LocoNet-Checker V2.9.2 (has not been updated to the latest version)

This program helps you to manage your Digitrax devices connected to the Loconet bus and monitor their behaviour. It ensures that all devices have the correct settings.

The key areas of functionality are:-

- Smart Configuration of your Command station. Easy to use settings window that allows you to make a change in a flash.
- Configuration of all BDL, PM and SE devices connected to your Loconet. The system stores your default settings for future reference and allows you to change the setting of any device instantly. The screen shows the current settings of all devices side by side for easy reference.
- BDL/DS54 Message viewer. This window displays and counts all sensor and Transponding messages allowing you to see if any boards are not behaving correctly. The system reports how many messages were lost on interrogation.
- Manual sending of any Loconet Message (checksum automatically calculated)
- Background logging all Loconet traffic to disk. This is useful when a problem has occurred with computer based control systems and you need to become the forensic detective.
- Smart Slot monitor that automatically synchronised with the Slot Manager. This monitors any problems with Slot Manager and Computer throttles. It shows also your consisted locomotives. Shows now in addition (if ALM used) the name of the locomotive & Id of the locomotive, the throttle name and the current transponding zone name. The slot monitor has the capability to stop or release all trains and also to allocate all trains defined in the ALM-Database (useful for transponding)
- Turnout checker allows you to check all your turnouts before you start a train session.
- ALM editor allows you to enter names for your locomotives and turnouts
- Display of all CML board in the screen "HW-Configuration" with the basic data
- Display of the LocoIO-Modules in the screen "HW-Configuration" with the basic data
- Separate screen for entering DS54 data
- Display of SIGM10 SE-messages in the screen BDL16
- Extra screen for displaying all loconet messages with filtering possibility
- Added full support for the DCC pocket tester, display loconet messages and DCC messages together, Filtering for DCC messages, saving of DCC messages
- Ready for the new Digitrax HW (DS64, PR2, etc)
- Every screen stores now its position

Let me know about any encountered problems (stefan.trachsler@swissonline.ch).

Regards Stefan

Note: Some of the functions will need a detailed understanding of loconet; therefore these functions are more for an experienced loconet user.

1) Menu

黻 L	oconet-	Checker			
Eile	Loconet	Operation	DCC	<u>W</u> indow	<u>H</u> elp

黝 L	oconet-0	Checker				
File	Loconet	Operation	DCC	Window	Help	
	Comm	and Station (Configu	iration		
	Module	e Configurati	ion (All)	I		- 8
	Locone	et Viewer				- 8
	Sensor	r & Transpor	iding Vi	ewer (BDL:	xx,DS54,DS64	4)
	Log Loconet Messages					
	Slot Monitor					
	Turnout Checker					
	DS54 e	entering				
	ALMdb)				- 1
	Send L	oconet Mess	sage			-
	Thrott	le message				
	Record	d/Replay				

巅 I	.oconet-(Checker			
File	Loconet	Operation	DCC	Window	Help
			DC	C Viewer	
			DC	C Statistic	- 88
			_		

Status bar



The status bar shows also the type of the command station, the type of interface and the used ComPort.

2.1 Communication

🧟 Options			\mathbf{X}
Comunication LoconetView	wer LogLoconet SlotMonitor	ModuleSetting BDL TurnoutChecker	
Loconet		1	
ComPort	COM1 V	Prefered: Locobuffer (MS100	
	1	19200 at computer)	
BaudRate	57600		
DCC Pocket Tester			
	COM2 -		
ComPort			
BaudRate	115200 💌		

Configure the ComPort for the loconet interface and the DCC Pocket Tester from Pricom (<u>http://www.pricom.com/Trains/DCCTester.html</u>)

Select "NotConnected" if an interface is not connected.

2.2 LoconetViewer



2.3 LogLoconet

Comunication LoconetViewer [LogLoconet] SlotMonitor ModuleSetting BDL TurnoutChecker]
Start "LoconetLogging" at startup Logfile C:\Loconet.log Change Add Date/Time to Filename	Automatically starts loconet logging in the background
Extended Logging	



2.3 SlotMonitor



2.4 ModuleSetting

🧟 Options	×	
Comunication LoconetViewer LogLoconet SlotMonitor ModuleSetting BDL TurnoutChecker		
「 Open "Module Setting" screen at startup		
AutoModule dedection at startup DedectionTime: 5		
	Det BD mo	ects and verifies connected L / PM/ SE / LocoIO, etc dules

<u>2.5 BDL</u>

2 Options	
Comunication LoconetViewer LogLoconet SlotMonitor ModuleSetting BDL TurnoutChecker Open "BDL" screen at startup Auto Screen Update Update/Sec 3	Automatically updates the screen with the new input sensor status
Transmitt Messages	Automatically updates the screen with the error counters of the locobuffer
Normal Switch Msg Switch-Nr Speed Msg Slot-Nr 44 Priority Interrogate Msg Interogate Msg Interrogate Msg Interof Msg Interrogate Ms	
	Advanced setting for producing loconet traffic

2.6 TurnoutChecker



3) Main screens

3.1 BDL/DS54-Messages



7





OpCode Description Parameters BDLAdt Stat Favret Hex Mspit Time Add	BDL			
Freez Upd #Bad frames 0 #Collisions 0 #Corrupted 0 Upd Locobutfer Counters All Image: State	OpCode Description Parameters BI INPUT_REP Sensor event Adr=319 State=0ff B 2 INPUT_REP Sensor event Adr=446 State=0ff B 2 SE Security element data Adr=685 2 SE Security element data Adr=687 5 SE Security element data Adr=688 5 SE Security element data Adr=690 5 SE Security element data Adr=691 5 SE Security element data Adr=691 5 SE Security element data Adr=693 5 SE Security element data Adr=693 5 SE Security element data Adr=693 5 SE	BDL Adr Stat Haw Hex 20.15 Off B2 1F 41 13 20.16 Off B2 5E 61 72 20.16 Off B2 5F 61 73 28.15 Off B2 5F 61 73 28.16 Off B2 5F 61 73 red E4 09 05 2C 0 red red E4 09 05 22 0 red red E4 09 05 32 00 red red E4 09 05 33 00 red red E4 09 05 32 00 red red E4 09 05 33 00 red red E4 09 05 33 00 red	Msg# Time ▲ 524 55:54.427 525 55:54.427 525 55:54.427 526 55:55.427 528 55:55.427 530 55:55.427 530 55:55.538 531 55:55.545 531 55:55.5645 533 55:55.5645 533 55:55.5645 533 55:55.565 533 55:55.5645 534 55:55.5755 533 55:55.5755 533 55:55.5755 534 55:55.5755 535 55:56.413 534 55:55.5755 535 55:56.5192 537 55:56.56.411 ▼	GPON GPOFF Switch Close Throw Send Msg Statt Stop Send #Msg/Sec 1 Receive Msg
No detail Mag	Freez Upd #Bad frames 0 #Collisions Board# In1 In2 In3 In4 In5 In6 In7 In8 In9 In10 BDL17 In3 In4 In5 In6 In7 In8 In9 In10 I BDL18 In1 In1 <td>#Corrupted 0 In11 In12 In13 In14 In15 In1 In12 In13 In14 In15 In1 In13 In14 In15 In1 In1 In14 In15 In1 In1 In1 In1 In11 In12 In14 In15 In1 In1</td> <td>Upd Locobuffer Counters</td> <td>#BDL Messages 528 #Se Messages 10 #Unknow Status 8 Reset Counter Reset All ☐ Auto R Occupied Free Unknown Problem Refresh Grid 0 ↔ Interrogate</td>	#Corrupted 0 In11 In12 In13 In14 In15 In1 In12 In13 In14 In15 In1 In13 In14 In15 In1 In1 In14 In15 In1 In1 In1 In1 In11 In12 In14 In15 In1 In1	Upd Locobuffer Counters	#BDL Messages 528 #Se Messages 10 #Unknow Status 8 Reset Counter Reset All ☐ Auto R Occupied Free Unknown Problem Refresh Grid 0 ↔ Interrogate

This screen shows as well the status of the SIMG10 modules from CML electronics

3.2 Send Loconet Message

😤 Loconet-Checker	
Elle Loconet Windows Help	
SendMessage	
DS-Message Board-Nr: 1 = State: Free Coccupied Send	DS-Message to be sent
Own-Message Message Checksum is automatically calculated! Do not enter.	
Only valid messages are transmitte with locobulfed Send	
Connected COM3 Baudiate: 57600	

3.3 Send Throttle Message

🌕 SendThrottleMessage			
Throttle-Message Global message Throttle specific message	Message:	Response	Send
Semaphore-Message	Lights body Blinks the display	 Displays straight-up arm Displays 45-degree arm Displays horizontal arm 	Send

This screen allows sending of messages to throttle. Unfortunately it does not work perfect with the current DT400 (only one message can be sent).

🌕 Replay						
Route	1	Record Rep	lay Clearf	Replay Sa	ive to File	Load From File
Msg# Reco	rd					

Allows recording of a train schedule and a verification of the messages from a second run

3.5 Module Configuration

Allows the configuration of the Digitrax HW. Defaults can be saved, compared and reset. Has an "Easy View" and a "Major OPSW"-View for experts.

After the start-up of the screen, the SW detects all connected modules and reads afterwards the OPSW.

3.5.1 Commandstation

Elle Loconet Operation DCC Window Help
Command Station BDL16x PM4x Se8 DS64 CML LocolD East View Read WateModified Compare With Default Set to Default Set to Default
Description DCS100
System Setup
Act a a command station ReadS again the
Booster is autoreversing OPSW from the
Automiana statom master mode model
Eutodiana auvarice ue douel assisted Lorisists ale uisabled 1/9 second
Exterily public shuft with a stratown rule in the stratown rule in the second in the stratown rule in the stratown
Default the fin MEW loop settering a device work and become were settering and the s
Disable along Compares the currents
Enable routes setting with the stored
Disable normal switch commands to the track (Bushby bit)
Meter route/switch outputrate when not trinary marked in green
Programming track braking
Diagnostic click when valid locont message
Slot Control
Number of sloks 119
Loco address aurge Disabled
Disable 3 Beeps when loco adress is purged
Trinary Format
Allow Motorola tinary format format
Expand trinary sylich echo format to 1-256 when UPSW 9 = 1
Make trinary swildnes long duration
Motorola trinyry Au decoder allowed
Tower up
Disable intercept at power on
Disable menogate dominanti at power on V
Reset
Clear all routes
Clear the loco roster
Clear all internal memory states
Done
#Msg: 3135 #Msg/Sec: 0 #max Msg/Sec: 92 🔗 Connected: COM1 Bautrate: 57600 Station: DCS100 Interface: LocoBuffer (1.630) 🥢

Display-Mode can be changed

To change a value, just click to the field

3.5.2 BDL

Loconet-Checker - [Module Configuration]												
🧟 Eile Loconet Operation DCC <u>W</u> indow <u>H</u> elp												- 8 ×
Command Station BDL16x PM4x Se8 DS64 CML Locol0												
Major Opsw Read WriteM	odified	Com	pare With I	Default	Set to) Default	Sav	e Default]			
OPSW# Description	BDL15	BDL16	BDL17	BDL18	BDL19	BDL20	BDL21	BDL22	BDL23	BDL24	BDL25	BDL26 E
Board Number	15	16	17	18	19	20	21	22	23	24	25	26
Board Model	BDL168	BDL168	BDL168	BDL168	BDL168	BDL168	BDL168	BDL168	BDL168	BDL168	BDL168	BDL168 B
OPSW01 Common rail wiring												
UP5W03 Reverse railsyn polarity for Transponder detection												
OPSW05 Enable Transponding	✓	✓						✓	✓			
OPSW09 No message sent if un-powered			•	•								
0PSW11 Do not allow to be LocoNet master												
0PSW12 Do not allow to terminate LocoNet												
OPSW13 Power only 1/2 second at power up												
OPSW19 High threshold sense (10kOhms)	~	~			<	✓	✓	 Image: A start of the start of	✓	~	~	
OPSW25 Drive LEDs from switch command, not occupancy												
OPSW26 Decode switch commands from LocoNet												
OPSW33 OPS-Read disabled												
OPSW36 Ignore GPON	✓	•		✓		✓	✓	✓	✓	•	•	
OPSW37 Long release delay for sensors	~	✓		•		\checkmark	\checkmark	✓	✓	✓	✓	•
OPSW38 Extra long release delay for sensors	~	✓	✓	✓		✓	✓	✓	✓	✓	✓	
OPSW39 Verbose mode	~	~	~	✓	~	✓	✓	~	~	~	~	
OPSW40 Restore factory default, including address												
OPSW42 Respond to first interrogate request	 Image: A state Image: A state<td>•</td><td></td><td></td><td>¥.</td><td></td><td></td><td> Image: A start of the start of</td><td>~</td><td></td><td></td><td></td>	•			¥.			 Image: A start of the start of	~			
OPSW43 Filter for transponding disabled					_ <u>H_</u>							
UPSW44 Extra filter for transponding					Ĕ				✓			
UP5W45 Don't send transponding messages at GPUFF	✓	•				⊻	⊻	⊻	~			<u> </u>
										>		
Done												
#Msg: 3140 #Msg/Sec: 0 #max Msg/Sec: 92 🔗 Connected: COM1 Baudrate: 57600 Station: DCS100 Interface: LocoBuffer (1.630) 🥢												
Multiselects are allowed!												
Loconet_Checker - [Module Configuration] Loconet_Windows_Beb Loconet_Windows_Beb Loconet_Windows_Beb												
Command Station BDL16x PM4x Se8 DS54	Command Station BDL15k PM4x Se0 DS54											
Major Opew Read WriteModified Compare With Defe	suk Set t	Default	Save Default]								
IDPS/WII Description BDL1 BDL2 BDL3 B Board Number 1 2 3 Board Model BDL18 BDL188 BD	DL4 BDL5 4 5 0L168 BDL168	BDL6 BD 6 7 BDL168 BDL	LT7 BDL8 7 8 L168 BDL168	BDL9 BDL 9 10 BDL168 BDL	10 BDL11 11 68 BDL168	BDL12 BDL1 12 13 BDL168 BDL1	3					
UH-SWU3 Heverse polarity for detection OFSW05 Enable Transponding V V OFSW05 No message sent if un-powered V V	· · · · · · · · · · · · · · · · · · ·					v v						

DCV/# Developing	DDI 1	DDL 2	DDI 0	DDL4	DDIE	DDI C		DDI 0	DDLO	00110	DDI 11	DDI 10	DDI 12
Board Number	1	2	3	4	5	6	7	8	9	10	11	12	13
Board Model	BDI 168	BDI 168	BDI 168	BDI 168	BDI 168	BDI 168							
PSW01 Common rail witing													
PSW03 Reverse polarity for detection													
IPSW05 Enable Transponding			•					•	•	•	•		
PSW09 No message sent if un-powered				•					4				•
PSW10 Section 16 used to sense power													
PSW11 Do not allow to be LocoNet master	~		•					~	~	•			•
PSW12 Do not allow to terminate LocoNet	•	•	•			•	•	•	~	•	•		•
IPSW13 Power only 1/2 second at power up													
PSW19 High threshold sense (10k0hms)									4				•
IPSW25 Drive LEDs from switch command, not occupant	у 🗆												
JPSW26 Decode switch commands from LocoNet													
PSW33 0PS-Read disabled													
DPSW36 Ignore GPDN	•	•	•		•	•	✓	v	v	•	•	•	✓
IPSW37 Long delay for sensors				•			•			•			•
IPSW38 Extra long delay for sensors	•	•	•	•		•	•	•	•	-		•	•
IPSW39 Verbose mode	•	•	•	•	•	•	•	•	•	•			•
IPSW40 Restore factory default, including address													
IPSW42 Response to interrogate first time	4	•	4	•	•	•	•	4	Y	4	•	•	
PSW43 Filter for transponding disabled													
JPSW44 Extra filter for transponding	•	•	₹	•		•	•	~	~	•	•	•	•
JPSW45 Don't send transponding messages at GPOFF	•	•	•	•	•	~	•	~	✓	⊻	✓	✓	

Shows a screen example of "Compare with Default". The currents values are compared with the previous stored default values.

With the button "Set to Default" the user could now set the OPWS to the saved default values.

3.5.3 PM42

😻 Loconet-Checker - [Module Configurat	tion]				
🧟 Eile Loconet Operation DCC <u>W</u> indow <u>H</u>	<u>l</u> elp				_ 8 ×
Command Station BDL16x PM4x Se8 D	S64 CML LocolO				
Easy View 💌 🛛 Bead	WriteModified	Compare With Def	ault Set to Default	Save Default	
Description	PM1				
Board Number	1				
Board Model	PM42				
Trip Current Setting					
I rip Current	3.UA				
Section 1					
Short Circuit Detection Sensitivity	Fastest				
Auto-Heversing					
Section 2					
Short Circuit Detection Sensitivity	Fastest				
Auto-Heversing					
Section 3					
Short Circuit Detection Sensitivity	Fastest				
Auto-Heversing					
Section 4					
Short Circuit Detection Sensitivity	Fastest				
Auto-Heversing					
Done					
#Msa: 3140 #Msa/Sec: 0 ##	max Msg/Sec: 92	Connected: COM1	Baudrate: 57600	Station: DCS100	Interface: LocoBuffer (1.630)

3.5.4 SE

Be Looke Wrokes Beb - Ø X Command Station BDLTSk PM4k Set DS54 - Ø X Description Beb Looke Wrohn Delax Set to Delax Beb Looke Wrohn Delax Set to Delax Set to Delax Head Setting Beb Looke Wrohn Delax Set to Delax Beb Looke Wrohn Delax Set to Delax Set to Delax Beb Looke Wrohn Delax Beb Looke Wrohn Delax Beb Looke Wrohn Delax Beb Looke Wrohn Delax Beb Looke Wrohn Delax Beb Looke Wrohn Delax Beb Looke Wrohn Delax Beb Looke Wrohn Delax Beb Looke Wrohn Delax Beb Looke Wrohn Delax Beb Looke Wrohn Delax Beb Looke Wrohn Delax Beb Looke Wrohn Delax Beb Looke Wrohn Delax Beb Looke Wrohn Delax	Comment Underson Underson Underson Description Rest WorderCollegit Compare Web Orderall Description Rest WorderCollegit SeenDetail Description Rest WorderCollegit SeenDetail Description Rest WorderCollegit SeenDetail Description Rest SeenDetail SeenDetail Description Rest SeenDetail SeenDetail Description Rest SeenDetail SeenDetail Description SeenDetail SeenDetail SeenDetail Description SeenDetail SeenDetail SeenDetail SeenDetail SeenDetail SeenDetail SeenDetail Description SeenDetail SeenDetail SeenDetail SeenDetail SeenDetail SeenDetail SeenDetail SeenDetail SeenDetail SeenDetail SeenDetail SeenDetail SeenDetail SeenDetail SeenDetail SeenDetail SeenDetail SeenDetail SeenDetail Descriptintern SeenDetaintintern <td< th=""><th>Loconet-Checker - [Module Configuration]</th><th></th><th></th><th>r</th></td<>	Loconet-Checker - [Module Configuration]			r
Command Station (BDLTain (PM44: See DS54) Percetation Bood Hundre Decetation Bood Hundre Bood Hundre Decetation Bood Hundre Bood Hundre Decetation Bood Hundre Decetation Bood Hundre Decetation Bood Hundre Bood Hundr	Commend Statun BDLIG PM4: @ 055 @ Work Statun Beet Marker Beet Mode Heat Species Heat Species Beet Software Status Convoirs Status Conv	🥭 Elle Loconet Windows Help		_ 8 ×	
Description Board Munder Board Munder Board Model Head Strept for Idd Aspects per Head Head Types for DNY 10 4 Board Model Centered Sciency Stable DS spectra protocol Diable DS spectra protocol Diable DS spectra messages Enable SV command set signal control address range Net SV command set stage control address range Set locicy DEFAULT retrings Exercise Synal Head Patern 1 (all heads) Shows a screeen, where no Se are connected to the loconet	Description Board Muscler Boar	Command Station BDL16x PM4x Se8 DS54 Easy View - Read WriteModified	Compare With Default Set to Default	Søve Default	
Shows a screen, where no Se are connected to the loconet	Shows a screen, where no Se are connected to the loconet	Description Board Number Board Number Board Number Board Model Head Settings Aspects per Head Head Types for DRV to 4 Head Types for DRV to 6 Indication of 4th Appect General Settings SEB Mode Operation Settings Settings			
	Done			Shows a screen, where no Se are con	nected to the loconet

🛃 Module Configuration		
Command Station BDL16x PM4x Se8 DS64 CML Lo	ocol0	1
Easy View Read WriteModified	Compare With Default Set to Default	Save Default
Description	DS64_1	
Board Number	100	
Board Model	DS64	
Output Settings		
Туре	Pulse	
Pulse length	3000ms	
Set static timeout length (16sec)		
Output #1 Address	1	
Output #1 crossing gate		
Output #2 Address	2	
Output #2 crossing gate		
Output #3 Address	3	
Output #3 crossing gate	\checkmark	
Output #4 Address	4	
Output #4 crossing gate		
Remember last output status	Off	
Startup delay	65ms	
Input-Settings		
Enable sensor messages to Loconet		
Type of sensor messages sent	B2	
Input trigger for inputes		
Input Trigger for switches		
Input trigger for local routes		
General		
Routes disabled		
Command Priority		
Comuter and/or Throttle Commands Accepted	Throttle(BU)/Computer(BD)	
Factory reset		
Houtes		
Route #1	999(t),998(c),500(t),250(c),200(c),300(t),400	
Houte #2	70)	
Houte #3	7(t).	
Houte #4	1.000 1.000 1.000 1.000 2.000 2.000 2.000	
Houte #5	10(1), 12(1), 14(1), 16(1), 18(1), 20(1), 22(1), 24(1),	
Houte #b	100 200 200 400 500 500	
Houte #/	1((),2((),3((),4((),5((),6((),	
Done		

This screen will show the DS64 modules.

🐹 DS64 Rou	te#1 Modu	le: DS64_1	X
999	Closed	Thrown	
998	Closed	i 🔿 Thrown	
500	C Closed	i 💿 Thrown	
250	Closed	i 🔿 Thrown	
200	Closed	C Thrown	
300	C Closed	Thrown	
400	Closed	C Thrown	
499	Closed	C Thrown	

3.5.6 CML-Modules

This screen shows the basic data of the module from the company CML (<u>http://www.cmlelectronics.co.uk/index.html</u>). The SE messages itself are displayed in the BDL16x screen.



3.5.7 LocoIO-Modules

👯 Loconet-Checker - [Module Configuration]	
🧖 Elle Loconet Operation DCC Window Help	- 8 ×
Command Station BDL16x PM4x Se8 DS64 CML [Locol0]	
Addess SubAddess SV-Verion 82 1 134 85 1 134 85 1 0 85 10 85 10 8	
Done MMcc 3145 ItMico/Sec 0 Itmax Mcc/Sec 92 Connected CDM1 Baudrate 57500 Station: DCS100 III	Nerface: LocoBuffer (1.630)

This screen shows the basic data of all LocoIO modules connected to the LocoNet.

3.6.1 Screen for a DCS100

Loconet-Checker - [Command Station Configuration]		
Ele Loconet Windows Help		- 1
Command Station		
EasyView Read WriteModified	Compare With Default Set to Default	Save Default
Description	DCS100	
System Setup		
Act as a command station	Command Station	
Booster is autoreversing		
Command station master mode	•	
Automatic advance decoder assisted consists are disabled		
Extend booster short circuit shutdown time	1/8 second	
Disable adress 0 or analog stretching for conventional locos		
Default type for NEW loco selections	128 step FX	
Disable aliasing	Z	
Enable routes		
Disable normal switch commands to the track		
Meter route/switch outputrate when not trinary		
Programming track braking	U	
Diagnostic click when valid locont message		
Slot Control		
Number of slots	119	
Loco address purge	Disabled	
Disable 3 Beeps when loco adress is purged		
Trinary Format		
Allow Motorola trinary format format		
Expand trinary switch echo format to 1-256 when OPSW 9 = T		
Make trinary switches long duration		
Motorola trinyry AC decoder allowed		
Power Up		
Track power at power on	Set to run state	
Disable interrogate command at power on	×	
Disable Loconet update or command station's track status	¥	
Heset		
Clear all mobile decoder & consist info		
Clear the large sector		
Clear the loco toster		
clear an internal memory states		
mented COM3_Baudrate 57600		

This menu entry only allows the changing of the command station configuration.

Easy View Read WriteModified Com			
	pare With Default Set to Default		
Description	DCS50		
System Setup			
Act as a command station	Command Station		
Booster is autoreversing			
No change allowed to Throttle ID, Vmax or Brake Rate			
Function 3 is non-latching			
Automatic advance decoder assisted consists are disabled	✓		
Extend booster short circuit shutdown time	1/8 second		
Disable adress 0 or analog stretching for conventional locomotives			
Default type for NEW loco selections	128 step		
Disable normal switch commands to the track (Bushby bit)			
Disable reply for switch state request			
Number of Jump Ports			
Slot Control			
Loco address purge	Disabled		
Power up	Cat be sum state		
Disable interregate command at power on	Set to run state		
Disable I accept update of command station's track status			
Beset			
Clear all mobile decoder & consist info			
Beset DCS50 to factory option switch settings			

3.6.2 Screen for a DCS100

3.7 Turnout Checker

🍯 Turn	out Checker		
Solenoi Repetil	id tion 2 Wait	time [s] 2 Coil Repetition 2 Wait time [s] 2 All Start	Stop
ID#	Туре	Switch# Description Comment	
1	Switch-Solenoid	13 Sch2_Geleise01 - Ausfahrt	
10	Switch-Solenoid	5 Sch2_Geleise12 - Einfahrt	
11	Switch-Solenoid	6 Sch2_Geleise13 - Einfahrt	
12	Switch-Solenoid	8 Sch2_Geleise14 - Einfahrt	
13	Switch-Solenoid	1 Sch2_Geleise15 - Einfahrt	
14	Switch-Solenoid	4 Sch2_Geleise16 - Einfahrt	
15	Switch-Solenoid	3 Sch2_Geleise17 - Einfahrt	
16	Switch-Solenoid	7 Sch2_Geleise18 - Einfahrt	
17	Switch-Solenoid	2 Sch2_Geleise19 - Einfahrt	
18	Switch-Solenoid	20 Sch2_Geleise02 - Einfahrt	
19	Switch-Solenoid	22 Sch2_Geleise03 - Einfahrt	
2	Switch-Solenoid	15 Sch2_Geleise02 - Ausfahrt	
20	Switch-Solenoid	25 Sch2_Geleise04 - Einfahrt	
21	Switch-Solenoid	26 Sch2_Geleise05 - Einfahrt	
22	Switch-Solenoid	36 Sch2_Geleise06 - Einfahrt	
23	Switch-Solenoid	29 Sch2_Geleise07 - Einfahrt	
24	Switch-Solenoid	30 Sch2_Geleise08 - Einfahrt	
25	Switch-Solenoid	33 Sch2_Geleise09 - Einfahrt	
26	Switch-Solenoid	34 Sch2_Geleise10 - Ausfahrt	
27	Switch-Solenoid	35 Sch2_Geleise11 - Ausfahrt	
28	Switch-Solenoid	27 Sch2_Geleise12 - Ausfahrt	
29	Switch-Solenoid	21 Sch2_Geleise13 - Ausfahrt	
3	Switch-Solenoid	14 Sch2_Geleise03 - Ausfahrt	
30	Switch-Solenoid	28 Sch2_Geleise14 - Ausfahrt	✓
Current A	action:	Set all to Closed Set all to Thrown	

 \rightarrow Turnouts with problems are marked "red"

Right Mouse click gives additional functions:

1	10	owitori-o	uenulu	1	ach	z_deleise i d
	17	Switch-S	olenoid	2	Sch	2_Geleise19
	18	Switch-S	Rese		p	2_Geleise02
	19	Switch-S	Start	ongoing	n.	2_Geleise0(
	2	Switch-S	Stop	ongoing	n,	2_Geleise02
	20	Switch-S	olenoid	25	Sch	2_Geleise04
	21	Switch-Si	olenoid	26	Sch	2 Geleise0!

This screen shows the details for a switch (double click):

🔍 Turr	nout messag	es for switch #2		
Switch#	Date/Time	Problem	Comment	
2	13.07.2005	Did not switch		
2	13.07.2005	Did not switch		
			N	lew Entry

Enter a new problem for a turnout:

Enter newturnout problem message	×
Problem	
Did not switch	•
, Comment:	_
OK Can	:el

3.8 Slot Monitor

Active Sites# 10 PreeAde Stat# 10 Stat# 10 New used alots# 10 Stat# 19 Puge Disabled Stat# 401.766 Common 35 Stat# LooName Speed Direction Correit 119 Puge Disabled Active 1 de Stat# Adv 100 Provided National 2 Forward SubMember D 1400-6755 DCL_128_SS_Adv 4801.574 Common 33 Common 33 Common 33 Common 33 Common 400 Constat D 1400-6755 DCL_128_SS_Adv 4801.574 Common 400 Common 12 210/Pre450 SF.DRS I 30 Forward NcConstat D CS50 10880 DCL_128_SS 4401.789 Common 12 210/Pre450 SF.DRS I 30 Forward NcConstat D CS50 10880 DCL_128_SS 4402.000 Common 12 210/Pre450 SF.DRS I 30 Forward NcConstat D CS50 10880 DCL_128_SS 4402.000 Common 12 210/Pre450 SF.DRS I 30 Forward NcConstat D CS50 10880 DCL_128_SS 4402.000 Common 12 210/Pre450 SF.DRS I 30 Forward NcConstat D CS50 10880 DCL_128_SS 4402.000 Common 12 210/Pre450 SF.DRS I 30 Forward NcConstat D CS50 10880 DCL_128_SS 4402.000 Common 12 210/Pre450 SF.DRS I 30 Forward NcConstat D CS50 10880 DCL_128_SS 4402.000 Common 12 210/Pre450 SF.DRS I 30 Forward NcConstat D CS50 10880 DCL_128_SS 4402.000 Common 12 210/Pre450 SF.DRS I 30 Forward NcConstat D CS50 10880 DCL_128_SS 4402.000 Common 12 210/Pre450 SF.DRS I 30 Forward NcConstat D CS50 10880 DCL_128_SS 4402.000 Common 12 210/Pre450 SF.DRS I 30 Forward NcConstat D CS50 10880 DCL_128_SS 4402.000 Common 12 210/Pre450 SF.DRS I 30 Forward NcConstat D CS50 10880 DCL_128_SS 4402.000 Common 12 210/Pre450 SF.DRS I 30 Forward NcConstat D CS50 10880 DCL_128_SS 4402.000 Common 12 210/Pre450 SF.DRS I 30 Forward NcConstat D CS50 10880 DCL_128_SS 50 189317 Common 12 210/Pre450 SF.DRS I 30 Forward NcConstat D CS50 10880 DCL_128_SS 50 189317 Common 12 210/Pre450 SF.DRS I 30 Forward NcConstat D CS50 10880 DCL_128_SS 50 189317 Common 12 200 Common 12 210/Pre450 SF.DRS I 30 Forward NcConstat D CS50 10880 DCL_128_SS 50 18931 Common 12 SF.DRS I 30 Forward NcConstat D CS50 10880 DCL_128_SS 50 18931 Common 12 SF.CRS I 30 Forward NcConstat D CS50 10880 DCL_128_SS 50 18931 Common 12 SF.CRS I 30 Forward NCCONSTA D CS50 10880 DCL_128_SS 50 18931 Common 12 SF	🦉 Slot	Monitor									
Active Stots 10 Preede Stots 10 Preede Common 336 0 Reverse bread Direction Consist Common 331 2 Forward SubMember D1580 DCC, 128, 55 Adv 4801786 Common 333 2 Forward SubMember D1400-875 DCC, 128, 55 Adv 4801786 Common 400 2 Forward SubMember D1400-875 DCC, 128, 55 Adv 4801287 Common 405 5 0 FORS I 30 Forward NoConsist D1600-875 DCC, 128, 55 Adv 4801287 Common 12 212/Re40 SFDRS I 30 Forward NoConsist D1600-875 DCC, 128, 55 Adv 4801287 Common 12 212/Re40 SFDRS I 30 Forward NoConsist D1600-875 DCC, 128, 55 Adv 4801287 Common 12 212/Re40 SFDRS I 30 Forward NoConsist D1600-875 DCC, 128, 55 Adv 4801287 Common 445 0 Forward NoConsist D1600-850 2005 cheatwage 0 CC, 128, 55 Adv 4801287 Common 12 212/Re40 SFDRS I 30 Forward NoConsist D1600-850 2005 cheatwage 0 CC, 128, 55 Adv 4801287 Common 445 0 Forward NoConsist D1600-850 2005 cheatwage 0 CC, 128, 55 Adv 4801287 Common 12 212/Re40 SFDRS I 30 Forward NoConsist D1600-850 2005 cheatwage 0 CC, 128, 55 Adv 4801287 Common 12 212/Re40 SFDRS I 30 Forward NoConsist D1600-850 2005 cheatwage 0 CC, 128, 55 Adv 4802570 Common 12 212/Re40 SFDRS I 30 Forward NoConsist D1500-10800 D0C, 128, 55 4802570 Common 12 2005 cheatwage 0 CC, 128, 55 Adv 4802570 Common 12 2007 cheatwage Common 12 2007 cheatwage C						Slot Configura	ation DCS100			Slots displayed	
Sidelt Statut Add. LocName Speed Direction Consist Trottleid Spd Sty. LastUp Add. Add. LocName Speed Direction Consist Trottleid Spd Sty. LastUp Add. Spd St	Activ	e Slots#	10 Free/dle 109 M	lax used slots#	10	Slot# 11	9 Purge Disabled			Siots dispidyed	
Skett Status Adr. LocName Speed Direction Consist Trottle Id Spd Sig. LastUpd Zone 2 Common 336 0 Reverse Statutus to be 3 Common 33 2 Forward SubMercher D1500 10800 DCC_128_5S Adv 4801.880 6 Common 331 2 Forward SubMercher D1600 e755 DCC_128_5S Adv 4801.880 7 Common 400 2 Forward SubMercher D1600 e755 DCC_128_5S Adv 480.927 7 Common 440 1 Common 12 212/Re460 SF-DRS I 30 Forward NaConsist DCS90 10880 DCC_128_5S 4801.739 1 Infuse 55 00 Forward NaConsist DCS90 10880 DCC_128_5S 4801.739 1 Infuse 7 207/BLS Re465.Jungfraujoch 124 Forward NaConsist D1400 e755 DCC_128_5S 480.161 1 11 Infuse 5 206/Fe III braun 0 Reverse NaConsist DCS90 10880 DCC_128_5S 50.16811 11 Infuse 5 206/Fe III braun 0 Reverse NaConsist DCS90 10880 DCC_128_5S 50.16.911 10 Idde 50 206/Fe III braun 0 Reverse NaConsist DCS90 10880 DCC_128_5S 50.16.911 11 Infuse 5 206/Fe III braun 0 Reverse NaConsist DCS90 10880 DCC_128_5S 50.16.911 10 Idde 50 206/Fe III braun 0 Reverse NaConsist DCS90 10880 DCC_128_5S 50.16.911 11 Infuse 50 206/Fe III braun 0 Reverse NaConsist DCS90 10880 DCC_128_5S 50.16.911 11 Infuse 50 206/Fe III braun 0 Reverse NaConsist DCS90 10880 DCC_128_5S 50.16.911 11 Infuse 50 206/Fe III braun 0 Reverse NaConsist DCS90 10880 DCC_128_5S 50.16.911 11 Infuse 50 206/Fe III braun 0 Reverse NaConsist DCS90 10880 DCC_128_5S 50.16.911 11 Infuse 50 206/Fe III braun 0 Reverse NaConsist DCS90 10880 DCC_128_5S 50.16.911 11 Infuse 50 206/Fe III braun 0 Reverse NaConsist DCS90 10880 DCC_128_5S 50.16.911 11 Infuse 50 206/Fe III braun 0 Reverse NaConsist DCS90 10880 DCC_128_5S 50.16.911 12 Infuse 50 206/Fe III braun 0 Reverse NaConsist DCS90 10880 DCC_128_5S 50.16.911 13 Infuse 50 206/Fe III braun 0 Reverse NaConsist DCS90 10880 DCC_128_5S 50.16.911 14 Infuse 50 206/Fe III braun 0 Reverse NaConsist DCS90 10880 DCC_128_5S 50.16.911 15 Infuse 50 206/Fe III braun 0 Reverse NaConsist DCS90 10880 DCC_128_5S 50.16.911 15 Infuse 50 10 Infuse 50 10000 Infuse 50 10000 Infuse 50 10000 Infuse 50 10000 Infuse 50 Infuse 50 Infuse 50 Infuse 50		,	3003		,	· · · ·	,		-	Active + Idle 🗨	
2 Common 386 0 Reverse Excertator D1400-8755 DCC_128_SS_Adv 4801786 4 Common 31 2 Forward SubMember D1400-8755 DCC_128_SS_Adv 4801374 2 Common 33 2 Forward SubMember D1400-8755 DCC_128_SS_Adv 4801374 2 Common 43 2 Forward SubMember D1400-8755 DCC_128_SS_Adv 4801374 5 Common 400 2 Forward SubMember D1400-8755 DCC_128_SS_Adv 4801374 7 Common 45 5 Forward SubMember D1400-8755 DCC_128_SS_Adv 4801270 1 Common 12 212/Re460 SF-DRS I 30 Forward NoConsist D1400-8755 DCC_128_SS_480270 8 Idé 3 0 Forward NoConsist D1400-8755 DCC_128_SS_4405270 Erresh all Stot Foresh NoConsist DCS80-10880 DCC_128_SS_4802161 Value changed 11 Indiae 6 206/76 III Ibrain 0 Reverse NoConsist DCS80-10880 DCC_128_SS_550-108151	Slot#	Status	Adr. LocName	Speed Direction	Consist	Throttle Id	Spd. Stp.	LastUpd	Zone		Select slot status to be
4 Common 35 2 Forward SubMember DCS90<10880	2	Common	396	0 Reverse	ConsistTop	DT400 - 8755	DCC_128_SS_Adv	48:01.786		Sort Order	displayed
6 Common 31 2 Forward SubMember 01400-8755 DCC.128, SS, Adv. 4801397 27 Common 400 2 Forward SubMember D1400-8755 DCC.128, SS, Adv. 4801397 7 Common 45 5 Forward SubMember DCS90-10800 DCC.128, SS, Adv. 4801397 1 Common 45 5 Forward NoConsit DCS90-10800 DCC.128, SS, Adv. 4801397 3 InUse 52 0 Forward NoConsit D1400-8755 DCC.128, SS, Adv. 4801327 8 Idle 3 0 Forward NoConsit D1400-8755 DCC.128, SS, 4801739 9 InUse 7 Z07/BLS Re465 Jungfraujoch 12 Forward NoConsit D1400-8755 DCC.128, SS, 480178 10 Idle 50 250/Schleiwagen 0 Forward NoConsit DCS50-10880 DCC.128, SS, 48002161 11 InUse 6 205/Tell braun 0 Reverse NoConsit DCS50-10880 DCC.128, SS, 48002670 90 Stot State Stot State	4	Common	35	2 Forward	SubMember	DCS50 - 1088	0 DCC_128_SS	48:01.880		Consist 👻	anspinyen
22 Common 333 2 Forward SubMendeer 01400-8795 DCC_128_5S_Adv/ 4802598 #Sideraber Forward MidConsist DCC_128_5S_Adv/ 4801927 SubMendeer DCC_128_5S_4dv/ 8801927 SubMendeer DCC_128_5S_5DV/ 128_5S_4dv/ 801927 SubMendeer DCC_128_5S_5DV/ 128_5S_4dv/ 801937 DCC_128_5S_5DV/ 128_5S_4dv/ 8021802 DCC_128_5S_5DV/ 128_5S_4dv/ 8021802 DCC_128_5S_5DV/ 128_5S_4dv/ 8021802 DCC_128_5S_5DV/ 128_5S_4dv/ 8021802 DCC_128_5S_5DV/ 128_5S_4dv/ 8021801 PG#RE PG#RE <td>6</td> <td>Common</td> <td>31</td> <td>2 Forward</td> <td>SubMember</td> <td>DT400 - 8755</td> <td>DCC_128_SS_Adv</td> <td>48:01.974</td> <td></td> <td></td> <td></td>	6	Common	31	2 Forward	SubMember	DT400 - 8755	DCC_128_SS_Adv	48:01.974			
§ Common 400 2 Forward McConsist DCC_128_SS_A/v 48.02.200 7 Common 12 212/Re460 SF-DRS I 30 Forward NoConsist DCS50 · 10880 DCC_128_SS 48.02.200 267 3 InUze 55 0 Forward NoConsist DCS50 · 10880 DCC_128_SS 5021.302 Refresh all Stats 0.00000000000000000000000000000000000	27	Common	393	2 Forward	SubMember	DT400 - 8755	DCC_128_SS_Adv	48:02.958		#Slot relevant	
7 Common 45 5 Forward SubMember DCSD - 10880 DCC_128_SS 48:02.200 287 1 Common 12 212/Re460 SF.DRS I 30 Forward NoConsist DCSD - 10880 DCC_128_SS 48:01.733 3 InUse 55 0 Forward NoConsist DCSD - 10880 DCC_128_SS 50:21.302 Refresh all Slots 9 InUse 7 207/BL Sele85 Jungfraujoch 12 Forward NoConsist DCSD - 10880 DCC_128_SS 48:02.670 10 Idle 50 205/SchleWagen 0 Forward NoConsist DCSD - 10880 DCC_128_SS 48:02.670 11 InUse 6 206/Te III braun 0 Reverse NoConsist DCSD - 10880 DCC_128_SS 50:16:911 11 InUse 6 206/Te III braun 0 Reverse NoConsist DCSD - 10880 DCC_128_SS 50:16:911 Value changed Site Sites Test 10 To To	5	Common	400	2 Forward	MidConsist		DCC_128_SS_Adv	48:01.927		Messages	Sort Order
1 Common 12 212/Re460 SF-DRS I 30 Forward NoConsist DT500-10880 DCC_128_SS 40:07.739 3 Ind/ze 55 0 Forward NoConsist DT500-8755 DCC_128_SS 40:07.739 9 Ind/ze 7 207/BLS Re465.Jungfraujoch 124 Forward NoConsist DT500-10880 DCC_128_SS 40:02.670 10 Ide 50 250%-75484 NoConsist DC500-10880 DCC_128_SS 40:02.670 11 Ind/ze 6 206/76181 MoConsist DC500-10880 DCC_128_SS 40:02.670 11 Ind/ze 6 206/76181 DCS00-10880 DCC_128_SS 40:02.611 11 Ind/ze 6 206/76181 DCS00-10880 DCC_128_SS 50:16.911 Value changed Stot Stress Test Stot Stress Test Stot Stress Test Stot Stress Test 10 Ide 50 10 Stot Stress Test Stot Stress Test Stot Stress Test	7	Common	45	5 Forward	SubMember	DCS50 - 1088	0 DCC_128_SS	48:02.200		267	
3 InUse 55 0 Forward NoConsist D1400-8755 DCC_128_S5 5021.302 8 Idle 3 0 Forward NoConsist DCS50-10880 DCC_128_S5 48:02.670 9 InUse 7 207/BLS Re465Jungfraujoch 124 Forward NoConsist D1400-8755 DCC_128_S5 48:02.161 10 Idle 50 250/Schlefwagen 0 Forward NoConsist DCS50-10880 DCC_128_S5 48:02.161 11 InUse 6 206/Te III braun 0 Reverse NoConsist DCS50-10880 DCC_128_S5 50:16.911 Refresh all Slot Po.Fe Psh Zone V spd.sp Value changed Speed <> 0, stot is Idle 50 Slot Sites Test Idle 50 Slot Slot Slot Slot Slot Slot Slot Slot	1	Common	12 212/Re460 SF-DRS I	30 Forward	NoConsist	DCS50 - 1088	0 DCC_128_SS	48:01.739			
8 Idle 3 0 Forward NoConsist DCS50-10880 DCC_128_SS 4802.670 9 InUse 7 207/BLS Re465 Jungfraujoch 124 Forward NoConsist DCS00 500/28.05 500/28.05 Forket For	3	InUse	55	0 Forward	NoConsist	DT400 - 8755	DCC_128_SS	50:21.302			
9 InUse 7 207/BLS Re465 Jungfraujoch 124 Forward NoConsist DT400-8755 DCC_128_SS_Adv 50:13:317 10 Idle 50 250/Schleifwagen 0 Forward NoConsist DCS50-10880 DCC_128_SS 48:02.161 11 InUse 6 206/Te III braun 0 Reverse NoConsist DCS50-10880 DCC_128_SS 50:16:311 Called Consist DCS50-1	8	Idle	3	0 Forward	NoConsist	DCS50 - 1088	0 DCC_128_SS	48:02.670		Refresh all Slots	
10 Idle 50 250/5chleifwagen 0 Forward NoConsist DCS50-10880 DCC_128_SS 48.02.161 11 InUse 6 206/Te III braun 0 Reverse NoConsist DCS50-10880 DCC_128_SS 50.16.911 Value changed Structures Speed ← 0, stot is idle Structures Slot Stress Test Start Stop Nr of alds 10	9	InUse	7 207/BLS Re465 Jungfraujoch	124 Forward	NoConsist	DT400 - 8755	DCC_128_SS_Adv	50:19.317		F0-F8 F9-F1	
11 InUse 6.206/Te III braun 0 Reverse NoConsist DCS50-10880 DCC_128_SS 50:16.911 Value changed Soft value change	10	Idle	50 250/Schleifwagen	0 Forward	NoConsist	DCS50 - 1088	0 DCC_128_SS	48:02.161		Zone Spd. Stp	
Value changed Skit released Diskite Adaes Speed → 0, slot is ride Stat Stress Test Stat Stop Nr of slots 10	11	InUse	6 206/Te III braun	0 Reverse	NoConsist	DCS50 - 1088	0 DCC_128_SS	50:16.911			Refresh all Slo
Slot Stress Test Start Stop Nr of slots 10										idle	
										Slot Stress Test Start Stop Nr of slots 10	

🙆 si	ot-Messag	es for Slot 3																
Msg	Time	Opcode	Status	Adr	Speed	Direction	Consist	FO	F1	F2	F3	F4	F5	F6	F7	F8	Throttle-Id	Spd Stp.
1 2	47:32.310 47:32.320	OPC_RQ_SL_DATA OPC_SL_RD_DATA	InUse	41	64	Forward	NoConsist	Off	8755	DCC_128_SS								
•																		•
				-				-	-	-	-	-	-	-	-	-		

Detailed message for one specific slot (with double click)



This shows a slot screen, with the sorting for consists. Consisted slots are shown in a special colour.

🙆 Slot	Monitor					
					Slot Configuration DCS100	Slots displayed
Activ	e Slots#	10 Free/dle 109 N	Aax used slots#	10	Slot# 119 Purge Disabled	
		,				Active + Idle 🛛 👻
Slot#	Status	Adr. LocName	Speed Direction	Consist	F0 F1 F2 F3 F4 F5 F6 F7 F8 F9 F10 F11 F12 Throttle Id Spd. Stp. LastUpd Zone	
2	Common	396	0 Reverse	ConsistTop	🗌 🗹 🗌 🔄 🔄 🔄 🔄 🔄 🔄 DT400-8755 DCC_128_SS_Adv 48:01.786	Sort Order
4	Common	35	2 Forward	SubMember	C C_128_SS 48:01.880	Consist 🗾 👻
6	Common	31	2 Forward	SubMember	□ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □	
27	Common	393	2 Forward	SubMember	DT400-8755 DCC_128_SS_Adv 48:02.958	#Slot relevant
5	Common	400	2 Forward	MidConsist	DCC_128_SS_Adv 48:01.927	Messages
7	Common	45	5 Forward	SubMember	CC_128_SS 48:02:200	272
1	Common	12 212/Re460 SF-DRS I	30 Forward	NoConsist	C C_128_SS 48:01.739	
3	InUse	55	0 Forward	NoConsist	DT400-8755 DCC_128_SS 51:25:500	Refresh all Slots
8	Idle	3	0 Forward	NoConsist	L L L L L L L L DCS50 · 10880 DCC_128_SS 48:02.670	
9	InUse	7 207/BLS Re465 Jungfraujoch	124 Forward	NoConsist	□ M □ M M □ □ □ □ □ □ □ DT400-8755 DCC_128_SS_Adv 51:23.200 F	▼ F0-F8 ▼ F9-F12
10	Idle	5U 25U/Schleitwagen	U Forward	NoConsist	DCC_128_SS 48:02.161	🗹 Zone 🔽 Spd.Stp
11	InUse	6 206/TellIbraun	U Heverse	NoConsist		
						Volue alternated
						value changed
						Slot released
						Double Adress
						Speed <> U, slot is idle
						Slot Stress Test
						Start Stop
						Nr of slots
						10
						Stop all Loks
						stop un corto
						Allocate Loc's
						Helease Loc's
<u><</u>					>	

3.9 ALM Editor

🎯 ALM dB				
Locomotive	•			Export Import
Туре	ld 🔺	Adr	Description	Comment
Locomoti	/e 200	2	RE465	
Locomoti	/e 205	5	Te III rot	
Locomoti	/e 206	6	Te III braun	
Locomoti	/e 207	7	BLS Re465 Jungfraujoch	
Locomoti	/e 211	11	Re460 TCS	
Locomoti	/e 212	12	Re460 SF-DRS I	
Locomoti	/e 213	13	Re469 SF-DRS II	
Locomoti	/e 214	14	RE460 SF1	
Locomoti	/e 215	15	SBahn	
Locomoti	/e 219	19	Roter Pfeil	
Locomoti	/e 220	20	Re 6/6 Ziegelbruecke	
Locomoti	/e 221	21	BLS Re465 Schilthorn	
Locomoti	/e 222	22	BR 18.201 Elegance	
Locomoti	/e 225	25	SOB Re 4/4	
Locomoti	/e 226	26	Re 6/6 Cargo	
Locomoti	/e 230	30	BLS Re465 Schilthorn	
Locomoti	/e 233	33	BLS	
Locomoti	/e 244	44	Re6/6 Cargo	
Locomoti	/e 250	50	Schleifwagen	
Locomoti	/e 251	51	Staubsauger	
Туре	ld	Adr 0	Description	Comment Insert Delete

This editor allows the entering of "text" for switch numbers, zone number, locomotives, etc. The names are then displayed in the slot monitor or other screens.

3.10 DS54

This screen allows the manual entering of the connected DS54 boards.

😻 SettingDS	\$54													
DS54 bo	DS54 board address assignment Note: Enter first switch number of each board													
	Empty = not used													
	New Settings need a restart of the application!													
#1/2		# 25/26		# 49/50		# 73/74								
# 3/4		# 27/28		# 51/52		# 75/76								
# 5/6		# 29/30		# 53/54		# 77 <i>1</i> 78								
# 7 <i>1</i> 8		# 31/32		# 55/56		# 79/80								
#9/10		# 33/34		# 57/58		# 81 <i>1</i> 82								
#11/12		# 35/36		# 59/60		# 83/84								
#13/14		# 37/38		# 61 <i>1</i> 62		# 85/86								
#15/16		# 39/40		# 63/64		# 87 <i>1</i> 88								
#17/18		# 41/42		# 65/66		# 89/90								
# 19/20		# 43/44		# 67 <i>1</i> 68		# 91/92								
# 21/22		# 45/46		# 69/70		# 93/94								
# 23/24		# 47/48		#71/72		# 95/96								
No con	nplete checks for	correct data er	itered!											

3.12 Loconet-Viewer

This screen allows the display of the ongoing LocoNet messages. There is a possibility for filtering as well.

🙆 LoconetVi	iewer						
OpCode	Description	Parameters	BDL	Stat	Raw Hex	Msg#	Time
LOCO_SPD	Speed change	Slot=11 Spd=9			A0 0B 09 5D	3427	53:10.200
LOCO_SPD	Speed change	Slot=11 Spd=21			A0 0B 15 41	3428	53:10.208
LOCO_SPD	Speed change	Slot=11 Spd=2			A0 0B 02 56	3429	53:10.411
LOCO_SPD	Speed change	Slot=11 Spd=23			A0 0B 17 43	3430	53:10.599
LOCO_SPD	Speed change	Slot=11 Spd=2			A0 0B 02 56	3431	53:10.802
LOCO_SPD	Speed change	Slot=11 Spd=0			A0 0B 00 54	3432	53:10.989
SW_REQ	Switch change	Num=78 Dir=Closed Key=0			B0 4D 30 32	3433	53:11.817
SW_REQ	Switch change	Num=78 Dir=Closed Key=Of			B0 4D 20 22	3434	53:11.927
SW_REQ	Switch change	Num=78 Dir=Thrown Key=0			B0 4D 10 12	3435	53:12.520
SW_REQ	Switch change	Num=78 Dir=Thrown Key=Of			B0 4D 00 02	3436	53:12.192
SW_REQ	Switch change	Num=78 Dir=Closed Key=0			B0 4D 30 32	3437	53:12.333
SW_REQ	Switch change	Num=78 Dir=Closed Key=Of			B0 4D 20 22	3438	53:12.427
SW_REQ	Switch change	Num=/8 Dir=1 hrown Key=U			BU 4D 10 12	3439	53:12:536
SW_REQ	Switch change	Num=78 Dir=1 hrown Key=Ur			B0 4D 00 02	3440	53:12.645
SW_REQ	Switch change	Num=78 Dir=Closed Key=U			BU 4D 3U 32	3441	53:12.786
SW_REQ	Switch change	Num=78 Dir=Closed Key=Uf			BU 4D 20 22	3442	53:12.880
•							>
#Msg: 16	Filter: Off						1.

This shows the additional commands available after a right mouse click:



Here the detail screen for filtering:





The status bar indicates if filtering is enabled

	•		
ľ	#Msg: 21	Filter: ON	Messages Frozen

The status bar also indicates, if the LocoNet messages are frozen (no new messages are displayed)

Together with the DCC-Pocket Tester from PRICOM

((<u>http://www.pricom.com/Trains/DCCTester.html</u>) the DCC messages are displayed as well. Even the LocoNet messages and the DCC messages can be displayed at the same time together.

The DCC-Viewer can run alone without a LocoNet-interface.

DCCVi	iewer						
Msg#	Time	CMD	Adr	Detail		DCCMsg	
2	18:16:28.312	Speed	31	Speed: 16 Spe	eedStep: 128	ADR= 031 CMD=Speed	STP=128 DIR=Rev SPE
}	18:16:28.328	Speed	88	Speed: 36 Spe	eedStep: 128	ADR= 088 CMD=Speed	STP=128 DIR=Rev SPD
Ļ	18:16:28.328	Speed	46	Speed: 43 Spe	eedStep: 128	ADR= 046 CMD=Speed	STP=128 DIR=Rev SPD
i	18:16:28.343	Speed	85	Speed: 17 Spe	eedStep: 128	ADR= 085 CMD=Speed	STP=128 DIR=Fwd SPD
	18:16:28.343	Speed	14	Speed: Stop Sp	peedStep: 128	ADR= 014 CMD=Speed	STP=128 DIR=Fwd SPD
	18:16:28.359	FuncF5F8	31	F5: Off F6: Off F	7: Off F8: On	ADR= 031 CMD=Function	on GRP=F5-8 VAL=0001
	18:16:28.375	FuncF5F8	88	F5: Off F6: Off F	7: Off F8: Off	ADR= 088 CMD=Functi	on GRP=F5-8 VAL=0000
0	18:16:28.375	FuncF5F8	46	F5: Off F6: Off F	7: Off F8: Off	ADR= 046 CMD=Functi	on GRP=F5-8 VAL=0000
1	18:16:28.375	FuncF5F8	85	F5: Off F6: Off F	7: Off F8: Off	ADR= 085 CMD=Functi	on GRP=F5-8 VAL=0000
2	18:16:28.390	FuncF5F8	14	F5: Off F6: Off F	7: Off F8: Off	ADR= 014 CMD=Functi	on GRP=F5-8 VAL=0000
7	18:16:28:546	EuroE0E4	31	FO On F1 Off F	2: Off E3: Off E4: Off	ADB= 031 CMD=Function	on GBP=E0-4 VAL=00000
8	18:16:28:546	FuncE0E4	88	FO On F1 Off F	52: Off E3: On E4: Off	ADB= 088 CMD=Function	on GBP=F0-4 VAL=00010
9	18:16:28:546	EuncE0E4	46	FO: On F1: Off F	E2: Off E3: Off E4: Off	ADB= 046 CMD=Euncti	on GBP=F0-4 VAI =00000
ñ	18:16:28:562	EuncE0E4	85	FO: On F1: Off F	2: Off F3: Off F4: Off	ADB= 085 CMD=Euncti	on GBP=F0-4 VAI =00000
1	18:16:28 562	FuncE0E4	14	F0: On F1: Off F	2:011 F3:011 F4:011	ADB= 014 CMD=Function	on GBP=E0-4 VAL=00000
82	18-16-58 796	Accesson	100	Switch: Closed		SW RED	511 anii -1 0 4 VAE-00000
93 93	19:16:59 912	Accessi	100	Switch: Closed/N			eru VAL-Closed/N(ON) AC
03	10.10.30.012	Accessiy	100	Switch: Closed/N	ION) Action	ADR-0100 CMD-Acces	ssiy VAL-Closed/N(ON) AC
04	10.10.30.020	Accessiy	100	Switch: Closed/N		SW PEO	ssiy VAL-Closed/In(OIN) Ac
00	10.10.50.000	Accessory	100	Switch, Closed		ADD-0100 CMD-Acces	www.htel_Classed/NICOND_AC
00	10.10.300	Accessiy	100	Switch, Closed/N	I(ON) ACLOFF	ADR-0100 CMD-Acces	SSIV VALECIOSEU/N(ON) AU
89	18:16:58.968	Accessiy	100	Switch: Closed/			
i89 •	18:16:58.968	Accessty	100	JWIICH, Closed/M			
89 I	18:16:58.968	Accessry	3 F4 F5	F6 F7 F8 F9 F1	0 F11 F12 #Msg	Switch A State	Act #Msg
89 I dr# ▲ 14	18:16:58.968	Accessry	3 F4 F5	F6 F7 F8 F9 F1	0 F11 F12 #Msg	Switch A State	Act #Msg
89 dr# ▲ 14 31	18:16:58.968 Speed SpeedSI Stop 1 16 1	Accessry tep Dir F0 F1 F2 F 28 Fwd 28 Rev	3 F4 F5	F6 F7 F8 F9 F1	0 F11 F12 #Msg	Switch A State	Act #Msg OFF 6
89 dr# ▲ 14 31	18:16:58.968 Speed SpeedSI Stop 1 16 1 42 1	Accessry tep Dir F0 F1 F2 F 28 Fwd	3 F4 F5	F6 F7 F8 F9 F1	0 F11 F12 #Msg 0 C F11 F12 #Msg 0 C C C C C C C C C C C C C C C C C C C	Switch State	Act #Msg OFF 6
89 dr# ▲ 14 31 46	18:16:58.968 Speed SpeedSI Stop 1 16 1 43 1	Accessry tep Dir F0 F1 F2 F 28 Fwd	3 F4 F5	F6 F7 F8 F9 F1	0 F11 F12 #Msg 	Switch A State	Act #Msg OFF 6
89 dr# ▲ 14 31 46 85	18:16:58.968 Speed SpeedSt Stop 1 16 1 43 17 17 1	Accessry tep Dir F0 F1 F2 F 28 Fwd 28 Rev 28 Rev	3 F4 F5	F6 F7 F8 F9 F1	0 F11 F12 #Msg 	Switch A State	Act #Msg OFF 6
89 Jr# ▲ 14 31 46 85 88	Speed SpeedSI Stop 1 16 1 43 1 17 1 36 1	Accessry tep Dir F0 F1 F2 F 28 Fwd <	3 F4 F5	F6 F7 F8 F9 F1 □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □	0 F11 F12 #Msg 0 C F11 C 2 3 0 C 2 3	Switcł A State	Act #Msg OFF 6
89 dr#▲ 14 31 46 85 88	Speed SpeedSl Stop 1 16 1 43 1 17 1 36 1	Accessry tep Dir F0 F1 F2 F 28 Fwd	3 F4 F5	F6 F7 F8 F9 F1	0 F11 F12 #Msg 0 G1	Switcł A State	Act #Msg OFF 6
89 dr# ▲ 14 31 46 85 88	Speed SpeedSt Stop 1 16 1 43 1 17 1 36 1	Accessry tep Dir F0 F1 F2 F 28 Fwd	3 F4 F5 2	F6 F7 F8 F9 F1	0 F11 F12 #Msg 0 F11 F12 #Msg 0 G G G G G G G G G G G G G G G G G G G	Switch State	Act #Msg OFF 6
39 14 14 31 46 85 88	Speed SpeedSI Stop 1 16 1 43 1 17 1 36 1	Accessry tep Dir F0 F1 F2 F 28 Fwd	3 F4 F5	F6 F7 F8 F9 F1	0 F11 F12 #Msg 	Switch State	Act #Msg OFF 6
39 14 14 31 46 85 88	Speed SpeedSI Stop 1 16 1 43 1 17 1 36 1	Accessry tep Dir F0 F1 F2 F 28 Fwd	3 F4 F5 	F6 F7 F8 F9 F1 □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □	0 F11 F12 #Msg 	Switch A State	Act #Msg OFF 6
39 dr# • 14 31 46 85 88	Speed SpeedSI Stop 1 16 1 43 1 17 1 36 1	Accessry tep Dir F0 F1 F2 F 28 Fwd	3 F4 F5 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	F6 F7 F8 F9 F1 □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □	0 F11 F12 #Msg 	Switcł A State	Act #Msg OFF 6
89 dr# 14 14 31 46 85 88	Speed SpeedSl Stop 1 16 1 43 1 17 1 36 1	Accessry tep Dir F0 F1 F2 F 28 Fwd	3 F4 F5	F6 F7 F8 F9 F1	0 F11 F12 #Msg 0 G1	Switcł A State	Act #Msg OFF 6
89 dr# 4 14 31 46 85 88	Speed SpeedSt Stop 1 16 1 43 1 17 1 36 1	Accessry tep Dir F0 F1 F2 F 28 Rev	3 F4 F5	F6 F7 F8 F9 F1	0 F11 F12 #Msg 	Switch A State 100 Closed/N(DN)	Act #Msg OFF 6
dr# ▲ 14 31 46 85 88	18:16:58.968 Speed SpeedSI Stop 1 16 1 43 1 17 1 36 1	Accessry tep Dir F0 F1 F2 F 28 Fwd	3 F4 F5 	F6 F7 F8 F9 F1 □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □	0 F11 F12 #Msg 	Switch State 100 Closed/N(ON)	Act #Msg OFF 6
4 dr# 4 14 31 46 85 88	18:16:58.968 Speed SpeedSI Stop 1 16 1 43 1 17 1 36 1	Accessry tep Dir F0 F1 F2 F 28 Fwd	3 F4 F5 2	F6 F7 F8 F9 F1 □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □	0 F11 F12 #Msg 	Switch A State 100 Closed/N(ON)	Act #Msg OFF 6
89 dr# ▲ 14 31 46 85 88	I8:16:58.968 Speed SpeedSI Stop 1 16 1 43 1 17 1 36 1	Accessry tep Dir F0 F1 F2 F 28 Fev	3 F4 F5 0	F6 F7 F8 F9 F1 □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □	0 F11 F12 #Msg 	Switcł A State	Act #Msg OFF 6
89 dr# ▲ 14 31 46 85 88	Speed SpeedSI Stop 1 16 1 43 1 17 1 36 1	Accessry tep Dir F0 F1 F2 F 28 Fwd	3 F4 F5	F6 F7 F8 F9 F1	0 F11 F12 #Msg 0 G1	Switch State 100 Closed/N(DN)	Act #Msg OFF 6
89 dr# • 14 31 46 85 88	Speed SpeedSt Stop 1 16 1 43 1 17 1 36 1	Accessry tep Dir F0 F1 F2 F 28 Fwd	3 F4 F5 	F6 F7 F8 F9 F1 □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □	0 F11 F12 #Msg 	Switch State 100 Closed/N(ON)	Act #Msg OFF 6
89 dr# • 14 31 46 85 88	Speed SpeedSt Stop 1 16 1 43 1 17 1 36 1	Accessry tep Dir F0 F1 F2 F 28 Fwd	3 F4 F5 	F6 F7 F8 F9 F1	0 F11 F12 #Msg 	Switch State 100 Closed/N(ON)	Act #Msg OFF 6

Note: There is detailed screen for "Decoder-Commands" and "Accessory-Commands"

These shows the detailed messages for a decoder (double click):

٩	DCC Messages for Decoder	addre	ss 7			X
1	Time: 22:56:24.724 Msg#:	9	Command: Speed	Speed: 124 SpeedStep: 128	Direction: Fwd	Type: DCC
2	Time: 22:56:25.208 Msg#:	14	Command: FuncF0F4	F0: Off F1: On F2: Off F3: On		Type: DCC
3	Time: 22:58:32.645 Msg#:	76	Command: Speed	Speed: 125 SpeedStep: 128	Direction: Fwd	Type: DCC
4	Time: 22:58:32.864 Msg#:	77	Command: Speed	Speed: 126 SpeedStep: 128	Direction: Fwd	Type: DCC
5	Time: 22:58:33.192 Msg#:	78	Command: Speed	Speed: 125 SpeedStep: 128	Direction: Fwd	Type: DCC
6	Time: 22:58:33.239 Msg#:	79	Command: Speed	Speed: 124 SpeedStep: 128	Direction: Fwd	Type: DCC
7	Time: 22:58:33.520 Msg#:	80	Command: Speed	Speed: 125 SpeedStep: 128	Direction: Fwd	Type: DCC
8	Time: 22:58:33.552 Msg#:	81	Command: Speed	Speed: 126 SpeedStep: 128	Direction: Fwd	Type: DCC
9	Time: 22:58:33.739 Msg#:	82	Command: Speed	Speed: 125 SpeedStep: 128	Direction: Fwd	Type: DCC
10	Time: 22:58:33.802 Msg#:	83	Command: Speed	Speed: 124 SpeedStep: 128	Direction: Fwd	Type: DCC
11	Time: 22:58:34.200 Msg#:	84	Command: Speed	Speed: 125 SpeedStep: 128	Direction: Fwd	Type: DCC
12	Time: 22:58:34.670 Msg#:	85	Command: Speed	Speed: 126 SpeedStep: 128	Direction: Fwd	Type: DCC
13	Time: 22:58:34.255 Msg#:	86	Command: Speed	Speed: 125 SpeedStep: 128	Direction: Fwd	Type: DCC
14	Time: 22:58:34.333 Msg#:	87	Command: Speed	Speed: 124 SpeedStep: 128	Direction: Fwd	Type: DCC
15	Time: 22:58:39.989 Msg#:	88	Command: FuncF0F4	F0: Off_F1: On_F2: Off_F3: On		Type: DCC
16	Time: 22:58:41.670 Msg#:	89	Command: FuncF5F8	F5: Off_F6: Off_F7: Off_F8: On		Type: DCC
17	Time: 22:58:41.520 Msg#:	90	Command: FuncF9F12	F9: On F10: Off F11: Off F12: On		Type: DCC
18	Time: 22:58:42.849 Msg#:	91	Command: Speed	Speed: 125 SpeedStep: 128	Direction: Fwd	Type: DCC
19	Time: 22:58:42.895 Msg#:	92	Command: Speed	Speed: 126 SpeedStep: 128	Direction: Fwd	Type: DCC

These shows the detailed messages for a switch (double click):

1 Msgitt 22 Time: 55:49.864 Status: Thrown/RIOFF) ActON Type: LocoNet 2 Msgitt 35 Time: 22:56:52:233 Status: Thrown/RIOFF) ActON Type: DCC 4 Msgitt 36 Time: 22:56:52:233 Status: Thrown/RIOFF) ActOF Type: DCC 5 Msgitt 38 Time: 22:56:52:333 Status: Thrown/RIOFF) ActOFF Type: DCC 6 Msgitt 40 Time: 52:55:55 Status: Closed/NION1 ActOFF Type: DCC 7 Msgitt 41 Time: 22:56:52:50 Status: Closed/NION1 ActOFF Type: DCC 10 Msgitt 43 Time: 22:56:52:61 status: Closed/NION1 ActOFF Type: DCC 11 Msgitt 44 Time: 22:56:52:63 status: Closed/NION1 ActOFF Type: DCC 12 Msgitt 44 Time: 22:56:52:63 status: Closed/NION1 ActOFF Type: DCC 13 Msgitt 45 Time: 22:56:52:63 status: Closed/NION1 ActOFF Type: DCC 14 Msgitt 46 Time: 22:56:52:63 status: Closed/NION1 ActOFF Type: DCC <th>🔍 D</th> <th>CC Messag</th> <th>jes fo</th> <th>r SwitchNr 54</th> <th>\mathbf{X}</th>	🔍 D	CC Messag	jes fo	r SwitchNr 54	\mathbf{X}
2 Msgtt 35 Time: 22:56:52:243 Status: Thrown/RIOFF) ActON Type: DCC 4 Msgtt 37 Time: 25:65:233 Status: Thrown/RIOFF) ActOFF Type: LocoNet 5 Msgtt 38 Time: 22:56:52:333 Status: Thrown/RIOFF) ActOFF Type: LocoNet 6 Msgtt 31 Time: 22:56:52:333 Status: Thrown/RIOFF) ActOFF Type: LocoNet 7 Msgtt 40 Time: 22:56:52:333 Status: Closed/NIONI ActOFF Type: DCC 7 Msgtt 41 Time: 22:56:52:303 Status: Closed/NIONI ActOFF Type: DCC 9 Msgtt 42 Time: 22:56:52:603 Status: Closed/NIONI ActOFF Type: DCC 10 Msgtt 44 Time: 22:56:26:30 Status: Closed/NIONI ActOFF Type: DCC 12 Msgtt 45 Time: 22:56:20 Status: Closed/NIONI ActOFF Type: DCC 13 Msgtt 44 Time: 22:56:20 Status: Closed/NIONI ActOFF Type: DCC 14 Msgtt 45 Time: 22:58:01:36: Status: Closed/NIONI ActOFF Type: DCC 14 Msgtt 51 Tim	1	Msg#:	22	Time: 56:49.864 Status: Thrown/R(OFF) Act:ON Type: LocoNet 🔨
3 Msg# 36 Time: 2256:2233 Status: Thrown/FI(OFF) ActDN Type: DCC 5 Msg# 37 Time: 56:52:333 Status: Thrown/FI(OFF) ActDFF Type: DCC 6 Msg# 40 Time: 52:52:333 Status: Closed/N(IN) ActDN Type: DCC 7 Msg# 41 Time: 52:52:52:52:52:52:52:52:52:52:52:52:52:5	2	Msg#:	35	Time: 22:56:52.224 Status: Thrown/R(OF)) Act:ON Type: DCC
4 Msg#: 37 Time: 56:52:317 Status: Thrown/RIOFF ActOFF Type: LocoNet 5 Msg#: 38 Time: 22:56:52:333 Status: Thrown/RIOFF ActOFF Type: DCC 7 Msg#: 40 Time: 56:52:505 Status: Closed/NION ActON Type: DCC 9 Msg#: 41 Time: 56:52:505 Status: Closed/NION ActON Type: DCC 9 Msg#: 42 Time: 56:52:505 Status: Closed/NION ActOFF Type: DCC 11 Msg#: 44 Time: 56:52:505 Status: Closed/NION ActOFF Type: DCC 12 Msg#: 44 Time: 22:56:52:505 Status: Closed/NION ActOFF Type: DCC 13 Msg#: 45 Time: 22:56:2:630 Status: Closed/NION ActOFF Type: DCC 13 Msg#: 46 Time: 22:58:01:442 Status: Closed/NION ActOFF Type: DCC 14 Msg#: 47 Time: 22:58:01:535 Status: Closed/NION ActOFF Type: DCC 16 Msg#: 51 Time: 22:58:01:535 Status: Closed/NION ActOFF Type: DCC 17 Msg#: 51 Time: 22:58:01:565 Status:	3	Msg#:	36	Time: 22:56:52.239 Status: Thrown/R(OFf) Act:ON Type: DCC
5 MsgH: 38 Time: 22:56:52:33 Status: Thrown/R[OFF] Act OFF Type: DCC 7 MsgH: 40 Time: 25:56:52:30 Status: Closed/N[ON] Act ON Type: DCC 8 MsgH: 41 Time: 22:56:52:50 Status: Closed/N[ON] Act ON Type: DCC 10 MsgH: 42 Time: 22:56:52:50 Status: Closed/N[ON] Act ON Type: DCC 11 MsgH: 43 Time: 22:56:52:50 Status: Closed/N[ON] Act OFF Type: DCC 12 MsgH: 44 Time: 22:56:52:60 Status: Closed/N[ON] Act OFF Type: DCC 12 MsgH: 45 Time: 22:56:52:60 Status: Closed/N[ON] Act OFF Type: DCC 13 MsgH: 46 Time: 22:56:01:42 Status: Closed/N[ON] Act ON Type: DCC 14 MsgH: 47 Time: 22:58:01:474 Status: Closed/N[ON] Act OFF Type: DCC 15 MsgH: 50 Time: 22:58:01:567 Status: Closed/N[ON] Act OFF Type: DCC 16 MsgH: 51 Time: 22:58:01:567 Status: Closed/N[ON] Act OFF Type: DCC 18 MsgH: 53 Time: 22:58:01:567 Status: Closed/N[ON] Act OFF Type: DCC 20 MsgH: 55 Time: 82:58:02:200	4	Msg#:	37	Time: 56:52.317 Status: Thrown/R(OF)) Act:OFF Type: LocoNet
6 Msg#: 40 Time: 22:56:52:303 Status: Thrown/R(DFT) Act:DFT Type: LocoNet 8 Msg#: 41 Time: 22:56:52:505 Status: Closed/N(DN) Act:DN Type: DCC 9 Msg#: 42 Time: 25:65:25:20 Status: Closed/N(DN) Act:DN Type: DCC 10 Msg#: 43 Time: 25:65:25:20 Status: Closed/N(DN) Act:DFT Type: DCC 11 Msg#: 44 Time: 22:56:52:63 Status: Closed/N(DN) Act:DFT Type: DCC 12 Msg#: 45 Time: 22:56:26:30 Status: Closed/N(DN) Act:DFT Type: LocoNet 13 Msg#: 46 Time: 22:58:01:474 Status: Closed/N(DN) Act:DFT Type: LocoNet 14 Msg#: 48 Time: 22:58:01:52 Status: Closed/N(DN) Act:DFT Type: LocoNet 15 Msg#: 51 Time: 22:58:01:52 Status: Closed/N(DN) Act:DFT Type: DCC 16 Msg#: 53 Time: 22:58:01:49 Status: Closed/N(DN) Act:DFT Type: DCC 18 Msg#: 53 Time: 22:58:01:49 Status: Thrown/R(DFF) Act:DN Type: DCC 21 Msg#: 54 <td< td=""><td>5</td><td>Msg#:</td><td>38</td><td>Time: 22:56:52.333 Status: Thrown/R(OF)</td><td>) Act:OFF Type: DCC</td></td<>	5	Msg#:	38	Time: 22:56:52.333 Status: Thrown/R(OF)) Act:OFF Type: DCC
7 Msgft: 40 Time: 56:52:05 Status: Closed/N(ION) Act:ON Type: DCC 9 Msgft: 42 Time: 22:56:52:52 Status: Closed/N(ION) Act:ON Type: DCC 10 Msgft: 43 Time: 56:52:50 Status: Closed/N(ION) Act:OF Type: DCC 11 Msgft: 44 Time: 22:56:52:61 Status: Closed/N(ION) Act:OF Type: DCC 12 Msgft: 45 Time: 22:56:52:61 Status: Closed/N(ION) Act:OF Type: DCC 13 Msgft: 46 Time: 22:56:01:441 Status: Closed/N(ION) Act:ON Type: DCC 14 Msgft: 47 Time: 22:58:01:474 Status: Closed/N(ION) Act:ON Type: DCC 15 Msgft: 48 Time: 22:58:01:567 Status: Closed/N(ION) Act:OF Type: DCC 16 Msgft: 50 Time: 22:58:01:567 Status: Closed/N(ION) Act:OF Type: DCC 17 Msgft: 51 Time: 22:58:01:567 Status: Closed/N(ION) Act:OF Type: DCC 18 Msgft: 52 Time: 22:58:01:567 Status: Closed/N(ION) Act:OF Type: DCC 19 Msgft: 53 Time:	6	Msg#:	39	Time: 22:56:52.333 Status: Thrown/R(OF)) Act:OFF Type: DCC
8 Msgft: 41 Time: 22:56:52:20 Status: Closed/N(ION) Act:DN Type: DCC 10 Msgft: 43 Time: 56:55:20 Status: Closed/N(ION) Act:DF Type: DCC 11 Msgft: 44 Time: 22:56:52:63 Status: Closed/N(ION) Act:DF Type: DCC 12 Msgft: 44 Time: 22:56:52:63 Status: Closed/N(ION) Act:DF Type: DCC 13 Msgft: 44 Time: 22:56:01:41 Status: Closed/N(ION) Act:DN Type: DCC 14 Msgft: 44 Time: 22:58:01:421 Status: Closed/N(ION) Act:DN Type: DCC 16 Msgft: 49 Time: 22:58:01:452 Status: Closed/N(ION) Act:DF Type: DCC 16 Msgft: 51 Time: 22:58:01:562 Status: Closed/N(ION) Act:DF Type: DCC 18 Msgft: 52 Time: 58:01:583 Status: Closed/N(ION) Act:DF Type: DCC 19 Msgft: 54 Time: 22:58:01:843 Status: Thrown/R(IOFF) Act:DF Type: DCC 21 Msgft: 54 Time: 22:58:02:200 Status: Thrown/R(IOFF) Act:DF Type: DCC 22 Msgft: 55 Time: 22:58:02:200 Status: Thrown/R(IOFF) Act:DF Type: DCC 24 Msgft: 56 T	7	Msg#:	40	Time: 56:52.505 Status: Closed/N(ON)	Act:ON Type: LocoNet
9 Msg#: 42 Time: 2256:52520 Status: Closed/N(0N) Act:OFF Type: DCC 11 Msg#: 44 Time: 2256:52593 Status: Closed/N(0N) Act:OFF Type: DCC 12 Msg#: 45 Time: 2256:52603 Status: Closed/N(0N) Act:OFF Type: DCC 13 Msg#: 46 Time: 2256:526:03 Status: Closed/N(0N) Act:OFF Type: DCC 14 Msg#: 47 Time: 2256:01:442 Status: Closed/N(0N) Act:OFF Type: LocoNet 14 Msg#: 47 Time: 2258:01:474 Status: Closed/N(0N) Act:OFF Type: DCC 16 Msg#: 49 Time: 52:58:01:474 Status: Closed/N(0N) Act:OFF Type: DCC 17 Msg#: 50 Time: 22:58:01:552 Status: Closed/N(0N) Act:OFF Type: DCC 18 Msg#: 51 Time: 22:58:01:843 Status: Thrown/R(0FF) Act:ON Type: DCC 19 Msg#: 55 Time: 32:58:01:843 Status: Thrown/R(0FF) Act:ON Type: DCC 21 Msg#: 55 Time: 32:58:01:843 Status: Thrown/R(0FF) Act:ON Type: DCC 22 Msg#: 55 Time: 32:58:02:202 Status: Thrown/R(0FF) Act:ON Type: DCC 24 Msg#: 56 Time: 32:58	8	Msg#:	41	Time: 22:56:52.520 Status: Closed/N(ON)	Act:ON Type: DCC
10 Msg#: 43 Time: 56:52:593 Status: Closed/N(ON) Act:OFF Type: DCC 11 Msg#: 45 Time: 22:56:52:63 Status: Closed/N(ON) Act:OFF Type: DCC 12 Msg#: 45 Time: 22:56:52:63 Status: Closed/N(ON) Act:OFF Type: DCC 13 Msg#: 47 Time: 22:56:52:63 Status: Closed/N(ON) Act:OFF Type: DCC 14 Msg#: 48 Time: 22:58:01:42: Status: Closed/N(ON) Act:OFF Type: DCC 15 Msg#: 48 Time: 22:58:01:52: Status: Closed/N(ON) Act:OFF Type: DCC 16 Msg#: 51 Time: 22:58:01:55: Status: Closed/N(ON) Act:OFF Type: DCC 18 Msg#: 51 Time: 22:58:01:58: Status: Closed/N(ON) Act:OFF Type: DCC 19 Msg#: 53 Time: 22:58:01:84: Status: Thrown/R(OFF) Act:ON Type: DCC 21 Msg#: 54 Time: 22:58:01:84: Status: Thrown/R(OFF) Act:ON Type: DCC 22 Msg#: 54 Time: 22:58:01:85: Status: Thrown/R(OFF) Act:ON Type: DCC 23 Msg#: 56 Time: 22:58:02:200 Status: Thrown/R(OFF) Act:OFF Type: Loc:ONet 23 Msg#: 57	9	Msg#:	42	Time: 22:56:52.520 Status: Closed/N(ON)	Act:ON Type: DCC
11 Msg#: 44 Time: 22:56:52:614 Status: Closed/N(0N) Act:0FF Type: DCC 12 Msg#: 45 Time: 22:56:52:630 Status: Closed/N(0N) Act:0N Type: DCC 13 Msg#: 46 Time: 58:01.411 Status: Closed/N(0N) Act:0N Type: DCC 14 Msg#: 47 Time: 22:58:01.442 Status: Closed/N(0N) Act:0N Type: DCC 16 Msg#: 49 Time: 22:58:01.56 Status: Closed/N(0N) Act:0FF Type: DCC 16 Msg#: 50 Time: 22:58:01.552 Status: Closed/N(0N) Act:0FF Type: DCC 17 Msg#: 50 Time: 22:58:01.552 Status: Closed/N(0N) Act:0FF Type: DCC 18 Msg#: 51 Time: 22:58:01.843 Status: Thrown/R(0FF) Act:0N Type: DCC 19 Msg#: 53 Time: 22:58:01.843 Status: Thrown/R(0FF) Act:0N Type: DCC 20 Msg#: 56 Time: 22:58:02.200 Status: Thrown/R(0FF) Act:0FF Type: DCC 21 Msg#: 56 Time: 22:58:02.270 Status: Closed/N(0N) Act:0FF Type: DCC 22 Msg#: 57 Time: 22:58:02.270 Status: Closed/N(0N) Act:0FF Type: DCC 24 Msg#	10	Msg#:	43	Time: 56:52.599 Status: Closed/N(ON)	Act:OFF Type: LocoNet
12 Msg#: 45 Time: 2256:2630 Status: Closed/N(0N) ActOFF Type: LocoNet 13 Msg#: 47 Time: 2258:01.442 Status: Closed/N(0N) ActON Type: DCC 14 Msg#: 48 Time: 2258:01.474 Status: Closed/N(0N) ActON Type: LocoNet 15 Msg#: 49 Time: 2258:01.562 Status: Closed/N(0N) ActOFF Type: LocoNet 16 Msg#: 50 Time: 2258:01.562 Status: Closed/N(0N) ActOFF Type: LocoNet 17 Msg#: 51 Time: 2258:01.562 Status: Closed/N(0N) ActOFF Type: LocoNet 18 Msg#: 52 Time: 80:01.803 Status: Thrown/R(0FF) ActON Type: LocoNet 20 Msg#: 53 Time: 2258:01.864 Status: Thrown/R(0FF) ActON Type: DCC 21 Msg#: 54 Time: 2258:02.200 Status: Thrown/R(0FF) ActOFF Type: DCC 22 Msg#: 57 Time: 2258:02.200 Status: Thrown/R(0FF) ActOFF Type: DCC 23 Msg#: 58 Time: 2258:02.200 Status: Closed/N(0N) ActOFF Type: DCC 24 Msg#: 58 Time: 2258:02.270 <td>11</td> <td>Msg#:</td> <td>44</td> <td>Time: 22:56:52.614 Status: Closed/N(ON)</td> <td>Act:OFF Type: DCC</td>	11	Msg#:	44	Time: 22:56:52.614 Status: Closed/N(ON)	Act:OFF Type: DCC
13 Msg#: 46 Time: 82:01.411 Status: Closed/N(I0N) ActON Type: LocoNet 14 Msg#: 48 Time: 22:58:01.424 Status: Closed/N(I0N) ActON Type: DCC 15 Msg#: 49 Time: 22:58:01.425 Status: Closed/N(I0N) ActOFF Type: DCC 16 Msg#: 50 Time: 22:58:01.567 Status: Closed/N(I0N) ActOFF Type: DCC 18 Msg#: 51 Time: 22:58:01.967 Status: Thown/R(IDFF) ActON Type: LocoNet 19 Msg#: 52 Time: 88:01.833 Status: Thown/R(IDFF) ActON Type: LocoNet 20 Msg#: 54 Time: 22:58:01.864 Status: Thown/R(IDFF) ActON Type: LocoNet 21 Msg#: 55 Time: 88:01.389 Status: Thown/R(IDFF) ActOFF Type: LocoNet 22 Msg#: 56 Time: 22:58:02.000 Status: Thown/R(IDFF) ActOFF Type: LocoNet 23 Msg#: 58 Time: 22:58:02.200 Status: Thown/R(IDFF) ActOFF Type: LocoNet 24 Msg#: 58 Time: 22:58:02.200 Status: Closed/N(ION) ActON Type: LocoNet 25 Msg#: 61 </td <td>12</td> <td>Msg#:</td> <td>45</td> <td>Time: 22:56:52.630 Status: Closed/N(ON)</td> <td>Act:OFF Type: DCC</td>	12	Msg#:	45	Time: 22:56:52.630 Status: Closed/N(ON)	Act:OFF Type: DCC
14 Msg#: 47 Time: 22:58:01.442 Status: Closed/N(0N) Act:0N Type: DCC 15 Msg#: 48 Time: 22:58:01.474 Status: Closed/N(0N) Act:0N Type: DCC 16 Msg#: 50 Time: 22:58:01.552 Status: Closed/N(0N) Act:0FF Type: DCC 18 Msg#: 51 Time: 22:58:01.567 Status: Closed/N(0N) Act:0FF Type: DCC 19 Msg#: 52 Time: 58:01.833 Status: Thrown/R(0FF) Act:0N Type: DCC 20 Msg#: 53 Time: 22:58:01.849 Status: Thrown/R(0FF) Act:0N Type: DCC 21 Msg#: 55 Time: 58:01.983 Status: Thrown/R(0FF) Act:0N Type: DCC 22 Msg#: 56 Time: 22:58:02.200 Status: Thrown/R(0FF) Act:0FF Type: DCC 23 Msg#: 56 Time: 22:58:02.200 Status: Thrown/R(0FF) Act:0FF Type: DCC 24 Msg#: 57 Time: 58:02.250 Status: Closed/N(0N) Act:0FF Type: DCC 25 Msg#: 58 Time: 58:02.270 Status: Closed/N(0N) Act:0FF Type: DCC 26 Msg#: 61 Time: 22:58:02.270 Status: Closed/N(0N) Act:0FF <	13	Msg#:	46	Time: 58:01.411 Status: Closed/N(ON)	Act:ON Type: LocoNet
15 Msg#: 48 Time: 2258:01.474 Status: Closed/N(ION) Act:OF Type: DCC 16 Msg#: 50 Time: 2258:01.552 Status: Closed/N(ION) Act:OFF Type: DCC 18 Msg#: 51 Time: 2258:01.567 Status: Closed/N(ION) Act:OFF Type: DCC 19 Msg#: 52 Time: 2258:01.849 Status: Thrown/R(OFF) Act:ON Type: DCC 20 Msg#: 53 Time: 2258:01.849 Status: Thrown/R(OFF) Act:ON Type: DCC 21 Msg#: 54 Time: 2258:01.849 Status: Thrown/R(OFF) Act:ON Type: DCC 22 Msg#: 55 Time: 2258:01.389 Status: Thrown/R(OFF) Act:OFF Type: DCC 23 Msg#: 56 Time: 2258:02.200 Status: Thrown/R(OFF) Act:OFF Type: DCC 24 Msg#: 57 Time: 2258:02.270 Status: Closed/N(ON) Act:ON Type: DCC 25 Msg#: 58 Time: 80:02.380 Status: Closed/N(ON) Act:ON Type: DCC 26 Msg#: 61 Time: 80:02.395 Status: Closed/N(ON) Act:OFF Type: DCC 27 Msg#:	14	Msg#:	47	Time: 22:58:01.442 Status: Closed/N(ON)	Act:ON Type: DCC
16 Msg#: 49 Time: 8801.536 Status: Closed/N(DN) Act:OFF Type: LocoNet 17 Msg#: 50 Time: 22:58:01.552 Status: Closed/N(DN) Act:OFF Type: DCC 18 Msg#: 51 Time: 22:58:01.567 Status: Closed/N(DN) Act:OFF Type: DCC 19 Msg#: 52 Time: 88:01.833 Status: Thrown/R(OFF) Act:ON Type: DCC 20 Msg#: 53 Time: 22:58:01.849 Status: Thrown/R(OFF) Act:ON Type: DCC 21 Msg#: 55 Time: 22:58:02.500 Status: Thrown/R(OFF) Act:OFF Type: DCC 22 Msg#: 56 Time: 22:58:02.200 Status: Thrown/R(OFF) Act:OFF Type: DCC 24 Msg#: 58 Time: 80:02.255 Status: Closed/N(ON) Act:OFF Type: DCC 25 Msg#: 58 Time: 80:02.255 Status: Closed/N(ON) Act:OFF Type: DCC 26 Msg#: 59 Time: 22:58:02.270 Status: Closed/N(ON) Act:OFF Type: LocoNet 27 Msg#: 61 Time: 88:02.395	15	Msg#:	48	Time: 22:58:01.474 Status: Closed/N(ON)	Act:ON Type: DCC
17 Msg#: 50 Time: 22:58:01.552 Status: Closed/N[UN] Act:UFF Type: DCC 18 Msg#: 51 Time: 22:58:01.567 Status: Closed/N[UN] Act:UFF Type: DCC 20 Msg#: 53 Time: 22:58:01.849 Status: Thrown/R[0FF] Act:UN Type: LocoNet 21 Msg#: 54 Time: 22:58:01.864 Status: Thrown/R[0FF] Act:UN Type: DCC 22 Msg#: 55 Time: 88:01.389 Status: Thrown/R[0FF] Act:UFF Type: DCC 23 Msg#: 56 Time: 22:58:02.500 Status: Thrown/R[0FF] Act:UFF Type: DCC 24 Msg#: 57 Time: 88:02.255 Status: Closed/N[ON] Act:UFF Type: DCC 25 Msg#: 58 Time: 88:02.255 Status: Closed/N[ON] Act:OFF Type: DCC 26 Msg#: 59 Time: 22:58:02.270 Status: Closed/N[ON] Act:OFF Type: DCC 27 Msg#: 60 Time: 88:02.395 Status: Closed/N[ON] Act:OFF Type: DCC 28 Msg#: 61 Time: 88:02.395 Status: Closed/N[ON] Act:OFF Type: DCC <td>16</td> <td>Msg#:</td> <td>49</td> <td>Time: 58:01.536 Status: Closed/N(ON)</td> <td>Act:OFF Type: LocoNet</td>	16	Msg#:	49	Time: 58:01.536 Status: Closed/N(ON)	Act:OFF Type: LocoNet
18 Msg#: 51 Imme: 22:58:01.567 Status: Llosed/N[UN] Act:UFF Type: LocoNet 20 Msg#: 53 Time: 88:01.833 Status: Thrown/R[OFF] Act:UN Type: DCC 21 Msg#: 53 Time: 22:58:01.849 Status: Thrown/R[OFF] Act:UN Type: DCC 22 Msg#: 55 Time: 88:01.989 Status: Thrown/R[OFF] Act:UF Type: DCC 23 Msg#: 56 Time: 22:58:02.500 Status: Thrown/R[OFF] Act:UFF Type: DCC 24 Msg#: 57 Time: 22:58:02.200 Status: Thrown/R[OFF] Act:UFF Type: DCC 25 Msg#: 59 Time: 22:58:02.270 Status: Closed/N[ON] Act:OFF Type: DCC 26 Msg#: 60 Time: 22:58:02.270 Status: Closed/N[ON] Act:OFF Type: DCC 27 Msg#: 61 Time: 22:58:02.270 Status: Closed/N[ON] Act:OFF Type: DCC 28 Msg#: 61 Time: 22:58:02.270 Status: Closed/N[ON] Act:OFF Type: DCC 29 Msg#: 62 Time: 22:58:02.395 Status: Closed/N[ON] Act:OFF Type: DCC 31 Msg#:	11	Msg#:	50	Time: 22:58:01.552 Status: Closed/N(UN)	Act:UFF Type: DCC
19 Msg#: 52 Time: 28:01.833 Status: Thrown/R[0FF] Act:UN Type: LocoNet 20 Msg#: 53 Time: 22:58:01.849 Status: Thrown/R[0FF] Act:UN Type: DCC 21 Msg#: 55 Time: 22:58:01.849 Status: Thrown/R[0FF] Act:UN Type: DCC 22 Msg#: 55 Time: 22:58:02:500 Status: Thrown/R[0FF] Act:UF Type: DCC 23 Msg#: 56 Time: 22:58:02:200 Status: Thrown/R[0FF] Act:UF Type: DCC 24 Msg#: 57 Time: 22:58:02:270 Status: Closed/N[0N] Act:UN Type: DCC 25 Msg#: 58 Time: 22:58:02:270 Status: Closed/N[0N] Act:UN Type: DCC 26 Msg#: 60 Time: 22:58:02:270 Status: Closed/N[0N] Act:UF Type: LocoNet 27 Msg#: 61 Time: 58:02:370 Status: Closed/N[0N] Act:UF Type: DCC 28 Msg#: 62 Time: 22:58:02:395 Status: Closed/N[0N] Act:UF Type: LocoNet 29 Msg#: 64 Time: 58:02:475<	18	Msg#:	51	Time: 22:58:01.567 Status: Closed/N(UN)	Act:UFF Type: DCC
20 Msg#: 53 Time: 22:58:01.849 Status: Thrown/R[0FF] ActUN Type: DCC 21 Msg#: 54 Time: 22:58:01.864 Status: Thrown/R[0FF] ActUN Type: LocoNet 22 Msg#: 55 Time: 82:01.864 Status: Thrown/R[0FF] ActUFF Type: LocoNet 23 Msg#: 55 Time: 22:58:02.500 Status: Thrown/R[0FF] ActUFF Type: LocoNet 24 Msg#: 57 Time: 22:58:02.200 Status: Thrown/R[0FF] ActUFF Type: DCC 24 Msg#: 58 Time: 80:02.255 Status: Closed/N[0N] ActUN Type: LocoNet 25 Msg#: 59 Time: 22:58:02.270 Status: Closed/N[0N] ActUN Type: DCC 26 Msg#: 61 Time: 80:02.305 Status: Closed/N[0N] ActUN Type: LocoNet 28 Msg#: 61 Time: 80:02.305 Status: Closed/N[0N] ActUFF Type: LocoNet 29 Msg#: 62 Time: 22:58:02.411 Status: Closed/N[0N] ActUFF Type: DCC 30 Msg#: 65 Time: 22:58:02.614 Status: Thrown/R[0FF] ActUN Type: DCC 31 Msg#: 66 Time: 22:58:02.614 Status: Thrown/R[0FF] ActUN	19	Msg#:	52	Time: 58:01.833 Status: Thrown/R[UFF	J Act:UN Type: LocoNet
21 Msg#: 54 Imme: 22:58:01.864 Status: Innown/H(UFF) Act:UN Type: DCC 22 Msg#: 55 Time: 88:01.989 Status: Thrown/R(OFF) Act:OFF Type: DCC 23 Msg#: 56 Time: 22:58:02.200 Status: Thrown/R(OFF) Act:OFF Type: DCC 24 Msg#: 57 Time: 22:58:02.200 Status: Thrown/R(OFF) Act:OFF Type: DCC 25 Msg#: 59 Time: 22:58:02.270 Status: Closed/N(ON) Act:ON Type: DCC 26 Msg#: 60 Time: 22:58:02.270 Status: Closed/N(ON) Act:ON Type: DCC 27 Msg#: 61 Time: 22:58:02.270 Status: Closed/N(ON) Act:OFF Type: DCC 28 Msg#: 61 Time: 22:58:02.395 Status: Closed/N(ON) Act:OFF Type: DCC 30 Msg#: 63 Time: 22:58:02.411 Status: Closed/N(ON) Act:OFF Type: DCC 31 Msg#: 64 Time: 22:58:02.614 Status: Thrown/R(OFF) Act:ON Type: DCC 32 Msg#: 66 Time: 22:58:02.614 Status: Thrown/R(OFF) Act:ON Type: DCC 33 Msg#:	20	Msg#:	53	Time: 22:58:01.849 Status: Thrown/R[UF]	J Act:UN Type: DCC
22 Msg#: 55 Time: 28:01.989 Status: Thrown/R(UFF) Act:UFF Type: LocoNet 23 Msg#: 56 Time: 22:58:02.500 Status: Thrown/R(UFF) Act:UFF Type: DCC 24 Msg#: 57 Time: 22:58:02.200 Status: Thrown/R(UFF) Act:UFF Type: DCC 25 Msg#: 58 Time: 22:58:02.200 Status: Closed/N(ON) Act:OF Type: DCC 26 Msg#: 59 Time: 22:58:02.270 Status: Closed/N(ON) Act:OF Type: DCC 27 Msg#: 60 Time: 22:58:02.270 Status: Closed/N(ON) Act:OFF Type: DCC 28 Msg#: 61 Time: 22:58:02.395 Status: Closed/N(ON) Act:OFF Type: DCC 30 Msg#: 62 Time: 22:58:02.614 Status: Closed/N(ON) Act:OFF Type: DCC 31 Msg#: 64 Time: 88:02.599 Status: Thrown/R(OFF) Act:ON Type: LocoNet 32 Msg#: 66 Time: 22:58:02.614 Status: Thrown/R(OFF) Act:ON Type: DCC 33 Msg#: 66 Time: 88:02.72	21	Msg#:	54	Time: 22:58:01.864 Status: Thrown/R[UF]	J Act:UN Type: DCC
23 Msg#: 56 Time: 22:58:02:500 Status: 1hrown/R[0FF] Act:0FF Type: DCC 24 Msg#: 57 Time: 22:58:02:200 Status: Closed/N[0N] Act:0FF Type: LocoNet 25 Msg#: 58 Time: 22:58:02:270 Status: Closed/N[0N] Act:0N Type: LocoNet 26 Msg#: 59 Time: 22:58:02:270 Status: Closed/N[0N] Act:0N Type: DCC 27 Msg#: 61 Time: 58:02:270 Status: Closed/N[0N] Act:0FF Type: LocoNet 28 Msg#: 61 Time: 58:02:380 Status: Closed/N[0N] Act:0FF Type: LocoNet 29 Msg#: 62 Time: 22:58:02:395 Status: Closed/N[0N] Act:0FF Type: LocoNet 30 Msg#: 63 Time: 22:58:02:614 Status: Closed/N[0N] Act:0FF Type: LocoNet 31 Msg#: 66 Time: 22:58:02:614 Status: Thrown/R[0FF] Act:0N Type: DCC 33 Msg#: 66 Time: 22:58:02:755 Status: Thrown/R[0FF] Act:0FF Type: DCC 34 Msg#: 68 Time: 22:58:02:755 Status: Thrown/R[0FF] Act:0FF Type: DCC 36	22	Msg#:	55	Time: 58:01.989 Status: Thrown/R(UF)	J Act:UFF Type: LocoNet
24 Msg#: 57 Time: 22:58:02:200 Status: Thrown/H(UFF) Act:UFF Type: LocoNet 25 Msg#: 58 Time: 88:02:255 Status: Closed/N(ON) Act:UN Type: LocoNet 26 Msg#: 59 Time: 22:58:02:270 Status: Closed/N(ON) Act:ON Type: DCC 27 Msg#: 60 Time: 22:58:02:270 Status: Closed/N(ON) Act:ON Type: DCC 28 Msg#: 61 Time: 22:58:02:370 Status: Closed/N(ON) Act:OFF Type: DCC 29 Msg#: 62 Time: 22:58:02:395 Status: Closed/N(ON) Act:OFF Type: DCC 30 Msg#: 63 Time: 22:58:02:411 Status: Closed/N(ON) Act:OFF Type: DCC 31 Msg#: 64 Time: 22:58:02:614 Status: Thrown/R(OFF) Act:ON Type: DCC 32 Msg#: 65 Time: 22:58:02:614 Status: Thrown/R(OFF) Act:ON Type: DCC 33 Msg#: 66 Time: 22:58:02:614 Status: Thrown/R(OFF) Act:ON Type: DCC 34 Msg#: 68 Time: 22:58:02:770 Status: Thrown/R(OFF) Act:OFF Type: DCC 35 Msg#: <td>23</td> <td>Msg#:</td> <td>56</td> <td>Time: 22:58:02.500 Status: Thrown/R[UFF</td> <td>J Act:UFF Type: DCC</td>	23	Msg#:	56	Time: 22:58:02.500 Status: Thrown/R[UFF	J Act:UFF Type: DCC
25 Msg#: 58 Time: 28:02.255 Status: Llosed/N[UN] Act:UN Type: LocoNet 26 Msg#: 59 Time: 22:58:02.270 Status: Closed/N[UN] Act:UN Type: DCC 27 Msg#: 60 Time: 22:58:02.270 Status: Closed/N[UN] Act:UN Type: DCC 28 Msg#: 61 Time: 22:58:02.395 Status: Closed/N[UN] Act:UF Type: DCC 29 Msg#: 62 Time: 22:58:02.395 Status: Closed/N[UN] Act:UFF Type: DCC 30 Msg#: 63 Time: 22:58:02.411 Status: Closed/N[UN] Act:UFF Type: DCC 31 Msg#: 64 Time: 58:02.599 Status: Thrown/R[0FF] Act:UN Type: LocoNet 32 Msg#: 65 Time: 22:58:02.614 Status: Thrown/R[0FF] Act:UN Type: LocoNet 33 Msg#: 66 Time: 22:58:02.755 Status: Thrown/R[0FF] Act:UFF Type: LocoNet 35 Msg#: 68 Time: 22:58:02.755 Status: Thrown/R[0FF] Act:UFF Type: DCC 36 Msg#: 69 Time: 22:	24	Msg#:	5/	Time: 22:58:02.200 Status: Thrown/R[UF]	J Act:UFF Type: DCC
26 Msg#: 59 Time: 22:58:02:270 Status: Closed/N(UN) Act:UN Type: DCC 27 Msg#: 60 Time: 22:58:02:270 Status: Closed/N(UN) Act:UN Type: DCC 28 Msg#: 61 Time: 22:58:02:370 Status: Closed/N(UN) Act:UF Type: LocoNet 29 Msg#: 62 Time: 22:58:02:395 Status: Closed/N(UN) Act:UFF Type: DCC 30 Msg#: 63 Time: 22:58:02:411 Status: Closed/N(ON) Act:UFF Type: DCC 30 Msg#: 64 Time: 58:02:599 Status: Thrown/R(OFF) Act:ON Type: LocoNet 32 Msg#: 65 Time: 22:58:02:614 Status: Thrown/R(OFF) Act:ON Type: DCC 33 Msg#: 66 Time: 22:58:02:755 Status: Thrown/R(OFF) Act:OFF Type: DCC 34 Msg#: 68 Time: 22:58:02:770 Status: Thrown/R(OFF) Act:OFF Type: DCC 35 Msg#: 68 Time: 22:58:02:770 Status: Thrown/R(OFF) Act:OFF Type: DCC 36 Msg#: 69 Time: 22:58:02:770 Status: Thrown/R(OFF) Act:OFF Type: DCC 37 Msg#:<	25	Msg#:	58	Time: 58:02.255 Status: Closed/N(UN)	Act:UN Type: LocoNet
27 Msg#: 60 Time: 22:58:02:270 Status: Llosed/N(UN) Act:UN Type: DCC 28 Msg#: 61 Time: 88:02:380 Status: Closed/N(UN) Act:UFF Type: DCC 29 Msg#: 62 Time: 22:58:02:395 Status: Closed/N(UN) Act:UFF Type: DCC 30 Msg#: 63 Time: 22:58:02:411 Status: Closed/N(UN) Act:UFF Type: DCC 31 Msg#: 65 Time: 22:58:02:614 Status: Thrown/R(UFF) Act:UN Type: DCC 32 Msg#: 66 Time: 22:58:02:614 Status: Thrown/R(UFF) Act:UN Type: DCC 33 Msg#: 66 Time: 22:58:02:724 Status: Thrown/R(UFF) Act:UN Type: DCC 34 Msg#: 68 Time: 22:58:02:755 Status: Thrown/R(UFF) Act:UFF Type: DCC 35 Msg#: 68 Time: 22:58:02:755 Status: Thrown/R(UFF) Act:UFF Type: DCC 36 Msg#: 69 Time: 22:58:02:755 Status: Thrown/R(UFF) Act:UFF Type: DCC 37 Msg#: 69 Time: 22:58:02:755 <td< td=""><td>26</td><td>Msg#:</td><td>59</td><td>Time: 22:58:02.270 Status: Closed/N(UN)</td><td>Act:UN Type: DCC</td></td<>	26	Msg#:	59	Time: 22:58:02.270 Status: Closed/N(UN)	Act:UN Type: DCC
28 Msg#: 61 Time: 28:02.380 Status: Llosed/N(UN) Act:UFF Type: LocoNet 29 Msg#: 62 Time: 22:58:02.395 Status: Closed/N(UN) Act:UFF Type: DCC 30 Msg#: 63 Time: 22:58:02.395 Status: Closed/N(UN) Act:UFF Type: DCC 31 Msg#: 64 Time: 22:58:02.614 Status: Thrown/R(OFF) Act:UN Type: DCC 32 Msg#: 65 Time: 22:58:02.614 Status: Thrown/R(OFF) Act:UN Type: DCC 33 Msg#: 66 Time: 22:58:02.614 Status: Thrown/R(OFF) Act:UN Type: DCC 34 Msg#: 67 Time: 58:02.755 Status: Thrown/R(OFF) Act:OFF Type: LocoNet 35 Msg#: 68 Time: 22:58:02.755 Status: Thrown/R(OFF) Act:OFF Type: DCC 36 Msg#: 69 Time: 22:58:02.755 Status: Thrown/R(OFF) Act:OFF Type: DCC 37 Msg#: 69 Time: 22:58:02.755 Status: Closed/N(ON) Act:OFF Type: DCC 38 Msg#: 70 Time: 22:58:	27	Msg#:	60	Time: 22:58:02.270 Status: Closed/N(UN)	Act:UN Type: DLC
23 Msg#: 62 Time: 22:58:02.395 Status: Llosed/N(UN) Act:UFF Type: DCC 30 Msg#: 63 Time: 22:58:02.411 Status: Closed/N(ON) Act:OFF Type: DCC 31 Msg#: 64 Time: 22:58:02.614 Status: Thrown/R(OFF) Act:ON Type: LocoNet 32 Msg#: 65 Time: 22:58:02.614 Status: Thrown/R(OFF) Act:ON Type: DCC 33 Msg#: 66 Time: 22:58:02.614 Status: Thrown/R(OFF) Act:ON Type: DCC 34 Msg#: 67 Time: 88:02.724 Status: Thrown/R(OFF) Act:OFF Type: DCC 35 Msg#: 68 Time: 22:58:02.755 Status: Thrown/R(OFF) Act:OFF Type: DCC 36 Msg#: 69 Time: 22:58:02.770 Status: Thrown/R(OFF) Act:OFF Type: DCC 37 Msg#: 70 Time: 22:58:02.770 Status: Thrown/R(OFF) Act:OFF Type: DCC 38 Msg#: 71 Time: 22:58:02.911 Status: Closed/N(ON) Act:ON Type: DCC 39 Msg#: 72 Time: 22:58:02.917 Status: Closed/N(ON) Act:ON Type: DCC	28	Msg#:	61	Time: 58:02.380 Status: Closed/N(UN)	Act:UFF Type: LocoNet
30 Msg#: 63 Time: 22:58:02.411 Status: Llosed/N(UN) Act/UFF Type: LocoNet 31 Msg#: 64 Time: 88:02.599 Status: Thrown/R(OFF) Act:UN Type: LocoNet 32 Msg#: 65 Time: 22:58:02.614 Status: Thrown/R(OFF) Act:UN Type: DCC 33 Msg#: 66 Time: 22:58:02.614 Status: Thrown/R(OFF) Act:UN Type: DCC 34 Msg#: 67 Time: 58:02.724 Status: Thrown/R(OFF) Act:UF Type: DCC 35 Msg#: 68 Time: 22:58:02.755 Status: Thrown/R(OFF) Act:UFF Type: DCC 36 Msg#: 69 Time: 22:58:02.770 Status: Thrown/R(OFF) Act:UFF Type: DCC 37 Msg#: 70 Time: 22:58:02.770 Status: Closed/N(ON) Act:UF Type: DCC 38 Msg#: 71 Time: 22:58:02.911 Status: Closed/N(ON) Act:ON Type: DCC 39 Msg#: 72 Time: 22:58:02.927 Status: Closed/N(ON) Act:ON Type: DCC	29	Msg#:	62	Time: 22:58:02.335 Status: Closed/N(UN)	
31 Msg#: 64 Time: 20:02:593 Status: Thrown/R[UFF] Act:UN Type: LocoNet 32 Msg#: 65 Time: 22:58:02.614 Status: Thrown/R[UFF] Act:UN Type: DCC 33 Msg#: 66 Time: 22:58:02.614 Status: Thrown/R[UFF] Act:UN Type: DCC 34 Msg#: 67 Time: 58:02.724 Status: Thrown/R[UFF] Act:UF Type: DCC 35 Msg#: 68 Time: 22:58:02.755 Status: Thrown/R[UFF] Act:UFF Type: DCC 36 Msg#: 69 Time: 22:58:02.770 Status: Thrown/R[UFF] Act:UFF Type: DCC 37 Msg#: 70 Time: 58:02.895 Status: Closed/N[UN] Act:UN Type: DCC 38 Msg#: 71 Time: 22:58:02.917 Status: Closed/N[UN] Act:UN Type: DCC 39 Msg#: 72 Time: 22:58:02.927 Status: Closed/N[UN] Act:UN Type: DCC	30	Msg#:	63	Time: 22:58:02:411 Status: Closed/N(UN)	ACCUFF Type: DUL
32 Msg#: 65 Time: 22:58:02.614 Status: Thrown/R[0FF] Act:UN Type: DCC 33 Msg#: 66 Time: 22:58:02.614 Status: Thrown/R[0FF] Act:UN Type: DCC 34 Msg#: 67 Time: 58:02.755 Status: Thrown/R[0FF] Act:UF Type: LocoNet 35 Msg#: 68 Time: 22:58:02.755 Status: Thrown/R[0FF] Act:UFF Type: DCC 36 Msg#: 69 Time: 22:58:02.770 Status: Thrown/R[0FF] Act:UFF Type: DCC 37 Msg#: 70 Time: 58:02.895 Status: Closed/N[0N] Act:0N Type: DCC 38 Msg#: 71 Time: 22:58:02.911 Status: Closed/N[0N] Act:0N Type: DCC 39 Msg#: 72 Time: 22:58:02.927 Status: Closed/N[0N] Act:0N Type: DCC	131	Msg#:	64 CE	Time: 08:02.599 Status: Thrown/H(UF)	J ACCUN Type: LocoNet
33 Msg#: 66 Time: 22:58:02.014 5 datus: Info@M/fi(UFF) Act:UN Type: DCL 34 Msg#: 67 Time: 88:02.724 Status: Thrown/R(0FF) Act:UF Type: LocoNet 35 Msg#: 68 Time: 22:58:02.755 Status: Thrown/R(0FF) Act:UFF Type: DCC 36 Msg#: 69 Time: 22:58:02.770 Status: Thrown/R(0FF) Act:UFF Type: DCC 37 Msg#: 70 Time: 22:58:02.895 Status: Closed/N(0N) Act:UFF Type: DCC 38 Msg#: 71 Time: 22:58:02.911 Status: Closed/N(0N) Act:UN Type: DCC 39 Msg#: 72 Time: 22:58:02.927 Status: Closed/N(0N) Act:UN Type: DCC	32	Msg#:	65	Time: 22:58:02:514 Status: Thrown/H(UF)	J ACCUN TYPE: DUL
34 Msg#: 67 Time: 30:02.724 Status: Thrown/Pi(UFF) Act:UFF Type: LocoNet 35 Msg#: 68 Time: 22:58:02.755 Status: Thrown/Pi(UFF) Act:UFF Type: DCC 36 Msg#: 69 Time: 22:58:02.770 Status: Thrown/Pi(UFF) Act:UFF Type: DCC 37 Msg#: 70 Time: 58:02.895 Status: Closed/N(OF) Act:UN Type: LocoNet 38 Msg#: 71 Time: 22:58:02.911 Status: Closed/N(ON) Act:UN Type: DCC 39 Msg#: 72 Time: 22:58:02.927 Status: Closed/N(ON) Act:ON Type: DCC	133	Msg#:	66	Time: ZZ:08:02.614 Status: Thrown/H[UF)	j ACCUN TYPE: DUU
35 Msg#: 68 Time: 22:58:02.790 Status: Thrown/H(UFF) Act:UFF Type: DCC 36 Msg#: 69 Time: 22:58:02.770 Status: Thrown/H(UFF) Act:UFF Type: DCC 37 Msg#: 70 Time: 88:02.895 Status: Closed/N(ON) Act:ON Type: LocoNet 38 Msg#: 71 Time: 22:58:02.911 Status: Closed/N(ON) Act:ON Type: DCC 39 Msg#: 72 Time: 22:58:02.927 Status: Closed/N(ON) Act:ON Type: DCC	34 15	Msg#:	67 CO	Time: 08:02.724 Status: Thrown/H[UFF	J ACCUFF Type: LOCOINEC
Image: Doi: Dime: Dime: <th< td=""><td> 30 ac</td><td>Msg#:</td><td>68 CO</td><td>Time: 22:08:02.700 Status: Thrown/H[UF]</td><td>J ACCUFF TYPE: DUL</td></th<>	30 ac	Msg#:	68 CO	Time: 22:08:02.700 Status: Thrown/H[UF]	J ACCUFF TYPE: DUL
or msg#: ru imme: bocuc.obo status: Liosed/M(UN) ActUN Type: LocoNet 38 Msg#: 71 Time: 22:58:02 IClosed/N(ON) ActUN Type: DCC 39 Msg#: 72 Time: 22:58:02.927 Status: Closed/N(ON) Act:ON Type: DCC	JD 17	Msg#:	63 70	Time: ZZ:08:02.770 Status: Thrown/H[UF]	j Accurr Type: DUL AntON Type: LogoNat
38 Msg#: 71 Time: 22:56:02:311 Status: closed/N(DN) Act:DN Type: DCC 39 Msg#: 72 Time: 22:58:02:927 Status: Closed/N(DN) Act:DN Type: DCC	37	MSG#:	70	Time: 36:02.635 Status: Closed/N(UN)	ACCUN Type: Loconet
pool misym. 72 mine. 22:06:02:327 Status: Closed/N(UN) Action mype: DCC	100 100	Mag#:	71	Time: 22:06:02:011 Status: Closed/N(UN) Time: 20:50:02:027 Challen: Closed/N(UN)	Action Type: DCC
	132	MSGH;	12	nine, 22.06.02.327 Status, Ciosed/N(UN)	Action Type Doc

DCCStatistics							
Description	Value	Previous Value	Change	Description	Value	Previous Value	Change
Bit Statistics				Packet Error Statistics			
Total Good Bits (good)	28317486	28214273	103213	Total Packet Count (good)	580254	578206	2048
One Bit Count(good)	17944544	17879130	65414	Number of Packtes with Bad Check Byte	0	0	0
Zero Bit Count (good)	10372970	10335179	37791	Number of Packtes with preamble to short	8	8	0
Bits too Short (bad)	3	3	0	Number of Packtes that where to short	0	0	0
Bits too Long (bad)	0	0	0	DCC Tester Ring Overflow Counter	0	0	0
Bits between One and Zero (bad)	3	3	0	Address Summary Statistics			
Preamble and Packet Summary				Total Address Count	580256	578222	2034
Current Preamble length in bits	15	15	0	Number of Valid Addresses	499075	497331	1744
Shortest Preamble length since reset	12	12	0	Number of Idle Packets	81181	80891	290
Longest Preamble length since reset	19	19	0	Number of Accessory Packets	269	269	0
Number of packets with preamlbe too short	8	8	0	Number of Broadcast Packets	0	0	0
Total Packet Count	580244	578145	2099	Number of Unknown Packets	0	0	0
Packet Count with GOOD Check Byte	580242	578142	2100	Lowest Mobile Address Received	14	14	0
Timing Statistics				Highest Mobile Address Received	88	88	0
Current Packet Duration Time	29.3496 ms	29.3568 ms	-0.0072	Packet Type Statistics			
Shortest Packet Duration Time	16.0768 ms	16.0768 ms	0	Total Packet Count	579992	577981	2011
Longest Packet Duration Time	33.7792 ms	33.7792 ms	0	Number of Speed Packets	374148	372855	1293
Current Inter-Packet Gap Time	27.648 ms	27.648 ms	0	Number of Function Packets	124662	124232	430
Shortest Inter-Packet Gap Time	27.4432 ms	27.4432 ms	0	Number of Analog Packets (playable whistle)	0	0	0
Longest Inter-Packet Gap Time	42.396 ms	42.396 ms	0	Number of Decoder Reset Packets	0	0	0
Packet Length Statistics				Number of Idle Packets	81182	80894	288
Total 2-Byte Packets	206109	205373	736	Number of Decoder Idle Packets	0	0	0
Total 3-Byte Packets	374140	372810	1330	Bit Timing Statistics			
Total 4-Byte Packets	0	0	0	Current One Bit Time	109 us	109 us	0
Total 5-Byte Packets	0	0	0	Shortest One Bit Time	56 us	56 us	0
Total 6-Byte Packets	0	0	0	Longest One Bit Time	123.6 us	123.6 us	0
Total 7-Byte Packets	0	0	0	Current Zero Bit Time	220.4 us	220.2 us	0.2
				Shortest Zero Bit Time	186.4 us	186.4 us	0
				Longest Zero Bit Time	518.2 us	518.2 us	0
DCC Pocket Tester, Version: 1.52 Comport: C	OM3 Baudrate:	: 115200	RefreshR	ate: 15[s] Last Refresh: 18:15:13.8	28	DCC Voltag	ge: 15.49[V]

🔮 Options 🛛 🔀
Comunication BDL SlotMonitor LogLoconet LoconetViewer ModuleConfiguration TurnoutChecker DCC
☐ Start "DCCViewer" screen at startup
Start "DCCStatistic" screen at startup
✓ Display Voltage Refresh Interval (sec) 10 Display Idle Messages
Statistic
Refresh Interval (sec) 15
I → Bit Statistics I → Packet Error Statisctics
Preamble and Packet Summary Address Summary Statistics
Packet Timing Statistics 🔽 Packet Type Statistics
Packet Length Statistics 🔽 Bit Timing Statistics