TRAMPS

TRAMPS™ TETRA Measurement Solution

Using TRAMPS, it is possible to present in a coherent format using GIS mapping or building plans, the QoS (quality of service) indications and accurate RSSI (received signal strength indication) measurements captured by the CatchAll™ receiver.

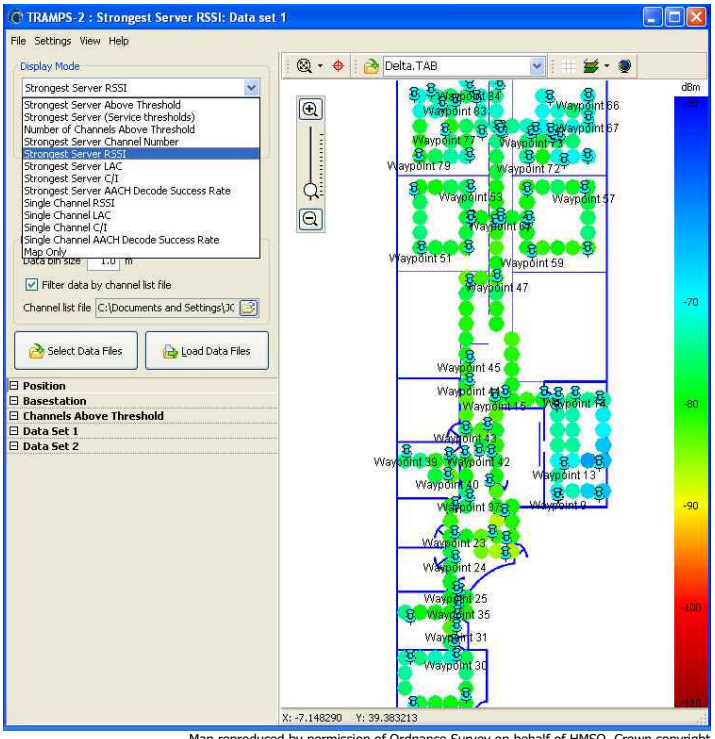
Overview

MAC Ltd's CatchAll receiver is the benchmark RSSI measurement receiver for TETRA networks deployed worldwide.

To complement the CatchAll receiver, MAC Ltd developed TRAMPS, an analysis tool with unique capabilities. Taking the RSSI and decoded control channel data collected by the CatchAll receiver, TRAMPS provides a suite of intuitive, off-line analysis modes designed to provide rapid, manufacturer- and network-independent coverage and QoS information that is easy to interpret and can be compared with a benchmark.

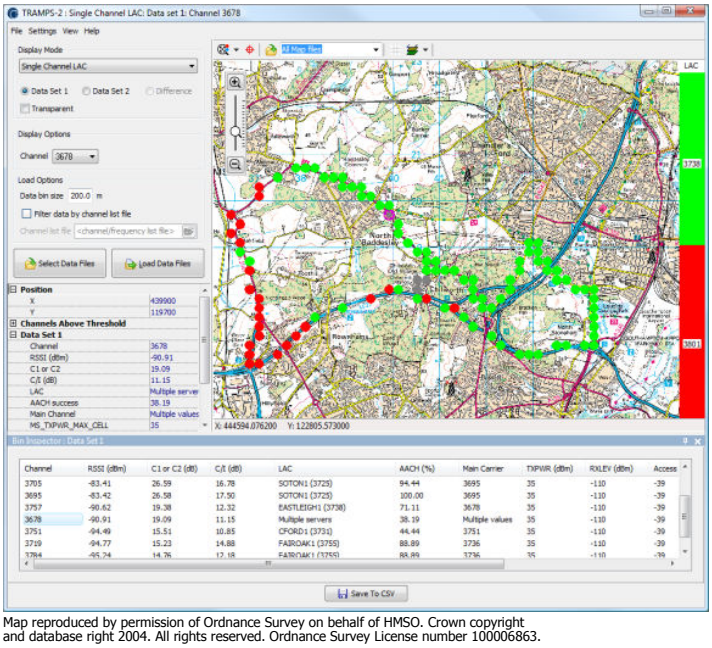
This unique combination of equipment and software simultaneously captures all the data necessary for accurate RSSI measurement and QoS indication. Amongst many features, it identifies neighbour cells that are actually present within each cell permitting comparison with those that the network expects to be present to highlight potential problems.

Strongest Server RSSI Values (Signals Averaged over 1m)



Using coloured bins and corresponding 'thermometer' keys TRAMPS provides coverage and QoS indications rapidly, consistently and objectively using one application to perform tests that normally require several items of test equipment, thereby avoiding the consequences of collecting information that is not readily comparable. One of the key features of TRAMPS is its simple presentation of GIS and building layout data to facilitate the rapid identification and geographic location of potential RF coverage issues.

Single Channel Location Area Code (Signals Averaged over 200m)



Features

- Track network changes easily
- Compare today's network to a baseline
- Locate areas of poor C/I
- Identify actual neighbours
- Identify interfering base stations
- Verify the serving cell identity
- Go/No-go indications
- User-defined threshold settings
- Inbuilt comprehensive analysis tool

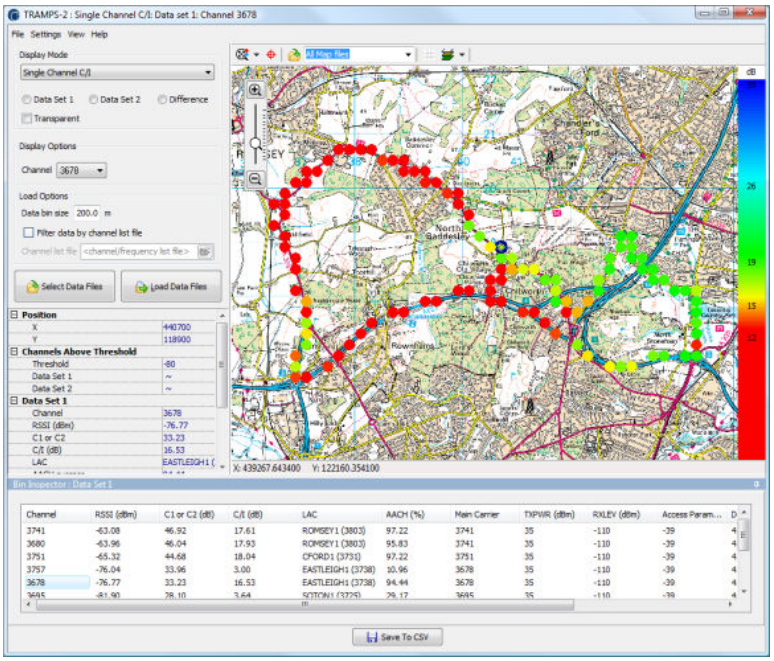
Product Description

Designed for those users and service providers who need to be informed about changes in radio coverage and quality in a straightforward way, and yet require a tool with the inherent technical capability to provide indicators to help determine how and why those changes have appeared.

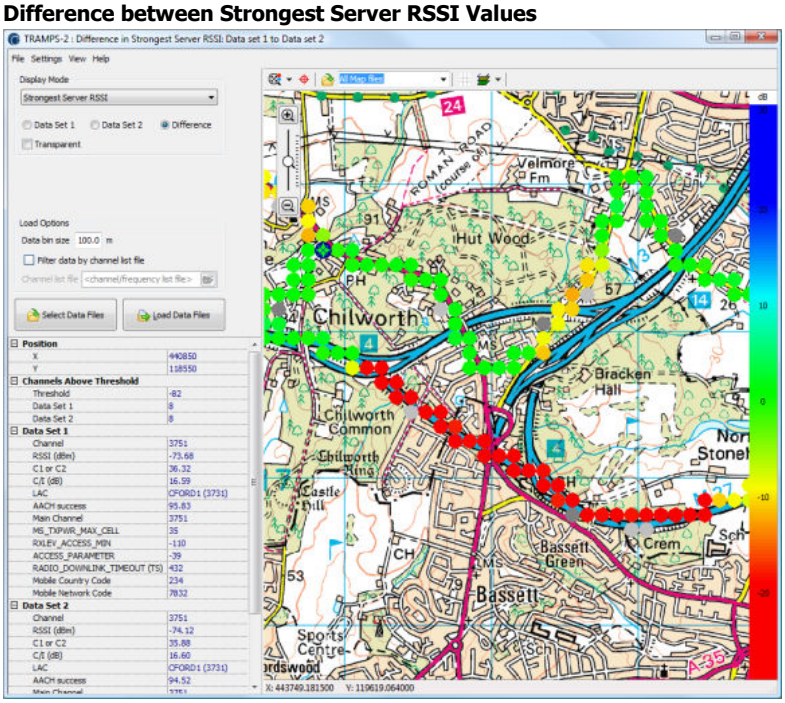
TRAMPS provides an efficient means of displaying captured drive test data and comparing the results of different drive tests of the same area. TRAMPS is based on MapInfo's MapX® technology and is compatible with digital maps in a wide range of formats.

TRAMPS enables before and after comparisons for a range of parameters, using an earlier set of drive test data as a baseline for comparison with recent drive test data for the same geographical region. These data sets may have been collected several hours or many months apart. With this facility any changes to network performance become immediately apparent.

Single Channel C/I and Bin Inspector Display



Difference between Strongest Server RSSI Values



TRAMPS is also compatible with MAC Ltd's CRIBS™ TETRA walk-test solution, providing the same analysis facilities overlaid on a map or building plan.

Whilst the map overlays provide summary data, the detailed information that has been collected by the CatchAll receiver is easily accessible using the Bin Inspector function. By simply clicking on any data point all of the information available for that location is displayed in a tabular format below the map. This display is illustrated in the screenshot above.

The combination of the CatchAll receiver and TRAMPS provides a significant step improvement in the information available to those who have a responsibility for the provision of a reliable radio system. TRAMPS affords a cost-effective and proactive method for regular provision of comparative information.

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