Evaluation Software TS9954 Roseval

High-performance evaluation software for field-strength analysis

- Generation of structured meta files
- Highly effective evaluation through the use of filtered and selected data
- Efficient file management of measurement data (central server)
- Fast access to all local temporary data
- Freely definable legends and comments
- Selection and evaluation of multiple measurement files in database only limited by system resources
- Exact reference of measured points to the measurement device they originate from
- Statistical evaluation and area data mapping
- Wide range of attributes assignable to each signal (colour, icons, pattern, ranges) to get the most efficient visualization of parameters
- SQL (Structured Query Language) data selection and evaluation
- User-definable derived signals
- Global data selection (interactive and SQL)

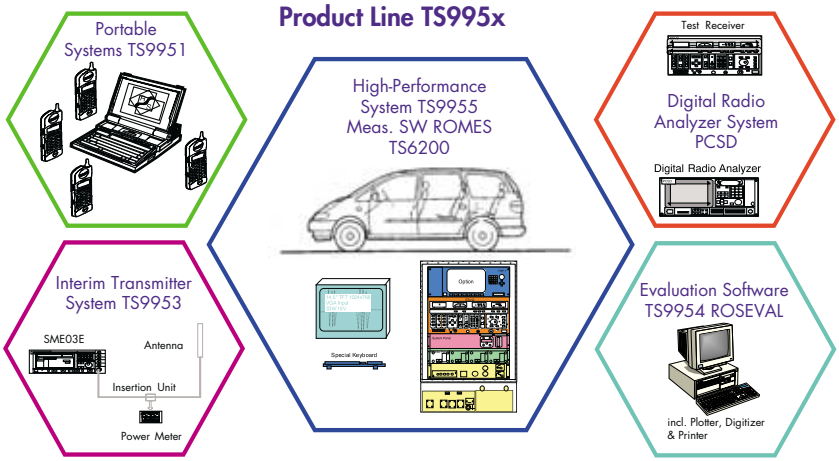
ROHDE&SCHWARZ

The High-Performance Evaluation Software TS9954 "Roseval"(**Ro**hde & **S**chwarz **eval**uation software) is an excellent tool for analyzing all measurement data from data collection systems (Rohde & Schwarz Systems TS9951 or TS9955) by means of different methods.

With the aid of this software the user can ensure a high network quality during the installation, optimization, service and maintenance of his network. As a Windows application it can easily be handled and installed on a standard PC.

The concept is modular and adaptable to the most familiar digital networks like GSM, ETACS, CDMA.

As a subunit the well-known GIS software MAPINFO® is used for geographical evaluations. The full power of this embedded software is open for designing new customer-specific layers.



Modular concept

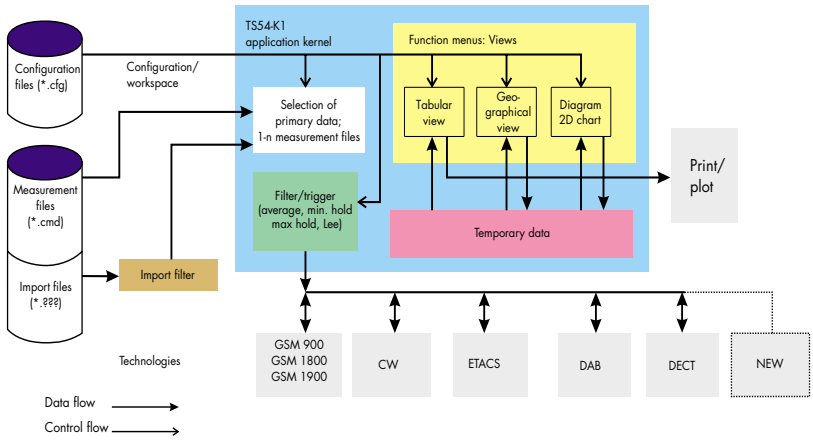
The software is of modular structure and independent of available technologies.

One application kernel adapts the different technology modules for the evaluation and several import filters for the measurement data and the configuration files.

Advantages of this concept:

New technology modules with defined interface can be:

- updated separately
- integrated in a short time



Modular software concept

Filtering of measurement data (primary data) for:

- Generation of an internal database
- Highly effective evaluation through the use of selected data
- Efficient file management of measurement data (central server)
- Fast access to all local temporary data

Available technologies

The most important digital network technologies and Rohde & Schwarz Test Receivers ESVx are supported.

- CW, Field-Strength Test Receiver ESVx, SBR
- GSM 900/GSM 1800/GSM 1900 test mobile, signalling
- ETACS test mobile, signalling
- CDMA test mobile, signalling
- CIR (channel impulse response) analysis
- C/I (carrier/interference ratio)
- AMP5/NAMP5
- DAB
- DVB/DVMD
- GPRS (from 11/00)

Hardware platform

No special expensive hardware is needed.

Minimum requirements:

- Pentium 200
- 64 MB RAM
- Free space on harddisk drive: recommended 400 MB
- Windows 95/Windows NT 4.0 Windows 98

Data selection

For data reduction different filter types and data selectors can be activated.

- Selection and evaluation of 1-n measurement files, limitation of maximum number of files only by memory and run time
- Measurement devices displayed according to selected measurement data
- Filter (last record, max. hold, min. hold, average, Lee)
- Configurable for every data structure separately

Evaluation

- numerical, logical, statistical, and operations for combining parameters to create new parameters out of base signals and other derived signals
- Selection of hardware devices
- sorting, grouping, SQL filter

User interface, configuration

The user interface can be adapted to special needs. The workspace is freely configurable and can be adapted to the different levels of users.

- User configuration: load, edit, store
- Default configuration
- Workspace (measurement files, displays): load and store

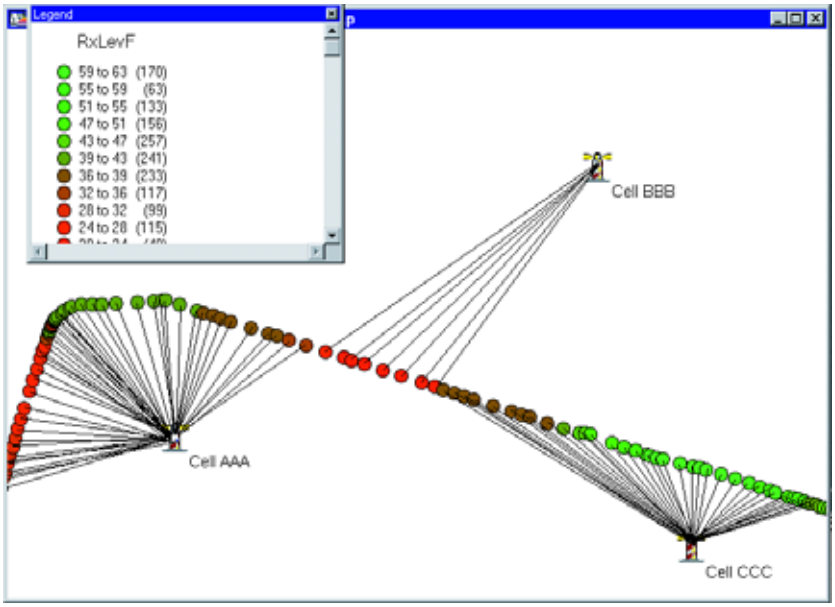
Mapping display

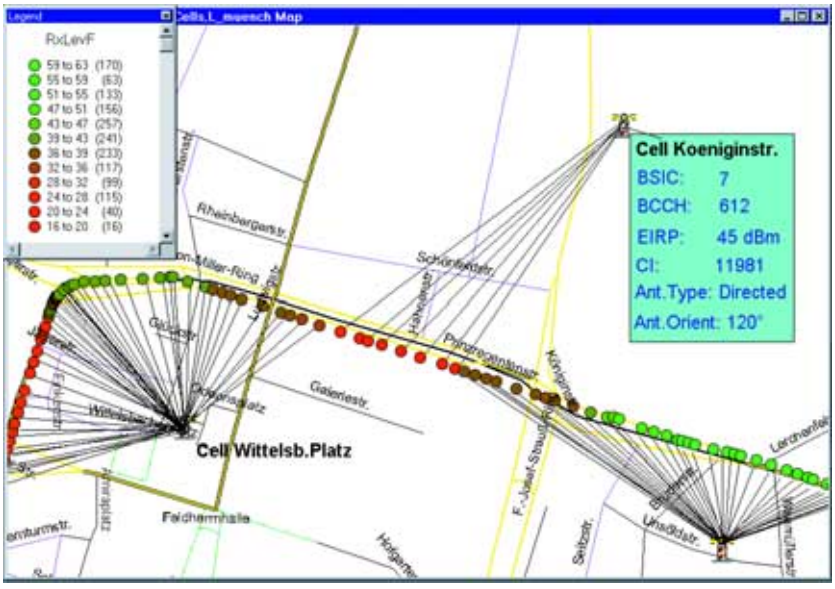
All measurement data collected during a test drive are stored together with positioning information (from GPS system) in the file. These data can be presented by using digitized maps (vector or bitmap formats) along the route.

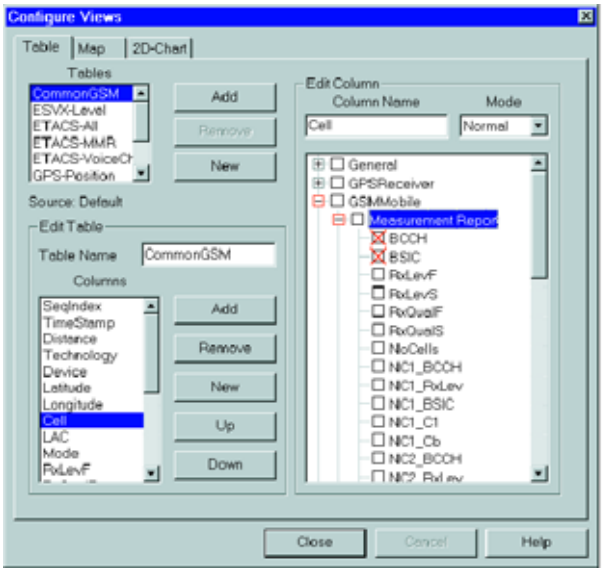
So it is easy to analyze data in accordance to the map.

- Map projections/coordinates: large selection of projections and coordinate systems, user-definable projections
- Maps for the background, large number of bit-map and vector image formats: overlay of maps
- Optional number of layers (signals) for every map (user definable)
- Freely definable legends and comments

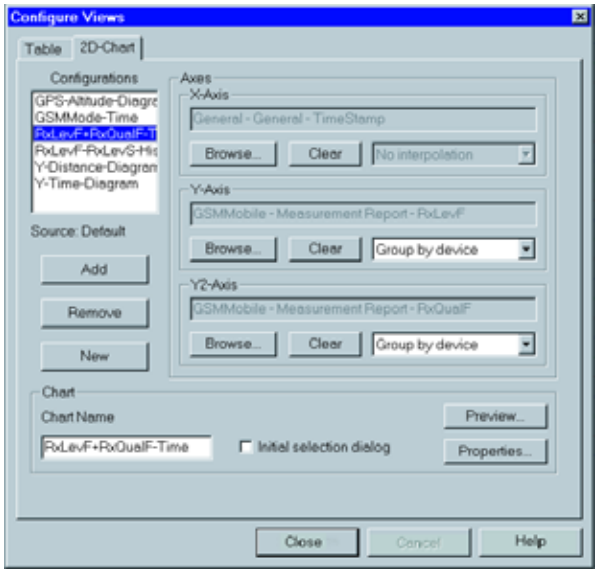
Map displays







Definition of table parameters



Configuration of 2D charts

Mapping tools

Many tools are available to design the presentation of the map display in an optimal way. These powerful features are implemented in the embedded MAPINFO® GIS system and are open for use by the customer.

Selection tools:

- Point, square, circle
- Zoom in/out
- Display zoom/scaling/mouse position in status line
- Connection of symbols to signals, signal ranges or parameters (standard signs and user-definable icons; free colour and size selection)
- Print (according to actual map window)
- Print Preview

Display tables

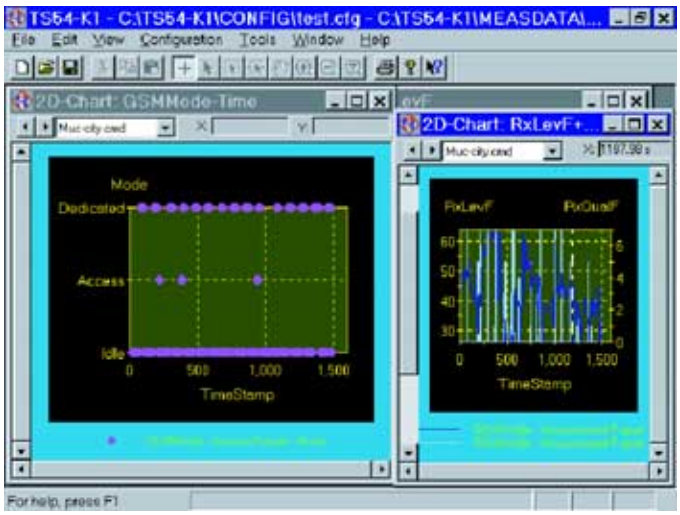
Common tables are preconfigured for every technology. In addition, the user is free to add and create new listings. The new configuration will be listed for later applications as user-defined tables.

- Free definition of tables
- Data selection from every data structure to create user-defined columns
- Display of parameters depending on decoded signal
- Selection of one or more columns in the display
- Adaptation of column width
- Free definition of column headers
- Printing of tables and listings, Print Preview

Charts

2D charts can be configured individually by combining parameters. The diagrams can be scaled manually or automatically.

- Display of selected signal: one x axis and one y axis; logarithmic scaling, inversion, etc
- Parameters for the x axes: time, distance or other signals
- Histogram displays can be created using the interpolation function
- Traces: each of the y axes can display multiple trace lines (with selectable line type and colour)



Display of different 2D charts with freely selectable parameters

- Layout options: legend, header, footer, grid lines, axes description, fonts, colour
- Print (according to diagram window)
- Print Preview

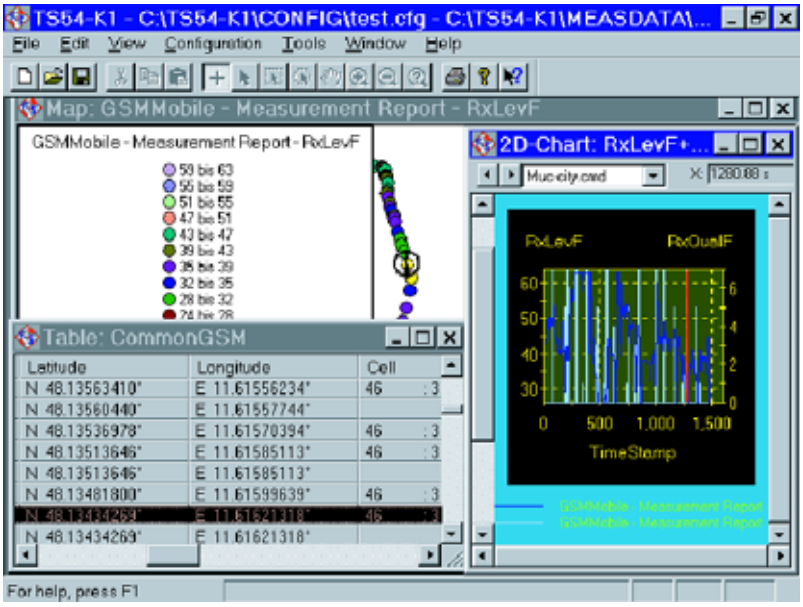
Cursor functions

The cursor functionality for each display is correlated to a global cursor (focus). The position of the cursor is related to the measurement record with all relevant data. Any change of the cursor position in the actual window will update all other windows, which contain the same record.

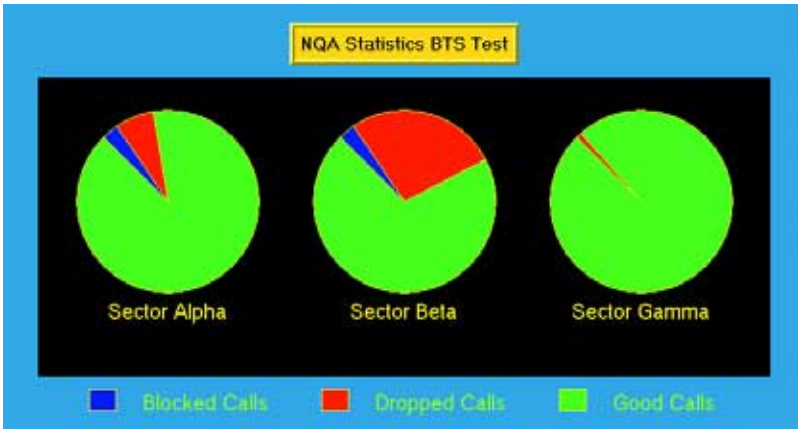
- Autoscrolling selectable
- Every update of the cursor position will scroll the window, if necessary
- Zoom windows can be combined with different size and resolution

Additional features

- Cell data structure: correlation of cell data to measurement data
- Additional displays: scan data, statistics (pie chart, 2D or 3D charts)
- Global selection of records: parallel display of data in all activated windows with correlated cursor
- SQL type data selection (Boolean, numerical, statistical, strings) : data selection with specific, freely definable conditions
- Data manipulation in connection with data selections
- Import filters:
  – import of measurement data from other systems
- Special device modules (from import data)



Parallel displays (table, 2D chart, map) with global cursor



Statistical evaluation

Fax Reply (Evaluation Software TS9954 Roseval)

❑ **Please send me an offer**

❑ **I would like a demo**

❑ **Please call me**

❑ I would like to receive your free-of-charge CD-ROM catalog (including Test&Measurement Products + Sound and TV Broadcasting)

Others: _____

_____

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