

Configuration Requirements for Tranzeo TR-902

ESW-10-01

Applicability	
ARTC Network Wide	
SMS	
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1.0 28 Jul 19 First issue of work instruction to support Tranzeo TR-902 approval.	1.0	28 Jul 19		First issue of work instruction to support Tranzeo TR-902 type approval.

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1 Introduction

1.1 Purpose

This work instruction details requirements for the set up and configuration of the Tranzeo TR-902 for use with Microlok II.

1.2 Scope

It is primarily directed for use with Microlok Interlockings providing a vital radio link but it is not necessarily limited to that use.

This document should be used in conjunction with a detailed Network design.

This document also describes other relevant information or limitations.

1.3 Definitions

The following terms and acronyms are used within this document:

Term or acronym	Description
Preferred setting	Preferred values to be set
Optional setting	Optional values to be set dependent on a number of factors including network design
Assigned as per Network Design	Critical information relating to values to be set
Comment on configuration setting	General comments or information



(Assigned as per the network design)

2 CONFIGURATION SETTINGS

2.1 Administrative Settings

Device Name

Default – Enter the Device Name.

User Name

Defaultadmin-(Assigned as per the network design)Enter the User Name preferred to retain admin.

Password

Default–(Assigned as per the network design)Enter the Password and Confirm Password as per design.

NOTE: - The Password entry is required on initial setup.

Required on initial setup is the **RECOVERY PASSWORD** and must be recorded.

Check Box Options

Extended Wireless Information	Checked
Signal/Status LEDs	Checked
Block Locator Probes	Unchecked
Block Locator Write Access	Unchecked
Block Locator Reset	Unchecked
Check Box Options	
Enable TFTP Auto-Config	Unchecked
SNMP Options	
SNMP Port (default: 161) Read Community System Contact Device Location RFC-1213 Traffic Counter Format	Leave blank artc Optional Location of Device 32-bit Counter (compliant)
Watchdog	
Ping Watchdog Action	Disable

Enable Reboot Watchdog

Unchecked

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2.2	Network Configuration	
	Mode	
	Select Mode	Bridge
	IP Mode	Static
	IP Address	
	Default – Enter the IP Address as per design.	(Assigned as per the network design)
	Subnet Mask	
	Default – Enter the Subnet Mask as per design.	(Assigned as per the network design)
	Gateway	
	Default – Enter the Gateway as per design.	(Assigned as per the network design)
	DNS1, DNS2 and Domain Name	
	Default 0.0.0.0 – Enter the DNS1, DNS2 and Domain as per d	(Assigned as per the network design) esign.
	NOTE: - Usually these are not used and are	left as default.
	Check Box Options	
	Block Reverse DHCP	Unchecked
	Block Outgoing IGMP	Unchecked
	Block Outgoing Locator	Unchecked
	Block Outgoing Multicast	Unchecked
	MAC Address	Unchecked
	Web Port	
	Default – 80 Enter the Web Port as per design usually left	(Assigned as per the network design) as default.
	MGMT VLAN	
	Default – NO VLAN Enter the MGMT VLAN as per design usually	(Assigned as per the network design) left as default.
	Ethernet (wired) [Port A and Port B]	
	Default – Auto, Auto Preferred 100, Enter the value for both ports A and B.	Full
	The preferred value can be changed depend	ent on connection required.
	Traffic Shaping Options	
	Enable TX Traffic Shaping	Checked



Exempt Management Traffic	Checked
Exempt ICMP/Ping Traffic	Checked
Exempt Multicast/Broadcast Traffic	Unchecked
Max Transmit Rate (Kbps, 0 for unlimited)	0
Default values preferred but can be changed	l if required.



2.3 Wireless Settings – Access Point

Basic

Wireless Mode	
Select	Access Point
NOTE – There are two types of Wireless Mod	de with <u>different Menu settings</u> for each.
This section is for AP or Access Point	
SSID	
Default – Enter the SSID as per design.	(Assigned as per the network design)
Visibility Status	
Select	Visible
Location	
Select	Outdoor
Channel Width	
Preferred	Quarter (5MHz)
The preferred value can be changed depende	ent on requirements.
Channel	
Preferred	920/5 MHz
The preferred value can be changed depende	ent on requirements.
802.11g Enabled and Supported Tx Rates	
802.11g Enabled	Unchecked
1Mbps	Checked
2Mbps	Checked
5.5Mbps	Checked
11Mbps	Unchecked
Using Tx Rate	Best (automatic)
The preferred Tx rates values can be change If 802.11g is enabled more supported Tx rate	d dependent on requirements. s are available.
These selected rates much match the remote	connection as this may prevent association.
Link Distance	
Enter the Approx. Link Distance in whe	ole kilometres. <mark>Select km</mark>
PxP Mode Enabled	
Option	Checked



This option must be selected.		
PxP MAC Address		
Enter the MAC Address of the remote CPE Tranzeo unit.		
This option must be entered.		
Select Country		
Select	AU9:Australia	
Block Inter-client Traffic		
Option	Unchecked	
Power Cap (dbm)		
Adjust the Power Cap with reference to the onsite signal wireless performance.		
Antenna Gain		
Adjust the Antenna Gain with reference to the onsite signal wireless performance.		

Advanced

RTS Thresh	old (0-3000)	
Default	-	3000
Fragmentat	ion Threshold (256-2346)	
Default	-	2346
ACK Timeo	ut Tuning (-100 - 100 µs)	
Default	-	0
Beacon Inte	erval (ms)	
Default	-	100
DTIM Interv	al	
Default	-	1
Burst Time		
Default	-	0
802.11d Ena	abled	
Default	-	Unchecked
Preamble		
Default	-	AUTO

2.4 WDS – Access Point

WDS

Option

Unchecked



2.5 Wireless Settings – Infrastructure Station

Basic

Wireless Mode		
Select	Infrastructure Station	
NOTE – There are two types of Wireless Mo	de with <u>different Menu settings</u> for each.	
This section is for CPE or Infrastructure Stati	on	
Primary SSID		
Default – Enter the SSID as per design.	(Assigned as per the network design)	
Secondary SSID	Not Used	
Location		
Select	Outdoor	
Channel Width		
Preferred	Quarter (5MHz)	
The preferred value can be changed depend	ent on requirements.	
802.11g Enabled and Supported Tx Rates		
802.11g Enabled	Unchecked	
1Mbps	Checked	
2Mbps	Checked	
5.5Mbps	Checked	
11Mbps	Unchecked	
Using Tx Rate	Best (automatic)	
The preferred Tx rates values can be change If 802.11g is enabled more supported Tx rate	ed dependent on requirements. es are available.	
These selected rates much match the remote	e connection as this may prevent association.	
Link Distance		
Enter the Approx. Link Distance in whole kilometres. Select km		
PxP Mode Enabled		
Option	Checked	
This option must be selected.		
PxP MAC Address		
Enter the MAC Address of the remote AP Tra	anzeo unit.	
This option must be entered.		



	Select Country	
	Select	AU9:Australia
	Power Cap (dbm)	
	Adjust the Power Cap with reference to the o	nsite signal wireless performance.
	Antenna Gain	
	Adjust the Antenna Gain with reference to the	e onsite signal wireless performance.
d	I	
	RTS Threshold (0-3000)	
	Default –	3000
	Fragmentation Threshold (256-2346)	
	Default –	2346
	ACK Timeout Tuning (-100 - 100 μs)	
	Default –	0

Advanced

Default	-	3000		
Fragmentation Threshold (256-2346)				
Default	_	2346		
ACK Timeout Tuning (-100 - 100 μs)				
Default	_	0		
Roaming Threshold (-100dBm50dBm)				
Default	_	-100		
Preamble				
Default	_	AUTO		
Timestamp of AP's Beacon				
Default	_	CHECK		