# Samsung and Ciena Join Forces to Offer 5G Network Solutions

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*The combined 5G solution set will enable faster, pre-validated implementations of 5G networks*

SEOUL & HANOVER, Md.--(BUSINESS WIRE)-- Samsung Electronics Co., Ltd. and Ciena® (NYSE: CIEN) have entered into an agreement to deliver 5G network solutions to the market. The agreement enables Samsung to couple Ciena's xHaul solutions with its own 5G solutions to support the next-generation of high-bandwidth applications and services driven by expanding 5G networks.

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Samsung and Ciena will collaborate to offer hardware and software solutions to telecom operators, enabling them to support the increasing volume of 5G data traffic at the edge and within an increasingly distributed 5G architecture.

"As 5G proliferates, immersive services like AR/VR and HD video streaming are becoming the center of our daily mobile lives. In order to deliver more powerful 5G services, the current network architecture needs to evolve," said Wonil Roh, Senior Vice President and Head of Product Strategy, Networks Business at Samsung Electronics. "Samsung's ability to couple our best-in-class 5G solutions with a leader in transport technologies like Ciena will give customers a solution to address this need, and do so with the confidence to scale and evolve their networks to support the future of 5G."

Combining Samsung's 5G RAN and Core with Ciena's xHaul Routing and Switching portfolio and next-generation Manage, Control and Plan (MCP) domain controller will give customers an optimized offer that takes full advantage of 5G services, while providing efficient ways to manage massive data across networks and to the cloud. This will help accelerate the deployment of advanced applications enhanced by 5G, such as network slicing, IoT and automation through AI. The combined offer will deliver a validated solution, providing more compatible, faster, and simplified implementations of 5G networks.

"Together with Samsung, we're fueling the next generation of mobile connectivity to unleash the full potential of 5G," said Matt Cook, Vice President, Global Partner Organization, Ciena. "As both companies are leading innovators in our respective spaces with strong customer bases for these portfolios, this powerful collaboration leverages our collective leadership to create best-in-breed 5G networks that are open, scalable and adaptive."

The combined offer will comprise an end-to-end solution set including Ciena's xHaul Routing and Switching portfolio, and next-generation MCP domain controller, and Samsung's Core and RAN portfolio, including virtualized RAN (vRAN) solutions, baseband units and radios. The resulting solution set is available immediately.

Samsung Networks has pioneered a successful delivery of 5G solutions which include chipsets, radios, and core. Through ongoing research and development, Samsung drives the industry to advance 5G networks with its market-leading product portfolio from fully virtualized RAN and Core to private network solutions and AI-powered automation tools. The company is currently providing network solutions to mobile operators that deliver connectivity to hundreds of millions of users around the world.

Ciena is an industry leader in coherent optical, routing and switching and analytics-driven automation. The company's innovations underpin many of the world's largest mobile backhaul networks, including the world's largest mobile network operators.

**About Ciena**

Ciena (NYSE: CIEN) is a networking systems, services and software company. We provide solutions that help our clients create the Adaptive Network™ in response to the constantly changing demands of their users. By delivering best-in-class networking technology through high-touch consultative relationships, we build the world's most agile networks with automation, openness and scale. For updates on Ciena, follow us on Twitter @Ciena, LinkedIn, the Ciena Insights blog, or visit www.ciena.com.

**About Samsung Electronics Co., Ltd.**

Samsung inspires the world and shapes the future with transformative ideas and technologies. The company is redefining the worlds of TVs, smartphones, wearable devices, tablets, digital appliances, network systems, and memory, system LSI, foundry and LED solutions. For the latest news, please visit the Samsung Newsroom at news.samsung.com

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You are encouraged to review the Investors section of our website, where we routinely post press releases, SEC filings, recent news, financial results, and other announcements. From time to time we exclusively post material information to this website along with other disclosure channels that we use. This press release contains certain forward-looking statements that are based on our current expectations, forecasts, information and assumptions. These statements involve inherent risks and uncertainties. Actual results or outcomes may differ materially from those stated or implied, because of risks and uncertainties, including those detailed in our most recent annual and quarterly reports filed with the SEC. Forward-looking statements include statements regarding our expectations, beliefs, intentions or strategies and can be identified by words such as "anticipate," "believe," "could," "estimate," "expect," "intend," "may," "should," "will," and "would" or similar words. Ciena assumes no obligation to update the information included in this press release, whether as a result of new information, future events or otherwise.

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