

Telecom access switch accessing BRAS

Article Overview

A telecom access switch connects end users to a BRAS, which aggregates sessions, performs authentication, assigns IP addresses, and enforces traffic policies.

Role of the Access Switch

A telecom access switch, such as a DSLAM or Ethernet switch, serves as the first aggregation point for subscriber traffic. It collects data from multiple users and forwards it to the BRAS over Ethernet, ATM, or Frame Relay links. The switch may tag traffic with VLAN IDs or MPLS labels to identify individual subscribers or service types, which the BRAS uses for session management and policy enforcement .

BRAS Functions

The BRAS acts as a broadband network gateway, bridging the access network and the ISP core. Its key functions include:

- Authentication, Authorization, and Accounting (AAA): Verifies user credentials, authorizes access to services, and tracks usage for billing or management .
- IP Address Assignment: Allocates IPv4 or IPv6 addresses to clients, often via DHCP or PPPoE sessions .
- Traffic Management and QoS: Implements bandwidth limits, traffic shaping, and prioritization based on user profiles or service plans .
- Security and Policy Enforcement: Applies firewall rules, access control, and service policies to ensure secure and fair network usage

Article Content

Nov 18, 2025

BRAS Abbreviation Meaning

BRAS Abbreviation Meaning The abbreviation BRAS stands for Broadband Remote Access Server, which is a network device that

Feb 20, 2026

Introduction to BRAS | PDF

This document introduces Broadband Remote Access Server (B-RAS), which facilitates convergence of multiple internet traffic

Jan 15, 2026

SPECIAL TOPIC

Layer 2 leased line access allows users to access a BRAS interface or a VLAN/PVC on a BRAS interface through a Layer 2 device,

Jul 20, 2026

Core Switch vs. Distribution Switch vs. Access Switch

The access layer consists of layer 3 switches, which take routed and switched data packets from the distribution switches and then

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What is BRAS? Competitors, Complementary Techs & Usage

A Broadband Remote Access Server (BRAS), also known as a Broadband Network Gateway (BNG), is a network

Oct 27, 2025

Broadband remote access server

A DSLAM collects data traffic from multiple subscribers into a centralized point so that it can be transported to a switch or router over

Feb 27, 2026

Understanding DSLAM and BRAS Access Devices

View flipping ebook version of Understanding DSLAM and BRAS Access Devices - Agilent published by on 2016-01

May 28, 2026

Stingray BNG/BRAS

About BNG (Broadband network gateway) or BRAS (Broadband remote access server) is one of the key components of Stingray

Dec 12, 2025

Broadband remote access server 2026

BRAS: Core Infrastructure That Keeps Evolving Broadband Remote Access Servers (BRAS) continue to function as high

Aug 07, 2025

Broadband access network architecture along with related protocol ...

Download scientific diagram | Broadband access network architecture along with related protocol stacks. from publication: Rethinking

Aug 10, 2025

What is BRAS? – FVC::Telecom Network Services

Broadband remote access server BRAS can also be referred to as a broadband network gateway or border network gateway (BNG).

Mar 10, 2026

BRAS/BNG mode description and architecture

IP address assignment in this scheme is done either statically in the network settings of the end equipment or on the access switches

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Broadband Remote Access Server

Broadband Remote Access Server What is BRAS? BRAS, which is called Broadband Remote Access Server, is a new type of

Mar 01, 2026

Configuring and Managing Users

After user access configuration is performed and users go online, you can run the display access user-flow-statistics configuration or

Sep 16, 2025

What is BRAS? | Webopedia

Short for Broadband Remote Access Server, it is the aggregation point for the subscriber traffic.

Mar 29, 2026

Definition of BRAS | PCMag

What does BRAS actually mean? Find out inside PCMag's comprehensive tech and computer-related encyclopedia.

Apr 12, 2026

What Is a BRAS? How Does a BRAS Work?

A broadband remote access server (BRAS) is an access gateway oriented to broadband network applications. It

Oct 28, 2025

Understanding BRAS and BNG in Networking

The document discusses the role and functions of a Broadband Remote Access Server (BRAS), now called a Broadband Network

Jan 24, 2026

Broadband Remote Access Server

Definition of Broadband Remote Access Server A Broadband Remote Access Server, or BRAS, is a specialized

Sep 02, 2025

telecomtrainingpro

Hier sollte eine Beschreibung angezeigt werden, diese Seite lässt dies jedoch nicht zu.

Feb 02, 2026

Understanding Broadband Remote Access Server

English students might find the term "BRAS" confusing, as it sounds like "bras" (a type of female underwear). However,

Aug 21, 2025

Understanding BRAS in Networking

The document discusses the role and functions of a BRAS in broadband networks. A BRAS sits at the edge of the network and

Apr 13, 2026

01-04 TERMINAL ACCESS CONFIGURATION

The terminal access allows Ethernet access using LAN switches, WLAN access using APs, and asymmetric digital subscriber line

Aug 16, 2025

A Friendly Introductory Guide to Broadband Remote Access Servers (BRAS ...

BRAS, or Broadband remote access servers, were defined in November 1999. Read on to learn what it is and how it

May 19, 2026

Broadband Remote Access Server (BRAS)

BROADBAND REMOTE ACCESS SERVER Saw Yan Paing CCIE #57007 • BRAS are an essential part of broadband topologies to

Oct 06, 2025

A Comprehensive Technical and Strategic Guide to Broadband

BRAS, or Broadband remote access servers, were defined in November 1999. Read on to learn what it is and how it

May 23, 2026

Broadband remote access server definition - Glossary | NordVPN

A Broadband Remote Access Server connects users to their broadband services. It manages traffic between the end-user and the

Jan 19, 2026

BRAS (Broadband remote access server)

The BRAS is designed to work with a wide range of network equipment, including routers, switches, and other network

Jun 11, 2026

WHAT IS BRAS?

Broadband remote access server BRAS can also be referred to as a broadband network gateway or border network

Sep 04, 2025

Broadband remote access server explained

Broadband remote access server explained A broadband remote access server (BRAS, B-RAS or BBRAS) routes traffic to and from

Aug 31, 2025

Breitband-Zugangsserver – Wikipedia

Mit Broadband Remote Access Server (BRAS) oder auch Breitband-PoP (Point of Presence) werden Netzelemente von Breitband

Contact Us

For more information, pricing, or custom solutions, please contact us:

Website: <https://iiss.co.za>

Email: sales@iiss.co.za

Phone: +27 63 174 2895

Address: Unit 8, Innovation Park, 15 Rivonia Road, Sandton, Johannesburg, 2196, South Africa

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