

Configuration Requirements for Tranzeo TR-902

ESW-10-01

Applicability

ARTC Network Wide
SMS

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Amendment Record

Amendment Version #	Date Reviewed	Clause	Description of Amendment
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

2 CONFIGURATION SETTINGS

2.1 Administrative Settings

Device Name

Default – (Assigned as per the network design)
 Enter the Device Name.

User Name

Default **admin** – (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
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SNMP Options

SNMP Port (default: 161)	Leave blank
Read Community	artc
System Contact	Optional
Device Location	Location of Device
RFC-1213 Traffic Counter Format	32-bit Counter (compliant)

Watchdog

Ping Watchdog Action	Disable
Enable Reboot Watchdog	Unchecked

2.2 Network Configuration

Mode

Select Mode **Bridge**

IP Mode **Static**

IP Address

Default – **(Assigned as per the network design)**

Enter the IP Address as per design.

Subnet Mask

Default – **(Assigned as per the network design)**

Enter the Subnet Mask as per design.

Gateway

Default – **(Assigned as per the network design)**

Enter the Gateway as per design.

DNS1, DNS2 and Domain Name

Default 0.0.0.0 – **(Assigned as per the network design)**

Enter the DNS1, DNS2 and Domain as per design.

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** **(Assigned as per the network design)**

Enter the Web Port as per design usually left as default.

MGMT VLAN

Default – **NO VLAN** **(Assigned as per the network design)**

Enter the MGMT VLAN as per design usually left as default.

Ethernet (wired) [Port A and Port B]

Default – Auto, Auto Preferred **100, Full**

Enter the value for both ports A and B.

The preferred value can be changed dependent on connection required.

Traffic Shaping Options

Enable TX Traffic Shaping **Checked**

CONFIGURATION SETTINGS

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 if required.

2.3 Wireless Settings – Access Point

Basic

Wireless Mode

Select **Access Point**

NOTE – There are two types of Wireless Mode with different Menu settings for each.

This section is for AP or Access Point

SSID

Default – **(Assigned as per the network design)**

Enter the SSID as per design.

Visibility Status

Select **Visible**

Location

Select **Outdoor**

Channel Width

Preferred **Quarter (5MHz)**

The preferred value can be changed dependent on requirements.

Channel

Preferred **920/5 MHz**

The preferred value can be changed dependent 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 changed dependent on requirements.

If 802.11g is enabled more supported Tx rates are available.

These selected rates much match the remote 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 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 Threshold (0-3000)

Default – **3000**

Fragmentation Threshold (256-2346)

Default – **2346**

ACK Timeout Tuning (-100 - 100 μs)

Default – **0**

Beacon Interval (ms)

Default – **100**

DTIM Interval

Default – **1**

Burst Time

Default – **0**

802.11d Enabled

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 Mode with different Menu settings for each.

This section is for CPE or Infrastructure Station

Primary SSID

Default – **(Assigned as per the network design)**

Enter the SSID as per design.

Secondary SSID **Not Used**

Location

Select **Outdoor**

Channel Width

Preferred **Quarter (5MHz)**

The preferred value can be changed dependent 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 changed dependent on requirements.

If 802.11g is enabled more supported Tx rates are available.

These selected rates much match the remote 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 Tranzeo unit.

This option must be entered.

Select Country

Select **AU9:Australia**

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 Threshold (0-3000)

Default – **3000**

Fragmentation Threshold (256-2346)

Default – **2346**

ACK Timeout Tuning (-100 - 100 μs)

Default – **0**

Roaming Threshold (-100dBm - -50dBm)

Default – **-100**

Preamble

Default – **AUTO**

Timestamp of AP's Beacon

Default – **CHECK**