=, <, <=, >, >=, between, outof <sup>4</sup>	<any num value>, <min>-<max> for a “between” and “outof” condition	Timer if any present; INF if all is missing (along with %[userNI], etc..)
%[hour], %[min], %[sec]			Timer if missing (along with %[date],                    %[time], %[fulldate])
<i>Special variables and values</i>			
user	is, isnot	op	Timer if present

The **<variable>** must be chosen from the first column, then a condition follows from the second one, and finally you should provide a value. For example: **%[chat] is hello world!**

¶ You can find the meaning of all regular variables in **Appendix A**.

Regular conditions for numeric variables:

- **==**: (that is, a double equal mark) means equal; example: **%[tagV] == 0.674**
- **~=**: not equal; example: **%[hour] ~= 11**
- **<, <=, >, >=**: quite obvious; example: **%[userSS] > 1000000000**
- **between**: matches if the content of the variable is between the two given values (boundaries

<sup>2</sup> A shorter version of this command is: -chtrigs addc

<sup>3</sup> INF = incoming userinfo, MSG = main chat message, Timer = timer

<sup>4</sup> The old version of the script used “smaller\_than”, “larger\_than”, etc. conditions. The old triggers still work with this version, the only restriction that you have to use the new syntax when you add a new trigger/condition.

- also matches); example: **%[min] between 10-15**
- **outof**: the opposite of the between condition. The boundaries don't match; example: **%[hour] outof 20-04**

Regular conditions for string variables:

- **is, isnot**: plain text match; true, if the **<variable>** is the same, as your condition (or differs, for **isnot**)
- **contains**: partial plain text match; true if the **<variable>** contains your condition (**ncontains** would be true if it doesn't contain it)
- **begins\_with, ends\_with**: plain text match; true if the **<variable>** begins/ends with your condition (**nbegins\_with, nends\_with** would be true if the beginning/end of text don't match your condition)
- **similar\_to, nsimilar\_to**: regex match; true if your condition (a search pattern) matches (or doesn't match for **nsimilar\_to**) to the content of the variable

|| The string comparison is case-sensitive if you set the **trigcase** config variable to other than 0. See 5.3.

|| The value also can include any regular variable. For example: **%[upBW] > %[downBW]**; See **Appendix A** for the meaning of the variables.

Special conditions and values:

- **user is op** is true when the user has operator rights on the hub.

Example:

For our previous UserCount trigger, we should set two conditions. We'll set it to answer only for operators, and we will set the command. For this, we should use the following two commands:

```
[09:05:17] <[OP]FleetCommand> -chtrigs addcondition UserCount user is op
[09:05:18] <Oxygene> OK
[09:05:29] <[OP]FleetCommand> -chtrigs addcondition UserCount %[chat] is -usercount
[09:05:29] <Oxygene> OK
```

## Adding an action

Now we have conditions, but what our trigger's gonna doing? At this moment, it can do nothing usable. So we should set at least one action what should be executed when all the conditions are met. For this, we use the **-chtrigs addaction<sup>5</sup> <trigger\_name> <action> <parameter>** command. **<trigger\_name>** is simply means the name of the trigger we would like to add the action to. The parameter **<action>** and **<parameter>** tell the trigger what to do exactly.

The possible actions are:

<b>&lt;action&gt;</b>	<b>&lt;parameter&gt;</b>
kick	<kick reason>
redirect	<new hub> <reason>
command	<command to execute>
mainchat	<mainchat message>
mainchatfile	<filename, relative to the application path>
pm	<private message>

<sup>5</sup> A shorter version of this command is: **-chtrigs adda**

<i>&lt;action&gt;</i>	<i>&lt;parameter&gt;</i>
pmfile	<filename, relative to the application path>
rxmainchat/rxpm/rxopchat	"<Txt>"; "<SearchPattern>"; "<ReplaceString>"
opchat	<the message to OpChat>

Explanation of actions:

- **kick** kicks the user, using the current kick-profile.
- **redirect** will redirect the user to the given hub with the provided message.
- **command** will execute any command which the script can parse (for example: “-chcheckhub 200”). The status messages will be posted to OpChat (if set in config)
- The **mainchat** and **pm** actions send a message to main chat or to the user in pm.
- **pmfile** sends the content of a file in pm (like the help file).
- **mainchatfile** sends the content of a file to the hub mainchat
- **opchat** action sends a message to the OpChat. OpChat's nick can be set with the OpChat config variable by using the `-chset` command (see 5.3.).
- **rxmainchat** sends message to mainchat (like **mainchat** action) with the difference it can use regexes to modify the original message (mostly the original chat message). It needs three parameters, all of them in quotes, followed by a “;”. The first parameter is the text to modify. The second is the Search pattern, then, the third is the Replace String. It replaces the matches according to the provided rules. For example you can add an action like this: “%[chat]”; “.\*give me an? (.\*)”; “Hi %%[userNlshort], do you really need a %1?”. Notice that you have to use double percent-marks in ReplaceString, because % has a special meaning there.
- **rxpm** sends a pm using regexes. See **rxmainchat** for more details.
- **rxopchat** sends a message to the OpChat using regexes. See **rxmainchat** for more details.

|| The parameters and even the files can include regular variables. For example: **mainchat Hi %[userNlshort], you have %[userSS] Bytes in your share! See Appendix A for the meaning of the variables.**

So now, we add the action to our UserCount trigger:

```
[17:53:23] <[OP]FleetCommand> -chtrigs addaction UserCount mainchat oxygene.lua %[chversion]: %[usercount] users (%[opcount] operators)
[17:53:24] <Oxygene> OK
```

We are ready. But remember, all triggers are disabled by default. So the only thing we need to do is to enable the trigger using the following command:

```
[17:54:29] <[OP]FleetCommand> -chtrigs enable UserCount +
[17:54:30] <Oxygene> OK
```

## 5.6.4 Modifying trigger type

Although you could decide whether to create an or-trigger or an and-trigger when running the **-chtrigs add** command, but sometimes you can change your mind later. This is what **-chtrigs settype** command's for. It changes the type of the trigger. You have to provide the name of the trigger as first parameter, and the desired type as second one. For example, if you have a trigger “Antiadv” and you want to change its type to an “or-trigger”, you could simply use the **-chtrigs settype Antiadv or** command.

### 5.6.5 Modifying the minimal execution frequency

The Interval property of the trigger (see 5.6.1) tells the program the minimal time interval between two execution of the trigger in seconds. If it's set to 0, then there's no limit in the execution frequency. You can modify it using the **-chtrigs setinterval <trigger\_name> <interval>** command. The first parameter is the name of the trigger, the second parameter provides the interval.

For example, if you have a **Hublist** trigger, you can set the minimal execution frequency to 2 minutes using the **-chtrigs setinterval Hublist 120** command.

|| Note that program ignores the Interval property if the trigger is activated by an operator. This means that an operator can execute the script as often as (s)he likes.

### 5.6.6 Reset trigger execution counter

### 5.6.7 Removing a trigger

You can simply remove a trigger by using the **-chtrigs rmtrig <trigger\_name>** command.

Example:

```
[18:45:33] <[OP]FleetCommand> -chtrigs rmtrig TestTrigger
[18:45:34] <Oxygene> OK
```

### 5.6.8 Removing conditions/actions

You can remove any condition and action with the **-chtrigs rmcondition<sup>6</sup> <trigger\_name> <C\_num/all>** and **-chtrigs rmaction<sup>7</sup> <trigger\_name> <A\_num/all>** commands.

Both of them work similar. The first parameter for the -chtrigs command is rmcondition or rmaction depending on the desired action. The second parameter is the name of the trigger which the C/A is expected to be removed from. The last parameter is the counter of the removable condition:

```
[13:50:38] <Oxygene>      [+ (1) UserCount
[13:50:38] <Oxygene>      [C1] %[chat] is -usercount
[13:50:38] <Oxygene>      [C2] user is op
[13:50:38] <Oxygene>      [A1] mainchat: oxygene.lua %[chversion]: %[usercount] users (%[opcount] operators)
[13:50:38] <Oxygene>      C: 2, A: 1, T: and, Interval: 0
```

In the UserCount trigger there's two conditions (C1 and C2), and 1 action (A1). To remove Condition2, use the **-chtrigs rmcondition UserCount 2** command. If you want to remove all condition/action, provide **all** as condition/action counter.

Examples:

```
[10:19:21] <[OP]FleetCommand> -chtrigs rmaction UserCount 1
[10:19:22] <Oxygene> 1 action(s) removed successfully.
[10:19:22] <Oxygene> OK
[10:19:30] <[OP]FleetCommand> -chtrigs rmcondition UserCount all
[10:19:30] <Oxygene> 2 condition(s) removed successfully.
[10:19:30] <Oxygene> OK
```

## 5.7 Set up user exceptions (protected users)

Maybe you want to protect a user or a group of users against kicking (because of slotrules) for example, or maybe you want to provide the right to some users to ignore the Trigger Intervals, so they can activate your triggers as often as they'd like to. This is what the exception feature is for: to modify the default user rights.

You can add the following rights:

---

<sup>6</sup> A shorter version of this command is: **-chtrigs rmc**

<sup>7</sup> A shorter version of this command is: **-chtrigs rma**

- **Kick protection:** The bot won't kick the users if they are protected (no matter if it's because of the slot rules or the triggers)
- **Ignoring slot rules:** The bot won't kick or pm those users who have this right because of any slot rules (including the bandwidth indication in the Description field, the number of slots, hubs, upload limit...).
- **Ignoring all triggers:** If any user have this right, they can't activate any triggers. This can be both good and bad. It depends on what kind of triggers do you have.
- **Ignoring trigger time intervals:** The users who have this right can activate the triggers anytime, and doesn't matter whether the trigger have any limit in the time between two execution or not.

To add/modify/remove or list exceptions, you can use the **-chprotect <list/add/rm>** command

## 5.7.1 Listing exceptions

To list the table of exceptions, use the **-chprotect list** command:

```
[14:43:32] <[OP]FleetCommand> -chprotect list
[14:43:33] <Oxygene> -----
[14:43:33] <Oxygene> Nick patterns
[14:43:33] <Oxygene> [M:Mode][K:Protect against kick][S:Ignore Slotrules][A:Ignore all triggers][T:Ignore TrigInterval]
[14:43:33] <Oxygene> -----
[14:43:33] <Oxygene> OpChat [M:2][K:1][S:1][A:0][T:0]
[14:43:33] <Oxygene> ^%[VIP%] [M:0][K:1][S:1][A:0][T:1]
[14:43:33] <Oxygene> -----
[14:43:33] <Oxygene> Modes: [0: regex][1: partial match][2: exact match]
[14:43:33] <Oxygene> Total: 2 items
[14:43:33] <Oxygene> -----
```

The above table contains two examples. First, you can see the **nick pattern**. Its behavior is defined by the **mode property**. It has the following meaning:

- **mode0:** The nick pattern is a regular expression (yes, if you use this, you need to have some knowledge of it). If that regex matches to the nick, the properties will be applied to the user. I recommend to use it to provide rights for a group of users.
- **mode1:** Partial match (plain text): This matches when the pattern can be found in the user's nick. You can also use this to provide rights for a group, but be careful, you can't use any modification character, and keep in mind that the match can happen **anywhere** in the nick!
- **mode2:** Exact match (plain text): This only matches when the nick and the pattern are exactly the same. You can use it to modify only one user's rights.

The other properties (K, S, A, T) can have two values: 0 means disabled, 1 means enabled.

- **[K: Protect against kick]:** When enabled, the script won't kick the user if violating the slot rules or if some trigger wants to do so.  

|| Note that the kick-protection only protects against the kicking from **inside** the script.  
|| If any other Operator wants to do so, he or she can kick the user from his/her own client's Kick user(s) command.
- **[S: Ignore Slotrules]:** When enabled, the script won't kick and notify the user if violating the slotrules.
- **[A: Ignore all triggers]:** When enabled, no script will be activated by the user
- **[T: Ignore TrigInterval]:** When enabled, the minimal time between two execution of a trigger will be ignored for that user. This means, that anyone who has this right can activate any trigger as often as he or she wants.

||Note that all Operators have this right by default, so you don't have to set it up for them.

## 5.7.2 Adding an exception

To add an exception, use the **-chprotect add <pattern> <mode> <kickprotection> <ignore slot rules> <ignore all triggers> <ignore trigger timing>** command where:

- **<pattern>** is the nick pattern, can't contain spaces
- **<mode>** can be 0 for regex, 1 for partial matches or 2 for exact matches
- the other parameters can be 0 for disabled, or 1 for enabled

See 5.7.1 for more details.

Example:

```
[14:43:28] <[OP]FleetCommand> -chprotect add ^%[VIP%] 0 1 1 0 1
[14:43:29] <Oxygene> OK
```

## 5.7.3 Removing an exception

To remove an exception, simply use the **-chprotect rm <pattern>** command. To list them, use **-chprotect list** (see 5.7.1).

# 6. Examples

## 6.1 Trigger examples

Here you can find some examples to see how triggers work. If you made a nice one which can show any new to the readers, please feel free to send me. See Section 7.

### 6.1.1 Question/Exclamation mark quote

```
[16:41:00] <Oxygene>      [+] (1) QuestionMark
[16:41:00] <Oxygene>      [C1] %[chat] similar_to [?!][?!][?!][?!][?!][?!]
[16:41:00] <Oxygene>      [C2] user isnot op
[16:41:00] <Oxygene>      [A1] kick: %[userNlshort] I think you ran out of your exclamation/question-mark quote...
[16:41:00] <Oxygene>      C: 2, A: 1, T: and, Interval: 0
```

Description: This trigger kicks every user who writes at least seven Q/E mark into his/her post.

Explanation: `similar_to` do a regex-check in the string (chat). The square-brackets are character-classes. So `[?!]` matches both question mark and exclamation mark. `%[userNlshort]` is the nick of the user without any `[pre](fix)inHisNick`

### 6.1.2 Hublist-trigger

```
[15:48:52] <Oxygene>      [+] (1) Hublist
[15:48:52] <Oxygene>      [C1] %[chat] similar_to ^.hublist
[15:48:52] <Oxygene>      [A1] mainchatfile: scripts/hublist.txt
[15:48:52] <Oxygene>      C: 1, A: 1, T: and, Interval: 120
```

Description: This is a useful trigger for the users asking for hublists. You should create a file named `hublist.txt`, then put it in your scripts directory (this is what the scripts send: “mainchatfile: scripts/hublist.txt”). If someone enters the `?hublist`, `-hublist`, `#hublist`, etc. command into main chat, the trigger sends the content of `hublists.txt` to him/her as a mainchat message.

The interval: 120 property tells the program not to execute the trigger within two minutes. This protects against flooding. If someone would ask so often for a hublist, she/he may should read back the main chat.

Explanation: The “^.hublist” matches for any command which starts with any char followed by the “hublist” text since the dot character can be substituted with any character. The ^ means that it should state at the beginning of the line.

### 6.1.3 Time-based answer

```
[23:38:56] <Oxygene>      [+] (1) test
[23:38:56] <Oxygene>      [C1] user is op
[23:38:56] <Oxygene>      [C2] %[hour] outof 20-06
[23:38:56] <Oxygene>      [C3] %[chat] contains bier
[23:38:56] <Oxygene>      [A1] mainchat: We don't serve bier at daylight...
[23:38:56] <Oxygene>      C: 3, A: 1, T: and, Interval: 0
```

Description: This example shows a time-based trigger. If some operator would ask for a bier in the morning, the trigger answers him/her “We don't serve bier at daylight...”

Hour outof 20-06: matches if the current time if between 7:00-19:59. Note that 6:55 is still **between** 20 and 6. since the condition only examines the current hour, which is “six” and not “six o'clock”.

### 6.1.4 Timer-based execution

```
[08:14:22] <Oxygene>      [+] (1) Autokick
[08:14:22] <Oxygene>      [C1] %[time] similar_to ..0000
[08:14:22] <Oxygene>      [A1] command: -chcheckhub 200 verli_10m
[08:14:22] <Oxygene>      C: 1, A: 1, T: and, Interval: 0
```

Description: This trigger tries to kick 200 users in every hour.

Time similar\_to ..0000: the “time” contains the current time in hhmmss format. The similar\_to makes a regular expression match for it. The point can be substituted with any character so it will match when the minute and second are both 00. Alternatively you could use the “ends\_with 0000” condition.

Optionally, you can add a “hour between 10-20” condition to ensure that the trigger won't kick users at night.

## 6.2 How to translate the messages to your own language?

You can translate two files at the moment to your own language: the help, and another file which contains the messages which the users get.

You can find the original messages in the **oxygene\_help.US.txt** and **oxygene.lang.US.lua** file. You should make a copy of them named **oxygene\_help.LNG.txt** and **oxygene.lang.LNG.txt**, where *LNG* should be your language (language code or any other name which you'd like to use).

I recommend to use Notepad2 or Notepad to make the translation.

Translating help is simple. Just open it, and change the strings. Although the message-file has its own format. It's a Lua-table in fact, but if you don't know what's that, you don't have to care about it :).

The first lines are comments:

```
--// Language: English (Original)
```

You can change them as you like, but be careful, that the “--” must be remain at the beginning of the line since that's what makes it comment.

The latter lines contains the strings which you can translate:

```
Oxygene._LANG = {
    AsWellAs = "as well as",
    BadSlots = "Our rules ask for %1 slots. Please set the slot number to %2 instead of %3 to provide your long staying on the hub"
}
```

1. **Don't** change the names of the strings which stays on the left side of the equal mark. If you do, the language file won't work.
2. The strings must be between quotation marks. If you want to put a quotation mark **inside** the text, use \" to do that (a backslash character followed by a quotation mark)
3. You should put a **comma** to the end of every line except the last one.
4. You can freely change the text **between the quotation marks**. The **numbered parameters** will be substituted with other values. I think, this is obvious. You can even change the order of them if you want. Note that if you want to put a percent mark to your string, you should use %% (double) since it has a special meaning and it's used for parameters.
5. After finishing the translation, you can load it with the **-chset language LNG** command. Then, you should use the **-chreload** command.

Feel free to send me to your translation so I can publish it.

## 7. Contacts

Updated versions of the script: <http://bcdcdccafe.org>

You can mail me at: [fleet@elitemail.hu](mailto:fleet@elitemail.hu)

## Appendix A: Regular variables

- **%[userNI]**: the nick of the user [string]
- **%[userNIshort]**: the user's nick without prefixes [string]
- **%[userDE]**: the user's description [string]
- **%[userEM]**: the user's e-mail address [string]
- **%[connection]**: the specified connection mode ("DSL", "Cable", "0.005") [string]
- **%[chat]**: the latest chat message from the user [string]
- **%[myNI]**: the bot's own nick on the current hub [string]
- **%[chversion]**: the version of Oxygene.lua [string]
- **%[usercount]**: the number of online users on the hub [integer]
- **%[opcount]**: the number of online operators on the hub [integer]
- **%[userSS]**: the user's sharesize in Bytes [integer]
- **%[userSSshort]**: the user's sharesize – formatted ("17,47 GiB") [string]
- **%[userTAG]**: the full tag of the user without angle brackets [string]
- **%[client\_type]**: a string contains the client type from the tag (like "+", "DCGUI") [string]
- **%[tagV]**: the client version (for example: 0.689) [number]
- **%[tagVE]**: the client type and the version ("++ 0.689") [string]
- **%[tagM]**: the stated connection mode from the tag (use to be "A", "P" or "5") [string]
- **%[tagHN], %[tagHR], %[tagHO]**: the number of hubs where the user is normal/registered/operator [integer]
- **%[tagSL]**: Number of upload slots [integer]
- **%[tagO]**: Auto upload speed limit, KiB/sec. The client opens upload slots automatically if its upload speed is below this speed (if set to 0, disabled) [integer]



- **%[tagB]**: Upload limit, KiB/sec; Don't forget that DCGUI indicates per slot limit [number]
- **%[downBW], %[upBW]**: The Down/Upload bandwidth of the user in kbps. 0 if not set [number]
- **%[points]**: The points got for slotrules violation [number]
- **%[pointsint]**: The same as above, but integer [integer]
- **%[date]**: string containing the current date in "yyyymmdd" format ("20060130") [string]
- **%[time]**: string containing the current time in "hhmmss" format ("114232") [string]
- **%[fulldate]**: string containing both the current date and time in one string in "yyyymmddhhmmss" format ("20060130114232") [string]
- **%[hour]**: a number with the hours from the current time (0-23) [integer]
- **%[min]**: a number with the minutes from the current time (0-59) [integer]
- **%[sec]**: a number with the seconds from the current time (0-59) [integer]

## Appendix B: Changelog

097/20070731: Fixed: A bug when sending files to main chat from timer

096/20070731: Fixed: The script no more starts a new line when sending file content to main chat

### Release: 1.5a

095/20070505: Added: "reversebandwidth" config value and reverse bandwidth order checking

094/20070504: Fixed: %-signs may have disappeared from processed texts (kick-messages, etc.)

093/20070415: Fixed: 1,#INF points in hubstat when a user has 0 slots

092/20070415: Added: minshare config value, so rules are only checked for those who has larger sharesize than minshare

091/20070328: Fixed: A missing translation on -chcheckhub

090/20070325: Fixed: Usercount bug

089/20070228: Triggers: It is possible to use mathematical functions on the right side of expression when working with numbers

088/20070226: Modified: Made userdata handling a little bit faster

087/20070220: Fixed: Minimum upload limit the bot asks for will be an integer (it's rounded down)

086/20070217: Fixed: -chrules ulimit command

085/20070107: Added: %[userSSshort] variable, some localization

084/20070102: Fixed: a bug which caused triggers not to work when the interval was set by the -chtrigs add command

083/20061014: Updated hubstat - including the point statistics of the clients

082/20061011: Slotrules violation has a pointing system. %[points], %[pointsint] added.

081/20061011: When checking for bandwidth in description, first it looks for the proper indication. Only accepts it without measurements if not found.

080/20061007: Fixed so that logging won't fail after a time

079/20061007: Fixed so that "command" action parses parameters

078/20060930: Error message is shown when files can't be opened

077/20060925: If one trigger removes the user from the hub with "kick" or "redirect" action, the other triggers won't be activated for that user

076/20060709: Added: trigger activation counter, -chtrigs reset command

### Release: 1.4a

075/20060414: Modified logging

074/20060414: The scripts automatically upgrades old format triggers

073/20060412: Modified: New way of handling trigger variables. See documentation for %[...]-

variables

072/20060411: Modified: -chaddhub [hub], -chrhub [hub] now works with hosts; Added: -chlisthubs; Removed: -chlistip/rmip/addip

071/20060405: Added manual garbage collection on disconnect from a hub to free up some memory

070/20060402: Fixed timer-based trigger auto-activation, configuration

069/20060402: Fixed table sorting

068/20060401: Updated to Lua 5.1

### **Release: 1.3a**

067/20060211: Renamed: checkslot\_settings.txt to oxygene\_settings.txt

066/20060207: Added: Raw kick-profiles

065/20060207: Modified: Renamed the script to Oxygene.lua

064/20060203: Added: timer-based triggers, <, <= ... between, outof conditions; date, time, ... variables; (1.2a)

063/20060201: Added: "command" trigger action, %[myNI] parameter

062/20060129: Modified: -chstat [full]

061/20060129: Added: Handles error when a file can't be opened. Report goes to OpChat

060/20060128: Fixed: Now the script correctly identifies Operators, based on \$OpList. Requires 0.68something or newer.

059/20060128: %[opcount] parameter added

058/20060104: Default slotrules changed (maxhub\_kick reached)

### **Release: 1.1b**

057/20051231: Added user exceptions (protected users) (1.1b)

### **Release: 1.1a**

056/20051229: Trigger intervals added (1.1a)

055/20051229: Added mainchatfile trigger action (1.0c)

054/20051027: Fixed %[purenick] parameter (1.0b)

### **Release: 1.0a**

053/20051025: Implemented language file support (1.0a)

052/20051025: Added 'rulesurl' config value, 'rxopchat', 'rxpm' trigger actions, fixed 'pm' trigger action to parse parameters (0.95c)

051/20051025: Added: rxmainchat trigger action (0.95b)

050/20050914: Modified "-chtrigs list" to provide a better view when many triggers are used (0.95a)

049/20050805: Added: begins\_with, nbegins\_with, ends\_with, nends\_with trigger conditions; redirect trigger action (0.94a)

048/20050729: Fixed: A bug which appears when conn\_mode used in triggers (thx Zozz for reporting) (0.93b)

047/20050722: -chtirgs and -chprofiles command added. Old ones removed (0.93a)

046/20050721: -chnotice command modified (0.92d)

045/20050721: Added option to disable upload limit checking. See -chgetconfig (0.92c)

044/20050721: Updated Upload limit checking because of DCGUI indicates per-slot limit (0.92b)

043/20050717: Now the slot rules are customizable, even the bandwidth limit checking (0.92a)

042/20050717: -chgetconfig and -chset added, old config removed

041/20050717: -chrules added, commands in the previous log event are removed and reorganized.

Another new: -help [command] (0.91c)

040/20050716: -chlimit and -chlistrules added

039/20050716: Some structural modification to prepare variable slot rules (0.91a)  
038/20050701: -chadddhub and -chrmdhub commands added (0.90b)  
037/20050515: Now triggers can handle "and" and "or" conditions (0.90a)  
036/20050515: trig: Actions and conditions are removable (0.89f)  
035/20050509: -chconfig modified  
034/20050508: Added: relative path to files when pming them as a trigger (0.89e)  
033/20050508: Added: condition checking to only activating triggers when desired (0.89d)  
032/20050508: Setting for Opchat name added (for using with triggers) (0.89c)  
031/20050507: Fixed: a userinfo bug which caused some special clients not to appear in userlist (robots w/out myinfo...) (0.89b)  
030/20050507: Basic trigger functions added (0.89a)  
029/20050506: Started to work with triggers, not working yet. invalid client checker removed (0.8j\_a)  
028/20050420: Added -chsay command to send main chat messages (0.8i)  
027/20050401: Upgraded to run with BCDC++ 0.670 and newer (0.8h)  
026/20050218: Fixed myinfo parsing which caused wrong userdata when the script was used on x-hub with hublinking enabled (0.8g)  
025/20050206: Timer added to make the script wait 2 minutes before auto-PMing and auto-disconnecting (0.8f)  
024/20050117: -chinvalidstate, -chrefresh command added (0.8e)  
023/20050116: Structural changes (0.8d)  
022/20050116: Added "You are being disconnected: " to the start of private message (0.8c)  
021/20041222: Fixed kick message (0.8b)  
020/20041214: Checkhub (-chcheckhub) works fine (0.8a)  
019/20041207: Kick profiles work (0.7g)  
018/20041206: Preparing kick profiles (0.7f)  
017/20041205: Updated settings (0.7e)  
016/20041201: Fixed: private message sending (0.7d)  
015/20041201: Client statistics ordered (0.7c)  
014/20041130: A bug is fixed which appeared when there was many "<" or ">" character in description (0.7b)  
013/20041130: Added: client statistics (0.7a)  
012/20041129: -chnotice command added (0.6b)  
011/20041129: Storing all userinfo in a table, you can get them by using -chgetinfo <nick> command (0.6a)  
010/20041127: Updated logging (0.5b)  
009/20041127: Code and structure clear enough to get a new version (0.5a)  
008/20041117: Invalid client handlers work properly, it's possible to add/remove invalid client conditions. See Readme.  
007/20041111: Preparing trigger functions  
006/20041027: Preparing of invalid client handlers  
005/20041027: Added: invalid client list  
004/20041027: Fixed: logging, sorry :)

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