

# SBR EAP EXPANSION MODULE

## Product Overview

The SBR EAP EM is an add-on to Juniper Networks SBR Service Provider Edition (SBR SP) RADIUS/Authentication, Authorization and Accounting (AAA) server that lets operators offer secure 802.11 wireless LAN-based services to their customers. The SBR EAP EM is based on the IEEE security standard 802.1X, and supports the strong wireless LAN (WLAN) security protocols EAP-TTLS (Tunneled Transport Layer Security) and EAP-TLS (Transport Layer Security). By adding SBR EAP EM to your existing SBR SP deployment, you can offer subscribers the secure access from public venues they've been demanding.

## Product Description

Juniper Networks® SBR EAP Expansion Module (SBR EAP EM) enables you to target new subscribers who require secure Internet access, plus offer enterprise customers public access for their users that is as secure as their WLAN access at work. Enterprise users have the added convenience of being able to use the same client software and credentials, whether they're connecting at work or at a hotspot.

Juniper Networks SBR Service Provider Edition (SBR SP) and SBR EAP EM fully support the roaming environment you've already put in place. When your subscribers connect over other providers' networks, the use of SBR EAP EM and its supported strong security protocols lets you rest assured that your customers' names and credentials will remain private.

SBR EAP EM puts you on the cutting edge of access technology, and positions you well to tap into these lucrative new revenue opportunities.

## Features and Benefits

### Strong WLAN Security

The joint SBR SP and SBR EAP EM solution provides everything you need to support secure 802.1X-based access to your network.

SBR SP enables you to provide wireless subscriber access control by authenticating users against a backend database of user credentials, granting access only to those users who are in your database or in one of your customer's database. The WLAN security protocols supported in SBR EAP EM include EAP-TTLS, EAP-PEAP (Protected Extensible Authentication Protocol), EAP-FAST and EAP-TLS for additional layers of security to fully protect your customers' access. These protocols offer strong security over a wireless link and across untrusted networks, fully protecting credential and data security.

### Numerous Service and Deployment Options

Juniper Networks SBR SP and SBR EAP EM offer you the flexibility you need to set up hotspot access services any way you wish, ensuring that you can accommodate the requirements of all of your customers. For the subscriber relationships you manage directly, if you deploy EAP-TTLS, EAP-PEAP or EAP-FAST, you can set up user names and passwords in your SQL, LDAP, Solaris NIS, or other backend database. What's more, when you offer existing subscribers secure WLAN access, there are no changes required to their credentials or configurations. This allows you to fully integrate your secure WLAN users with other users to whom you may be offering other types of services, such as VPN or dial up access.

If you're deploying EAP-TLS, you can set up user certificates in any Certificate Authority, and for your enterprise customers, you can elect to authenticate subscribers against the authentication database and scheme already in place on their network. This can be accomplished via a standard proxy RADIUS request to the enterprise RADIUS server.

## System Requirements

Together with SBR SP, the SBR EAP EM runs on Solaris 9 and 10 SPARC Edition, and on Windows XP Workstation, Windows Server 2003 and Windows Vista.

FEATURE	FEATURE DESCRIPTION	BENEFIT
Secure public WLAN access	Offers secure public WLAN access based on 802.1X	<ul style="list-style-type: none"> <li>• Lets you tap into new revenue opportunities</li> <li>• Provides tools for carrier-hosted secure enterprise services, allowing you to target new services to the enterprise</li> <li>• Allows you to flexibly set up secure access services to meet your business model</li> </ul>
Authentication and billing system integration	Easy integration into existing authentication and billing systems	<ul style="list-style-type: none"> <li>• Allows you to authenticate secure hotspot users against your existing credentials database or the enterprise database</li> <li>• Supports your existing business and roaming relationships</li> </ul>
Security	Provides strong WLAN security	<ul style="list-style-type: none"> <li>• Fully protects login credentials and data on the wireless link and across untrusted networks</li> <li>• Enables flexibly handling of any security requirements, including user name/password or certificate-based logins</li> <li>• Compatible with Juniper Networks Odyssey Access Client, a secure, easily deployed 802.1X client</li> </ul>

## Juniper Networks Services and Support

Juniper Networks is the leader in performance-enabling services and support, which are designed to accelerate, extend, and optimize your high-performance network. Our services allow you to bring revenue-generating capabilities online faster so you can realize bigger productivity gains and faster rollouts of new business models and ventures. At the same time, Juniper Networks ensures operational excellence by optimizing your network to maintain required levels of performance, reliability, and availability. For more details, please visit [www.juniper.net/us/en/products-services/](http://www.juniper.net/us/en/products-services/).

## Ordering Information

The SBR EAP EM is an add-on module for the SBR SP. The customer needs to have a license to the SBR SP product in order to run this module.

MODEL NUMBER	MODEL NAME AND DESCRIPTION
SBR-EAP-NT	SBR EAP Expansion Module Windows Single Server (license key only)
SBR-EAP-UN	SBR EAP Expansion Module Solaris Single Server (license key only)

## About Juniper Networks

Juniper Networks, Inc. is the leader in high-performance networking. Juniper offers a high-performance network infrastructure that creates a responsive and trusted environment for accelerating the deployment of services and applications over a single network. This fuels high-performance businesses. Additional information can be found at [www.juniper.net](http://www.juniper.net).

### Corporate and Sales Headquarters

Juniper Networks, Inc.  
1194 North Mathilda Avenue  
Sunnyvale, CA 94089 USA  
Phone: 888.JUNIPER (888.586.4737)  
or 408.745.2000  
Fax: 408.745.2100  
[www.juniper.net](http://www.juniper.net)

### APAC Headquarters

Juniper Networks (Hong Kong)  
26/F, Cityplaza One  
1111 King's Road  
Taikoo Shing, Hong Kong  
Phone: 852.2332.3636  
Fax: 852.2574.7803

### EMEA Headquarters

Juniper Networks Ireland  
Airside Business Park  
Swords, County Dublin, Ireland  
Phone: 35.31.8903.600  
EMEA Sales: 00800.4586.4737  
Fax: 35.31.8903.601

To purchase Juniper Networks solutions, please contact your Juniper Networks representative at 1-866-298-6428 or authorized reseller.

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