



Carrier Communication Platform™

Communication for the 21st Century

Overview:

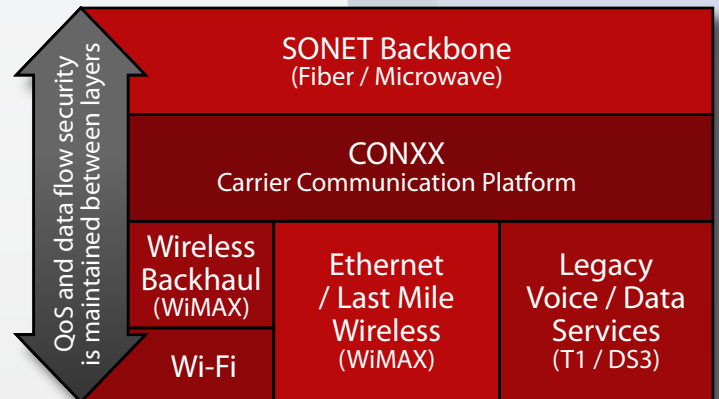
The CONXX Carrier Communication Platform™ (CCP) forms the core of cost-effective, carrier-grade networks. Typically, those two qualifiers are in conflict – “carrier-grade” usually means “very expensive” and “cost effective” usually means “not quite carrier-grade”.

What makes the CONXX CCP unique is that it combines carrier-grade core technology with the cost-effectiveness of Ethernet technology at the network edges to offer the same scalability, reliability, and features of very large carrier networks, but providing such services very cost effectively.

Advantages & Features

- **Layered separation of network elements** – Backhaul Layer (fiber / copper / wireless), Grooming Layer (Insures Quality Of Service - QoS), Delivery Layer (any system compatible with Ethernet / legacy data services / wireless systems such as WiMAX).
- **End-to-End Quality of Service** – Grooming Layer maintains QoS end-to-end, from the Backhaul Layer through the Delivery Layer.
- **Support For Legacy Data Services** – When Ethernet-based links are used as transport for legacy data services, QoS is maintained to insure that such services are indistinguishable from wireline legacy data services.
- **Provisions for WiMAX** – Special provisions are made in the Delivery Layer that insure that end-to-end QoS is maintained if cost-effective wireless systems such as WiMAX are used.
- **Separation of data flows** - There is absolute separation of data flows within the network, thus the network can serve multiple customers segments including public safety, government, banking, and health care to whom network security is paramount.

- » Flexibility
- » Scalability
- » Security
- » Functionality
- » Manageability
- » Affordability



- **IP Voice** – QoS is maintained end-to-end, including packet loss and jitter so IP Voice works extremely well.
- **Network Management System** – The CONXX DPM Network Management System 1 efficiently monitors and manages overall network operation and security and performs trends analysis on all elements 2 of the network.
- **Open Access / Network Neutrality / Neutral Carrier Host** – (Optional) Multiple service providers can provide a variety of Internet services and various service levels.

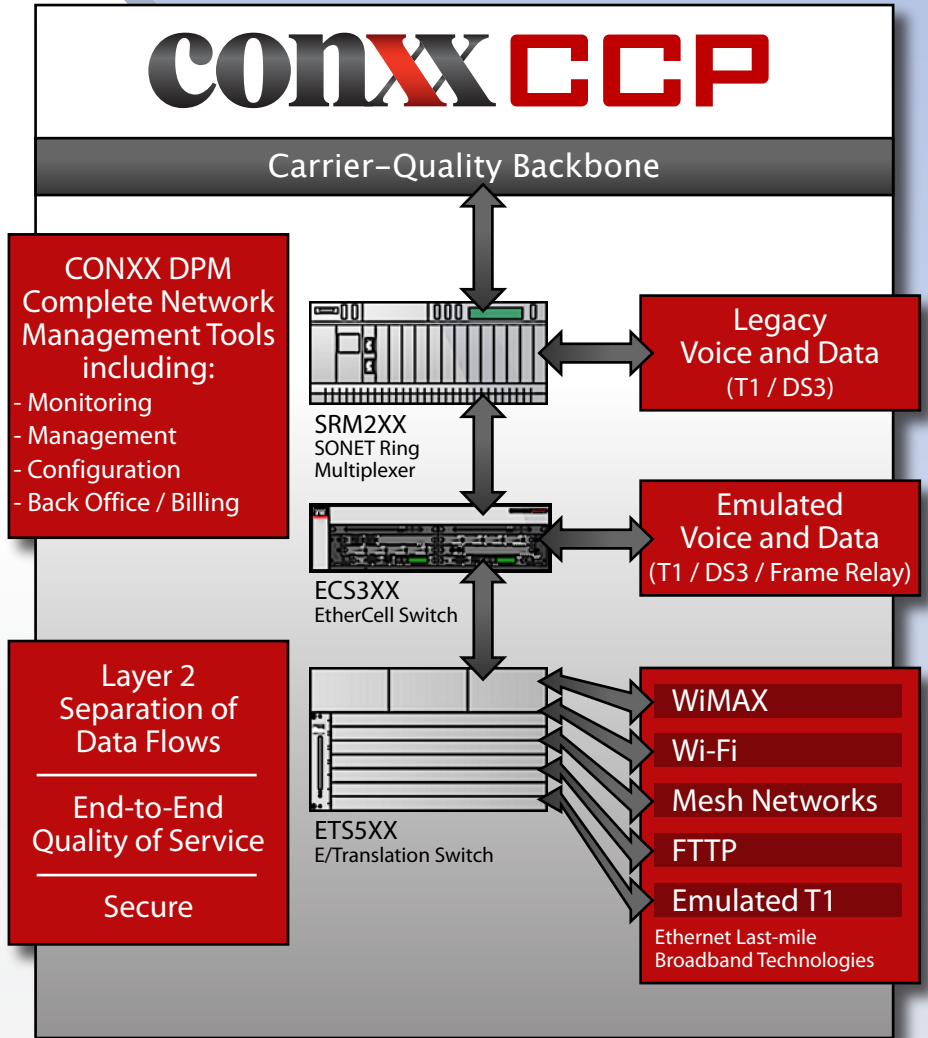
Carrier Communication Platform™

System Components

- SRM2XX SONET Ring Multiplexer³
- ECS3XX EtherCell™ Switch
- ETS5XX E/Translation™ Switch
- Network Management System Software⁴
- Hardware / Software Support Contract
- Installation Services (optional)
- Certification Services⁵

The AllCoNet2 Network

The **CONXX Carrier Communication Platform™** is the core technology commercialized from All- CoNet2, an innovative, well proven, carrier-grade network that has broken the Digital Divide in Allegany County, Maryland by making available advanced telecommunications services, including Broadband Internet Access, to more than 90% of the county's citizens and over 95% of the county's businesses, schools and government agencies.



CONXX CCP – for existing or new networks

The CONXX Carrier Communication Platform™ makes it possible to upgrade existing networks for carrier-grade Quality of Service. It also answers the need for new carrier-grade, cost-effective networks from wireline carriers, wireless carriers, CLECs, ISPs, enterprises, Public Safety, and public agencies. Customers have the option of purchasing only the CONXX Carrier Communication Platform™ or CONXX provides extensive integration and support services and turnkey network deployment.

1. The CONXX DPM network management system does not require the use of any other network management software.
2. Network elements can be monitored via SNMP. Last mile devices are monitored more intensively (CONXX Certification) to insure QoS and network security.
3. Optionally supplied by CONXX – may already be present in existing networks.
4. Server hardware, OS and database software necessary to operate CONXX DPM is not provided by CONXX.
5. Required only for systems not already CONXX-certified.



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