ASSET Design

ASSET Design provides an automated approach to cell planning and site placement for wireless networks.

A network plan is never static. As traffic grows and moves, it needs tweaking; plugging coverage holes and adding capacity where required. Additionally, new technologies such as 5G need to be deployed on top of existing networks in the most efficient and cost-effective manner possible. This requires careful planning, especially when technology layers are expected to work together as a seamless network.

ASSET Design is a module for automating the task of network design. Based on intelligent algorithms and embedded network expertise, ASSET Design supports effective planning/optimization for evolving multi-technology wireless networks.

ASSET Design extends the benefits of our industry-leading ASSET suite, using measured network/customer (e.g. crowdsourced) data. Importantly, ASSET Design provides an efficient framework for What-If analysis based on different hypotheses about the present, and the – difficult to accurately predict – future.

A fit-for-purpose solution incorporating 20+ years of automatic planning/optimization experience, ASSET Design complements our ASSET Radio module and is used by GSM, UMTS, LTE, 5G NR and Wi-Fi network engineers. Leading network operators worldwide have benefited from the Automatic Cell Planning (ACP) and/or Automatic Site Placement (ASP) capabilities of ASSET Design.

Aircom is a market leader in network engineering tools.

Produce better and more consistent network designs, faster

ASSET Design enables the automation of network planning/optimization, to address complexity and reduce manual engineering efforts. Consequently, engineers can produce better network designs in less time. ASSET Design also provides a framework for design consistency, to decrease engineer-dependent variability and ensure that essential factors – including strict regulatory restrictions – are not overlooked. In practice, ASSET Design helps augment network planning/optimization teams.

Produce business-relevant, real-world network designs

ASSET Design enables engineers to automatically plan/optimize a network, based on their network performance objectives. It is possible to consider site/cell-specific configuration restrictions and key information, such as fiber backhaul availability, when placing new sites. In addition, CAPEX, OPEX, and ROI criteria can inform ASSET Design's results and enhanced by using crowdsourced and/or other live network data.

Produce network designs for multiple What-If scenarios

ASSET Design enables the efficient consideration of various hypotheses, including the nature and importance of network performance objectives, or the type and range of physical and regulatory restrictions. Different scenarios for budget/resource constraints, targeted use cases and forecasting user demand, site merge/decommissioning or technology sunsetting can also be considered. In this way, ASSET Design helps assess how each network design will perform today, and in the future.

ASSET Design 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 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 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 125+ 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+	125+	100+
Users logins into aircom tools daily	CSPs run their networks using aircom tools	Countries with active aircom tools & services