TransLink Configurator Users Guide

V3.0





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2 Overview

Translink Configurator is a software application used to perform initial setup of a Hamfield Translink Controller.

This software is designed to be used by systems integrators when commissioning a Translink Controller, and enables the configuration of the following parameters.

- Translink Controller Network discovery
- Translink Controller Network settings
 - o Static or Dynamic IP addressing (static recommended)
 - Communications Port
 - o Netmask
 - o Gateway
- Translink Controller Email Settings
 - o Server IP address
 - o Server Port
 - o User Name
 - o Domain
 - o Email Subjects
 - o Recipients
 - Message Triggers
- C-Bus lighting application addresses (2)
- English names associated with Group Addresses
- Trigger Application objects
- Measurement Application objects
- Security Application objects

Note: The Translink Controller will only accept 1 connection at a time on its Ethernet port. In order for this application to successfully connect to the controller, any other Translink user applications must be closed first.

3 Initial Setup

When a Translink Controller is first installed it knows nothing about the C-Bus or Ethernet networks with which it will interact. This information must be supplied by the installer and loaded into the Translink Controller before it will function correctly.

The following is a minimum list of steps that should be undertaken for each installation and the order in which they should be done. See the relevant section for details on how to perform each step.

- 1. Install the Translink Controller as described in the Translink Controller Installation Guide.
- 2. Install the Translink Configurator software onto a suitable windows PC or laptop connected to the same subnet as the Translink Controller.

- 3. Scan the network for Translink Controllers.
- 4. Set the IP address and network settings of the Translink Controller
- 5. Set the email details (if required)
- 6. Set the 2 lighting application addresses
- 7. Set the Bridge address (if required)
- 8. Set the Email Triggers (if required)
- 9. Load all group names
- 10. Set the PIN

3.1 Translink Controller Network Setup

In order to be able to set the Translink Controllers network IP address and other parameters, the Translink Controller must first be discovered by the Configuration software.

- 1. Start the Translink Configurator software.
- 2. Press the "Scan For Translinks" button on the connect tab, the configuration software will scan the subnet looking for Translink Controllers and list them. Note: you may also see other unrelated entries for devices that use a similar interfacing mechanism. The C-Bus CNI is one such device. These unrelated devices should be ignored.

3.	Select the	Translink	Controller	from the list	, and its networ	k details will	be displayed.
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8				Net Mask	255.255.255.0	Email 1 Subject					
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Figure 1 Translink Configurator Connection Screen

4. Press the "Edit Settings" Button and change the settings to those desired. When finished press "Save Settings"

Note: it is strongly recommended to use a static IP address, as this address needs to be known by the Translink User applications, so it may connect to the controller.

The fields are described as follows;

Field	Description
Static/Dynamic	Static (fixed) IP address or DHCP / BOOTP / AutoIP allocated
IP Address	Static IP address
Port	Communications Port for user applications to connect on
Net Mask	Network Mask
Gateway	Network Gateway

3.2 Translink Controller Email Delivery Setup

- 1. Using the same Translink Controller discovery mechanism as described in "Translink Network Setup"
- 2. Edit the Email Server Details and Press "Save Settings".



Figure 2 Translink Configurator TCP & Email Messages

The fields are described as follows;

Field	Description
Server IP Address	IP address of the mail server
Server Port	Mail server port
User Name	Username to logon to the mail server (also forms part of the from address)
Domain	Mail server domain (also forms part of the from address)
Email 1 Subject	Subject for Email 1 (Note: there is no message body)
Email 2 Subject	Subject for Email 2 (Note: there is no message body)
Email 3 Subject	Subject for Email 3 (Note: there is no message body)

Recipient 1	Email address of the 1 st recipient
Recipient 2	Email address of the 2 nd recipient (optional)

3.3 Lighting Applications Setup



Note: Do not miss this step, failure to set the lighting application addresses will stop all other functionality from working.

The Clipsal C-Bus specification defines the lighting application addresses as a range between \$30 and \$3F. The Translink Controller can handle messages for up to 2 Lighting Application addresses; therefor it needs to be told which lighting application addresses it should process. If only 1 application address is in use, then the second address should be set to 255 (FF).

1. Establish a connection to the Translink Controller by entering the controllers IP address and Port, then pressing the "Connect" button.



Figure 3 Connect to Translink Controller



2. Move to the "Apps & Email" tab and press the "Get all supported Application Types" button.

Figure 4 Translink Configurator Lighting Application Addresses

- 3. Enter the 2 lighting addresses then press the "Set Lighting" button.
- 4. The Translink Controller will reboot.

3.4 Bridge Address Setup

The Translink Controller is capable of discovering group addresses on the far side of a single C-Bus bridge. This is primarily intended to support wired and wireless networks connected via a wireless bridge. In order to use this feature, the 2 C-Bus networks on each side of the bridge must not share any group addresses, as the Translink Controller treats both networks as a single network entity.

- 1. Establish a connection to the Translink Controller.
- 2. Go to the "Apps & Email" tab and press "Get Bridge
- 3. Set the bridge address as required.
- 4. Press "Set Bridge" to save.

Note: The configurator will automatically disconnect and the Translink Controller will reboot

3.5 Email Triggers Setup

The Translink Controller has the ability to send simple email messages to, up to 2 recipients in response to, up to 3 triggers. The triggers are defined as a combination of Application address, Group Address and Group Level threshold. Once a trigger condition has been met, the Controller will send an email as defined earlier under the "Translink Controller Email Delivery Setup" section.

- 1. Establish a connection to the Translink Controller.
- 2. Go to the "Apps & Email" tab and press "Get All Email Triggers"

- 3. Edit the triggers as required.
- 4. Press "Set All Email Triggers"
- 5. The Controller will reboot.



Figure 5 Translink Configurator Email Triggers

The fields are described as follows;

Field	Description
Email Enable	Enables this Email Trigger
Email Disable	Disables this Email Trigger
Application Address	C-Bus Application Address for this trigger to monitor
Group Address	C-Bus Group Address for this trigger to monitor
Level Threshold	C-Bus Level for this trigger to monitor (>= will match)

4 Lighting Group Names

The Translink Controller has the ability to store descriptive names against C-Bus application/group address combinations. These names are transferred to the Translink User Application where they are used as a friendly method of group identification.

In order for this to occur, the group names must first be loaded into the Translink Controller. This can occur 2 different ways, either by manually typing them into the Translink Configurator, or by importing the C-Bus Toolkit XML file (or a combination of both).

4.1.1 Manually load group names

To manually load group names perform the following steps;

- 1. Establish a connection to the Translink Controller.
- 2. Go to the 'Groups" tab
- 3. Choose the Application Address from the dropdown list.
- 4. Enter the Group Address.
- 5. Enter the Name e.g. Kitchen Lights
- 6. Press the "Set" button.

<i>®</i>	Translink Configurator V3.0.0.0 - Connected to 192.168.72.17:10003	_ □ ×
Connect	Lighting Group Names	
	Single Group Name	All Group Names
	Application Address 56 (\$38) Get from Controller	Application Address Get All Clear List
Apps & Email	Group Address 31 1F Set in Controller	Application Group Dec Group Hex Name
_		
	Load Group Names From Toolkit File	
Groups	File Name Application Address Read Toolkit XML File	
	Netwo A1 A2 A3 A4 A5 A6 A7 A8 N App App Gro Group Address	
Triggers		
Manurament		
Measurement		0 items selected from a total of 0 items
1 Scroll Up	0 items selected from a total of 0 items Show All Cols	Select All De Select All Delete Selected Show All Cols
Scroll Down	Select All De Select All Upload Selected Group Names	
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24 Feb 2015 14:18:52 - Rec	eived Group Name Reply =	
24 Feb 2015 14:18:59 - Rec 24 Feb 2015 14:19:21 - Rec	eived Measurement for Application 228 (\$⊑4) Number 2 (\$2) Device 1 (\$1) Channel 1 (\$1) Onits eived Measurement for Application 228 (\$E4) Number 1 (\$1) Device 120 (\$78) Channel 1 (\$1) U	Units 0 (\$0) Multiple
٢		> Clear IronsLink

Figure 6 Setting Group Address Names

Note: a single name entry can be viewed by pressing the "Get" button or erased by pressing the "Erase" button, after filling in the same details.

4.1.2 Load Group Names from Toolkit XML file

To load group names from a C-Bus Toolkit XML file, perform the following steps;

- 1. Establish a connection to the Translink Controller.
- 2. Go to the 'Groups" tab.
- 3. Navigate to the Toolkit XML file by pressing the ... button and choosing the desired XML file.

-1	.oad Toolkit	XML File	e		
	File Name				
	Network N	lame	Network Address	Application Name	

4. Choose the Application Address from the dropdown list.

Connect	Lighting Group Names												
		Single G	roup Name	Э			All Gro	up Nam	ies				
	Application Addre	ss 56 (\$38) 🔻		Get from Controller			Applicati	on Address	•	Get All	Clear Lis		
Apps & Email	Group Addre Nan	Dec Hex ss 31 1F ne Outside Front Light	t	Set in Controller Erase in Controller			Application	Group Dec	Group Hex	Name			
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-	Network Name	Network Address	Application Name	Application Address	Group Name	Group Address							
	TLink	254	Lighting	56	<unused></unused>	255							
Triggers	 TLink 	254	Lighting	56	Lounge Lights	11							
inggers	 TLink 	254	Lighting	56	Kitchen Light	12							
	 TLink 	254	Lighting	56	Family Down Lights	13							
	 TLink 	254	Lighting	56	Kitchen Bench	14							
1.16	 TLink 	254	Lighting	56	Master Bedroom	15							
Moscuromont	 TLink 	254	Lighting	56	Jonny's Room	16							
Measurement	 TLink 	254	Lighting	56	Jane's Room	17							
	 TLink 	254	Lighting	56	Dining Room Wall Uplights	18 🗸	0 items select	cted from a total	of 0 items				
Scroll Up	40 items selected	from a total of 41 item	IS			Show All Cols	Select All	De Select All	Delete Sel	lected	Show All Col		
Scroll Down	Select All	De Select All			Upload Se	elected Group Names							
eaction Log													
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5. Press the "Read Toolkit XML file" button.

Figure 7 Loading Group Address Names from Toolkit XML File

- 6. Select the entries you wish to upload using the check boxes at the beginning of each row (you can use "select all" or "de select all" to make it easier when dealing with large lists)
- 7. Press "Upload Selected Group Names" and the names will be uploaded to the Translink Controller (This could take a few minutes depending on the size of the list)

4.1.3 Show all Loaded Group Names

To Show all group names loaded, perform the following steps;

- Establish a connection to the Translink Controller.
- Go to the 'Groups" tab.
- Under "Show All Group Addresses" choose the application address from the dropdown list.

1	Connect	Lighting Group Names													
E)	Connect		Single G	roup Name	Ð					All	Gre	oup N	ames		
_		Application Address	s 56 (\$38) 🔻	[Get from Controller					С	Innling	tion Addron	EC (#20)	 Get All 	Close List
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	Apps & Email	Group Address	s 31 1F		Set in Controller					A1	A	plication	Group Dec	Group Hex	Name 1
		N	· Outside Frent Link		Energia Controller						01 50	6	1	01	Outside Shu
	-	Name	e Outside Front Ligh		Erase in Controller						02 50	6	2	02	Sweep Fan
0											03 50	6	3	03	Shed Bank (
8			Load	Group No.	mos Erom T	oolkit Eilo					04 50	6	4	04	Jane's Room
5-11	Groups		LUau	Group Na	ines i tom i	UUIKILI IIE					05 50	6	5	05	Office Desk
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											07 50	6	7	07	Office Desk
-	Triggers	Network Name	Network Address	Application Name	Application Address	Group Name		Group Address	^		08 50	6	8	08	Office Bencł
6 E A		TLink	254	Lighting	56	<unused></unused>		255			DB 50	6	11	OB	Lounge Ligh
		 TLink 	254	Lighting	56	Lounge Lights		11			DC 5	6	12	0C	Family Room
		 TLink 	254	Lighting	56	Kitchen Light		12			DD 50	6	13	OD	Kitchen Dow
		 TLink 	254	Lighting	56	Family Down Lights		13			DE 50	6	14	0E	Outside Sec
		 TLink 	254	Lighting	56	Kitchen Bench		14	_		DF 50	6	15	OF	Bedroom Lig
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	Manaurament	 TLink 	254	Lighting	56	Jonny's Room		16	_		11 5	6	17	11	Garage Ligh ∨
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1	Scroll Up	40 items selected f	from a total of 41 item	S				Show Al	Cols	Sele	ect All	De Selec	t All Dele	te Selected	Show All Cols
- i	Scroll Down	Select All	De Select All			U	pload Sel	ected Group Na	mes						
ransaction Lo	L														
A Eab 20	[™]	oived Croup M	omo Donky - S	prinklore										-Martine -	
	15 14.24.00 - Rec	elved Group Na	anie Reply - 3	prinkiers									··· 🛛 🗠 En	able Log	
4 Feb 20	015 14:24:00 - Red	eived Group Na	ame Reply = F	ountain									0		
24 Feb 20	015 14:24:00 - Red	ceived Group Na	ame Reply = P	ool Pump									Clin	board	
24 Feb 20	015 14:24:01 - End	t of Group Nam	e messages											1	
													~ (lear	Troosl (ok

• Press the "Get All" button.

Figure 8 Show all group address names

• Multiple names can be Deleted by selecting the items to be deleted and pressing the "Delete Selected" button.

4.1.1 Phantom Group Addresses & Names

A common practice in C-Bus programming is the creation of Phantom Group addresses that are used by modules other than C-Bus output units. This is common when programming logic or simply sending action type commands between 2 C-Bus enabled devices. Phantom Group Addresses and names can simply be using the "Manually Load Group Names" procedure described above.

5 Triggers

The Translink can store and send out pre-defined trigger messages to perform functions such as firing of scenes stored in other C-Bus devices. Up to 50 Triggers can be stored and they are referenced sequentially, and numbered 1 to 50. Just like lighting groups, these stored triggers become trigger objects in the iOS application enabling them to be given friendly names and controlled like any other object.



Triggers are setup in much the same way as lighting groups (described above) with the following exceptions;

- Triggers are assigned a "Reference Trigger Number" and this is what makes them unique.
- When Triggers are loaded from the Toolkit XML file they will be stored in the Translink controller starting at position 1, and overwriting any previously setup triggers.

					Trigg	er Nam	es				
Seconnect			Single T	rigger Nam	e			All Tri	gger Na	mes Get /	VI Clear L
Apps & Email	Trigger Number Trigger Group Name	Dec Hex 1 1 Guests Scene	Action Selector 1	Dec Hex G	et from Controller Set in Controller Frase in Controller			# Gro 1 01 2 01 3 01	up Hex Selecto 01 00 02	r Hex Name Guests Sco All Off Sce Watch Mo	ene ne vie Scene
Groups	File Name C:\Cl	Load Tri	gger Grou LINKxml	p Names F	rom Tooll Address 202 (\$CA)	kit File Read	Foolkit XML File				
•	Network Name	Network Address	Application Name	Application Address	Group Name	Group Address	Action Name				
Triggers	TLink	254	Trigger Control	202	Trigger Group 1	1	Action Selector 1				
	TLink	254	Trigger Control	202	Trigger Group 1	1	Action Selector 0				
	TLink	254	Trigger Control	202	Trigger Group 1	1	Action Selector 2				
	TLink	254	Trigger Control	202	Trigger Group 1	1	Action Selector 3				
	TLink	254	Trigger Control	202	Trigger Group 1	1	Action Selector 4				
	TLink	254	Trigger Control	202	Trigger Group 1	1	Action Selector 5				
Measurement	TLink	254	Trigger Control	202	Trigger Group 1	1	Action Selector 2				
	<						>	0 items sele	cted from a total	of 3 items	
Scroll Un	0 items selected f	from a total of 7 item	3				Show All Cols	Select All	De Select All	Delete Selected	Show All Co
Scroll Down	Select All	De Select All				Upload Select	ed Group Names				
action Log											
Feb 2015 14:26:45 - Rec	eived Trigger	Name Reply =	Watch Movie	Scene					^	C Enable Log	
100201014.20.40 1100			•								



6 Measurement

The Translink can process pre-defined broadcast Measurement application messages and HVAC application temperature messages, for display on the iOS device. Like lighting and triggers, objects are created and stored in the Translink Controller with friendly names, allowing objects to be viewed in real time. Up to 20 measurement objects may be created and stored using "Reference Measurement Numbers" in exactly the same way as triggers.

Measurement objects are also setup exactly like trigger objects, except there is no bulk load from a toolkit XML file. This is because the way measurement information is stored in the XML file makes it difficult to extract.

Two types of messages can be setup

- 1. Any Measurement application message (all types and units)
- 2. HVAC application temperature messages (typically broadcast from newer C-Bus Thermostats and only available in Degrees Celsius)

The messages are defined using 2 pieces of information.

For Measurement application they are;

- 1. Device ID
- 2. Channel

For HVAC temperature measurements they are;

- 1. Zone Group
- 2. Zone List

Each of the 20 measurement objects must be unique for correct operation, therefore it is not possible to have a Measurement application device setup the same as a HVAC application device. In practice this would almost never happen, however if a conflict is detected, use Toolkit to change one of the devices to make them unique.

1	Translink Configurator V3.0.0.0	- Connected to 192	2.168.72.17:10003			
Apps & Email	le de la constante de la const	Measureme	nt Names			
Apps & Emai	Single Measurement Name	All Measur		Get All Clear List		
Groups	Measurement HVAC Get from Controller Measurement Number Dec Hex Get of the Controller	# Type 1 Measurement 2 HVAC	Device ID/Zone Group 120 (\$78) 1 (\$01)	Channel/Zone List 1 (\$01) 1 (\$01)	Name Office Temp Lounge Temp	
Triggers	Measurement Device ID 120 78 Disc in Controlet Dec Hex Measurement Channel 1 1 Name Office Term					
Measurement						
Security		To ensure	correct operation er	Warning ach "Device ID/Z bination must be	'one Group" & "Char e unique.	nnel/Zone List"
Scroll Up		Select All De Sel	ect All Delete Selected			Show All Cols
Scroll Down						
4 Feb 2015 14:30:56 - Sent 24 Feb 2015 14:30:56 - Rec 24 Feb 2015 14:30:57 - Rec 24 Feb 2015 14:30:59 - Rec 4 Feb 2015 14:30:59 - Rec	t Get Single Measurement Name Request eived ACK eived Measurement Name & Attribute Reply = Office Te eived Measurement for Application 228 (\$E4) Number 2	mp (\$2) Device 1 (\$1)) Channel 1 (\$1) U	nits 0 (\$0) Mu	ttiplier C	e Log To ard TransLink

Figure 10 Measurement Setup

7 Security

The Translink can communicate with and control any alarm panel that conforms to the C-Bus Security application. Such panels include the Ness D8/16 and Clipsal HomeSafe.

The Translink Controller will detect the presence of a <u>compliant</u> alarm panel on the network and automatically configure the security objects. Therefore if an alarm panel is not connected, some security objects and functionality will not be available.

The features supported include;

- Soft keypad to allow both arming and disarming the alarm remotely
- Alarm, Tamper & Panic status (where supported by the alarm)
- Zone status for up to 80 zones
- 5 line Alarm history
- 5 line Zone history

7.1 Keypad Name

The security Keypad can be named like other objects such as lighting, trigger or measurement objects. This is achieved using a similar method as previously described.

.	Translink Configurator V3.0.0.0 - Connected to 192.168.72.17:10003	- 🗆 ×
Groups	Security Names Keypad Status History Zones	
Triggers	Keypad Name Get from Controller Name Set in Controller House Alarm Keypad Erase in Controller	
Measurement		
Security		
Commands		
Scroll Up Scroll Down		
Transaction Log 24 Feb 2015 14:44:59 - Rec	eived Measurement for Application 228 (\$E4) Number 2 (\$2) Device 1 (\$1) Channel 1 (\$1) Units 0 (\$0) Multiplier C 🔨 🗹 Enable Log	
24 Feb 2015 14:45:21 - Rec 24 Feb 2015 14:45:59 - Rec 24 Feb 2015 14:46:21 - Rec	eived Measurement for Application 228 (\$E4) Number 1 (\$1) Device 120 (\$78) Channel 1 (\$1) Units 0 (\$0) Multipl eived Measurement for Application 228 (\$E4) Number 2 (\$2) Device 1 (\$1) Channel 1 (\$1) Units 0 (\$0) Multiplier 0 eived Measurement for Application 228 (\$E4) Number 1 (\$1) Device 120 (\$78) Channel 1 (\$1) Units 0 (\$0) Multipl	
<	V Clear	Translínk

Figure 11 Keypad Object Naming

7.2 Alarm Status & History

The alarm status and history objects have fixed names and cannot be changed. They can be read from the panel to ensure they are correct.

<i>.</i>	Translink Configurator V3.0.0.0 - Connected to 192.168.72.17:10003	- 🗆 ×
	Security Names	
Groups	Keypad Status History Zones	
Triggers	Panel Status Names Name Nam Status Alam Status	
Measurement	Tamper Status Panic Status Get All From Controller	
Security		
Commands		
Scroll Up Scroll Down		
Transaction Log		
24 Feb 2015 14:47:32 - Rei 24 Feb 2015 14:47:32 - Rei 24 Feb 2015 14:47:32 - Rei 24 Feb 2015 14:47:32 - End	ceived zone History Row 3 Reply = Zone History 3 ceived zone History Row 4 Reply = Zone History 4 ceived Zone History Row 5 Reply = Zone History 5 d of All Zone History Name messages	ranslink

Figure 12 Alarm Status Objects

@	Translink Configurator V3.0.0.0 - Connected to 192.168.72.17:10003	×
Groups	Security Names Keypad Status History Zones	
Triggers	Alarm History Names Name Rov 1 Alarm History 1 Rov 2 Alarm History 2	
Measurement	Row 3 Alam History 3 Row 4 Alam History 4 Row 5 Alam History 5 Get from Controller	
Security	Name Row 1 Zone History Names	
Commands	Row 2 Zone History 2 Row 3 Zone History 3 Row 4 Zone History 4	
Scroll Up	Row 5 Zone History 5 Get from Controller	
4 Feb 2015 14:47:59 - Rec 24 Feb 2015 14:48:21 - Rec 24 Feb 2015 14:48:59 - Rec 24 Feb 2015 14:49:21 - Rec 4 Feb 2015 14:49:21 - Rec	zeived Measurement for Application 228 (\$E4) Number 2 (\$2) Device 1 (\$1) Channel 1 (\$1) Units 0 (\$0) Multiplier 0 ∧ zeived Measurement for Application 228 (\$E4) Number 1 (\$1) Device 120 (\$78) Channel 1 (\$1) Units 0 (\$0) Multiplier 0 zeived Measurement for Application 228 (\$E4) Number 2 (\$2) Device 1 (\$1) Channel 1 (\$1) Units 0 (\$0) Multiplier 0 zeived Measurement for Application 228 (\$E4) Number 1 (\$1) Device 120 (\$78) Channel 1 (\$1) Units 0 (\$0) Multiplier 0 zeived Measurement for Application 228 (\$E4) Number 1 (\$1) Device 120 (\$78) Channel 1 (\$1) Units 0 (\$0) Multiplier 0 zeived Measurement for Application 228 (\$E4) Number 1 (\$1) Device 120 (\$78) Channel 1 (\$1) Units 0 (\$0) Multiplier 0 zeived Measurement for Application 228 (\$E4) Number 1 (\$1) Device 120 (\$78) Channel 1 (\$1) Units 0 (\$0) Multiplier 0 zeived Measurement for Application 228 (\$E4) Number 1 (\$1) Device 120 (\$78) Channel 1 (\$1) Units 0 (\$0) Multiplier 0 zeived Measurement for Application 228 (\$E4) Number 1 (\$1) Device 120 (\$78) Channel 1 (\$1) Units 0 (\$0) Multiplier 0 zeived Measurement for Application 228 (\$E4) Number 1 (\$1) Device 120 (\$78) Channel 1 (\$1) Units 0 (\$0) Multiplier 0 zeived Measurement for Application 228 (\$E4) Number 1 (\$1) Device 120 (\$78) Channel 1 (\$1) Units 0 (\$0) Multiplier 0 zeived Measurement for Application 228 (\$E4) Number 1 (\$1) Device 120 (\$78) Channel 1 (\$1) Units 0 (\$0) Multiplier 0 zeived Measurement for Application 228 (\$E4) Number 1 (\$1) Device 120 (\$78) Channel 1 (\$1) Units 0 (\$0) Multiplier 0 zeived Measurement for Application 228 (\$E4) Number 1 (\$1) Device 120 (\$78) Channel 1 (\$1) Units 0 (\$10 Units 0	TransLink

Figure 13 History Objects

7.3 Zones

The Translink supports all 80 zones as defined in the C-Bus Security protocol. Any or all of these zones can be configured with individual object names.

Object names are set using the same procedure as previously described.

	Translink Configurator V3.0.0.0 - Conne	cted to 192.168.72.17:10003	
Groups	Se	curity Names	
Groups	Keypad Status History Zones		
A.A.	Single Zone Name	All Zone Names	Get All Clear List
Triggers	Zone Number 1 Get from Controller	Zone Name	
	Name Set in Controller	Lounge Zone	
170	Lounge Zone Erase in Controller	2 Dining Zone 3 Family Zone	
Measurement		4 Office Zone	
E C		20 Bedroom 1 Zone	
		40 Outside Zone	
0		80 Kitchen Zone	
Security			
0			
_			
Commands			
		0 items selected from a total of 8 items	
Scroll Un		Select All De Select All Delete Selected	Show All Cols
Scroll Down			
insaction Log			
Feb 2015 14:51:40 - End	d of All Security Zone Name messages	^ 🗹 E	hable Log
1 Feb 2015 14:51:46 - Ser	nt Get Single Zone Name Request	C	ony To
Feb 2015 14:51:46 - Rec	ceived Security Zone Name & Attribute Reply = Lounge Zone	a	ipboard
	,		
		v	Clear Tronslin

8 Commands

The Translink Configurator has built in utility functions that allow the reading and setting of C-Bus levels, sending of triggers and reading measurements. These functions are primarily designed as a mechanism to verify the functionality of the Translink Controller independently of the Translink User Application.

8.1 Lighting

8.1.1 Initial Levels on Power up (or Reboot)

The Translink Controller maintains its own internal set of levels for all the group addresses that are known to C-Bus i.e. stored in a C-Bus output unit. These levels are queried by the controller on startup and are used as the basis of level information that is sent to the Translink User Application each time it starts.

Over time as activity occurs this internal level list gets modified and added to as network traffic is received and processed, thus ensuring the controller knows the state of all known & active group addresses on the C-Bus network.

This table that is held in RAM for fast access, and can be viewed using the Translink Configurator by performing the following steps;

- 1. Establish a connection to the Translink Controller.
- 2. Go to the "Commands" tab
- 3. Go to "Lighting" sub tab
- 4. Under "Show all Group Levels" select the Application Address from the dropdown list.

Triggers	Commands										
	Lighting Triggers Measurement Security	4									
TT.	Set Single Lighting Group	Shov	v All I	ighting	Levels	(TL RAM)				
Measurement	Antantia Addam	Application A	ddress 5	6 (\$38) 🔻	Get All	Clear Lis	t				
	Application Address	Application	Group D	ec Group He:	Level		^				
	Dec Hex	56	1	1	0 (0%) (\$0)						
Conurity	Group Address	56	2	2	0 (0%) (\$0)	· · · · ·					
Security		56	3	3	U (U%) (\$0)						
Contraction of the second seco	On Off	56	5	5	255 (100%) (SFF)					
		56	6	6	255 (100%) (SFF)					
4440	level Time 🔹	56	7	7	255 (100%) (SFF)					
Commands		56	8	8	255 (100%) (\$FF)					
		56	12	С	188 (74%)	(\$BC)					
~	Ramp	56	13	D	61 (24%) (\$3D)					
		56	15	F	157 (62%)	(\$9D)					
		56	17	11	255 (100%) (SFF)					
Factory		56	20	14	0 (0%) (\$0)						
		56	21	15	95 (38%) (\$5F)					
Scroll Up		56	22	16	255 (100%) (\$FF)	~				
		26 items									
🚽 Scroll Down											
										-	
Feb 2015 14:54:52 - Re	ceived Lighting Group Level Reply								^	Enable Log	
Feb 2015 14:54:52 - Re	ceived Lighting Group Level Reply									Conv. To	
Feb 2015 14:54:52 - En	d of Group Level messages									Clipboard	
Feb 2015 14:54:59 - Re	ceived Measurement for Application 228 (\$E4)	Number 2 (\$2) Devic	e 1 (\$1) C	nannel 1	(\$1) Un	its 0 (\$	0) Multipli	er C	· ·	

5. Press the "Get All" button.

Figure 14 Levels held in Controller RAM

Note: The returned list will only show levels for group addresses the Controller was able to initially query, from the C-Bus network that the controller is connected to. If other traffic is received over time from other sources such as Phantom Group addresses or the far side of C-Bus bridges, then this will be added to the table.

8.1.2 Set Single Group Address Level

This function will set the level of a single chosen group address. This function causes the Controller to send the appropriate command onto the C-Bus network. Any group address can be chosen regardless as to whether it exists on the C-Bus network or not.

To set a single group address level, perform the following steps;

- 1. Establish a connection to the Translink Controller.
- 2. Go to the "Commands" tab.
- 3. Go to the "Lighting" sub tab
- 4. Under "Set Single Group Address Level" choose the Application address from the drop down list.
- 5. Enter the Group Address.
- 6. Press the "On" or "Off" button or
 - a. Select the desired level
 - b. Select the desired ramp time
 - c. Press the "Ramp Button.

Triggers	Commands										
inggere	Lighting Triggers Measurement Securit	ty									
(E	Set Single Lighting Group	Show	v All Li	ghting	Levels (TL RA	M)					
Measurement		Application A	ddress 56 (\$38) 🔻	Get All Clear	List					
•	Application Address 56 (\$38) -	Antipation	Course Data	Course Have	1 minut	^					
	Dec Hex	Application	Group Dec	dibup nex		-					
	Group Address 5	00	1	2	0 (0%) (50)						
Security		56	2	2	0 (0%) (\$0)						
		56	4	4	0 (0%) (\$0)						
0	On Off	56	5	5	255 (100%) (SEE)						
		56	6	6	255 (100%) (SFF)						
111	Loud 58 (23%) (\$36) Time (\$26 (20c) =	56	7	7	255 (100%) (\$FF)						
Commands	Level 30 (23 /0) (45A) · · · · · · · · · · · · · · · · · · ·	56	8	8	255 (100%) (\$FF)						
Link Contrained		56	12	С	188 (74%) (\$BC)						
	Bamp	56	13	D	61 (24%) (\$3D)						
		56	14	E	255 (100%) (\$FF)						
		56	15	F	157 (62%) (\$9D)						
Factory		56	17	11	255 (100%) (\$FF)						
		56	20	14	0 (0%) (\$0)	- 1					
		56	21	15	95 (38%) (\$5F)	- 1					
1 Scroll Up		56	22	16	255 (100%) (\$FF)	\sim					
Scroll Down		26 items									
ction log											
eb 2015 14:57:59 - Rei	ceived Measurement for Application 228 (\$E4)	Number 2 (\$2) Device	1 (\$1) Ch	iannel 1 (\$1) U	Inits	0 (\$0) Multiplier 0 ^ ⊠ E	inable Log			
eb 2015 14:58:21 - Rei	ceived Measurement for Application 228 (\$E4)	Number 1 (\$1) Device	120 (\$78) Channel 1 (\$	1) Ur	nits 0 (\$0) Multipl				
eb 2015 14:58:59 - Re	ceived Measurement for Application 228 (\$E4)	Number 2 (\$2) Device	1 (\$1) Ch	iannel 1 (\$1) L	Inits	0 (\$0) Multiplier 0	Copy To			
oh 2015 14:50:21 - Ro	ceived Measurement for Application 228 (\$E4)	Number 1 (\$1) Device	120 (\$78) Channel 1 (\$	1) Ur	hits 0 (\$0) Multipl				

Figure 15 Set Group Level

8.2 Triggers

Triggers can be manually sent by entering the appropriate Trigger Group and Action Selector values.

<i>.</i>	Translink Configurator V3.0.0.0 - Connected to 192.168.72.17:10003	- 🗆 ×
Triggers	Lighting Triggers Measurement Security	
Measurement	Send Trigger Command	
Commands	Send	
Factory Scroll Up		
Scroll Down Transaction Log 24 Feb 2015 15:00:21 - Re	ceived Measurement for Application 228 (\$E4) Number 1 (\$1) Device 120 (\$78) Channel 1 (\$1) Units 0 (\$0) Multipl 🔨 🗹 Enable Log	
24 Feb 2015 15:00:59 - Re 24 Feb 2015 15:01:21 - Re 24 Feb 2015 15:01:59 - Re 4 Feb 2015 15:01:59 - Re	ceived Measurement for Application 228 (\$E4) Number 2 (\$2) Device 1 (\$1) Channel 1 (\$1) Units 0 (\$0) Multiplier C ceived Measurement for Application 228 (\$E4) Number 1 (\$1) Device 120 (\$78) Channel 1 (\$1) Units 0 (\$0) Multiplier C ceived Measurement for Application 228 (\$E4) Number 2 (\$2) Device 1 (\$1) Channel 1 (\$1) Units 0 (\$0) Multiplier C Copy To Capboard Cear	TransLink

8.3 Measurement

Any inbound measurement messages that have been configured and received (either on the Measurement or HVAC application) can be displayed.

Only messages that have already been configured in the Translink controller will display here, and only after a broadcast for that message has been received by the Translink Controller.

			Translink Configurat	or V3.0.0.0 - Conne	cted to 192.168.72	.17:10	003					
Triggers					Commands							
riggers	Lighting	Triggers Meas	surement Security	y								
	Show All Measurement Levels (TLRAM) Get All											Clear List
Measurement	Number	Device/Zone Group Dec	Device/Zone Group Hex	Channel/Zone List Dec	Channel/Zone List Hex	Units	Multiplier	Value MSB	Value LSB	Output		
	1	120	78	1	1	0	255	0	247			
Security	2					U	U	21	60			
Commands												
Factory												
1 Scroll Up												
Scroll Down	2 items											
Fransaction Log												
24 Feb 2015 15:04:21 - Rec	eived Me	asurement for App	lication 228 (\$E4)	Number 1 (\$1) De	vice 120 (\$78) Ch	anne	1 (\$1)	Units 0 (60) Multip	ol^ ⊠∎	inable Log	
24 Feb 2015 15:04:59 - Red 24 Feb 2015 15:05:21 - Red 24 Feb 2015 15:05:59 - Red	eived Me eived Me eived Me	asurement for App asurement for App asurement for App	blication 228 (\$E4) blication 228 (\$E4) blication 228 (\$E4)	Number 2 (\$2) De Number 1 (\$1) De Number 2 (\$2) De	vice 120 (\$78) Ch vice 120 (\$78) Ch vice 1 (\$1) Chanr	nanne nal 1 (\$1) Uni 1 (\$1) \$1) Uni	Units 0 (\$0) Units 0 (\$ ts 0 (\$0)	Multiplier 60) Multip Multiplier		Copy To Clipboard	
<										~	Clear Tr	anslínk

8.4 Security

8.4.1 Keypad

Provides a soft keypad for testing of alarm functionality.

	Translink Configurator V3.0.0.0 - Connected to 192.168.72.17:10003	- 🗆 ×
	Commands	
	Lighting Triggers Measurement Security	
Measurement	Keypad Status Zones History	
I Heastrement	Send Key Press	
Security	7 8 9	
	Am 0 Enter	
Commands		
Factory		
1 Scroll Up		
🚽 Scroll Down		
Transaction Log		
24 Feb 2015 15:04:59 - Re 24 Feb 2015 15:05:21 - Re 24 Feb 2015 15:05:59 - Re 24 Feb 2015 15:06:21 - Re	ceived Measurement for Application 228 (\$E4) Number 2 (\$2) Device 1 (\$1) Channel 1 (\$1) Units 0 (\$0) Multiplier 0 ∧ ceived Measurement for Application 228 (\$E4) Number 1 (\$1) Device 120 (\$78) Channel 1 (\$1) Units 0 (\$0) Multiplier 0 ceived Measurement for Application 228 (\$E4) Number 2 (\$2) Device 1 (\$1) Channel 1 (\$1) Units 0 (\$0) Multiplier 0 ceived Measurement for Application 228 (\$E4) Number 2 (\$2) Device 1 (\$1) Channel 1 (\$1) Units 0 (\$0) Multiplier 0 Ceived Measurement for Application 228 (\$E4) Number 2 (\$2) Device 1 (\$1) Channel 1 (\$1) Units 0 (\$0) Multiplier 0 Ceived Measurement for Application 228 (\$E4) Number 2 (\$2) Device 1 (\$1) Channel 1 (\$1) Units 0 (\$0) Multiplier 0 Ceived Measurement for Application 228 (\$E4) Number 1 (\$1) Device 120 (\$78) Channel 1 (\$1) Units 0 (\$0) Multiplier 0 Ceived Measurement for Application 228 (\$E4) Number 1 (\$1) Device 120 (\$78) Channel 1 (\$1) Units 0 (\$0) Multiplier 0 Ceived Measurement for Application 228 (\$E4) Number 1 (\$1) Device 120 (\$78) Channel 1 (\$1) Units 0 (\$0) Multiplier 0 Ceived Measurement for Application 228 (\$E4) Number 1 (\$1) Device 120 (\$78) Channel 1 (\$1) Units 0 (\$0) Multiplier 0 Ceived Measurement for Application 228 (\$E4) Number 1 (\$1) Device 120 (\$78) Channel 1 (\$1) Units 0 (\$0) Multiplier 0 Ceived Measurement for Application 228 (\$E4) Number 1 (\$1) Device 120 (\$78) Channel 1 (\$1) Units 0 (\$10) Multiplier 0 Ceived Measurement for Application 228 (\$E4) Number 1 (\$10) Device 120 (\$78) Channel 1 (\$10) Device 120 (\$10 Cm mathemathemathemathemathemathemathemathe	
<	V Clear	TransLínk

8.4.2 Status

Shows the current Alarm, Tamper & Panic status (where supported by the alarm panel)

2	Translink Configurator	V3.0.0.0 - Connected to 192.168.72.17:100	03	- 🗆 ×
Triggers	Lighting Triggers Measurement Security	Commands		
Measurement	Keypad Status Zones History Alarm Status	Tamper Status	Panic Status	
Security	Alam Status Disamed	Tamper Status No Tamper Get All	Panic Status No Panic	
Commands				
Factory				
Scroll Down				
24 Feb 2015 15:07:10 - Go 24 Feb 2015 15:07:10 - Go 24 Feb 2015 15:07:10 - Go 24 Feb 2015 15:07:10 - En 4 Feb 2015 15:07:10 - En	t Alarm Status message = Disarmed t Tamper Status message = No Tamper t Panic Status message = No Panic d of Get All Status' message		 ✓ Enable Log Copy To Clapboard ✓ Clear 	TransLink

8.4.3 Zones

Shows the current Zone status for all 80 supported zones. (Un-configured or not present zones will report as sealed)

A	Commands
Inggers	Lighting Triggers Measurement Security
	Vanad Schu Zoner History
TE	Neypau Status Zoires Instory
Measurement	Show All Zone Status (TL RAM) Get All Ocer List
	Number Shine
Security	Number Status
	2 UnSealed
	3 UnSealed
	4 UnSealed
THIN Common da	5 Sealed
Commands	6 Sealed
	7 Sealed
	8 Sealed
Real	9 Sealed
	10 Sealed
Factory	11 Sealed
	12 Sealed
Coroll Un	13 UnSealed
Scroll op	
Scroll Down	
¥ CONTRACTOR	
isaction Log	
Eeb 2015 15:07:50 Doc	aived Measurement for Application 228 (\$E4) Number 2 (\$2) Device 1 (\$1) Channel 1 (\$1) Units 0 (\$0) Multiplier 0 A
Fob 2015 15:08:03 Sor	Cat
Teb 2015 15:08:03 - Ser	In der Zuhle Status Message
Feb 2015 15:06:03 - Red	All Clipboard
Feb 2015 15:08:04 - End	l of Get All Zone Status' message

8.4.4 History

Shows the last 5 activities for both the Alarm and Zones. E.g. This is useful to see what caused an alarm condition.

2	Translink Configu	rator V3.0.0.0 - Connected to 192.168.72.17:10003	- □ ×
Tringers		Commands	
inggers	Lighting Triggers Measurement Secu	rity	
NT	Keypad Status Zones History		
Measurement	Alarm History	Zone History	
	Row 1 Aarm Off	Row 1 Zone Unsealed For Zone 1	
Security	Row 2 System Disamed	Row 2 Zone Unsealed For Zone 2	
	Row 4 Alarm On	Row 4 Zone Unsealed For Zone 4	
Commands	Row 5 System Armed	Row 5 Zone Unsealed For Zone 13	
	Get All	Get All	
Factory			
1 Scroll Up			
🚽 Scroll Down			
Transaction Log 24 Eph 2015 15:00:26 - Reg	naived Zone Message 'Zone Linsealed' for Z	nne History Row 113 For Zone 3	
24 Feb 2015 15:09:26 - Rec 24 Feb 2015 15:09:26 - Rec 24 Feb 2015 15:09:26 - Rec 24 Feb 2015 15:09:26 - Enc	eviced Zone Message 'Zone Unsealed' for Z eviced Zone Message 'Zone Unsealed' for Z eviced Zone Message 'Zone Unsealed' for Z d of All Zone History messages	one History Row 114 For Zone 4 one History Row 115 For Zone 13	Copy To Clipboard
<			> Clear TransLink

9 Factory Utilities

The Translink Configurator has 3 additional utility functions normally used at the factory when the controller is first built.

These functions however could be of use when fault finding or moving a Controller between sites.

9.1 Erase EEProm

This function is used to erase all user and site specific data from the EEProm. It is useful when moving the controller to a new site, or when a clean un-configured controller is desired.

9.1 Reboot

This function is used to software reboot the controller.

Note: In extreme rare cases where the controller may have become unresponsive, it may be necessary to power cycle the controller instead.

9.1 Set PIN

This function is used to set the access PIN number in the controller.

All devices that wish to connect to the controller need to present this PIN number correctly. It is also set in the configuration of the iOS application.

Note: PIN can only be set and not read for security reasons.

Connect	Erase EEProm	Translink Reboot
Apps & Email	Erase Translink EEProm Erase Translink EEProm Warning:	Reboot Translink Reboot Translink Warning:
Groups	This will erase all user programmed data from the Translink. The process will take over 10 Minutes to complete. During this time the Translink will be unuseable.	This will reboot the Translink.
Levels		Set Personal Identification Number Pin Number Set
Factory		PIN must be 4 digits.
Transaction Log 06 Feb 2013 11:48:13 - Rev 06 Feb 2013 11:49:12 - Pa	ceived Off for application 56 (\$38) Group 11 (\$B)	h 26 (#14)
06 Feb 2013 11:48:13 - Rei 06 Feb 2013 11:48:13 - Rei 06 Feb 2013 11:48:13 - Pin	cerved Kamp for application 56 (\$38) Group 11 (\$B) To Level 128 (\$80) At Rat ceived On for application 56 (\$38) Group 11 (\$B) g Reply	re 26 (\$1A)

Figure 16 Factory Utilities

10 Translink Controller Details

The Translink Configurator application also allows the viewing of several internal parameters.

These parameters are;

• Controller serial number.

- Controller hardware version.
- Controller firmware version.
- Controller Names database version.
- Controller "Settings Allowed" flag.

These parameters can all be viewed from the "Connect" tab after establishing a connection to the controller.

Connect	Connect To Translink									
	Translink IP Details						Email Server Details			
-	IP Address	Port	MAC Address	Static (Re	commended) Oynami	Email Server IP	Address		Recipient 1 Email Addre	SS
Apps & Email				IP Address		Email Se	erver port			
-V				Port		User Name	Domain Name		Recipient 2 Email Addre	\$\$
3				Net Mask			@			
Groups				Gateway		Email 1 Subject			Edit Settings	
		Soon for T	melinke	Are You	Maying Natworks?	Email 2 Subject				
) E	Estal IP Address	blish a	a Connectio	'n	DB Version 9	Get Settings All	nk Details	Get Seri	al Number 123456	Get
Measurement	192.168.72.17		10003		H/W Version 1	Get Get	owed car chapted	Jen		
A Coroll Up	Conn	ect	Disconn	iect		Got	F/W Version 3.0.0	Get		
Scroll Down	The C-Bus Netwo	ork must be	connected to the Tra	nslink Controller.	Lighting 1 Max G	roup Address Count 2	55 Get	Lighting 2 Max Gro	oup Address Count 255	Get
ction Log									_	
eb 2015 15:11:40 - Rec eb 2015 15:11:40 - Rec eb 2015 15:11:59 - Rec eb 2015 15:11:59 - Rec eb 2015 15:12:21 - Rec	eived ACK eived Lighting eived Measu eived Measu	g 1 Max rement rement	imum Group A for Application for Application	ddress Count 228 (\$E4) Nu 228 (\$E4) Nu	Reply = 255 Imber 2 (\$2) Devic Imber 1 (\$1) Devic	e 1 (\$1) Channe e 120 (\$78) Cha	el 1 (\$1) Units 0 annel 1 (\$1) Unit	(\$0) Multiplier (s 0 (\$0) Multipl	Copy To Cipboard	

The parameters have the following definition;

Field	Description
Serial number	The factory set serial number of the controller. The same number as
	printed on the outside of the controller.
Hardware version	The controller Hardware revision
Firmware version	The controller firmware version
Names database	A version number used to track and notify user applications of a change in
version	the group address names database, thus triggering an upload of the new
	names. This value will change whenever a group name is changed.
"Settings Allowed"	A flag that is used by the "user application" to determine if access to the
flag	page configuration area should be allowed. This is set/reset by inserting a
	hardware key into the controller. It is used to prevent unauthorised
	changes to the "user application" page configuration.
Lighting 1 Max	The maximum number of group addresses allowed for the Lighting 1
Group Address	application. This is set in the factory, and is dependent on the Translink tier
Count	purchased.
Lighting 2 Max	The maximum number of group addresses allowed for the Lighting 2
Group Address	application. This is set in the factory, and is dependent on the Translink tier
Count	purchased.

11 Updating Controller Firmware

The Translink Controller comes installed with a boot loader utility allowing the field upgrading of its firmware.

These firmware updates may be provided from time to time by Hamfield to fix bugs or provide extra functionality.

Note: Firmware updates are done via a serial RS232 connection, and not via the Ethernet port.

11.1 Updating firmware

To update the controller's firmware, perform the following steps;

- 1. Connect the optional Programming/update cable to the controller.
- 2. Connect the PC serial port to the programming cable (programming connector)
- 3. Start the Configurator application.
- 4. Go to the "Update" tab (do not connect to the Translink or the Update tab will be greyed out).
- 5. Choose the Com Port that the controller is connected to.
- 6. Press the "Connect" button.
- 7. Power cycle the controller.
- 8. If a connection has been made the "Browse for Hex" button will enable.
- 9. Press the "Browse for hex" button and locate the hex file containing the update.
- 10. Press the "Begin Upload" button
- 11. When complete, power cycle the controller.

Note: the actual update time can vary from 5 minutes to nearly an hour depending on the PC serial port type. Built in serial ports are the fastest, with serial over Ethernet adapters being the slowest.



Figure 17 Controller Firmware Update