Shifting To Cloud 5G Software Core? Here's what to Expect

As the 5G software core is being shifted to a cloud-based virtualized infrastructure, you need to start planning how you'll transition. For enterprise networks and communities, cloud-ready 5G core deployment will provide cost-effective and high-performance networking solutions.

From open-core architecture to flexible deployment and AI-driven real-time analytics, a 5G core network does everything for an enterprise network. Here's a brief rundown of some of the key takeaways from the 5G core network solution:

✓ **Disaggregated Architecture with Concepts of Cloud**

The core of 5G core infrastructure is to be built with the concepts of virtualized, disaggregated, and cloud-based models. The architecture will be built on an open-core and cloud-based model, thus, ensuring the delivery of the required resources for optimal performance and continuous enhancement. The network will be based on various platforms like Linux, open source software backed with AI.

✓ **Regular Updates with DevOps**

As new standards and products are introduced, the 5G Core Software will use DevOps methodology to provide immediate updates. These updates will be based on a cloud-based model and can be quickly deployed for optimal performance. In addition, AI's real-time analytics are also used to keep up with the latest modifications and organizational requirements.

✓ **AI-powered Real-time Analytics**

The concepts of machine learning, deep learning, and AI are extensively used in delivering real-time analytics that augments both virtual and physical infrastructure to ensure optimal performance. The analytics is powered by a multi-cloud-based platform and will be used for real-time implementation of business value.

✓ **Intelligent Network Operations Center**

Product enhancements also bolster the network operations centers without the need to change the physical infrastructure. For example, network latency, traffic management, or optimization of resources can all be performed using the NFV and AI models in cloud-based VIM (Virtualized Network Functions). While most of the core will be designed open source with multi-vendor support, some functions, like dedicated service in specific regions, can still be provided on the more traditional model.

To survive in the competitive world as a business, you must ensure that you are constantly upgrading with the latest technology. With a 5G core network solution, **you can meet ultra-fast and high-performance connectivity** with easy management.