

# ASSET Backhaul



# ASSET Backhaul



**ASSET Backhaul is a wireless backhaul network planning tool providing microwave link planning, path profiling, frequency and interference analysis and routing and capacity optimization.**

As wireless traffic grows and technology changes, radio network designs need tweaking. This requires carriers to assess and optimize their backhaul designs. For high data capacity technologies such as 5G and LTE, backhaul consumes a significant proportion of a site's overall costs, so creating an optimal backhaul plan can have a positive impact - not just on network performance, but also on CAPEX spend.

Additionally, small cells provide numerous transmission planning challenges due to their high capacity requirements and deployment in dense urban locations. Technologies from copper-to-fiber, and specialized microwave technologies, such as point-to-multi-point links, non-line-of-sight links all need to be assessed to find the best backhaul solution.

**"TEOCO is able to offer the kind of large-footprint solutions for assurance and network planning and optimization that CSPs increasingly desire." - Analysys Mason**

ASSET Backhaul provides complete backhaul network planning and includes all wireless backhaul technologies, including point-to-multipoint, non-line-of-sight, and micro and millimeter wave radio support. This, coupled with its ability to rank candidate locations based on backhaul requirements, makes it your ideal solution for small cell backhaul planning.



## **TEOCO is a network engineering tools market leader**

For over 5 years, Analysys Mason has ranked TEOCO as a leading vendor of network engineering software tools.

# ASSET Backhaul



## Backhaul is critical to your network performance

The migration to 5G and LTE presents considerable challenges for operators across their radio, transmission and core networks. Backhaul is now a much higher percentage of a sites costs and is increasingly becoming the bottleneck to meet the expanding data needs of customers. ASSET Backhaul is designed to help you overcome the technical challenges of backhaul network planning and deliver a high performance network while keeping costs in check.



## Identify the most suitable wireless backhaul technology

Small cells with their high capacity and typically dense urban deployment locations provide numerous transmission planning challenges. A successful transmission plan requires a number of technologies from microwave to copper to fiber as well as some specialized microwave technologies such as point-to-multi-point links, non-line-of-sight links and microwave and millimetre wave radios. ASSET Backhaul helps you identify the best backhaul option for each site considering both performance and cost.



## Deliver the optimal backhaul design

ASSET Backhaul delivers a number of advanced features to help you achieve the best backhaul network. A few highlights include routing and capacity optimization with what-if scenarios, frequency and interference analysis with support for Adaptive Modulation and Coding and path profiling based on the latest ITU recommendations.

# ASSET Suite

ASSET Backhaul is a part of TEOCO's ASSET Suite, a comprehensive planning portfolio designed to deliver cost-effective high performance networks. The ASSET Suite consists of the following products:



## ASSET Radio

Radio network planning. Coverage, capacity, cell parameter and neighbor planning for wireless networks.



## ASSET Backhaul

Wireless backhaul planning. Microwave link planning, path profiling and frequency interference analysis.



## ASSET Design

Automated network design. Automated optimization of existing cell configurations, as well as the placement of new sites.



## ASSET Web

Web UI for planning tasks. A lightweight and fast workflow-based UI for common planning tasks.



## ASSET Update

Planning tool update. Update ASSET with actual network configuration settings to enable planning from a valid baseline.



## ASSET Geo

Geolocated usage maps. Enables more accurate radio network planning and network design optimization.

# ABOUT TEOCO

**TEOCO is a leading provider of analytics, assurance and optimization solutions to over 300 communication service providers (CSPs) worldwide.**

Our solutions enable the digital transformation of CSPs while enhancing their network QoS, improving their customer experience and reducing their operational costs.

Through advanced analytics, TEOCO products provide actionable and measurable insights into network and customer behavior. This includes the optimization, effective monetization, and delivery of new and existing services, such as 5G.

Our commitment to network flexibility and agility makes TEOCO the obvious choice for CSPs looking to maximize the revenue potential of 5G investments and capitalize on new opportunities tied to the emerging Internet of Things (IoT).



**Global  
Footprint**



**Extensive  
Portfolio**



**Proven  
Solutions**



“TEOCO’s market leading position in Engineering Systems reflects the success of its extensive network planning and optimization solution set, built by some very cohesive acquisitions and integrated effectively to form a leading portfolio”

- Analysys Mason