



IBM Software Group

Communication Controller for Linux® on System z® V1.3

DLSw console



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Background

- DLSw console provides a set of predefined DLSw commands.
- Allows you to start and stop various DLSw traces.
- Use a standard telnet client application to log into the DLSw console locally



DLSw console provides a set of predefined DLSw commands that allow you to display and monitor TCP, DLSw and LLC configured values, states, and statistics.

The console allows you to start and stop various DLSw traces.

You can log into the DLSw console locally (by way of localhost, IP address 127.0.0.1) using a standard Telnet client application.

Problem

- Telnet interface is cumbersome to use
- No command retrieve function
- No command completion
- Only one user can be logged in at any one time
- No command filtering support
- No DLSw console session logging



The Telnet interface is cumbersome to use because there is no command retrieve function and no indication that a command was completed.

There are times where it is desirable to have more than one user logged into the DLSw console at the same time.

Previously, the console did not support command filtering or allow DLSw session logging.

Solution

- ccdls provides multiple console session support
- A new console client program replaces the need for a telnet client
- Client program supports command retrieval, command history, command completion, console session logging and console output scrolling
- Wildcard characters '*' and '?' for filtering console command output
- Supports xterm and some vt type terminals such as vt100
- Telnet console client support still available



ccdls now allows multiple console sessions. Any logged in user can make modifications, such as starting and stopping traces. A global console lock is used to prevent command conflicts between multiple console sessions.

A new console client program replaces the need for a telnet client.

The client program supports command retrieval, command history, command completion, console session logging and console output scrolling.

You can use wildcard characters, '*' and '?' to filter the output of some console commands.

The console client supports xterm and some vt type terminals such as vt100.

The telnet console client support was not removed, and can still be used.

Starting the DLSw console client

```
./cclcls_console -p portnumber -l log_filename
```



Use this command to start the cclcls console client from the CCL install directory:

```
./cclcls_console -p portnumber -l log_filename
```

portnumber is the DLSw listening port as defined in the DLSw configuration (default is 2002)

Logging is enabled if the -l option is specified.

log_filename is an optional argument, which specifies the filename of the console log file.

The default *filename* is DLSwConsoleLog.*pid*, where *pid* is the pid of cclcls_console.

The *filename* can include full or relative PATH.

If the cclcls_console program is started from the CCL install directory, then the default path for the log file is the logs/ directory. If the cclcls_program is not run from the CCL install directory, the default path will be the current directory.

CCL V1.3 DLSw console client

```
***** CCL DLSw For Linux - Console V1.3 *****
CCZD607I - DLS_607: *****
CCZD608I - DLS_608: **
CCZD609I - DLS_609: **      CCL DLSw For Linux      **
CCZD600I - DLS_600: **
CCZD610I - DLS_610: **      ccldis v1.3 (Build 09-12-00)  **
CCZD601I - DLS_601: **
CCZD602I - DLS_602: **
CCZD603I - DLS_603: *****
DLSw>show console
ccldis console      remote console
listening port      port
-----
1                   32989          2002
2                   32984          2002
DLSw>

DLSw>show console
DLSw>
```

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The new console client's presentation consists of an input window and an output window. The command entered in the input window is echoed to the output window. The system's response to the entered command follows the command in the output window.

The bottom part of this screen demonstrates the input window where a "show console" command is entered. The top part of the screen shows the output window where the echoed "show console" command is displayed, followed by the output from the command. The output from the "show console" command indicates that there are two active console clients.

Special keys

- Ctrl-L turns console logging on or off
- Ctrl-W switches between the input and output windows
- Tab Command Completion
- Up-Arrow - If cursor is in the output window, scroll up one line. If the cursor is in the input window then retrieve previous command from command history
- Down-Arrow - If cursor is in the output window, scroll down one line. If the cursor is in the input window then retrieve next command from command history
- Left-Arrow moves cursor to the left one position, until the beginning of the line is reached



Special keyboard assignments are used for associated functions.

Special keys

- Right-Arrow moves cursor to the right one position, until EOL (end of line) is reached.
- Page Up scrolls up one page in the output window.
- Page Down scrolls down one page in the output window.
- Backspace backs the cursor up one position, and deletes the character in the new cursor position.
- Home - In output window, moves the cursor to the top of the scroll-back buffer. In the input window, moves the cursor to the beginning of the input line.
- End - In output window, moves the cursor to the end of the scroll buffer. In the input window, moves the cursor to the end of the input line.

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