iTrain 5.1 Supplement Series- Contents

We are going to make a diversion from the existing story line we have been following in this tutorial series, to focus on the recent release of the 5.1 update.

5.1 has a feast new features and enhancements, some of which affect topics we have already completed, and so will need updating, and some of which will play a role in future topics. So, we need to cover them now before we return to the story line.

It is a supplement to the Using iTrain 5.0 Tutorial Series.

The videos are published on YouTube and are free to watch and subscribe.

Below are the links and contents.

Video 01: iTrain 5.1 Supplement - Introduction to the new 5.1 update
https://youtu.be/W-YhfF0700k

In this tutorial we provide a general introduction to the 5.1 update.

Video 02: iTrain 5.1 Supplement - Notes about the installation of 5.1
https://youtu.be/fkDcCWP0BhE

In this tutorial we provide some helpful notes regarding the installation of iTrain 5.1.

Timecodes:
00:00 Start
00:19 Make a copy of the iTrain Resource folder
01:58 Do not change the Resource folder name
04:28 Using Cloud Storage
07:52 The Downloads page
09:12 Close all open Applications and folders before installation
09:50 Use the default Installation Settings
11:26 Java Software
13:36 iTrain Folder locations
17:39 Summary
18:31 End

Video 03: iTrain 5.1 Supplement - The 5.0 to 5.1 File Conversion Process
https://youtu.be/-5VAl4yk8mA

In this tutorial we provide a refresher about:
- saving files
- the backup folder
- the process of converting layout file to a new version

Video 04: iTrain 5.1 Supplement - The new Clearance parameter
https://youtu.be/7pLOU5D42g8

iTrain does a good job of automatically converting the old layout file to 5.1, but there is a new parameter in 5.1 called Clearance that replaces Margin when the Positions mode is used in a block, and it will require our manual intervention to ensure that its values are set correctly.

In this tutorial we explain what Clearance is, why it has replaced Margin, and how to set it up.

Timecodes:
00:00 - Start
00:49 - Introduction
01:36 - Why has Clearance replaced Margin?
02:50 - Margin tutorials are in #14, 34 and 35.
03:00 - Margin overview
04:10 - Clearance overview
09:00 - Usable Block Length
10:45 – Defining Clearance in Block Properties
11:15 – Showing Margin in Block Properties
12:00 – Where to set Clearance
14:45 – Trains that are equal or slightly < Usable Block Length
18:12 – Appropriate values for Clearance
19:35 – How accurately will trains stop?
20:05 – Examples of setting Clearance on the Test layout
25:30 – Delaying the release of the Previous block to improve performance
26:20 – Summary
26:40 – End

Video 05: iTrain 5.1 Supplement - Action Conditions
https://youtu.be/zf-Ga3MoVzc

Timecodes:
00:00 - Start
00:07 - Intro
03:09 - Conditions Table explanation
06:20 - Time example
07:23 - RANDOM is new
08:17 - INTERFACE is new
08:48 - ASPECT has changed
09:18 - BLOCK is removed and replaced by separate individual Actions
09:43 - BLOCK FREE is new and replaces the Block field in Block
10:56 - BLOCK OCCUPIED is new
11:33 - BLOCK STATE is new and replaces the State field in Block

11:53 - BLOCK WAIT is new
12:09 - POSITION IN BLOCK is new
12:41 - TRAIN is new and replaces the Train field in Block
14:20 - TRAIN DIRECTION is new and replaces the Direction field in Block
14:30 - TRAIN STATE is new
14:48 - TRAIN TYPE is new
14:55 - TRAIN ROUTE is new and allows testing for 'Automatic Routing without a Route'
15:20 - The five Train conditions are Compare-only
15:55 - Compare-only example must be used with a trigger condition within AND
17:17 - How to use TRAIN STATE and TRAIN DIRECTION as Triggers
18:40 - Converting 5.0 Conditions to 5.1
21:00 - Summary
22:04 – End

Video 06: iTrain 5.1 Supplement - Action Executions
https://youtu.be/mNqUlCNK_TI

In this video we look at the new features and changes to Action Executions. There are now a total of 38 Executions available to select in iTrain 5.1 (26 in iTrain 5.0).

Timecodes:
00:00 - Start
00:07 - Intro
01:30 - INTERFACE is new
01:48 - BOOSTER is new
02:05 - ASPECT is replaced by ASPECT SET
04:20 - SIGNAL HOLD AT STOP in new
04:52 - DECOUPLER has a new DURATION time setting
05:23 - TRACK ROUTE now has different state names OFF and RESERVED
05:40 - TRAIN ROUTE has changed. TYPE and ACTION have been removed. 'No Route' is now available for direct selection to allow instigation of Automatic Routing without a Route.
08:00 - ROUTE TRAIN in new and replaces the Action field in Train Route
08:22 - TRAIN TYPE is new and replaces the Type field in Train Route
08:40 - TRAIN ROUTE/ROUTE TRAIN assignment sequence
10:04 - TRAIN ROUTE summary and benefits
10:40 - TRAIN INFO is new
11:55 - TRAIN SHUNT has been renamed to SHUNT TRAIN
12:40 - ROUTE TO BLOCK has changed. WAIT POSITION and DIRECTION CHANGE fields have been added.
13:40 - WAIT POSITION meanings and examples
15:30 - SHUNT TO BLOCK has changed. WAIT POSITION and ENTER OCCUPIED BLOCK fields have been added.
16:06 - ROUTE TO STATION is new
16:55 - ACTION ACTIVE is new
17:15 - ACTION EXECUTE is new
18:59 - ACTION STOP is new
19:14 - SYSTEMS has new commands to turn systems SOUNDS on or off

19:40 - How to turn Loco sounds on/off in Actions
22:20 - RANDOM DELAY is new
23:37 - Sum up
24:14 – End

Video 07: iTrain 5.1 Supplement – General Features
https://youtu.be/o2dWsm7B3Tc

In this tutorial we look at updates in the General category of new features, including:

- A new default Look & Feel in Preferences
  - Flat Light is the new default
  - Flat Light or Flat Dark provide a consist image across all computer platforms
- Updated Feedback Monitor
  - Support for module-based Feedback units has been added, such as BiDiB modules
  - New Inputs monitor for BiDiB input modules
  - New Positions monitor for FeedCar inputs used with OpenCar
- Keyboard has been updated to include control of Aspects
  - Can also operate locked Turnouts using the Keyboard
- How to pin a window to the front to prevent it disappearing behind the Switchboard
- The Network tab in Preferences has been renamed to 'Mode'
- And a new mode called 'View' has been added to allow you to view layout files (.tcdz) from other people that have a higher level license.

Timecodes:
00:00 - Start
00:11 - Topics covered
00:28 - New default Look & Feel - Flat Light or Flat Dark are recommended
01:40 - Switchboard look options are unchanged - Classic, Contrast or Dark
02:06 - Updated Feedback Monitor - support for Module-based units added (e.g. BiDiB)
03:25 - Inputs Monitor - for BiDiB input modules
03:50 - Positions Monitor - for FeedCar inputs used in OpenCar
04:14 - Keyboard updated - support for Aspects added
05:40 - Use Keyboard to change the state of locked Turnouts
06:39 - How to pin a window to the front
07:33 - Network tab renamed to 'Mode'
07:10 - View mode added - view other peoples' layout files
09:04 – End

Video 08: iTrain 5.1 Supplement – Interface Updates
https://youtu.be/410lDLtrcVA

In this tutorial we cover the updates and enhancements to Interfaces in iTrain 5.1.

It includes:
An enhancement to the 'Send stop at disconnect' settings that creates an interaction between all Interfaces that have this setting set, so if one Interface is suddenly disconnected, all Interfaces with this setting active will also stop and disconnect.

More efficient listing of Interfaces so that by default only the most popular are listed.

Improvement to the FIND function for Networked Interfaces that provides better network discovery abilities and shows more information.

Control of BiDiB accessories via a hand-held throttle has be added.

The Decoder Programming feature now allows changing of CVs in MCC / Dinamo Car System decoders.

There is a new Protocol Debug Logger per Interface.

And several specific Interface enhancements.

Timecodes:
00:00 - Start and Intro
00:18 - Send Stop at Disconnect
01:49 - Listing Interfaces
02:33 - Find Networked Interfaces
02:58 - Control BiDiB Accessories with a hand Throttle
08:37 - Changing CV values in MCC Decoders
09:22 - Protocol Debug Logger
12:20 - Specific Interface Enhancements
12:59 - MD Electronics via WLAN with Z21 protocol
13:17 - netBiDiB
13:40 - LinkS88
13:54 - DCC++ EX with Arduino
14:09 - LoDi Rektor LX
14:32 - Lenz LZV200 functions f0-f68
14:50 - uCon Manager Reloaded
14:59 - Rautenhaus RMX virtual support for using their handhelds
15:12 - Rautenhaus RMX f17-f28
15:27 - LinkS88 on SRS2
15:42 – Uhlenbrock Daisy 2 Wireless Throttle
16:06 - Wrap up
16:39 - End

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I hope you find them useful.
Bob