

Semaphore Software LLC



User's Manual

September 9, 2026



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1 Introduction

AutoLogDL is a command-line interface (CLI) application for downloading signal logs from various railroad signal equipment. The application supports both individual location downloads and batch processing from CSV files.

2 Requirements

- Operating System: Windows 10/11.
- Network: Access to target equipment via IP address. Internet access is needed for online license activation / deactivation and version checking. Air-gapped machines can use offline activation.
- License: Valid AutoLogDL license key.
- Disk Space: Around 100 MB.
- Installation: No installer. Unzip files and run the executable.

3 Platform Support

AutoLogDL can currently download the following log types from these platforms

1. ElectroLogIXS
 - a. Crossing Events
 - b. Data
 - c. Ring Status
 - d. Train Data
 - e. Train Record
2. MicroAide CWR
 - a. Data



4 Initial Setup

4.1 Obtain and Unpack the Software

AutoLogDL is provided as a ZIP file containing a Revision History, End User License Agreement, this User's Manual, and an autologdl folder containing the executable and its required runtime files.

Extract the entire ZIP archive to an empty folder, recommended to be named AutoLogDL. Keep autologdl.exe inside the autologdl folder with the accompanying DLLs, packages, and other runtime files.

Review the End User License Agreement, the entirety of this User's Manual, and the other documentation before proceeding.

Open Command Prompt and change directory to the extracted autologdl folder that contains autologdl.exe.

4.2 Verify Functionality

Open a command prompt window (Windows key "cmd" + Enter) and change directory to the folder that contains the AutoLogDL executable (`cd "[YOUR_FILE_PATH]"`).

Enter the command `autologdl --version` and confirm the current version number is displayed.

```
C:\[YOUR_FILE_PATH]>autologdl --version
autologdl.exe, version 1.0.0
```



5 Program Overview

AutoLogDL is used to download individual logs based on information input directly to the CLI, or by batch downloading many logs based on information provided through an input CSV file. All program functionality is controlled using commands whose definitions or usage are provided below as well as through the **--help** flag that may be placed after any of the commands to provide usage details.

The download functions are only usable with a valid license key which must be provided through the **license** command. If used with an internet connection, the license will remain valid for the specified duration. If used offline, the stored license must be refreshed every 183 days. The license key can be removed from a device by using the **deactivate** command, which will free up the license for use on a different device.

The user can check if there is an updated version of AutoLogDL available by using the **check-new** command.

Singular logs can be downloaded using the **location** command, and batch downloads can be initiated using the **file** command.

The details for usage of all these commands can be found in their own section of this manual, or as previously mentioned by appending the **--help** flag behind any of these commands in the CLI.

6 Information Commands

6.1 help

The **--help** flag will display information and list all available commands for whatever it is appended to. In the case of using **--help** after invoking the CLI directly, information will be provided about the core commands available.

```
C:\[YOUR_FILE_PATH]>autologdl --help
Usage: autologdl.exe [OPTIONS] COMMAND [ARGS]...

Options:
  --version  Show the version and exit.
  --help     Show this message and exit.

Commands:
  check-new
  deactivate
  file
  license
  location
  machine-code
```



6.2 version

The **--version** flag will display the version of AutoLogDL being run. It cannot be called with any other commands.

7 Core Commands

7.1 check-new

Check if a newer version of AutoLogDL is available.

```
C:\[YOUR_FILE_PATH]>autologdl check-new
New version check initiated.
Application is currently up-to-date.
```

7.2 deactivate

Deactivate the license on the current machine to allow use on another machine.

Options:

- **--force**: Skip confirmation prompt and force deactivation
- **--local**: Remove the license file from this machine without contacting the license server (air-gapped machines, or when the server rejects the deactivation).

```
C:\[YOUR_FILE_PATH]>autologdl deactivate

=====
LICENSE DEACTIVATION WARNING
=====
This will permanently remove the license from this machine.
After deactivation:
  • All license files will be deleted
  • You will need to re-enter your license key to use this application
  • The license can be activated on a different machine
=====

Do you want to proceed with deactivation? [y/N]: y
Initiating license deactivation...
The deactivation was successful.
```



7.3 file

Download multiple logs based on parameters provided in a CSV file (see [CSV File Format](#)).

```
C:\[YOUR_FILE_PATH]>autologdl file locations.csv
License ACTIVE. Expiration: Valid forever!
Initiating file-based download(s).
Saving logs to C:\[YOUR_FILE_PATH]
```

Options:

- **-o DIRECTORY, --output-dir DIRECTORY:** Save all logs from this run in the specified directory. Created automatically if missing. Defaults to the current working directory.

```
C:\[YOUR_FILE_PATH]>autologdl file locations.csv -o "C:\Signal Logs"
License ACTIVE. Expiration: Valid forever!
Initiating file-based download(s).
Saving logs to C:\Signal Logs
```

-

7.4 machine-code

NOTE: This feature is used for offline (air gapped) license activation, see license section below for more details.

Display the machine code and friendly name to send to your license administrator for offline activation. A valid license is not required to run this command.

```
C:\[YOUR_FILE_PATH]>autologdl machine-code

Provide the following values to your license administrator for offline
activation:

Machine code:  0123456789abcdef0123456789abcdef0123456789abcdef

Friendly name: SIGNAL-PC - Operator
```

The identity values above are examples; use the values printed on the target machine.

7.5 license

Activate a license key online or import an offline activation file. Provide exactly one of LICENSE_KEY or --file PATH. Use machine-code to obtain the machine identity needed for offline activation.

```
C:\[YOUR_FILE_PATH]>autologdl license ABCDE-01234-FGHIJ-56789
Adding license with key: *****-*****-*****-56789
License ACTIVE. Expiration: Valid forever!
```



Options:

- **--file PATH**: Import an activation file downloaded from the web activation form

```
C:\[YOUR_FILE_PATH]>autologdl license --file activation.skm
Importing activation file: activation.skm
License ACTIVE. Expiration: Valid forever!
```

The example uses a time-unlimited license; the activation file still needs refreshing every 183 days. If the status reports "not activated for this machine" after a hardware change, re-run license for the new machine identity. This needs a free seat on the key; contact the administrator to remove the stale machine if the activation limit is reached.

7.5.1 Offline (Air-Gapped) License Activation

Use this procedure when the machine running AutoLogDL cannot access the internet. The license administrator uses an internet-connected computer to prepare the activation file.

1. Run autologdl machine-code on the target machine. Send both the machine code and friendly name to your license administrator.
2. Administrator: From the Activation Form (<https://app.cryptolens.io/Form/A/DW0LUMY2/3574>), enter the AutoLogDL license key and the computer machine code. Download the activation file.
3. Transfer the downloaded file unchanged to the air gapped computer. Run autologdl license --file <file>, replacing <file> with the downloaded file path. Quote paths containing spaces.
4. Import the activation file within 183 days of issue. Obtain and import a new file every 183 days, including for a time-unlimited license. Refresh before the current file becomes stale to avoid interruption.
5. To remove the local license or move to another machine, run autologdl deactivate --local, then ask the administrator to remove the old machine in the dashboard. Local removal does not free the server seat.



7.6 location

Download a log from an individual location by providing parameters directly.

Arguments:

- **LOG TYPE:** Type of log to download (see [Platform Support](#) and use the **--help** flag)
- **IP ADDRESS:** IPv4 address of the equipment (with optional port: 192.168.1.1:**8080**)
- **LOCATION NAME:** Name identifier for the location (will be included in file name)

Options:

- **--username:** Username for equipment login (default is equipment specific)
- **--password:** Password for equipment login (default is equipment specific)
- **-o DIRECTORY, --output-dir DIRECTORY:** Directory where the downloaded log is saved. Created automatically if missing. Defaults to the current working directory.

```
C:\[YOUR_FILE_PATH]>autologdl location ixs_data_log 192.168.1.101
TestLocationName -o "C:\Signal Logs" --username UserName --password secret
License ACTIVE. Expiration: Valid forever!
Initiating location-based download.
Processing log download from 192.168.1.101 - ixs_data_log -
TestLocationName
Saving logs to C:\Signal Logs
```

8 CSV File Format

8.1.1 Required Columns

The CSV file must contain these columns (case-sensitive):

- **log_type:** Type of log to download (see [Supported Log Types](#))
- **ip:** IPv4 address of the equipment (with optional port)
- **loc_name:** Location name identifier

8.1.2 Optional Columns

- **username:** Username for equipment login
- **password:** Password for equipment login



8.1.3 CSV File Example

CSV

```
log_type,ip,loc_name,username,password  
ixs_data_log,192.168.1.100,MainStreet,,  
cwr_data_log,192.168.1.123:8080,RailSegment1,,  
ixs_train_record_log,192.168.1.101,SecondStreet,admin,secret  
ixs_data_log,192.168.1.102,ThirdStreet,admin,
```

8.1.4 CSV File Guidelines

- File must be saved with UTF-8 encoding
- Headers are case-sensitive and must match exactly
- Empty values are allowed for optional fields
- Duplicate IP addresses with different log types are allowed. AutoLogDL will download each unique log type and use the location name, username, and password from the first row for that IP address. Conflicting values in later rows will be discarded with a warning.
- Duplicate rows containing the same IP address and log type are ignored. The first occurrence will be used.
- Extra columns will be ignored
- Rows with invalid data will be logged as errors but will not stop processing of other rows



9 Output

Downloaded equipment logs are saved in the current working directory unless you specify otherwise.

Relative paths are interpreted from the current working directory. Enclose paths containing spaces in double quotation marks. For batch downloads, the selected directory applies to every log in the run; no additional CSV column is required.

This option affects downloaded equipment logs only. The diagnostic file `debug.log` and license file `cert.skm` remain in the current working directory.

The output of AutoLogDL is the log file(s) that is taken from the signal equipment and downloaded onto the device. Downloaded logs are saved with the format:

```
ElectroLogIXS: [IP] - [LOG_TYPE] - [LOCATION_NAME] - [DATE_TIME].log
```

```
MicroAide CWR: [IP] - [LOCATION_NAME] - [DATE_TIME].log
```

10 Log Files

10.1.1 Debug Log File

AutoLogDL creates a **debug.log** in the working directory. This file contains execution details and error information for troubleshooting. Using `--output-dir` does not change its location. Semaphore Software may request this file when providing troubleshooting assistance.