

Semaphore Software LLC



User's Manual

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Table of Contents

1	Introduction	3
2	Requirements.....	3
3	Platform Support	3
4	Initial Setup	3
4.1	Obtain and Unpack the Software.....	3
4.2	Verify Functionality	3
5	Program Overview	5
6	Information Commands.....	5
6.1	help	5
6.2	version.....	5
7	Core Commands.....	6
7.1	check-new	6
7.2	deactivate.....	6
7.3	file	6
7.4	license	7
7.5	location	7
8	CSV File Format.....	8
8.1.1	Required Columns.....	8
8.1.2	Optional Columns.....	8
8.1.3	CSV File Example	8
8.1.4	CSV File Guidelines.....	8
9	Output.....	9
10	Log Files.....	9
10.1.1	Debug Log File	9



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.
- 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. Once input the key will be retained indefinitely. 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
```

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

```
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).
```



7.4 license

Add and validate a license key.

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

7.5 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)

```
C:\[YOUR_FILE_PATH]>autologdl location ixs_data_log 192.168.1.101
TestLocationName --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
```



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

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 in the current working directory with the format:

[IP] - [LOG_TYPE] - [LOCATION_NAME] - [DATE_TIME].log

10 Log Files

10.1.1 Debug Log File

AutoLogDL creates a debug log file **autologdl_debug.log** in the working directory. This file contains detailed execution information for each time the CLI is run and includes error traces for troubleshooting. The developer may request this file be provided in instances where additional troubleshooting assistance is needed.