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Product: Reporting and Analysis Tool

Solution
Areas:

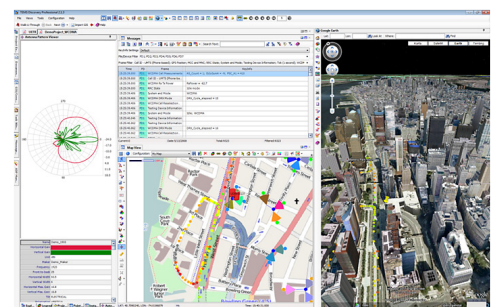| 100%	100%	50	50	100%
Network Rollout	Optimization	Benchmarking	Subscriber QoE	In-building

TEMS™ DISCOVERY DEVICE – IMPROVE EFFICIENCY WITH THE WORLD'S MOST VERSATILE DATA PROCESSING TOOL

Wireless operators must be able to collect and analyze data on the performance of their networks in a quick, easy, and cost-effective manner and from a variety of sources.

With the TEMS Discovery Device wireless network reporting and analysis tool, drive-test data can be automatically processed, saving time, effort, and potential lost revenue associated with network downtime. From this data, TEMS Discovery Device can generate a variety of predefined, customized summary reports that can be automatically emailed to a select group of recipients. These users can deeply analyze a specific issue (e.g., VoLTE service quality, RAN and IP configuration, capacity, or battery power), drill down to find the root cause of specific problems, meet a specific customer's need, or prove the quality of next-generation networks and services.

Available in three different product versions (TEMS Discovery Device, TEMS™ Discovery Network, and TEMS™ Discovery Enterprise), TEMS™ Discovery supports multiple data sources and organizational needs, including large-scale data processing and storage requirements, thus eliminating the need for (and cost of) multiple reporting tools. TEMS Discovery Device is for in-depth analysis of drive-test, in-building and user equipment data from both TEMS data collection tools as well as non-TEMS products.
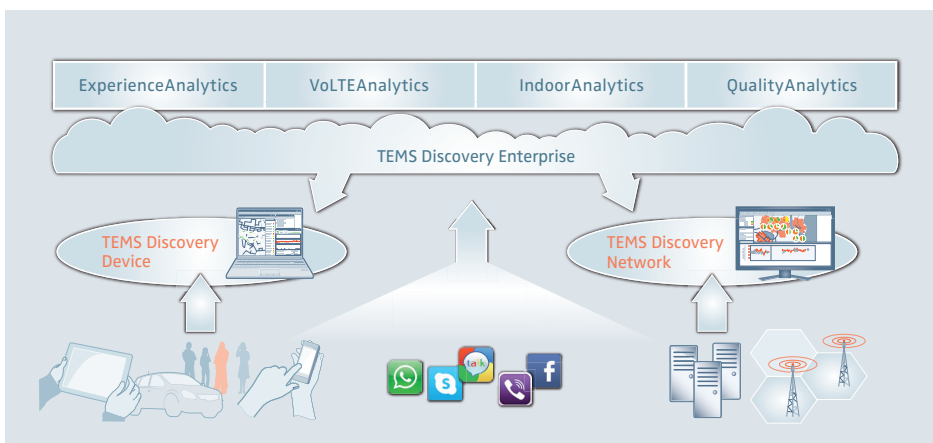
TEMS Discovery provides the ability to analyze drive-test logfiles and generate reports. An optional Professional feature set enables you to customize processes by combining logfiles from the major drive-test tool vendors.
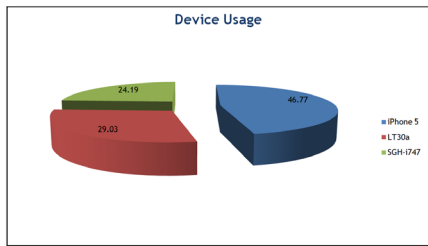

On-demand multidimensional view, histogram, and GIS mapping.

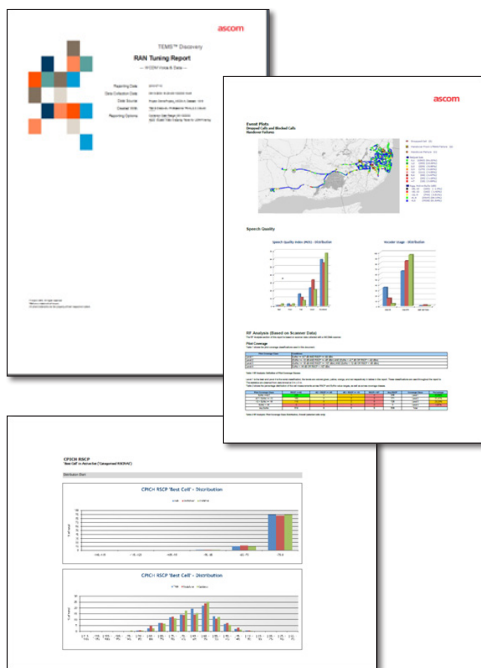## TEMS DISCOVERY ENABLES NETWORK OPERATORS TO:

- Automatically post-process RF data from a variety of data collection tools and vendors (e.g., TEMS, JDSU, and Nemo), across all wireless technologies (LTE, WCDMA, CDMA, EV-DO, Wi-Fi, etc.)
- Organize and store that processed data, and then share it across the organization
- Extract, present, visualize, and report information for network troubleshooting, root cause analysis, and benchmarking

How TEMS Discovery Device, TEMS Discovery Network, and TEMS Discovery Enterprise Work Together

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Device Usage

New! Industry's only automated iPhone® 5 analytics when combined with TEMS Investigation

Predefined and user-defined report templates; the ability to generate reports on any data set, file, or device; scheduled or immediate generation of reports based on selected templates; and the ability to create your own tailored report templates for specific interests and needs.

Automatically process wireless network data from a variety of technologies and collection tools; organize, store, and generate reports from that data for troubleshooting, trend analysis, and collaboration

AUTOMATION
Automate and reduce the time associated with the data processing function, from file import, to script execution, categorization of problem sets, to the generation and sharing of reports.

CUSTOMIZATION
Customize and share the most up-to-date scripts and reports in order to standardize processes, share best practices, and improve ways of working across the organization.

REPORTING
Easily create reports that include both out-of-the-box and predefined KPIs to view network performance across multiple dimensions, troubleshoot and optimize network issues.

DATA MINING
Make sense of the data collected from the network by analyzing measurements and then visualizing this information using GIS mapping, and other visualization methods.

Features	Description
Reports	▪ Automatically analyze and pinpoint network performance issues related to the iPhone®, from all major technologies (LTE and Wi-Fi), use integrated Google Maps or Microsoft Bing Maps to visualize and analyze iPhone and other data ▪ Predefined and user-defined report templates ▪ Reports on any data set, file, or device ▪ Scheduled or immediate generation of reports based on selected template ▪ Tailored report templates for specific interests and needs ▪ Sample report types: TEMS acceptance reports, TEMS RAN tuning reports (WCDMA, GSM, voice and data), ETSI KPI reports, benchmarking reports.
Indoor Mapping Functionality	▪ Seamless import of TEMS Pocket and TEMS Investigation maps and logfiles ▪ Logfiles, bitmap floor plan images, and metadata all in one zip file ▪ Simple drag-and-drop metric into Map View so the metric is displayed on the corresponding floor plan image ▪ Simple three-step geolocation of map and measurements ▪ Repositioning of indoor waypoints to improve the appearance of the measurements on the map.
Other	Generic text file import, versatile data binning, line-of-site tool, antenna pattern viewer, neighbor list tuning with handover matrix, and instant chart.
Technologies Supported	IS-95/cdma2000 1x, EV-DO (Rev. 0/ Rev. A, B), GSM/GPRS/EDGE, WCDMA/HSDPA/HSUPA/HSPA+, TD-SCDMA, WiMAX, Wi-Fi, LTE, and TD-LTE.
Vendors/ Products Supported	TEMS™ Investigation, TEMS™ Pocket, TEMS™ Automatic, TEMS™ Symphony, TEMS™ Monitor Master (trace files), JDSU™, Nemo Handy™, Nemo Outdoor™, Qualcomm QXDM, ZK Celltest, LG LTE Diagnostic Monitor (LLDM), PCTEL scanner (native format).
Packages/ Options	▪ TEMS Discovery Device: Post-processing tool for multiple logfile analysis. Optional Professional feature set provides ability to also combine logfiles from the major drive-test tool vendors. ▪ TEMS Discovery Network: Processing tool for in-depth analysis of network/service OSS data. Subscriber-centric data from the OSS can be analyzed in Ericsson, Nokia Siemens Networks, Huawei, and Alcatel-Lucent file formats. ▪ TEMS Discovery Enterprise: Server-based solution; Web-based user interface; handles very large volumes of statistical data; works with the existing TEMS Discovery product line.

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