

TRBOnet Enterprise. Technical Information

Version 1.0

1. Source Code and Framework

All parts of TRBOnet Enterprise software are written using Microsoft .Net C# programming language. The software required .Net Framework 2.0 or higher.

It is strongly recommended to have all available Framework Service Packs installed.

RadioServer and Remote Radio Gateway software require Windows XP Professional or Vista Business x86 operation system.

DispatcherConsole can be running on any Windows XP, Windows Vista, Windows 2003, Windows 7

2. Authentication and Self Security System

TRBOnet Enterprise has its own built-in authentication system (login and password).

All passwords are encrypted with 128-bit encryption key.

There are two roles in system: Administrator and Dispatcher. An Administrator has full access to RadioServer. All administrators' activity is recorded into the Event Log.

An administrator can delete the old data such kind of GPS, Talk Sessions and etc, but cannot delete system messages.

A Dispatcher has limited rights, and cannot remote any data.

3. Data Encryption

All data (such kind of GPS, Text Messages, Telemetry, Data, system messages and the command protocol) and audio traffic between RadioServer and DispatcherConsoles is encrypted with 128-bits key.

This option is disabled by the default.

4. Database

TRBOnet Enterprise uses Microsoft SQL Server 2000/2005/2008 as storage for data. It is recommended to use Windows Authentication between RadioServer and MS SQL Server.

The best practice for database backup is:

- Full database backup – every week
- Differential backup – every day
- Transaction Log backup – every 20 minutes

Any other data protection systems (i.e., database mirroring or server clusterization) are under a database administrator consideration.

5. **Audio files storage**

All audio files are stored on a hard drive. It is possible to use UNC path format to specify audio files storage. It is recommended to use Windows Authentication (access permissions) to limit access to this storage.