**Wayside (Software) - Defect Report**

**Alex Smith**

| **Bug: PLC File Failure** | | |
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| **Overview** | Description | PLC failure upon train dispatch |
| Defect Type | Bug |
| Reported By | Alex Smith |
| Date Reported | 4/5/2024 |
| **Details** | Branch | main |
| Severity | High |
| Priority | High |
| Complexity | Low |
| Assigned To | Alex Smith |
| Steps to Reproduce | 1. Dispatch a train to a station within to any station before uploading a PLC file |
| Observed Response | The system crashes and says it cannot read the lines of the PLC. |
| **Conclusion** | Status | Resolved |
| Notes | A warning message is now displayed warning the user that no PLC file was loaded. |
| Resolved By | Alex Smith |
| Date Resolved | 4/8/2024 |

| **Bug: Block Occupancy Failures** | | |
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| **Overview** | Description | When block occupancies are sent to wayside sw before a line is selected, the program crashes. |
| Defect Type | Bug |
| Reported By | Alex Smith |
| Date Reported | 4/10/24 |
| **Details** | Branch | main |
| Severity | High |
| Priority | High |
| Complexity | Medium |
| Assigned To | Alex Smith |
| Steps to Reproduce | 1. Dispatch a train before selecting a wayside. |
| Observed Response | Program crashes as no list of current blocks were initialized. |
| **Conclusion** | Status | Resolved |
| Notes | Blocks default to green upon startup, so being sent blocks from either side before wayside is selected is still possible. |
| Resolved By | Alex Smith |
| Date Resolved | 4/13/2024 |

| **Bug: Occupied Blocks Conflicting with Maintenance Blocks** | | |
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| **Overview** | Description | Maintenance blocks were being treated as if they were not occupied blocks. |
| Defect Type | Bug |
| Reported By | Alex Smith |
| Date Reported | 4/18/24 |
| **Details** | Branch | main |
| Severity | Medium |
| Priority | Medium |
| Complexity | High |
| Assigned To | Alex Smith |
| Steps to Reproduce | 1. Put a block into maintenance mode 2. Dispatch a train to run into it |
| Observed Response | Initially, the train was blowing right through the closed block. |
| **Conclusion** | Status | Resolved |
| Notes | There were conflicting lists of blocks that did not match each other in occupancies that were fixed. |
| Resolved By | Alex Smith |
| Date Resolved | 4/20/2024 |

| **Bug: Selecting a Red Wayside Crashed the Program** | | |
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| **Overview** | Description | When switching between red line waysides, the program crashed.. |
| Defect Type | Bug |
| Reported By | Alex Smith |
| Date Reported | 4/22/24 |
| **Details** | Branch | main |
| Severity | High |
| Priority | Medium |
| Complexity | Low |
| Assigned To | Alex Smith |
| Steps to Reproduce | 1. Dispatch a train on red line 2. Switch between waysides |
| Observed Response | System crashes when waysides are switched when a train is currently running. |
| **Conclusion** | Status | Resolved |
| Notes | The PLC file was incorrectly being overwritten when waysides were switched. |
| Resolved By | Alex Smith |
| Date Resolved | 4/24/2024 |