

ClearSky Technologies Expands NetView 360® Crowd-sourced Data Analytics with the Addition of Competitive Benchmarking

The NetView 360 service combines billions of worldwide data points capturing cellular network performance parameters such as signal strength, interference, and quality, enabling unprecedented analysis of network performance of any cellular operator's network, anywhere in the world.

ORLANDO, FL – April 16, 2019 – ClearSky Technologies, Inc., a global provider of network analytics and design services for 5G, 4G and 3G networks, announces a significant expansion of its NetView 360® services to include competitive benchmarking using crowd-sourced data. The new “Crowd-sourced Competitive Benchmarking Service” uses billions of recently gathered data points from around the world to determine the performance characteristics of any cellular network. The data includes a wide variety of network performance measurements such as signal strength, interference, and network quality metrics for 4G, 3G and 2G networks.

The new NetView 360 service offers industry-leading data collection and analytics capabilities that can generate customized data sets to serve the needs of wireless operators, tower companies, broadband providers, and other participants in the wireless ecosystem. For wireless operators, the new Crowd-Sourced Competitive Benchmarking Service supplies highly accurate performance measurements such as signal strength, network quality, and radio interference on the operator's network as well as all competitors' networks.

By combining the Crowd-sourced Competitive Benchmarking Service with ClearSky's popular Crowd-sourced Wireless Data Heat Maps, customers can accurately identify areas with high smartphone usage and use the new benchmarking data to quantify how the cellular networks are performing in these high-value locations. The new data sets can also be used for both outdoor and in-building analysis. NetView 360's ability to quantify the amount of wireless data traffic inside each building in a study area is combined with the new competitive benchmarking data to offer unprecedented details about network performance inside buildings. The flexibility of NetView 360's competitive benchmarking service makes it perfect for analyzing a specific problem area, a large market, or the entire network.

“Our continued evolution of crowd-sourced data collection and analysis will provide big dividends to our customers,” said Alberto Rubio, ClearSky's Senior Vice President of Professional Services and chief architect of the NetView 360 service. “The addition of the competitive benchmarking data is like having thousands of walk-testers collecting detailed performance information on every network in every city at every hour of every day. When combined with our indoor and outdoor traffic data, the ability to accurately identify specific locations where network improvements are needed is unprecedented.”

With NetView 360, clients can purchase data sets for use with their own in-house tools and design processes, or they can add professional services to help extract the maximum benefit from combining multiple data sets. All data sets provided are analyzed and scrubbed by the NetView 360 data analytics team to ensure accurate results.

Some of the key data reporting capabilities of the Crowd-sourced Competitive Benchmarking Service include:

4G Network Performance for Every Operator	RF performance maps for a wide variety of 4G network parameters (RSRP, RSRQ, SINR, CQI, ASU, PCI, EARFCN)
3G Network Performance for Every Operator	RF performance maps for a wide variety of 3G network parameters (RSCP, EcIo, BER, ASU, PSC, CID)
3G, 4G and Combined Performance Comparison of One Operator to All Others	Detailed outdoor and indoor maps showing higher, equal and lower performance for each network parameter as compared to the other operators
Roaming Report	Maps and tabular data showing locations and home networks of roamers
Subscriber Usage Data for Every Operator in the Area of Interest	Maps and tabular data on home network (SIM MNC/MCC), roaming(Y/N), and data/voice technology being used (2G/3G/4G/Wi-Fi)
Network Performance Pain Point Analysis for Every Operator	Maps and tabular data that statistically combine all crowd-sourced performance and traffic metrics to identify network issues in specific outdoor and indoor locations

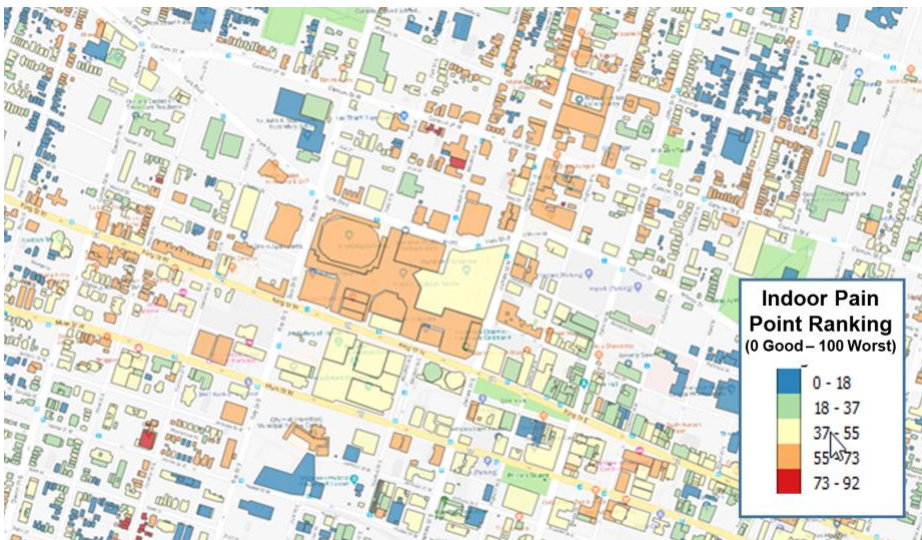
Leveraging years of development and real-world experience, NetView 360 is a network analysis and design service that integrates crowd-sourced data, business analytics, and high-resolution RF design. This approach results in an unprecedented ability to identify and understand exactly where wireless networks are deficient, and how issues can be resolved with maximum impact and minimum cost.

About ClearSky Technologies

For more than a decade, ClearSky Technologies, Inc. has been an innovation leader in providing network Infrastructure as a Service to mobile network operators. ClearSky's powerful array of products and services includes network baseline, optimization and design, traffic and policy management, and hosted messaging services. Headquartered in Orlando, ClearSky has provided services to wireless operators of all sizes across five continents. For more information, visit www.clearskytechnologies.com.



4G Network Quality (RSRQ) for a Canadian Operator Near Toronto



Building by Building "Pain Point Ranking" of a Canadian Operator
(Buildings Ranked by Statistically Combining Traffic and Network Performance Measurements)