



Trunktrackers



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What is Trunked Radio?

From Wikipedia, the free encyclopedia

A **trunked radio system** is a complex type of computer-controlled radio system. Trunked systems use a few channels (the actual frequencies), and can have virtually unlimited **talkgroups**. The control channel computer sends packets of data to enable one talkgroup to talk together, regardless of frequency. The primary purpose of this type of system is efficiency; many people can carry many conversations over only a few distinct frequencies. [cite_ref-0cite_ref-0\[1\]](#) Trunking is used by many **government entities** to provide two-way communication for **fire departments**, **police** and other municipal services, who all share **spectrum** allocated to a **city**, **county**, or other entity. In 1997, **radio scanners** compatible with trunked systems appeared on the market. One of the first companies to bring these devices to market, **Uniden**, trademarked the term *trunk tracking* on December 5, 1997.[\[2\]](#)

What do I listen to?

- Winnipeg Police, Fire and Ambulance
- Military Police
- Some Rural Fire and Ambulance

What can you listen to?

- Winnipeg Free Press newspaper delivery
- Manitoba Housing Authority Security
- Downtown Biz
- Various Security Companies
- Winnipeg Sun photographers
- Medivan/certified stretcher service
- Towing Services
- Taxis and anyone who uses Trunked Radio Systems

Legal Info

Manitoba Highway Traffic Act

Certain radio receivers prohibited

214(1)

(a) shall use a radio receiving apparatus in a motor vehicle, whether permanently installed in the vehicle or not; or

(b) shall

(i) equip a motor vehicle with, or

(ii) operate a motor vehicle equipped with,
a radio receiving apparatus;

capable of receiving police transmissions within one or more of the radio frequency bands 150 to 174, 413 to 470 and 806 to 870 megacycles.

Exception

214(2) Subsection (1) does not apply to persons lawfully authorized, under the *Radio Act* (Canada), to equip vehicles with two-way radio, or to peace officers, or to employees of a municipality or of the Government of Manitoba, acting in that capacity.

Radiocommunication Act

OFFENCES AND PUNISHMENT

9. (1) No person shall

- (a) knowingly send, transmit or cause to be sent or transmitted any false or fraudulent distress signal, message, call or radiogram of any kind;
- (b) without lawful excuse, interfere with or obstruct any radiocommunication;
- (c) decode an encrypted subscription programming signal or encrypted network feed otherwise than under and in accordance with an authorization from the lawful distributor of the signal or feed;
- (d) operate a radio apparatus so as to receive an encrypted subscription programming signal or encrypted network feed that has been decoded in contravention of paragraph (c); or
- (e) retransmit to the public an encrypted subscription programming signal or encrypted network feed that has been decoded in contravention of paragraph (c).

(1.1) Except as prescribed, no person shall make use of or divulge a radio-based telephone communication

- (a) if the originator of the communication or the person intended by the originator of the communication to receive it was in Canada when the communication was made; and
- (b) unless the originator, or the person intended by the originator to receive the communication consents to the use or divulgence.

9.1 Every person who contravenes subsection 9(1.1) or (2) is guilty of an offence punishable on summary conviction and liable

- (a) in the case of an individual, to a fine not exceeding twenty-five thousand dollars or to imprisonment for a term not exceeding one year, or to both; and**
- (b) in the case of a person other than an individual, to a fine not exceeding seventy-five thousand dollars.**

Why did I mention encryption?

Winnipeg Police are enabling
Encryption on their radios!

At this time it is still undecided if all traffic will be encrypted, or only non routine dispatch. The decision is a few months away as the installs and upgrades are being done.

Fire/Paramedics are NOT
Looking at encryption.

What do you need to program your trunktracker?

Frequencies

*Example of Trunking Frequencies. The ones in **RED** are the control frequencies.*

854.76250 854.81250 855.01250 855.06250 855.26250 855.31250 855.51250
855.56250 855.76250 855.81250 **856.11250c** **856.36250c** 856.61250
856.86250 857.11250 858.21250 858.46250 858.71250 858.96250
859.21250 860.11250 860.21250 860.36250 860.46250 860.61250
860.71250 860.86250 860.96250 861.11250 861.21250

You will also need to know some other data

DEC	HEX	Mode	Alpha Tag	Description	Tag
21744	54f	A	A03	Winnipeg Fire Fireground 1	Fire-Talk
21776	551	A	A04	Winnipeg Fire Fireground 2	Fire-Talk
21840	555	A	A05	Winnipeg Fire Firetac 1	Fire-Tac
23280	5af	A	A06	Winnipeg Fire Special Ops	Fire-Talk
23440	5b9	A	A07	Winnipeg Fire Prevention	Fire-Talk
23312	5b1	A	A08	Winnipeg Fire Training	Fire-Talk
12400	307	A	A10	Winnipeg EMS	EMS Dispatch

Links

<http://www.bearcat1.com/fleetmb.htm>

<http://www.radioreference.com/apps/db/?sid=537>

Questions?

Don't ask anything about
Digital Trunktrackers as
I don't have one or have
ever used one!