

Accelerating Wireless Design: Keima Composer v2.0 Showcases Adaptable Optimization Framework

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Cardiff, UK - Radio network planning and optimization experts announce the availability of Keima Composer v2.0, the latest release of their next generation mobile network engineering software. Keima Composer accelerates wireless network design and deployment by allowing engineers planning a new technology to cover more sources of revenue with fewer masts, while reducing the duration and cost of the planning process. Keima Composer v2.0 adds antenna configuration, frequency planning, neighbor list generation, paging group planning, network parameter assignment, data integrity validation and plan review. Keima Composer can also be supplemented by bespoke processes, custom analyses and user-defined visualisation, made available through Keima's Overture Framework.

Existing solutions to these problems, including automatic cell planning (ACP) and radio planning tools, focus strongly upon either complicated simulation or automation of RF planning based upon extensive network measurements, attempting the difficult task of addressing many unique problems with a single solution while trying to predict the future years in advance due to development timescales. Keima's research has shown that the real problems experienced by operators deploying a new technology relate to prompt consideration of previously unknown emergent technology behaviour, incorporation of new parameter planning, scalability and input data availability/integrity. As a result Keima's products focus upon rapid adaptation to address new challenges, large area/network/data import analysis and automation of integrity checking, validation and review.

This disruptive approach to wireless engineering is showcased through Keima Composer's adaptable optimization framework, allowing operators to integrate multi-parameter planning into a single tailored process. Automation can be determined by the client: from single button automation through to branched processes combining automatic planning algorithms with richly interactive validation through mapping and pivot table reporting. Automation can be configured to meet users unique needs, based upon innovations in scriptable constraint and domain definition, extensible network parameter models, hierarchical parameter planning, prioritised statistical objectives and many:many adjacency definition. Composer has been proven in the selection of tens of thousands of sites, and automated configuration planning of thousands of sites, and existing clients have realised eight figure paybacks (£,\$ or €) within the first year of engagement.

Richard Edge, co-founder of Keima with responsibility for product management and business development, commented:

"Keima Composer v2.0 embodies Keima's vision of the next generation of wireless engineering tools: accuracy through simplicity, efficiency through scalability and speed through flexibility. End-users can be guided through tailor-made expert designed processes, while the value of their experience can be amplified through intuitive visual review and powerful drill-down capabilities. Multi-thousand site networks can be rapidly and seamlessly planned over thousands of square kilometres thanks to proprietary innovations in the field of optimization algorithms and network analysis. Planning of tomorrow's technologies today is enabled by a uniquely adaptable optimization framework, removing the need for complicated or inaccurate work-arounds in legacy technology tools".

Keima Composer v2.0 is available now for wireless network operators, infrastructure vendors, technology consultants and network engineering service providers. It can be used for applications including overlay

planning, candidate selection, network merger integration, site portfolio evaluation, initial parameter planning, late site integration, technology evaluation, network planning and infrastructure vendor evaluation. Designed to accommodate all major families of wireless technologies, including 802.xx, 3GPP, CDMA and DVB. Further releases of Keima Composer planned for 2008 will calibrate network traffic models, applying new approaches to maximising the accuracy of input data, and enhancing further the set of planning tasks addressed.

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EDITORIAL NOTE

Keima is a UK limited company, founded in January 2006 and based at the Cardiff Business and Technology Centre. Keima's founders have been key to the delivery a large number of innovative and industry leading planning and optimisation solutions to the wireless industry since the days of GSM. Focusing on the needs of new technology operators and infrastructure vendors, Keima are developing the next generation of network planning and optimisation solutions based upon their Overture framework. The expertise of Keima employees has enabled the company to grow rapidly with a self-financing and profitable business model. Keima is currently expanding its operations in both Europe and North America.