



RSA SECURID[®] ACCESS
PAM Agent
Implementation Guide

John Sammon, RSA Partner Engineering
Last Modified: 8/4/16





Solution Summary

The AIX® operating system (OS) is an open standards-based, UNIX® operating system that allows you to run the applications you want, on the hardware you want—IBM UNIX OS-based servers. More and more businesses are choosing the AIX operating system (OS) running on IBM Power Systems. AIX exploits decades of IBM technology innovation and is designed to provide the highest level of performance, security and reliability of any UNIX operating system.


The RSA Authentication Agent 7.0 for PAM (pluggable authentication module) enables RSA SecurID authentication on UNIX systems, using either standard or OpenSSH connection tools. The PAM agent uses RSA-customized shared libraries, and it supports several forms of RSA SecurID authenticators for access to UNIX servers and workstations.

RSA Authentication Manager supported features	
AIX 7.1 Power7 and Power8	
RSA SecurID Authentication via Native RSA SecurID UDP Protocol	Yes
RSA SecurID Authentication via Native RSA SecurID TCP Protocol	N/A
RSA SecurID Authentication via RADIUS Protocol	N/A
RSA SecurID Authentication via IPv6	N/A
On-Demand Authentication via Native SecurID UDP Protocol	Yes
Risk-Based Authentication	N/A
RSA Authentication Manager Replica Support	Yes
RSA SecurID Software Token Automation	N/A
RSA SecurID SD800 Token Automation	N/A
RSA SecurID Protection of Administrative Interface	N/A

Partner Product Configuration

Before You Begin

This section provides instructions for enabling the RSA Authentication Agent for PAM on IBM AIX 7.1 Power7 and Power8 platforms. You should have working knowledge IBM AIX and RSA Authentication Manager as well as access to the appropriate end-user and administrative documentation. Ensure that both products are running properly prior to configuring the integration.

 **Note:** This document is not intended to suggest optimal installations or configurations.

Configuring the RSA PAM Authentication Agent on AIX 7.1

If you plan to enable RSA SecurID authentication for *sudo*, you must upgrade to version 1.7.10.9 (*sudo.1.7.10.9.aix53.pam.bff*). Once you install the upgrade, uncomment the following lines in */etc/sudoers*:

```
Defaults targetpw
A11 A11=(ALL) ALL
```

! > Important: The **System Requirements** section in the installation and configuration guide referenced below doesn't list support for AIX 7.1 Power7 or Power8. However, both platforms are supported.

Please refer to the [RSA Authentication Agent 7.0 for PAM—Installation and Configuration Guide for AIX](#). It contains complete instructions for installing the RSA PAM agent on AIX and enabling RSA SecurID for the following clients:

- login (console)
- su
- ssh
- sudo
- rlogin
- telnet
- ftp¹

! > Important: The *ftp* client only supports RSA SecurID passcode authentication. It doesn't support new PIN mode, next tokencode mode or on demand authentication. See the [Known Issues](#) section or the [RSA Authentication Agent 7.0 for PAM—Installation and Configuration Guide for AIX](#) for more information.

¹ The ftp client doesn't support New PIN Mode, Next Tokencode Mode or On-Demand Authentication.



Certification Checklist for RSA Authentication Manager

Date Tested: July 19th and 22nd, 2016

Certification Environment		
Product Name	Version Information	Operating System
RSA Authentication Manager	8.2	Virtual Appliance
RSA Authentication Agent	7.0 PAM Auth Agent	IBM AIX 7.1 Power7 and Power8
console login client	AIX 7.1	IBM AIX 7.1 Power7 and Power8
rlogin client	N/A	IBM AIX 7.1 Power7 and Power8
su client	N/A	IBM AIX 7.1 Power7 and Power8
ssh client	N/A	IBM AIX 7.1 Power7 and Power8
sudo client	7.10.9.aix53.pam.bff	IBM AIX 7.1 Power7 and Power8
telnet client	N/A	IBM AIX 7.1 Power7 and Power8
ftp client²	N/A	IBM AIX 7.1 Power7 and Power8

! Important: The checklist below excludes ftp test results. See the [Known Issues](#) section for details.

RSA SecurID Authentication

Date Tested: July 19 and 22nd, 2016

Mandatory Functionality	Native UDP	Native TCP	RADIUS Client
New PIN Mode			
Force Authentication After New PIN	✓	N/A	N/A
System Generated PIN	✓	N/A	N/A
User Defined (4-8 Alphanumeric)	✓	N/A	N/A
User Defined (5-7 Numeric)	✓	N/A	N/A
Deny 4 and 8 Digit PIN	✓	N/A	N/A
Deny Alphanumeric PIN	✓	N/A	N/A
Deny PIN Reuse	✓	N/A	N/A
Passcode			
16 Digit Passcode	✓	N/A	N/A
4 Digit Fixed Passcode	✓	N/A	N/A
Next Tokencode Mode			
Next Tokencode Mode	✓	N/A	N/A
On-Demand Authentication (ODA)			
On-Demand Authentication	✓	N/A	N/A
On-Demand New PIN	✓	N/A	N/A
Load Balancing / Reliability Testing			
Failover (3-10 Replicas)	✓	N/A	N/A
No RSA Authentication Manager	✓	N/A	N/A

✓ = Pass ✗ = Fail N/A = Non-Available Function

² The ftp client supports standard RSA SecurID authentication. It doesn't support New PIN Mode, Next Tokencode Mode or ODA.



Known Issues

The ftp client doesn't support RSA SecurID New PIN Mode, Next Tokencode Mode or On-Demand Authentication. The client uses the operating system's standard password authentication prompts. It doesn't display RSA SecurID-specific authentication prompts or error messages during the login process. For more information, see the [RSA Authentication Agent 7.0 for PAM—Installation and Configuration Guide for AIX](#).