

BrightScript Debug Console

OS8

- [OS8](#)
- [Version 7.1](#)
- [Version 7.0](#)
- [Version 6.2](#)
- [Version 6.1](#)
- [Previous Versions](#)

If, while a script is running, a runtime error occurs or a `STOP` statement is encountered, the BrightSign application will enter the BrightScript debug console. The debug console can be accessed via the BrightSign application console, which communicates over the primary serial port by default and can be accessed from a terminal program using a null-modem cable. The BrightSign application console can alternatively be routed over [Telnet](#) or [SSH](#).

You can also access the debug console at bootup:

1. Power off the device.
2. Hold the **SVC** button and power on the device.
3. Wait until the `brightsign>` prompt appears in the serial/Telnet/SSH terminal (which indicates that you are in the BrightSign Shell). You can now release the **SVC** button.
4. Enter `script` at the prompt while in the BrightSign Shell. This will take you to the BrightScript debug console.

Note

The above instructions apply to Series 4 (XTx44, XDx34, HDx24, LS424) and Series 3 (XTx43, XDx33, HDx23, LS423) players. To access the debug console on earlier player models, power on the device and wait at least 5 seconds after the power LED (**pwr**) lights up. Then, use a paperclip or pen to press and hold the **SVC** button on the side of the player until the `brightsign>` prompt appears in the terminal.

The console scope is set to the function that was running when a runtime error or `STOP` statement occurred. While in the console, you can type in any BrightScript statement; it will then be compiled and executed in the current context.

BrightScript Console Commands

The following console commands are currently available in the BrightScript debug console:

Command	Description
<code>bt</code>	Print a backtrace of call-function context frames.
<code>classes</code>	List all public classes.
<code>cont</code> or <code>c</code>	Continue script execution.
<code>counts</code>	List count of BrightScript Component instances.
<code>da</code>	Show disassembly and bytecode for this function.
<code>down</code> or <code>d</code>	Move one position down the function context chain.
<code>exit</code>	Exit the debug shell.
<code>gc</code>	Run the garbage collector and show collection statistics.
<code>hash</code>	Print the internal hash-table histograms.
<code>last</code>	Show the last line that executed.
<code>methods <class></code>	List methods provided by specified class.
<code>methods <class>.<interface></code>	List methods provided by the specified interface or class.

list	List the current source of the current function.
ld	Show line data (source records)
next	Show the next line to execute.
bsc	List all allocated BrightScript Component instances.
stats	Show statistics.
step Or s	Step one program statement.
t	Step one statement and show each executed opcode.
up Or u	Move one function up the context chain.
var	Display local variables and their types/values.
print Or p Or ?	Print variable value or expression.*

*BrightScript print messages are routed to the BrightSign application console, which is accessible via the primary serial port or Telnet/SSH, as noted above.

BrightSign Shell Commands

The following commands are currently available in the BrightSign Shell:

Command	Description
?	Display the list of available commands.
help	Provide more information about a command.
clear	Clear the terminal window.
exit	Exit the shell.
dir <directory>	List the contents of a storage directory.
readperf	Measure the performance of file reading.
writeperf	Measure the performance of file writing.
rwperf	Measure simultaneous file read/write performance.
audioplay	Play an audio snippet.
script	Start the BrightScript debug console.
mfg	Perform a manufacturing test.
ps	List tasks.
reboot	Reboot the system.
shutdown	Shut down the system.
date	Display the date and time.
date <YYYY/MM/DD hh:mm:ss>	Set the date and time.
timezone	Display the time zone.
timezone list	Display a list of accepted time zones.
timezone <zone>	Set the time zone.
chdir <path> Or cd <path>	Change the current directory.
delete <filename>	Delete files or or directories recursively.
version	Display software versions.

registry	Access the device registry.
uptime	Display device uptime.
writebootfile	Write a boot file to flash.
erasebootfile	Erase a boot file in flash.
id	Display device identification information.
file <filename>	Determine a file type.
hash	Cryptographically hash a file.
factoryreset	Reset the system to factory defaults.
format <drive> [<filesystem>]	Format a drive using one of the following file systems: "vfat", "ext3", "ext4".
eject <drive>	Eject a drive.
log	Display the system log.
unsetrtc	Clear the real time clock (RTC). Note that this action does not modify the system clock.
probe	Probe a file.
analyze	Analyze a file.
ptpstatus	Display the PTP status.
usblist	Display a list of discovered USB devices.
ifconfig	Configure the network interface. Type <code>help ifconfig</code> for a full list of configuration options.
wifiscan	Scan for WiFi networks.
httpgetperf <url> [<destination_file>]	Measure the download performance from the specified URL. If a destination file is not specified, the contents are discarded.
nslookup	Look up the hostname in the DNS.
videoplay	Play a video snippet.
imageplay	Display an image.
videomode	Change the current video mode .
edid hdmi	Read the EDID from the attached monitor.
powersave	Set the VGA power saving mode.