

A hand is shown in the foreground, reaching out towards a complex, futuristic digital interface. The interface features a large circular gauge with three interlocking gears in the center, surrounded by various data lines, charts, and glowing blue elements. The background is dark blue with bokeh light effects.

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.

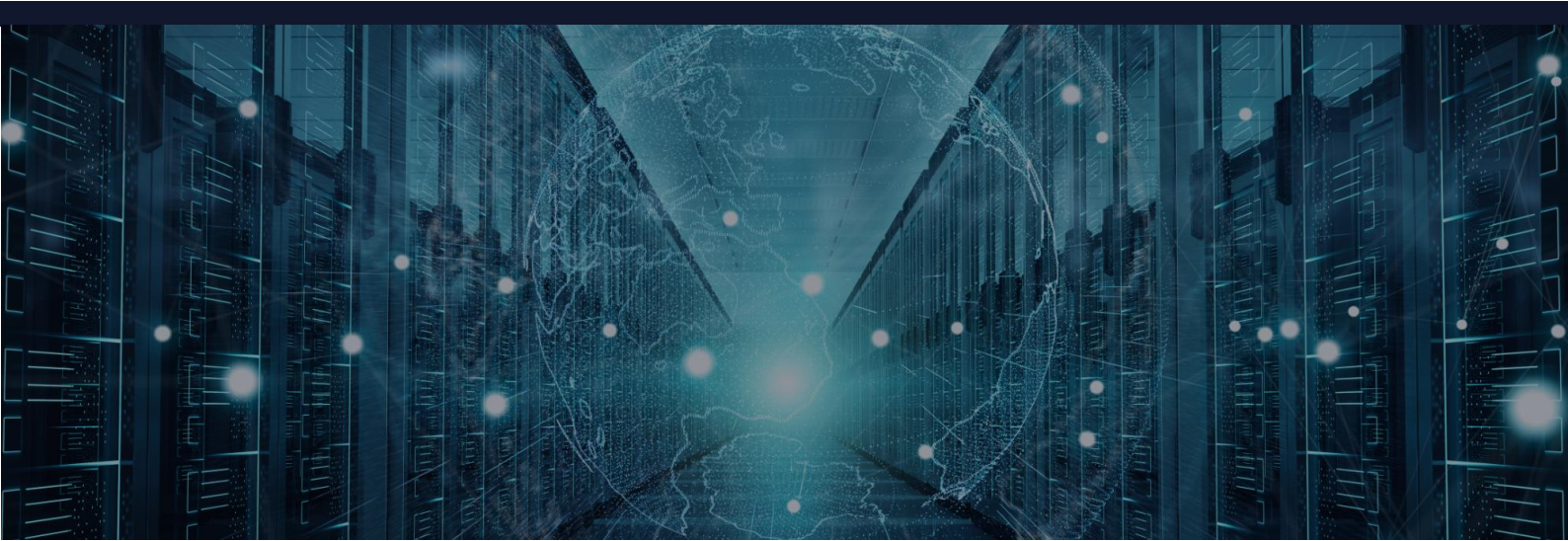
As wireless traffic grows and technology changes, radio network designs need tweaking. This requires carriers to assess and optimize their backhaul designs. For high data capacity technologies such as 5G and LTE, backhaul consumes a significant proportion of a site's overall costs, so creating an optimal 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.

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.



Aircom is a market leader in network engineering tools.



Backhaul is critical to your network performance

Backhaul is increasingly becoming a bottleneck to meeting the expanding data needs of customers. ASSET Backhaul is designed to help you overcome the technical challenges of backhaul network planning and delivering a high performance network while keeping costs in check.



Identify the most suitable wireless backhaul technology

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



Deliver the optimal backhaul design

ASSET Backhaul delivers several 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,
- Path profiling based on the latest ITU recommendations.

ASSET Backhaul is a part of Aircom'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 Evo

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 Aircom

Aircom is a leading provider of RAN analytics, design, and optimization solutions to communication service providers worldwide.

Aircom is a brand that you have known and loved for many years, now backed by the financial strength of TEOCO.

For over 25 years, Aircom has enabled mobile operators to automate how they plan, configure, and optimize their networks. This is even more critical when dealing with complex services like fixed wireless access (FWA), 5G standalone, private networks, and IoT, where everything needs to work in harmony to deliver a supreme customer experience. Through advanced analytics, our products provide actionable and measurable insights into network and customer behavior.

Cutting-edge products and services.

Market-leading solutions for addressing today's complex RAN environments.

Innovation is in our DNA.

We have the latest AI/ML-powered algorithms, automation, and new services to revolutionize your RAN.

Trusted by the world's leading service providers.

With 100+ customers in 100+ countries, we have the knowledge and experience you're looking for.

With decades of experience and a customer list that spans the globe, Aircom helps its customers improve service quality, resolve network challenges, automate processes, and establish a competitive edge.

Trusted globally

2000+

Users logins into aircom tools daily

100+

CSPs run their networks using aircom tools

100+

Countries with active aircom tools & services