

# Axyom Ultra-Broadband Edge Home Node B Gateway (HNB-GW)



Axyom Ultra-Broadband Edge Platform

## Overview

Casa Systems' end-to-end small cell solution integrates 3G and LTE access with Casa's Axyom Ultra-Broadband Edge platform encompassing virtualized security and HNB / HeNB gateways, SON, HMS / HeMS, and backhaul to deliver a highly secure heterogeneous network. It brings best of breed technology and components together in a tightly integrated system that delivers improved customer experience and superior operational performance.

Casa Systems' HNodeB Gateway (HNB-GW) runs on Casa's Axyom Ultra-Broadband Edge Platform - a powerful platform that provides the aggregation of control and user plane capabilities necessary to manage large clusters of small cells. The primary function of the HNB-GW is to enable simple, seamless, highly secure access to subscribers as they roam between trusted networks and untrusted networks.

Casa's HNB-GW is one of the industries most dense aggregation platforms for small cells. Supporting hundreds of thousands HNB's and millions of UEs per server, Casa has set the bar for performance and scalability.

Working in conjunction with Casa's Security Gateway, which delivers industry leading performance per RU, the Axyom HNB-GW delivers a tightly integrated, powerful, and flexible solution that meets the demanding needs of today's mobile operators. For those operators who have deployed alternative HNB gateways, Casa's flexible design allows for a smooth and simple integration with those devices, saving time and money.



**casa systems**

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## Key Features

Some of the key features supported by the HNB-GW include:

- Full integration with Casa's Security Gateway and other Axyom platform network functions
- Interoperability with third party security gateways
- Compliance with 3GPP R11 standards on all interfaces including Iu-ps (connecting to the SGSN) and Iu-cs (connecting to the MSC)
- Support for Iu-flex
- Full idle and active mode mobility between macro and small cells and small cell to small cell
- Open, closed, and hybrid access mode
- Closed Subscriber Groups
- Home and enterprise deployments
- Intelligent paging
- Overload and congestion control
- Stream Control Transmission Protocol (SCTP) multi-homing
- Splits and grooms voice, video and data traffic



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