



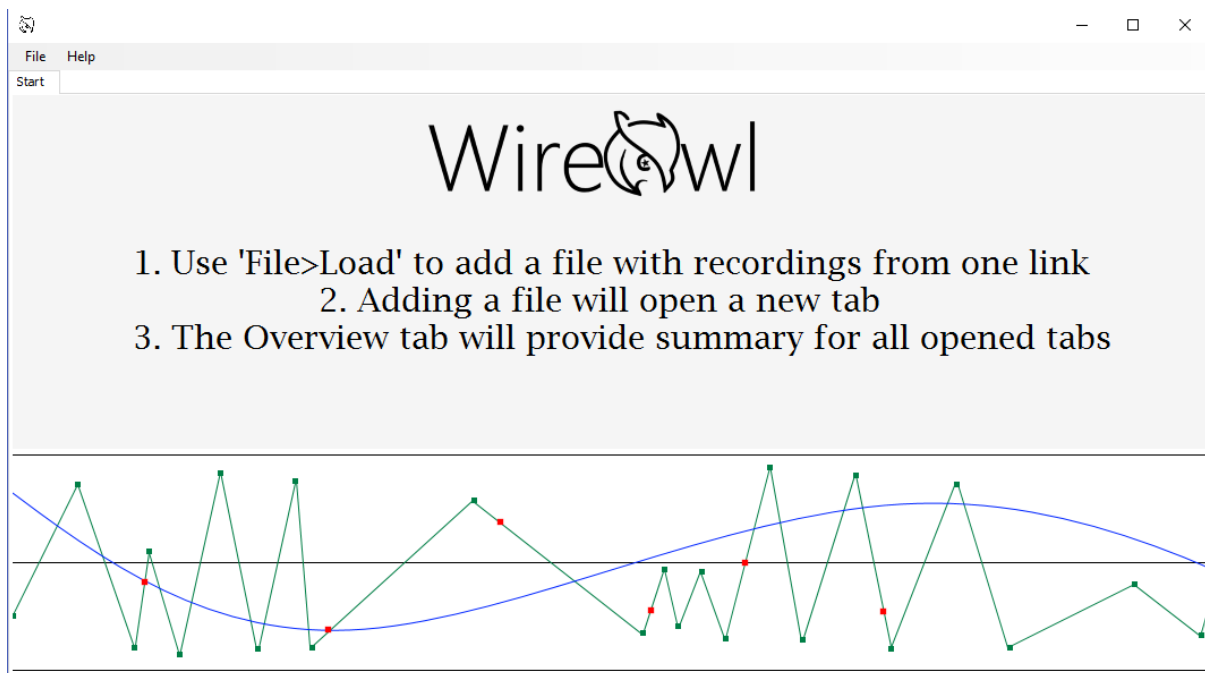
User manual

## Overview

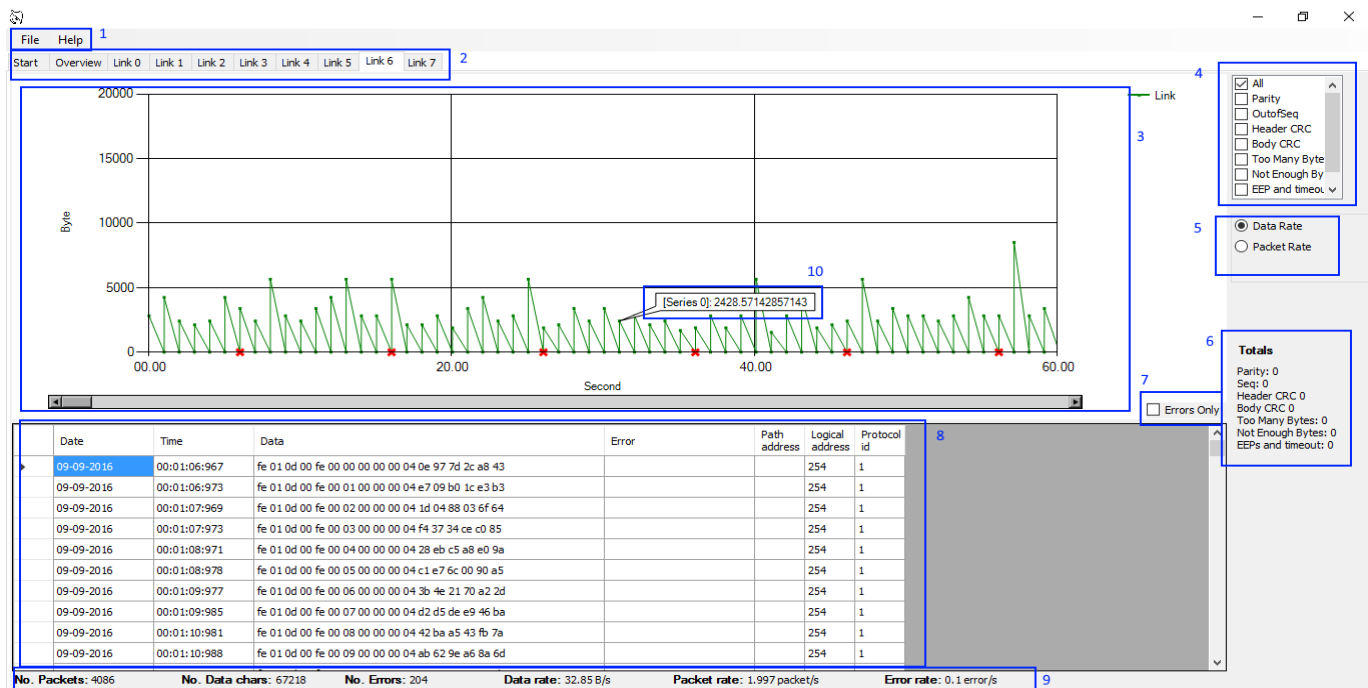
WireOwl is a traffic monitoring software designed to be used with STAR-Dundee SpaceWire Recorder. The software monitors data passing through the Recorder, identifying and displaying errors in the traffic.

## User Interface

### Start screen



The welcoming start screen offers brief instructions on how to get started using SpaceOwl software.



## 1. Menu strip

- File -> Load, Load Folder, Close All Tabs, Exit.

Load option prompts the user to select a file to be loaded in, that will parse the data and load it into the list view (8) and generate a traffic graph (data x time) (3).

A folder containing multiple files can be loaded in using the Load Folder option. A tab will be created for each file.

Close All Tabs option closes all currently open tabs.

Exit option quits the application.

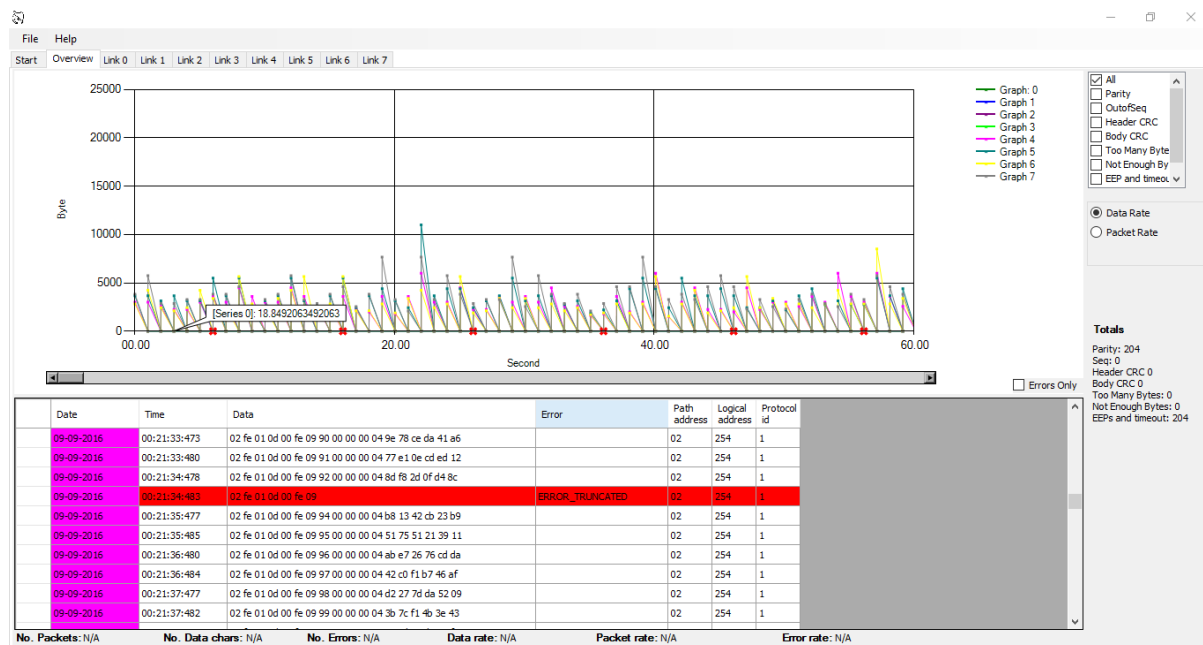
- Help -> User manual.

User manual provides information on using the application.

## 2. Open tabs

Loading in a new file (connecting a device to the recorder) will create a new tab displaying traffic information for that file.

An overview tab will also be created summarising all of the currently open tabs.



## 3. Graph view

The graph view displays the incoming and outgoing traffic in a point-line graph. Points highlighted in red indicate errors in the transmission. The user can zoom in on any area of the graph using the mouse scroll wheel.

The user can double click on any point in the graph view (3) to focus on the corresponding line in the list view (8).

- A list of check boxes allows the user to filter which type of errors if any they want highlighted in the graph view. The errors appear as red crosses.
- Option to display data rate in bytes against time or packets against time.
- Displays total error count for the tab.
- Option to display errors only.

8. Grid list view.

Displays the traffic in a list form: indicating the date, time, packet data, error type, logical and path address as well as protocol id. Packets containing an error are highlighted in red.

9. Stats.

Displays the data char count, packet count, error count, and the corresponding rates of the transmission.

10. Graph view tooltip.

Hovering over a graph point will display a tooltip with the y value of that point.