



Aries Windows software connects to a standard TETRA radio terminal allowing you to perform TETRA radio coverage surveys. Aries Windows is part of the Aries TETRA Network Performance System and can be used in standalone mode or with the Aries server for more advanced functionality.

Powerful, easy-to-use and affordable, it is ideal for large users and network operators needing independent coverage verification.

Key features

- ▶ Compatible with Motorola, Sepura and Teltronic TETRA terminals
- ▶ Log serving and neighbour cell parameters
- ▶ Log Layer 2/3 key parameter when used with Motorola terminal in Airtracer mode
- ▶ Use in standalone mode for basic functionality
- ▶ Use with Aries Server for advanced functionality including mapping and statistical analysis
- ▶ Export data to kml file for viewing coverage in Google Earth
- ▶ Group Call Generator

What is Aries Windows?

Aries Windows is a Windows application for surveying TETRA network coverage.

It connects to a standard TETRA radio terminal and logs the key coverage parameters for the serving and neighbour base sites. It is compatible with Motorola, Sepura and Teltronic radio terminals. If used with the Motorola radio terminal in Airtracer mode it will log the key Layer 2/3 parameters.

It can be used in standalone mode providing basic functionality or in conjunction with the Aries server to provide more advanced mapping and statistical analysis functions and combining with survey data from other sources. During a survey, data may be logged to a local file or direct to the Aries server over an Internet connection. Local files can be viewed in Aries Windows or can be sent to the Aries server after the survey.

Survey data can be viewed in Aries Windows in tabular format for the serving and neighbour cells together with a synchronised graph of RSSI.

Location is logged during a survey using a GPS receiver. Results may be exported as a kml file for viewing in Google Earth or if the Aries server is being used then the full Aries map functionality is available.

The Group Call Generator function will initiate regular test calls and log call success and failure rates.

Function	1) Aries Windows Software standalone	2) Aries Windows Software with Aries server	Motorola SCOUT Software (now obsolete)
Log TETRA data from Motorola terminal in PEI mode	✓	✓	
Log TETRA data from Motorola terminal in Airtracer mode	✓	✓	✓
Log TETRA data from Sepura terminal	✓	✓	
Log TETRA data from Teltronic terminal	✓	✓	
Suitable for limited survey of small area	✓	✓	✓
Suitable for large scale survey of complete network		✓	
Suitable for contractual network performance testing		✓	
Decoding key Layer 2/3 parameters (Motorola only)	✓	✓	✓
Layer 2/3 PDU decode	✓	✓	✓
View data in table	✓	✓	✓
View data on graph	✓	✓	✓
Save & replay data in local files	✓	✓	✓
Single database for all data from multiple probes		✓	
View data on Maps		✓	✓
Square km analysis with management level reporting		✓	
KPI analysis		✓	
Neighbour Analysis		✓	
Export results to kmz file	✓	✓	✓
Group Call Generator	✓	✓	✓
Advanced analysis by date/probe/area/base site/custom filter		✓	
Real-time monitoring of large operational networks		✓	
Email/SMS warnings for exception conditions		✓	
Packet Data testing	Planned		
Indoor location floor plans	Planned		✓

Specification

- Parameters logged:
 - o General: Time, Latitude, Longitude, Altitude, Speed
 - o Call Events: Monitor, Call Success (Call Setup Time), Call Fail, Call Completed Successfully, Call Dropped, Handover, Network Registration, Failed Handover, No Service
 - o Motorola terminal (Airtracer mode): Serving Cell LAC/Frequency/RSSI/C1, Neighbour Cells LAC/Frequency/RSSI/C2, RDLC, MER, Slot No, Service Level, Fast Reselect Threshold, Slow Reselect Threshold, Fast Reselect Hysteresis, Slow Reselect Hysteresis, Min Rx Access level, Max Tx Power, Access Parameter, Colour Code, Subscriber Class, Security Class, MCC, MNC, Tx/Rx Modulation Mode/Rate/Bandwidth
 - o Motorola terminal (PEI mode): Serving Cell LAC/Frequency/RSSI/C1, Neighbour Cells LAC/Frequency/RSSI/C2
 - o Sepura/Teltronic terminal: Serving Cell LAC/Frequency/RSSI/C1, Neighbour Cells LAC/Frequency/RSSI/C2
- Includes Group Call Generator
- Displaying results on maps requires the Aries server or kml files can be produced and viewed in Google Earth
- Advanced analysis functionality requires the Aries server – see Aries datasheet for details
- Compatible with Windows XP, Vista, 7, 8, 10
- Requires GPS receiver similar to BU-353-S4
- Requires interface cable suitable for selected TETRA radio terminal

Download installation file from www.rsi-uk.com/AriesWindowsDownload.htm
 This software requires a USB License Dongle to work – contact RSI to purchase one.

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