Mass config

v1.9

User manual

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Index

Contents

Releases history

- V1.9
  - SSH support added
  - minor bugs fixed
- v1.8
  - First documented release

General

MassConfig is used for:

- Mass configure large no. of devices
- Configuration backup
- Ping tests
- Fping test (Like ping but better)
- To save ping history
- To save EIGRP history (or any other command output history)
- Manipulate commands output

  Replace interfaces no. with site name at' show commands' output

For example- this is the output of cisco 'show log' with EIGRP log messages:

```
Oct 21 11:29:17.639: %DUAL-5-NBRCHANGE: IP-EIGRP(0) 10: Neighbor 192.168.11.6
(FastEthernet0/1.201) is down: Interface Goodbye received
Oct 21 11:29:18.755: %PIM-5-DRCHG: DR change from neighbor 0.0.0.0 to 192.168.11.5 on
interface FastEthernet0/1.201
Oct 21 11:29:22.071: %DUAL-5-NBRCHANGE: IP-EIGRP(0) 10: Neighbor 192.168.11.6
(FastEthernet0/1.201) is up: new adjacency
Oct 21 11:29:24.175: %IPPHONE-6-REG_ALARM: 10: Name=SEP001E135CB09C Load=
SCCP11.8-2-2SR2S Last=TCP-timeout
```

Can be show like this:

```
Oct 21 11:29:17.639: %DUAL-5-NBRCHANGE: IP-EIGRP(0) 10: Neighbor 192.168.11.6
(FastEthernet0/1.201(Main_Site-London)) is down: Interface Goodbye received
Oct 21 11:29:22.071: %DUAL-5-NBRCHANGE: IP-EIGRP(0) 10: Neighbor 192.168.11.6
(FastEthernet0/1.201(Main_Site-London)) is up: new adjacency
```

EIGRP neighbors can be show like this:

```
0   192.168.11.6        Fa0/1.201(Main_Site-London)      11 01:14:03   30   200  0  12785
5   192.168.11.2        Fa0/1.101(Main_Site-Bankok)      13 01:15:17   32   200  0  12784
4   192.168.13.6        Fa0/1.203(Main_Site-NewYork)      14 04:22:30   28   200  0  36150
3   192.168.12.6        Fa0/1.202(Main_Site-Paris)      11 04:22:44   30   200  0  47493
2   192.168.12.2        Fa0/1.102(Main_Site-TelAviv)      11 04:22:53   29   200  0  47492
1   192.168.13.2        Fa0/1.103(Main_Site-LasVegas)      13 04:22:57   32   200  0  36151
```

Manual

- **Devices** Tab (Main program Tab)
  - Column # - No.
  - Column **HOST** - Equipment Name (CC1 /CC2..)
  - Column **HOST_TYPE** Equipment type (Router / sw-in..)
  - Column **BlOCK** Devices Block (0=H Block, 1= Block 1..)
  - Column **MGMT_IP** Management IP
  - Column **CONNECTION** connection type (Telnet / SSH)
  - Column **TELNET** Click to telnet to Equipment
  - Column **USER** User to connect with telnet (the user Password will be taken from Users Tab)
  - Column **COMMAND** Command to run (show run / show log / conf t..)
    - Button **RUN** run the command at each line in the equipment of that line (leave empty if no necessary to connect to the equipment), All output is saving in the 'Output directory' as configured in 'Setting' Tab, before running all files in the 'Output directory' will be deleted (sub directories will not be deleted) Will connect all Devices simultaneous
    - Button **CLEAR** Clears that Column
  - Column **COMMAND_OUTPUT** the output of the commands (need to click on of the buttons to load the output)
    - Button **Check files** after clicking the 'Run' button wait till all dos windows will close and then click this button to check if all command are entered
      x= file not exist (did not telnet to equipment – no command entered)
      0= emty file (can't telnet – no communication to equipment)
      File name= Link to the file – Click to open
    - Button **LOAD OUTPUT**
      x= file not exist (did not telnet to equipment – no command entered)
      0= emty file (can't telnet – no communication to equipment)
      Empty line= grep (at 'Settings' Tab) did not found any line, or- did not find the Word entered at 'OUTPUT START' (at 'Settings' Tab)
    - Button **CLEAR** Clears that Column
  - Column **COMMAND_EXECUTED** Date and time that the 'Run' button clicked with the command that run
    - Button **CLEAR** Clears the that Column
    - Column **PING** Do I ping to that device ? (1= yes, emty/0= no), results will be shown at PING_RESULT column
    - Button **Ping** ping all devices with '1' at 'PING' Column
    - Button **ALL** Mark all rows with '1' (Ping)
    - Button **CLEAR** Clears that Column
  - Column **PING_RESULT** The ping results
    OK= Device is alive

X= No communication to device

- Button **CLEAR** Clears that Column
- Column **FPING** Do I Fping to that device? (1= yes, emty/0= no), results will be shown at new DOS windows that will be opened (Output will not be saved in excel)
  - Button **Ping** **F**ping all devices with '1' at 'FPING' Column
  - Button **ALL** Mark all rows with '1' (FPing)
  - Button **CLEAR** Clears that Column

- **Config QUEE** tab (Manually save here command that you wants to enter later, for example: some devices are down , so enter the command here and later do copy & paste to 'Device' tab, Start the copy from first device row)
- **Users** Tab (save here all the username / passwords and enable password to use in 'Device' Tab for telnet)
  - Column **Name** the name that you will enter at the 'User' Column at the 'Devices' Tab
  - Column **Username** Username for telnet
  - Column **Password** Password for telnet
  - Column **Ena pass** Enable password for telnet

- **Setting** Tab
  - Var **DEVICES_FIRST_COMMAND** First command to run at telnet / SSH
  - Var **DEVICES_LAST_COMMAND** Last command to run at telnet / SSH
  - Var **DEVICES_FIRST_ROW** The first row with devices at Devices Tab
  - Var **DEVICES_LAST_ROW** The last row with devices at Devices Tab
  - Var **DEVICES_LOAD_OUTPUT_GREP** show only lines with this word (leave empty for all words), for 'eigrp neighbors' use the word - Fa , or EIGRP to see neighbors Up/Down at log
  - Var **DEVICES_LOAD_OUTPUT_REPLACE** replace output when clicking 'Load output' in 'Devices tab - as in REPLACE tab (For example – replace '1501' with 'CCC-CC1')
  - Var **DEVICES_LOAD_OUTPUT_REPLACE_KEEP_ORIG** instead of replacing output as in REPLACE tab add the new data (For example – replace '1501' with '1501(CCC-CC1)')
  - Var **DEVICES_LOAD_OUTPUT_START** load output when clicking 'Load output' in 'Devices tab after this word , if the word will not be found the line will be empty (For example – 'show' to skip the login banner)
  - Var **FPING_CONTINUES** Fping forever (-c)
  - Var **FPING_INTERVAL** Time between fpings in ms (-t)
  - Var **FPING_REPEAT** No of fping to send (-n)
  - Var **FPING_WAIT** how many ms to wait for each fping (-w)
  - Var **FPING_SIZE** Size of Packet (-s)
  - Var **PATH_BIN** The Path of the Massconfig Excel file (%PATH% = Current path)
  - Var **PATH_OUTPUT** The Path to save the telnet output and to load the output in 'Devices' Tab (%PATH% = Current path)
  - Var **PATH_TEMP** The Path to save the Temp files for telnet (with the login user and commands) (%PATH% = Current path)
  - Var **REPLACE_FIRST_ROW** First row of replace data in 'Replace' tab

- Var **REPLACE_LAST_ROW** — Last row of replace data in 'Replace' tab

- **Commands** Tab — (Manually save here commands to enter at 'Device' tab**)**

- **Replace** Tab — (Table with words to replcae while loading the Output at 'Devices' Tab, Replaces Column A to Column B & C, For example – replace '1501' with 'CCC-CC1')

- **PING history** Tab — (Manually save here the Ping results 'Device' tab if you wants to view it later)

- **Other history** Tab — (Manually save here the 'Output' results of the telnet in 'Device' tab if you wants to view it later)

Examples:

- Column **LINKS_STATUS** — Use with – 'Show ip eigrp ne+ log' (Copy from Commands Tab), set DEVICES_LOAD_OUTPUT_GREP to 'EIGRP' and DEVICES_LOAD_OUTPUT_START to – 'show'
- Column **FLAPS_RESULT** — Use with – 'Show ip eigrp ne+ log' (Copy from Commands Tab), set DEVICES_LOAD_OUTPUT_GREP to' Fa' and DEVICES_LOAD_OUTPUT_START to – 'show'