




BLUE DANUBE™

BeamMaster™


RAN Optimization Platform

BeamMaster™ is Machine Learning (ML) based platform of advanced RAN optimization and analytics engine. Building on top of a scalable cloud-based environment, BeamMaster™ enables Service Provider to deliver a seamless end-to-end solution for RAN planning, site selection, inventory, monitoring, and troubleshooting with an intuitive dashboard and simplicity in user interface.

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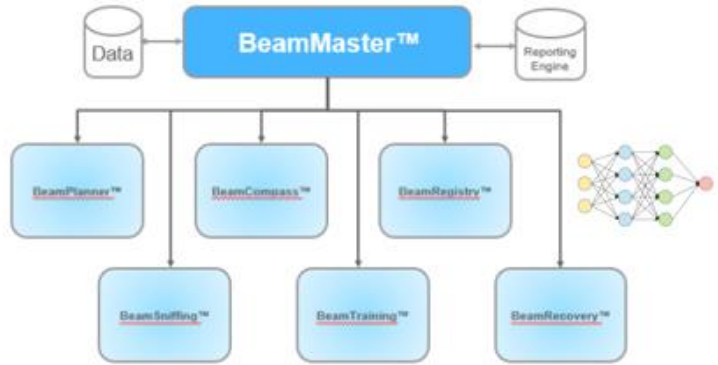
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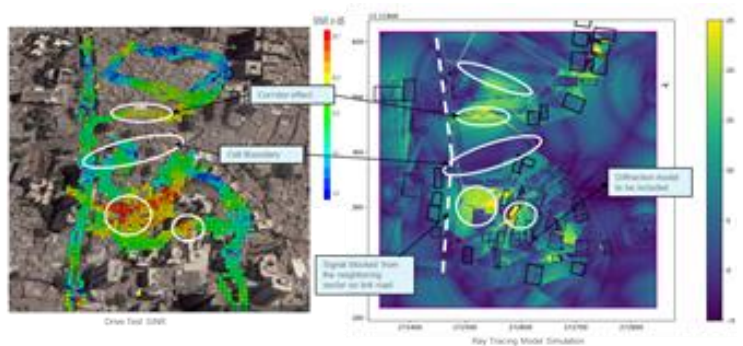
Scalable Platform with Machine Learning

- Scalable and cloud based with unlimited processing
- Sophisticated ML with enhanced AI algorithms
- Modular architecture with user selectable functionalities



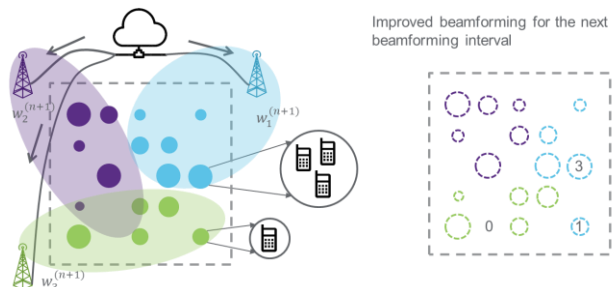
BeamPlanner™

- Comprehensive module for RF planning and site selection
- Complete simulation for analysis before actual deployment
- Seamless interface to 3rd party tools (Planet, Atoll)



BeamTracking™

- Intelligent direction finding with patent pending algorithm
- Leverage AI engine for hotspots detection
- Suitable for variety of use cases (traffic sensing, surveillance)












BLUE DANUBE™

BeamMaster™ RAN Optimization Platform

Complete RAN optimization tool kits building on top of the BeamMaster™ platform for operational assurance for operators to reduce their Total Cost of Ownership for every stage of deployment

-  **Site Selection & RF Planning**
Determine best sites to maximize best TCO for operators
-  **Baselining**
Specify accurate and quantifiable metrics for comparison
-  **Site Preparation**
Determine precise antenna alignment with hand-held tool
-  **Network Optimization**
Determine optimize beam patterns based on user traffic trend
-  **Monitoring**
Continuous observations of key performance indicators (KPI)
-  **Troubleshooting**
Deliver proactive and actionable insights

SEQUOIA 
NORTHGATE
SILVERLAKE



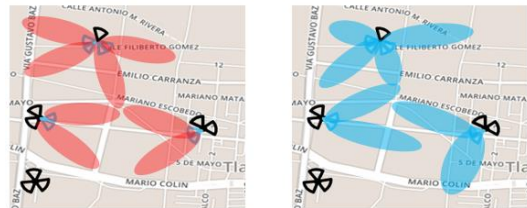
BeamCompass™

- Achieve accurate baselining for antenna positioning
- Provide precise data for RAN inventory
- Precise measurement of $\pm 3^0$ in azimuth orientation



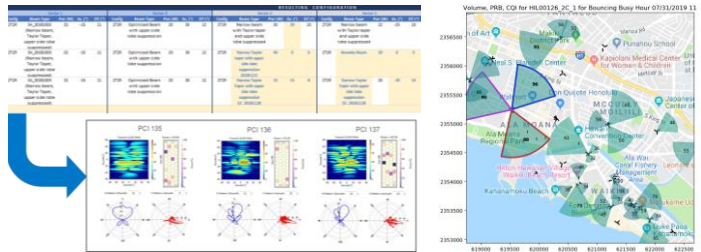
BeamTraining™

- Automatically verify beam effectiveness during pre-deployment
- Accelerate convergence leveraging correlation with ML
- Efficient process with automated beam setting and placement



BeamRegistry™

- Intuitive KPI dashboard for critical and relevant network KPI
- Provide actionable insights with single pane of glass
- Archive and maintain inventories of beam and RAN settings



BeamRecovery™

- Hands free recovery and beam adjustments
- Maximizing network uptime with minimal intervention
- Leveraging BeamCraft redundancy for optimal performance

