





TRBONET ENTERPRISE/PLUSDIMETRA Express Deployment Guide

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1 Introduction

1.1 About This Document

The information in this guide is intended for administrators setting up evaluation and proof-of-concept deployments of DIMETRA Express Dispatch over IP solutions. The document describes the steps required to configure communication with a DIMETRA Express system.

For more comprehensive information on the Neocom TRBOnet family of radio network software tools, refer to the <u>Documentation section</u> of our web site.

1.2 About TRBOnet

TRBOnet is a suite of professional applications for DIMETRA digital two-way radio networks. TRBOnet manages voice and data communication paths across network endpoints. It provides a unified graphical dispatcher workbench interface for the entire range of workforce fleet management tasks.

1.3 Contacts

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APAC	+61 28 607 8325	<u>http://trbonet.com/kb/</u> — online knowledge base



2 System Components and Terms

2.1 TRBOnet Software

The TRBOnet software consists of several modules, a combination of which enables you to build enterprise dispatch solutions of different levels of complexity and redundancy. The first step in implementing the best solution is determining the topology for the customer's system; then identifying the combination of modules to implement the best customer solution.

2.2 IP Connection (Wireline Connection)

TRBOnet Server can be connected to a two-way radio system via an IP connection creating a direct communications path for all voice and data information between them. The topologies can be in the form of a LAN, WAN, or VLAN and/or any combination thereof.



3 System Description

DIMETRA Express is a new flexible TETRA system. By integrating the switch and base radios in a one-box or modular system it's now quick and easy to set up, deploy, and manage your communications. You simplify everyday operations while reducing costs and complexity over the long term.

You can quickly integrate DIMETRA Express into your network, provision multiple subscribers, and complete installation easily using browser-based apps and tools. Once it's up and running, DIMETRA Express is easier to manage and operate through web-based network management and TRBOnet Enterprise/PLUS applications.





4 Configuring DIMETRA Express

This section describes how to configure DIMETRA Express equipment, such as a DIMETRA Express controller, radios etc., using browser-based tools.

- Launch the Web browser.
- In the Address field, type the IP address of the DIMETRA Express controller.
- In the **DIMETRA Express** page, click **Network Manager**.
- Enter the credentials and click **Login**.

4.1 DIMETRA Express Controller

This section describes how to configure the DIMETRA Express controller by using the Web browser.

4.1.1 DIMETRA Express Licenses

• Go to System Settings > General > Licenses.

System Health Industrial Statistics & Reports	State Users & Talkgroups	System Settings	
General			
System 🚠 Network 🔮 VPN	() Time 🐞 Certificat	e Q Antivirus 1 TRAC	CES D Licenses
Import Licenses			Device ID: 2046A102D78
License Name		Purchased	Expiry Date
DIMETRA Express Core		1	Permanent
Clear Authentication		1	Permanent
Dispatch Console Position		5	Permanent
ATIA API		√	Permanent
Fault Forwarding NBI API		~	Permanent
Short Data MS To Group		1	Permanent
Radio User		20	Permanent
Dynamic Regrouping with RCM		√	Permanent
RF Site		1	Permanent
Short Data Store And Forward		√	Permanent
Telephone Interconnect Call Capacity		2	Permanent
Voice Logging Capacity		5	Permanent
ECADI API		\checkmark	Permanent
Orthurse Maintenance		1	26.02.2026.22:50:50

Make sure the required licenses have been enabled:

Dispatch Console Position

This is the number of simultaneous connections between TRBOnet Server and DIMETRA Express controller. Make sure you have at least one item enabled.

Short Data MS To Group

If this item is enabled, you can send data messages to radio groups.



• Voice Logging Capacity

This is the maximum number of voice channels being simultaneously logged.

ECADI API

Make sure this item is enabled to support Group Affiliation, Radio Check, Radio Inhibit/Uninhibit, and some other features.

4.1.2 Dispatch Console Configuration

• Go to System Settings > Dispatch Console > Configuration.

Configuration Console Users Dispatch Console Type Express Console (API) Select Al Add Delete Download IOR Download IOR Console Client IP Addresses 1 10.10.107.56 2 10.10.177.56 3 10.10.177.56 5 10.10.177.30 5 10.10.177.30	- Dispatch	Console		
Disputch Console Type Express Console (API) Select All Add Delete Download IDR Image: Console Client IP Addresses Diversity Image: Console Client IP Addresses 1 10.10.101.55 Image: Console Client IP Addresses Image: Console Client IP Addresses 3 10.10.177.210 Image: Console Client IP Addresses Image: Console Client IP Addresses 5 10.10.177.125 Image: Console Client IP Addresses Image: Console Client IP Addresses 6 10.10.177.125 Image: Console Client IP Addresses Image: Console Client IP Addresses 7 10.10.177.30 Image: Console Client IP Addresses Image: Console Client IP Addresses	🖵 Config	uration 🖀 Console	Users	
Select All Add Delefe Download IOR Console Client IP Addresses 1 10.10.107.55 2 10.10.177.56 3 10.10.177.72.10 4 10.10.177.125 5 10.10.177.125 5 10.10.177.730 5 10.10.177.730 5 10.10.177.125 6 10.10.177.30 5 10.10.177.30 5 10.10.177.30	Dispatch (Console Type	Express Console (API) •	
Console Client IP Addresses 1 10.10.101.55 2 10.10.177.56 3 10.10.177.210 4 10.10.177.125 6 10.10.177.30 7 10.10.177.30	Select All	Add Delete D	unload IOR	
Console Client IP Addresses 1 10.10.101.55 2 10.10.177.56 3 10.10.177.710 4 10.10.101.59 5 10.10.177.125 6 10.10.177.30 7 10.10.177.30	Select All	Add Delete D	mildau lok	
IP Addresses 1 10.10.101.55 2 10.10.177.56 3 10.10.177.210 4 10.10.101.59 5 10.10.177.125 6 10.10.177.30 7 10.10.177.30		Console Client		
1 10.10.101.55 2 10.10.177.56 3 10.10.177.210 4 10.10.101.59 5 10.10.177.125 6 10.10.188.185 7 10.10.177.30		IP Addresses		
2 10.10.177.56 3 10.10.177.210 4 10.10.101.01.59 5 10.10.177.125 6 10.10.188.185 7 10.10.177.30	1	10.10.101.55		
3 10.10.177.210 4 10.10.101.59 5 10.10.177.125 6 10.10.188.185 7 10.10.177.30	2	10.10.177.56		
4 10.10101.59 5 10.10.177.125 6 10.10.188.185 7 10.10.177.30 ►	3	10.10.177.210		
5 10.10.177.125 6 10.10.188.185 7 10.10.10.177.30	4	10.10.101.59		
6 10.10.188.185 7 10.10.177.30	5	10.10.177.125		
7 10.10.177.30	6	10.10.188.185		
	1	10.10.177.30		

• Enter the IP address of the computer hosting TRBOnet Server.

Console Users

• Go to System Settings > Dispatch Console > Console Users.

мо	TORO	LA SOI	LUTIONS				Welcor	ne admin	🛔 Logoff
Q D	ispatch	Conso	le						-
Ţ	Configu	uration	😤 Co	nsole Users					•
5	Select All	Add	Delete						
		User ID	Login Name	Password	Ambience Listening				
	1	1 (trbonet	****					
	2	4	trbonet2	******					
	3	3	trbonet3	******					
	4	25	nick	******					
	5	35	nick2	******					
0	Cancel	Apply							



 Add an account to the list of the console users. Specify Login Name and Password for the console user account. These Login Name and Password will then be used when configuring the Console User in TRBOnet Server (see section <u>5.1.1.4, Console User</u>).

4.1.3 Voice Logging Configuration

• Go to System Settings > Voice Logging

MOTOROLA SOLUTIONS			Welcome admin	Logoff
Voice Logging				-
Logging Interface				×* (?)
Download IOR				
Login Name	logger	Logging Client IP Address	10.10.177.40	
Password		Corba TCP Port Number	7101	

 Enter Login Name and Password. These Login Name and Password will then be used when configuring the Logging Interface in TRBOnet Server (see section <u>5.1.1.3, Logging Interface</u>).

Logging Client IP Address

Enter the IP address of the Logging Client Application. Note that this must be a different IP address from the main IP address of the computer hosting TRBOnet Server. For this, you might need to configure an additional network interface.

Corba TCP Port Number

This is the TCP port number used for communication with the Logging Client application. This port number is not editable. This value must be used as **Controller Port** in TRBOnet Server (see section <u>5.1.1</u>, <u>Connecting DIMETRA Express</u>).



4.1.4 Short Data Configuration

• Go to System Settings > Short Data > Configuration.

MOTOROLA SOLUTION	s		Welcome a	dmin 💄 Logoff
♀ Short Data				-
♀ Configuration 🔮 Short	Data Hosts		Advanced	OFF 🖍 🕐
S&F Service Enabled		MS-To-Group Service Enabled		
		SDTS Port Number	6006	
Cancel Apply				

MS-To-Group Service Enabled

Make sure this option is enabled.

SDTS Port Number

This is the port number used by the Short Data Hosts to access the Short Data Transport Service. This port number is not editable. This value must be used as **Controller Port** in TRBOnet Server's Data Services (see section <u>5.1.1.2, Data Services</u>).

Short Data Hosts

• Go to System Settings > Short Data > Short Data Hosts.

MOTOROLA SOLUTIONS		Welcome admin
♀ Short Data		-
♀ Configuration 👹 Shi	ort Data Hosts	Advanced OFF 🖍 🕘
Select All Add Delete		
Host IDHost Name1100test	Host Passnumber	
Cancel Apply		

 Add a Short Data Host by specifying its Host ID, Host Name, and Host Passnumber.



4.1.5 Users and Talkgroups

Radio Users

• Go to Users and Talkgroups > Radio Users.

Select A	II Add	Delete	Export	Import			A	dvanced	OFF 🖍 🕐
	User	Radio	Radio	Telephony	Direct Dial	Short	Store &	Key	
1		117	Radio 117		Number		I Ofward	not loaded	
2		128	Radio 128					not loaded	
3		139	Radio 139					not loaded	
4		145	Radio 145					not loaded	

• Add required radios by specifying their **Radio ID** and **Radio Alias**.

Talkgroups

• Go to Users and Talkgroups > Talkgroups.



 Add required talkgroups by specifying their Talkgroup ID and Talkgroup Alias. These talkgroups will then be added as Audio Paths in TRBOnet Server (see section <u>5.1.1.5, Audio Paths</u>).



5 Configuring TRBOnet Software

This section describes how to configure TRBOnet software to work with your DIMETRA Express system.

5.1 Configuring TRBOnet Server

To start TRBOnet Server, click its shortcut on the desktop, or click **Start > All Programs > Neocom Software > TRBOnet Server x.x**

For how to configure TRBOnet Server's Database, Service, Network parameters, etc., refer to *TRBOnet Enterprise User Manual*.

5.1.1 LIP Location Service

This section describes how to configure LIP Location service in TRBOnet Server.

- Note: It is strongly recommended to use LIP triggers. LIP allows Indoor and Outdoor location information to be retrieved from Dimetra Express subscribers. Configuring Online/Offline trigger in Dimetra Express subscriber codeplug will allow dispatches to monitor radio status (Radio Online/Radio offline).
 - In the Configuration pane, under Radio Systems, select Services:
 - In the **Services** pane, make sure the **Location service (LIP / Indoor)** option is selected:





5.1.2 Connecting DIMETRA Express

This section describes how to configure TRBOnet Server for communication with the DIMETRA Express controller.

- In the **Radio Systems** pane, click **Add**. Or, in the **Configuration** pane, right-click **Radio Systems**.
- In the drop-down menu, click Add DIMETRA Express.

Configuration	n		R	adio Systems							
 Service Network Redundancy 	,			✓ Enable Radio	Systems						
Database				CAI Network:			12				
Reports	Reports			CAL Crown Natu	o du		225			*	
Service Management				CAI GIOUP NEU	IOIN.		220			r	
				Registered Ra	dio Systems						
	ng Se	ervers		Name			A	Address		Radio ID	
Radio Syste	ms										
PTT over Co	*	Add MOTOTR	BOS	bystem							
Remote Age	÷	Add Capacity	MA)	< Contract of the second secon							
Friendly Ser	÷	Add DIMETRA	Exp	ress							
Telephony	÷	Add Control S	tatio	n							
🖞 Data Source	4	Add TRBOnet	Swif	t Agent							
K Email	<u>.</u>	Add Friendly F	5-10	000 Station							
Buch Notifica											
License	7	Add XKC-9000	Cor	ntroller							
•	*	Add XRT-9000	Cor	ntroller							
	÷	Add SELEX Re	peat	er		1					
	÷	Add KAIROS R	epea	ater	Delete					Test	
Sot D	÷	Add WAVE Co	ntro	ller			\ooly		OK	Cancel	
JELD	4	Add Analog St	atio	n			-ppiy		OK	Cancer	
		Add ED137 Sta	tion								
		AUG ED 157 5ta		1							
	-	Add ZENITEL S	statio	on							
	\times	Remove All									
	10.0										

In the right pane, specify the connection parameters. To ensure your connection parameters match the actual configuration of your DIMETRA Express controller, you may need to use the Web browser to determine the values (see section <u>4</u>, <u>Configuring DIMETRA Express</u>). Contact your radio network administrator, if you do not have this information.

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Configuration		Dimetra #1		
Configuration Service Network Redundancy Database Reports Service Management Augured Sattings	^	Dimetra #1 System Name: Controller IP Address: Controller Port: Controller Instance ID:	Dimetra #1 10.10.177.200 ~ 7101 ‡ 0 ‡	
Advanced Settings Geocoding Servers Radio Systems Services Dimetra #1 Advanced Settings Data Services Data Services Console User Audio Paths				
PTT over Cellular Remote Agents Friendly Servers Telephony Data Sources Email	~			Off Court

• System Name

Enter a name for the DIMETRA system. This name will be displayed in the Dispatch Console.

• Controller IP Address

Enter the IP address of the DIMETRA Express controller.

• Controller port

Enter the DIMETRA Express controller port number. Make sure this port number is the same as that specified for DIMETRA Express controller's Voice Logging (for example, **7101**; see section <u>4.1.3</u>, <u>Voice Logging</u>).

• Test

Click this button to check the connection to your DIMETRA Express controller. If the test is successful, you'll see the information about the controller, such as the firmware version and protocol version.

Click **Apply** after entering all the required values. A confirmation dialog will appear, prompting you to save the configuration and restart the TRBOnet Server service. You can also restart the service manually.



5.1.2.1 Advanced Settings

• In the **Configuration** pane, under the corresponding DIMETRA Express controller, select **Advanced settings**.

Configuration		Advanced Settings					
ở Service 🎧 Network	^	Voice Call Hang Time (ms):				
 Network Redundancy Database Reports Service Management Advanced Settings Geocoding Servers Radio Systems Services Dimetra #1 Advanced Settings Data Services Logging Interface Console User Logging Interface Console User Audio Paths PTT over Cellular Remote Agents Friendly Servers Friendly Servers Telephony Upta Sources 		Voice Call Hang Time (Group Call: Private Call: Emergency Call: TX Timeout:	3000 4000 4000 60			seconds	
Email	•						
Set Defaults				Apply	C	ОК	Cancel

- In the **Advanced Settings** pane, specify the following advanced settings: **Voice Call Hang Time** (ms):
 - Group Call

This value sets the duration the repeater reserves the channel after the end of a group call transmission. During this time, only members of the group that the channel is reserved for can transmit.

Private Call

This value sets the duration a radio keeps the private call setup after a user releases the PTT button. This is to avoid setting up the call again each time a user presses the PTT button to transmit. During this time, other radios can still transmit since the channel is essentially idle.

Emergency Call

This value sets the duration the repeater reserves the channel after the end of an emergency call transmission. During this time, only members of the Group that the channel is reserved for can transmit.

TX Timeout

Enter the time, in seconds, to be used as a voice session limit. When the dispatcher starts any voice session in the Dispatch Console, transmission will be interrupted after this TX Timeout expires.



5.1.2.2 Data Services

• In the **Configuration** pane, under the corresponding DIMETRA Express controller, select **Data Services**.

Configuration		Data Services				
Service Network	^	✓ Data Services				
Redundancy		Local IP Address:	10.10.177.30	- ¢		
Reports		Controller Port:	6006	÷		
Service Management		Local Port:	0	÷		
X Advanced Settings		Host ID:	100	÷		
Radio Systems		Host Passnumber:	100	÷	Test	
Services		Data Call Confirmed				
Advanced Settings						
🖵 PTT over Cellular						
Remote Agents						
Telephony						
🜵 Data Sources						
Email	~					
Set Defaults			Apply		ОК	Cancel

• In the **Data Services** pane, select the **Data Services** check box.

Local IP Address

From the drop-down list, select the local network interface to be used for Data Services.

Controller port

Enter the controller's port number to be used for Data Services. Make sure this port number is the same as that specified for DIMETRA Express controller's Short Data (for example, **6006**; see section <u>4.1.4</u>, <u>Short Data</u>).

Local Port

Enter the port number that will be used for connections to Data Services. The value 0 (default) means that a random port will be used.

Host ID

Enter the Data Services Host ID.

Host Passnumber

Enter the Data Services Passnumber.

Note: The Host ID and Passnumber are defined in DIMETRA Express controller's Short Data Hosts page (see section <u>4.1.4, Short Data</u>).

Data Call Confirmed

Select this option to enable individual packets in data calls (ARS, GPS, and Text Message) to be confirmed.



5.1.2.3 Logging Interface

• In the **Configuration** pane, under the corresponding DIMETRA Express controller, select **Logging Interface**.

Configuration		Logging Interface				
Service Network Redundancy Database Reports	^	Local IP Address:	10.10.177.40	* \$		
Service Management		Login Name:	logger			
* Advanced Settings 上人 ² Geocoding Servers Radio Systems		Password:	•••••			Test
Services Dimetra #1 Advanced Settings Data Services Console User Audio Paths						
 ➡ PTT over Cellular ➡ Remote Agents ➡ Friendly Servers ➡ Telephony ♦ Data Sources ➡ Email 	*					
Set Defaults			Apply		Ж	Cancel

• In the Logging Interface pane, select the Logging Interface check box.

Local IP Address

From the drop-down list, select the local network interface to be used for the Logging Interface. Note that this must be a different IP address from the main IP address of the computer hosting TRBOnet Server. For this, you might need to configure an additional network interface.

Local Port

Enter the port number that will be used for connections to Logging Interface. The value 0 (default) means that a random port will be used.

Login Name

Enter the Login Name for Logging Interface.

Password

Enter the password for Logging Interface.

Note: The Login Name and Password are defined in DIMETRA Express controller's Voice Logging page (see section <u>4.1.3, Voice Logging</u>).



5.1.2.4 Console User

• In the **Configuration** pane, under the corresponding DIMETRA Express controller, select **Console User**.

Configuration		Console User				
 Service Network Redundancy Database Reports Service Management Advanced Settings Geocoding Servers Radio Systems Services Dimetra #1 Advanced Settings Data Services Logging Interface Console User (trbone) 	^	Console User Local IP Address: Local Port: Login Name: Password:	10.10.177.30 -	¢	Test	
 PTT over Cellular Remote Agents Friendly Servers Telephony Data Sources 	•	4 Add Console User				
Set Defaults			Apply	0	K Cancel	

• In the **Console User** pane, select the **Console User** check box.

Local IP Address

From the drop-down list, select the local network interface to be used for Console User.

Local Port

Enter the port number that will be used for Console User. The value 0 (default) means that a random port will be used.

Login Name

Enter the login name for Console User.

Password

Enter the password for Console User.

Note: The Login Name and Password are defined in DIMETRA Express controller's Dispatch Console/Console Users page (see section <u>4.1.2, Dispatch Console</u>).



5.1.2.5 Audio Paths

The Audio Paths are talk paths of the system to make and receive Voice Calls; in general, they are talk groups. TRBOnet Server requires that all audio paths of a DIMETRA Express system be registered in its configuration. If an audio path is not registered, the TRBOnet operator will not be able to receive and transmit to the corresponding talk group.

• In the **Configuration** pane, under the DIMETRA Express controller, select **Audio Paths**.

Configuration	Audio Paths		
💣 Service 🔨 🔨	Load Groups Map		
🔂 Network		1	
🕏 Redundancy	Call Type	Group ID	Resource Name
Database	✓ Private Call		Private Call
😪 Reports	Group Call	10	Group 10
Service Management		10	
🔀 Advanced Settings	Group Call	20	Group 20
Geocoding Servers	Group Call	30	Group 30
Radio Systems	Group Call	40	Group 40
Services	Group Call	50	Group 50
Dimetra #1			
Advanced Settings	Group Call	13999998	RU-PRIM-TG
Data Services			
Audio Paths			
TT over Cellular			
Remote Agents		_	
Friendly Servers	Add Delete		
Telephony			
 ↓ Data Sources 	Monitor Private Calls (Radio	to Radio)	
×	Radio Range:	1	16777215 ¹ / ₂
< >			
Set Defaults		Apply	OK Cancel

- In the **Audio Paths** pane, specify the following Audio Path-related settings:
 - Click the **Load Groups Map** link.

As a result, the corresponding talkgroups will be loaded from the connected DIMETRA Express controller.

Note: The talkgroups must be previously defined in DIMETRA Express controller's Talkgroups (see section <u>4.1.5</u>, <u>Users</u> <u>and Talkgroups</u>, **Users and Talkgroups > Talkgroups**).

Monitor Private Calls

Select this check box and specify the range of radios which radio-toradio calls will be monitored.



Click **Apply** after entering all the required values. A confirmation dialog will appear, prompting you to save the configuration and restart the TRBOnet Server service. You can also restart the service manually.

5.2 Configuring TRBOnet Dispatch Console

To start TRBOnet Server, click its shortcut on the desktop, or click **Start > All Programs > Neocom Software > TRBOnet Dispatch x.x**

A dialog box will appear prompting you to enter the TRBOnet Server IP address, User Name, and Password. The default Administrator credentials are *admin* for the login and *admin* for the password.

For more detailed information on how to use TRBOnet Dispatch Console, refer to *TRBOnet Enterprise User Manual*.

5.2.1 Registering Radio Groups

Go to **Administration** (1), **Radio Group** (2) to add/edit/delete Radio Groups in the system.

File View Map Tools Help							
Administration		Radio Groups			<u></u>	2 🐠 🔽	
	^	🛃 Add 📑 Edit 📑 Delete 📑 Grouping 🍸 Auto Filter 🌼 Default Settings					
Users		Name	Radio ID 🛛 🛆	MDC ID	Descriprion		
Elogical Groups		Police	10	0			
Radios		Firemen	20	0			
- 2	~	Cleaners	30	0			
Voice Dispatch		Bookers	40	0			
		Gatekeepers	50	U			
Location Tracking							
<u> </u>		\	2				
😸 Job Ticketing			3				
Text Messages							
Event Viewer		4					
Administration		H4 44 4 Record 2 of 5	₩ ₩ 4			Þ	
🐻 Connected 🕵 🙎 Administrator		icensed to: Neocom Softwa	ire Ltd Demo License			🕗 Active 🗸	

- Click Add (3) to add a radio group to the system:
- In the dialog box that appears, specify **Name** and **Group ID** (Radio ID) of the group you are adding.



Note: Make sure that the radio group(s) created in the Dispatch Console are present in the DIMETRA Express controller's talkgroups (see section <u>4.1.5</u>, <u>Users and Talkgroups</u>). In addition, make sure these radio groups have been added to TRBOnet Server as Audio Paths (see section <u>5.1.1.5</u>, <u>Audio</u> <u>Paths</u>).

5.2.2 Registering Radios

Go to Administration (1), Radios (2) to add/edit/delete Radios in the system.

File View Map Tools Help		
Administration	Radios	2 🕪 🔽
Dispatcher Groups SMS Groups SMS Groups Users		
Radio Groups 2	Registered Umregistered	I Range 🐥
	125 Digital Radio 125 0 125 11; Firemen Cleaning,	· · · ·
Voice Dispatch	Image: Second system Digital Radio 13 0 All Image: Second system 235 Digital Radio 235 0 235 Firemen; P Cleaning	
Location Tracking	3333 TRBOnet Mobile 3333 0 3333 11; 22	
🚰 Job Ticketing	(b) 555 Digital Radio 555 0 All (c) Radio 300 Digital Radio 300 0 All	
😥 Route Management		
RFID Tracker		
Contemporary Text Messages		
🔮 Voice Recording		
Event Viewer		
Radio Allocation	1	
Administration	iii iii Record 1 of 6	Þ
🚺 127.0.0.1 🛞 🥵 🦉 Administrator 🗉	Licensed to: demo	🕗 Active 🗸

- Click Add Digital Radio (3) to add a new radio.
- In the dialog box that appears, specify **Radio Name**, **Radio ID**, and **Radio Groups**, to which the radio belongs.



6 Redundant Configuration Schemes

This section describes multiple redundancy schemes that can be applied when deploying a DIMETRA Express system.

Note: A DIMETRA Express controller allows only a single app connection at a time. Thus, it is strictly forbidden to simultaneously connect more than one Agent/Server running in the Active mode to the same DIMETRA Express controller.

For more details on how to configure the redundant TRBOnet Server/ Agent, see *TRBOnet Enterprise/PLUS Redundant Server User Guide*.

6.1 Redundant TRBOnet Server in Passive Mode

The scheme below represents one Redundant Server running in the Passive mode.

Note that in the scheme, a red solid line means a connection to the primary server. A blue dash line means a connection to the redundant server that will be established once the primary server fails. A black dotted line means a heartbeat connection between the redundant and primary servers (agents).





6.2 Redundant TRBOnet Server in Active Mode

The scheme below represents how the Redundant Server is used when running in the Active mode and being connected to DIMETRA Express via TRBOnet Agent.





6.3 Redundant TRBOnet Server in Active Mode and Redundant TRBOnet Agent in Passive Mode

The scheme below shows how the Redundant Server is used when running in the Active mode and being connected to DIMETRA Express via Primary and Redundant Agents.





6.4 Redundant DIMETRA Express

The scheme below shows how a redundant DIMETRA Express controller is connected to TRBOnet.



Note: Make sure that after you have copied the configuration of the Primary Agent to the Redundant Agent, you change the **Controller IP Address** to that of the Redundant DIMETRA Express controller.