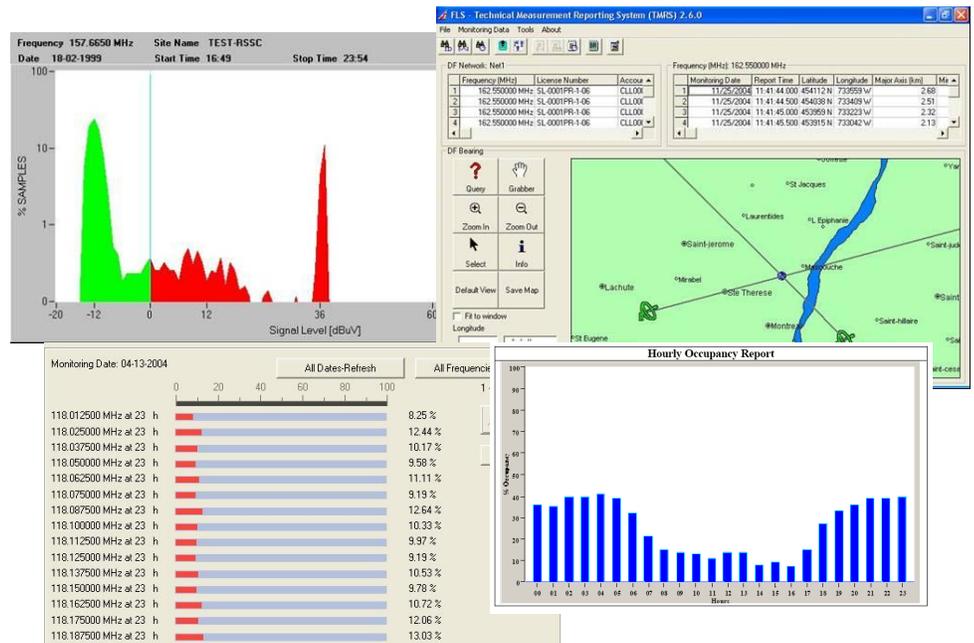


TMRS

Technical Measurement Reporting System

TMRS is a highly specialized program designed for technical measurements analysis and reporting. The application uploads technical data to the database allowing users to view and analyze the information at a later stage. The technical information consists of occupancy, measurement and direction finding data.

ASI's monitoring equipment can be utilized to collect large amount of occupancy data during a long period of time; the collection of channel occupancy is an essential tool in the management of the radio spectrum. The information it provides can be used in many ways by TMRS. These include, but are not limited to, verifying the presence of licensed users, determining the existence of unlicensed or clandestine activity and providing information necessary for the planning of new frequency bands. ASI's monitoring equipment is used to perform the data collection task required for TMRS analysis. This state of the art combination of hardware and software enables the collection of large amounts of channel occupancy data in a timely manner. The scanning or stepping speed can be in the order of 10,000 channels per second, depending on data points per channel settings.



Major Features

TMRS allows users to view and analyze, at a later stage, the data collected. The technical information consists of occupancy, measurement and direction finding data. Graphic representations of the data provide a better understanding of the spectrum activity. The following functions are fully implemented and supported:

- Uploading, viewing, and editing collected occupancy, measurement, and direction finding spectrum data
- Easy search functions allow for fast data retrieval
- Identification of unlicensed activity
- Generating reports
- Multiple chart and reports
 - Peak occupancy
 - Hourly occupancy
 - Channel amplitude
 - Frequency offset
 - Modulation
 - Bandwidth
 - Level
 - Direction finding



For more information on TMRS
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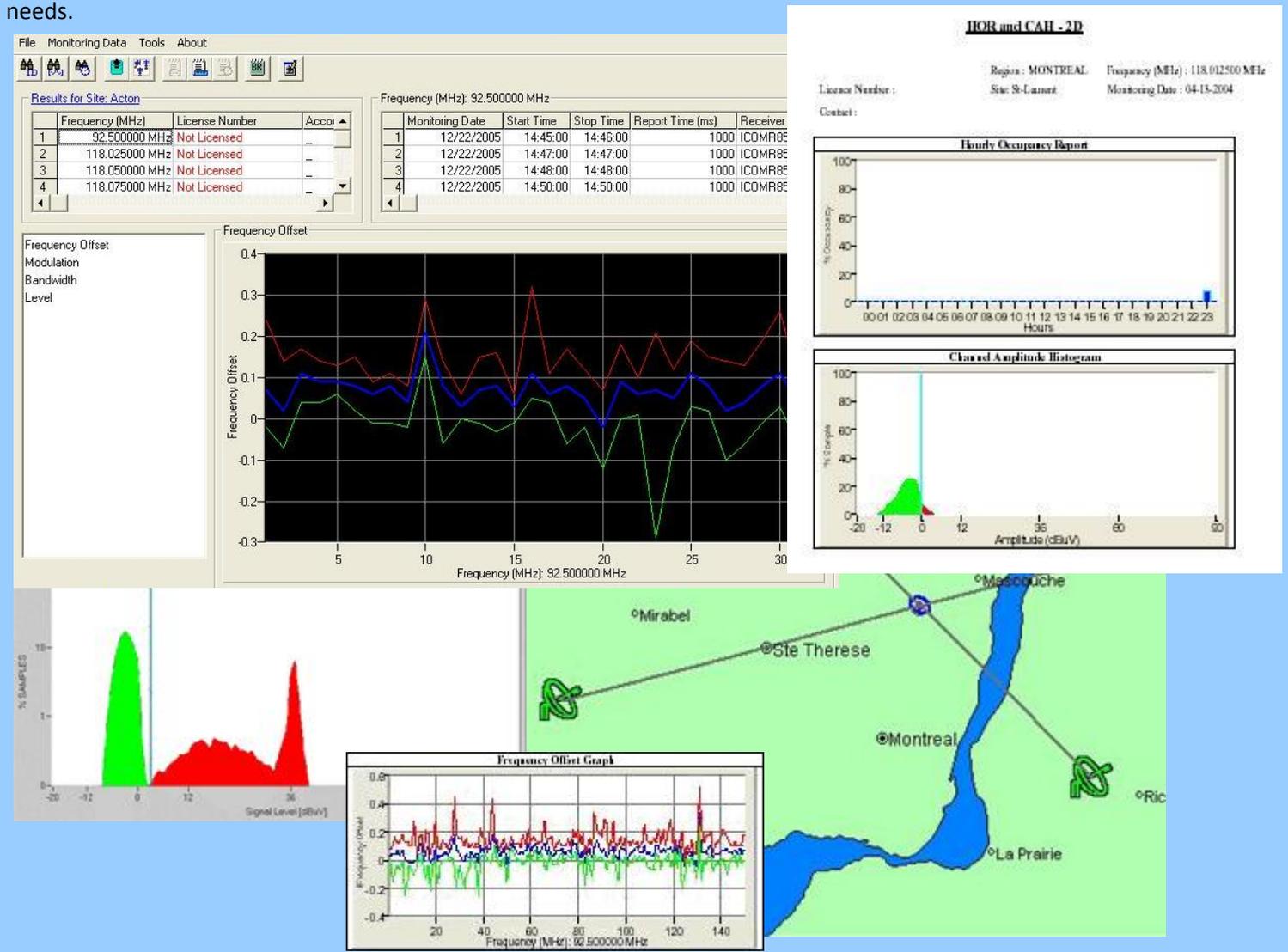
January 2010

TMRS

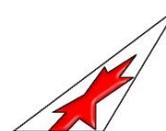
The channel occupancy information collected by the ASI monitoring equipment utilizes a technique called signal threshold analysis. In this procedure, the scanning equipment collects detailed signal level measurements for each of the channels in the frequency list. During the TMRS analysis, a signal threshold level is set, so that the time stamped amplitude measurements collected during the monitoring session can be compared against this level. This is done to determine if the signal level measured is above or below this user defined amplitude level (threshold) and is in effect applying a software squelch or threshold to the data. In the analysis, all signal levels measured below the threshold are considered as noise, and all signal level measurements above the threshold are considered as signal. Using this method, detailed amplitude signatures can yield occupancy information for all scanned frequencies.

The TMRS software provides many search options, thus allowing the user to find the information quickly. The user may search by a defined reference ID, a specific frequency, a frequency range, or a list of frequencies for a given monitoring site and region and for a specific range of dates. The user may search for occupancy, measurement or direction finding data. All data is represented by easy to read graphs and maps.

The TMRS reporting capabilities allow the generation of many reports. Reports may be customized according to clients' needs.



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