



**Aricent's WING™ supports up to 20,000 simultaneous subscribers on an enterprise class COTS platform**

## Simplify WiMAX Deployments for Enterprise & Rural Markets with Aricent's Network-in-a-Box Solution: WING

### Challenges

Original Equipment Manufacturer (OEM) and System Integrators for enterprise, pico solutions, and rural markets need an integrated and economically viable Access Service Network (ASN) and Connectivity Service Network (CSN) solution.

### Solution

Aricent offers OEMs and SIs a standards-based, white label, "Network-in-a-box" solution-WiMAX Integrated Gateway platform with ASN Gateway, Authentication, Authorization, and Accounting (AAA) Server, and Home Agent functionalities for Tier-3/Enterprise/Rural markets.

### Benefits

Aricent's WING™ can be deployed on any Commercial, off-the-shelf (COTS)-based platform. Additionally, its "network-in-a-box" functionality lowers the overall CAPEX requirement for WiMAX deployments.

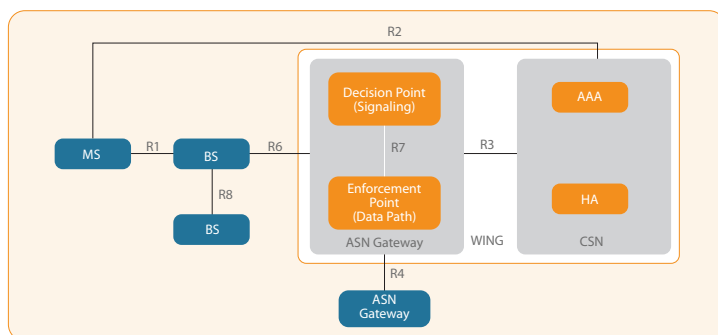
## Challenges of Deploying WiMAX Networks in Enterprise and Rural Markets

As WiMAX gains popularity for network deployments in Enterprise and Rural markets, OEMs and System Integrators need ASN Gateway solutions which:

- Reduce overall CAPEX for WiMAX deployments, making them viable for smaller networks
- Complement their existing Base Station (BS) solutions
- De-risk any interoperability issues arising due to difference in standards interpretation
- Deliver a time to market advantage on their overall investment

## Aricent's WING™ Solution

Aricent's WiMAX Integrated Gateway (WING) is an integrated software solution consisting of Profile C ASN Gateway, AAA Server and Home Agent components, all co-located on a single network node which supports both nomadic and mobile subscribers. Aricent WING offers a low-footprint WiMAX Mobility Platform which supports upto 20,000 simultaneous attached (active + idle) subscribers on an enterprise-class COTS platform and offers data throughput of up to 260K packets per second (PPS). It also supports open interfaces for R4, R6, R3b/R3c (Mobility, AAA) based on NWG R1.2 specifications.



Aricent WING in a WiMAX Network

### Aricent WING

- *Conforms to the latest standards and has a strong roadmap commitment for future evolutions*
- *Unmatched interoperability on R3 and R6 interfaces*
- *Highest performance-to-price ratio with a 'pay as you use' model*

## Key Features

Feature	Description
Authentication and Security	EAP-TLS for user authentication, key distributor including authentication relay protocols, key generation and key distribution functions
QoS Management	Admission control, all five QoS classes, classification of downlink traffic into service flows, bearer traffic DSCP and VLAN priority marking
Accounting	Post paid accounting, per subscriber billing, persistent storage of billing records
Address Management	Allocation and renewal for both MIP and non-MIP scenarios (DHCP Proxy/Relay/Server functionality)
Paging and Location Update	Secure and topology-aware idle mode paging and location update
Mobility	Intra-ASN, Inter-ASN, CSN-anchored, Macro-Diversity Handover (MDHO), Fast Base Station Switching (FBSS), IP Mobility (PMIP, CMIP and Simple IP)
Relay Functions	Handover Relay, RRM Relay, Generic Relay
Interface Support	R3, R4, R6
Unified Management Interface	CLI, SNMPv3
Data Classification and Switching	Uplink traffic based on GRE tunnel, downlink traffic based on IP classifiers (or GRE), interception of host destined traffic on uplink (DHCP/MIP/ICMP/IGMP)
User Access	Authenticated home network users, unauthenticated guest users, roamed-in visited network users
Management Support	Node management, enterprise management, subscriber management
Scalability	Aricent's WING supports up to 20,000 subscribers and a data throughput of 260K PPS
Portable Architecture	The portable architecture facilitates deployment on any Linux-based COTS platform
Flexibility	Per box licensing based on number of subscribers, BS and data throughput is available. Additionally, the product is available in various sizes to serve the needs of all segments (in-premise, micro, rural)
Other Features	IPv6 support (including PMIPv6), convergence sub layer, NAP sharing, management interfaces, segment packages for niche geo-specific segments

## Aricent WING™ Key Benefits

- **Ease of Deployment** – With the innovative implementation offered by Aricent's WING solution, operators can simplify their network deployments by using a single network node to address both ASN and CSN functionality
- **Low CAPEX** – With both ASN and CSN functionality supported on a collapsed network node, OEMs and SIs can offer a solution with lower CAPEX for end customers
- **Unmatched IOT Credentials** – Aricent's products have been through extensive testing and provide unmatched interoperability with equipment from multiple manufacturers
- **Accelerated Time-to-Market** – Equipment manufacturers can reduce the time-to-market by using this standards compliant solution which promises low risk and overheads

## Next Steps

To learn more about Aricent's WING™ or other WiMAX Products and Services, please contact your sales representative. You can also find more information at: <http://www.aricent.com/WiMAX> or write to us at [info@aricent.com](mailto:info@aricent.com).

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