

## ASN Express

### WiMAX Access Service Network (ASN) Software



**EION ASN Express provides a cost effective solution for fixed, nomadic & mobile WiMAX subscribers in an enterprise network.**

#### PRODUCT FEATURES

- WiMAX Forum NWG Profile C compliant
- Standards-based NWG R3 and R6 interfaces
- Subscriber address allocation and management
- AAA Integration – Radius client support
- QoS and Bandwidth Management Support
- Full Mobility and Handover
- Mobile IP Support with integrated Foreign Agent
- Flexible Management Support and Integration with ProVision NMS
- Administration via through telnet/CLI

#### OVERVIEW

The Access Service Network (ASN) gateway is the logical entity providing subscriber control, authentication, and provisioning related communication for the control plane and the data plane in a WiMAX network. ASN Express Software contains all of the features in our popular chassis version in a software format that can be loaded onto a standard stock PC.

EION's ASN Express implements the control plane of the ASN and coordinates:

- Provisioning of subscribers between the 802.16e base stations and authentication servers
- Management of the datapath, for the subscribers, between the base stations and the Wireless Services Gateway Router (WSG-R)

#### AAA/ASN EXPRESS ORDERING INFORMATION

| Product Name                    | Product Code  |
|---------------------------------|---------------|
| ASN Express License 50 Users    | 9200-00-00-01 |
| ASN Express License 500 Users   | 9200-00-05-01 |
| ASN Express License 5000 Users  | 9200-00-50-01 |
| ASN Express License 10000 Users | 9200-00-51-01 |
| AAA Express License 50 Users    | 9300-00-00-01 |
| AAA Express License 500 Users   | 9300-00-05-01 |
| AAA Express License 5000 Users  | 9300-00-50-01 |
| AAA Express License 10000 Users | 9300-00-51-01 |

**ASN EXPRESS****ASN-CONTROLLER SPECIFICATIONS****Transport Control**

Support for IP convergence sub-layer

Encryption Control

**Authentication**

Radius client support

WiMAX-compliant authenticator functionality including key generation and distribution

Subscriber authentication through single EAP over Internet Key Exchange version 2 (IKEv2)

AAA proxy support

Dynamic Host Control Protocol (DHCP) relay and proxy support

Static and dynamic address management

Dynamic Host Control Protocol (DHCP) Server functionality

**Mobility and Handover**

Predictive terminal-initiated hard handover

Intra-ASN and Inter-ASN seamless mobility handover

R6 and R3-based mobility as per Profile C ASN Structure

**Management**

SNMPv2, CLI/SSH, CLI/Serial

ProVision™

**ASN EXPRESS SERVER REQUIREMENTS****Server Requirements**

|                  |   |
|------------------|---|
| CPU              | Minimum: Core 2 Quad<br>Recommended: Core i5/i7 CPU |
| RAM              | 4 GB RAM  |
| Disk Space       | 10 GB   |
| Operating system | Cent OS 6.2 Linux, supplied with CD                 |

EION AAA Express and EION ASN Express can be co-located on the same server.