

Mobile Backhaul Evolution



"Operators, especially those offering 2G and 3G services today, are not willing to build a separate backhaul network to handle just LTE traffic, therefore, they will coexist for the foreseeable future."

Glen Hunt, Current Analysis



Convergence Combined with an Efficient Evolution Path

As wireless applications demand greater bandwidth, mobile operators are actively considering Carrier Ethernet as a backhaul technology for their services. Mobile backhaul network costs must significantly decline so that new mobile applications and services can be rolled out profitably. While Carrier Ethernet backhaul is seen, in general, as a cost-effective alternative to legacy T1/E1 backhaul, more detailed considerations are required to understand how the topic of convergence can be addressed. The coexistence of 2G, 3G and 4G radio access calls for an efficient evolution path for the mobile backhaul network architecture, one that addresses the cost, service performance and convergence challenges. Integrated delivery of data and highly accurate network synchronization is seen as one key enabling technology.

Our Solution – Carrier Ethernet with Timing Excellence

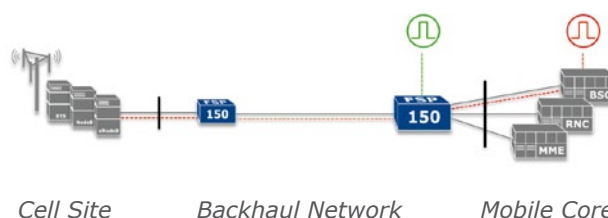
In order to meet these demands, we have created the most comprehensive mobile backhaul solution with our FSP 150 intelligent Ethernet access product line. The combination of our market-leading Etherjack® service intelligence and demarcation functionality with our comprehensive Syncjack™ technology for timing distribution and delivery of SLA-based synchronization services enables packet-based transport to deliver the long-held promise of efficiency and simplicity.

Our MEF-certified UNI boasts a scalable and future-proof design, and offers hierarchical traffic management that enables you to define advanced services while meeting lowest-latency requirements. By implementing service intelligence based on the latest OAM standards, such as 802.3ah, 802.1ag and Y.1731, you can guarantee in your network the highest service availability required for wireless backhaul.

Sold today, built for tomorrow. The network landscape is rapidly changing. The demand for data everywhere means that today's technology must be built for tomorrow's market. The FSP 150 family introduces

our revolutionary Syncjack™ technology for highly accurate timing distribution and monitoring in mobile backhaul networks. Syncjack™ enables seamless migration from 3G to 4G radio access and eliminates the risk of service disruption and impaired cell hand-offs. Evolve your backhaul services portfolio without constraints.

Our FSP 150 intelligent Ethernet access solution is designed to optimize site costs, increase quality of service and reduce transport costs across your entire backhaul network. Whether you are upgrading legacy copper, migrating fiber optics or undertaking a totally new greenfield installation, let us show you how to deliver premium mobile backhaul services at the lowest cost.



Key Benefits – Service Evolution without Constraints

With the mobile data traffic boom, backhaul service providers are seeking cost-efficient ways to optimize their packet-based access and aggregation networks. ADVA Optical Networking's innovative mobile backhaul solution can help you to build a Carrier Ethernet backhaul infrastructure that meets your customers' demands and is prepared for future service evolution. Our market-leading FSP 150 Ethernet access platform offers:

- **Efficient migration**
Smart evolution from 2G to 4G backhaul, eliminating platform constraints and providing a graceful migration between service generations
- **Service flexibility**
MEF-certified UNI featuring hierarchical traffic management for advanced service definition and low-latency forwarding
- **Efficient use of resources**
Universal service aggregation for optimized and simplified resource utilization in 2G, 3G and 4G backhaul applications
- **Simplified operations**
Etherjack® demarcation technology for support of stringent SLAs and integration with a wide range of back-office support tools
- **Timing excellence**
Comprehensive Syncjack™ technology for timing distribution and delivery of SLA-based synchronization services
- **Efficient deployment**
Low-touch provisioning, ensuring unskilled craft personnel can install and turn-up services without any onsite provisioning

FSP 150

ADVA Optical Networking's family of intelligent Ethernet access products provides devices for Carrier Ethernet service demarcation, extension and aggregation. It supports delivery of intelligent Ethernet services both in-region and out-of-region. Incorporating an MEF-certified UNI and the latest OAM and advanced Etherjack® demarcation capabilities, the FSP 150 products enable delivery of SLA-based services with full end-to-end assurance. Its comprehensive Syncjack™ technology for timing distribution, monitoring and timing service assurance opens new revenue opportunities from the delivery of synchronization services.



About ADVA Optical Networking

ADVA Optical Networking is a global provider of intelligent telecommunications infrastructure solutions. With software-automated Optical+Ethernet transmission technology, the Company builds the foundation for high-speed, next-generation networks. The Company's FSP product family adds scalability and intelligence to customers' networks while removing complexity and cost. Thanks to reliable performance for more than 15 years, the Company has become a trusted partner for more than 250 carriers and 10,000 enterprises across the globe.

Innovation



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