



RSA SecurID Ready Implementation Guide

Last Modified: March 18, 2014

Partner Information

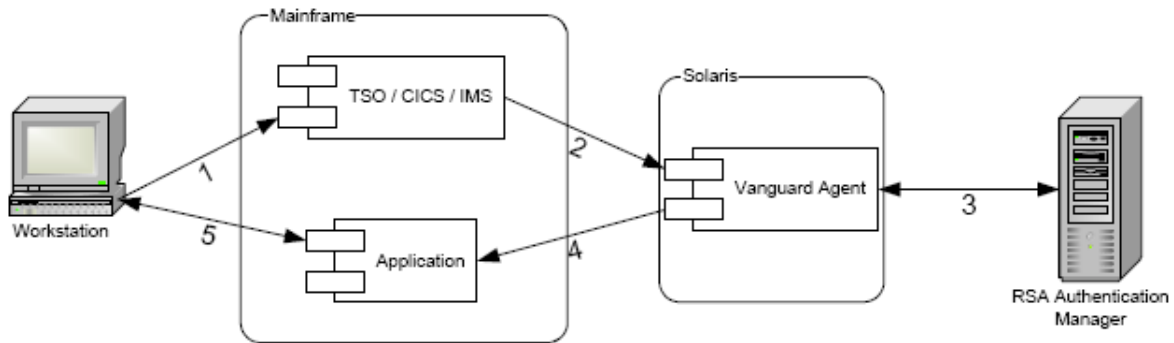
| Product Information | |
|---------------------|--|
| Partner Name | Vanguard Integrity Professionals |
| Web Site | www.go2vanguard.com |
| Product Name | ez/Token |
| Version & Platform | 2.1 – Windows |
| Product Description | Vanguard ez/Token is a two-factor RSA authentication solution that allows users to authenticate through RSA SecurID tokens to the zSeries Server or other application currently using RACF authentication. |




Solution Summary

ez/Token™ is a two-factor authentication solution integrated with RACF for users logging on to the mainframe. This solution provides a more secure alternative than the usual RACF user ID/password combination by allowing users to authenticate with RSA SecurID tokens. This allows for seamlessly integrating the mainframe with existing RSA SecurID infrastructures and can allow users to access their mainframe applications using their RSA SecurID tokens.

| RSA Authentication Manager supported features | |
|--|-----|
| ez/Token | |
| RSA SecurID Authentication via Native RSA SecurID Protocol | Yes |
| RSA SecurID Authentication via RADIUS Protocol | No |
| On-Demand Authentication via Native SecurID Protocol | Yes |
| On-Demand Authentication via RADIUS Protocol | No |
| Risk-Based Authentication | No |
| Risk-Based Authentication with Single Sign-On | No |
| RSA Authentication Manager Replica Support | Yes |
| Secondary RADIUS Server Support | No |
| RSA SecurID Software Token Automation | No |
| RSA SecurID SD800 Token Automation | No |
| RSA SecurID Protection of Administrative Interface | No |



1. A user attempts to authenticate to the mainframe via TSO, CICS, or some other protocol. The user provides their RACF user ID and either a password, or if they are a RSA SecurID user, a PASSCODE.
2. Vanguard Mainframe Authentication Exit intercepts the authentication request, and checks the RACF user ID to see if the user requires RSA SecurID authentication.

 **Note: If this is an RSA SecurID user, the PASSCODE is sent to the Vanguard Authentication Agent for validation. If it is not an RSA SecurID user, the request is passed through to RACF.**

3. The Vanguard Authentication Agent passes the provided user ID and PASSCODE to the RSA Authentication Manager server.
4. Once the user is authenticated, his credentials are passed on to the requested application.
5. The user accesses the requested application.

Authentication Agent Configuration

Authentication Agents are records in the RSA Authentication Manager database that contain information about the systems for which RSA SecurID authentication is provided. All RSA SecurID-enabled systems require corresponding Authentication Agents. Authentication Agents are managed using the RSA Security Console.


The following information is required to create an Authentication Agent:

- Hostname
- IP Addresses for network interfaces

Set the Agent Type to “Standard Agent” when adding the Authentication Agent. This setting is used by the RSA Authentication Manager to determine how communication with ez/Token will occur.

RSA SecurID files

| RSA SecurID Authentication Files | |
|----------------------------------|-----------------------|
| Files | Location |
| sdconf.rec | %systemroot%\system32 |
| Node Secret | Windows Registry |
| sdstatus.12 | %systemroot%\system32 |
| sdopts.rec | %systemroot%\system32 |

 **Note:** The appendix of this document contains more detailed information regarding these files.

Partner Product Configuration

Before You Begin

This section provides instructions for configuring ez/Token with RSA SecurID Authentication. This document is not intended to suggest optimum installations or configurations.

It is assumed that the reader has both working knowledge of all products involved, and the ability to perform the tasks outlined in this section. Administrators should have access to the product documentation for all products in order to install the required components.

All ez/Token components must be installed and working prior to the integration. Perform the necessary tests to confirm that this is true before proceeding.

Integration Overview

The Vanguard ez/Token solution is composed of 4 parts, which should be installed in the following order:

1. Security On Demand Host Server (VIPMAIN)
2. Identity and Access Manager Server (IAMEZTSV)
3. ez/Token Agent
4. ez/Token Authentication Exit (ICHRIX01)
5. ez/Token Website

Root authority on the Solaris servers, or Administrative authority on the Windows server is required for installation. Authority to install a RACF Exit is required on the mainframe. An IIS Web Server capable of servicing a CGI application is required to host the ez/Token Website.

Enable RACF users for RSA SecurID Authentication

Users can be enabled for authentication with RSA SecurID by authorizing the users to a RACF resource.

1. Obtain the RSA Authentication Manager's sdconf.rec configuration file from the RSA Security Console and copy it to the following directory on the server running the ez/Token Agent.

```
%systemroot%\system32
```

2. Define the ez/Token resource to RACF using the following command:

```
RDEFINE MDSNUF EZTOKEN.SECURID UACC(NONE)
```

3. Create two RACF groups using the following commands:

```
AG (TOKNPIN) Users in this group require a PIN and Tokencode  
AG (TOKNONLY) Users in this group require a Tokencode only.
```

4. Give the groups access to the EZTOKEN.SECURID resource created in Step 3 above:

```
PE EZTOKEN.SECURID CLASS(MDSNUF) ACCESS(READ) ID(TOKNPIN)  
PE EZTOKEN.SECURID CLASS(MDSNUF) ACCESS(UPDATE) ID(TOKNONLY)
```

5. Connect users to the relevant group. Any users NOT connected to one of these groups will use native RACF authentication.

```
CONNECT (USERID01) GROUP(TOKNPIN)  
CONNECT (USERID02) GROUP(TOKNONLY)
```

See the Vanguard Security Solutions Installation Guide Chapter 12 for more information on how to set this up.



Note: Users must have SecurID usernames on the ez/Token Agent Host that match their RACF user names.

Certification Checklist for RSA Authentication Manager

Date Tested: March 18, 2014

| Certification Environment | | |
|----------------------------|---------------------|---------------------|
| Product Name | Version Information | Operating System |
| RSA Authentication Manager | 8.1 | Virtual Appliance |
| ez/Token | 2.1.04 | Windows Server 2008 |

| Mandatory Functionality | | | |
|---|-------------------------------------|------------------------------------|------------------------------|
| RSA Native Protocol | | RADIUS Protocol | |
| New PIN Mode | | | |
| Force Authentication After New PIN | <input checked="" type="checkbox"/> | Force Authentication After New PIN | <input type="checkbox"/> N/A |
| System Generated PIN | <input checked="" type="checkbox"/> | System Generated PIN | <input type="checkbox"/> N/A |
| User Defined (4-8 Alphanumeric) | <input checked="" type="checkbox"/> | User Defined (4-8 Alphanumeric) | <input type="checkbox"/> N/A |
| User Defined (5-7 Numeric) | <input checked="" type="checkbox"/> | User Defined (5-7 Numeric) | <input type="checkbox"/> N/A |
| Deny 4 and 8 Digit PIN | <input checked="" type="checkbox"/> | Deny 4 and 8 Digit PIN | <input type="checkbox"/> N/A |
| Deny Alphanumeric PIN | <input checked="" type="checkbox"/> | Deny Alphanumeric PIN | <input type="checkbox"/> N/A |
| Deny PIN Reuse | <input checked="" type="checkbox"/> | Deny PIN Reuse | <input type="checkbox"/> N/A |
| Passcode | | | |
| 16-Digit Passcode | <input checked="" type="checkbox"/> | 16-Digit Passcode | <input type="checkbox"/> N/A |
| 4-Digit Fixed Passcode | <input checked="" type="checkbox"/> | 4-Digit Fixed Passcode | <input type="checkbox"/> N/A |
| Next Tokencode Mode | | | |
| Next Tokencode Mode | <input checked="" type="checkbox"/> | Next Tokencode Mode | <input type="checkbox"/> N/A |
| On-Demand Authentication | | | |
| On-Demand Authentication | <input type="checkbox"/> N/A | On-Demand Authentication | <input type="checkbox"/> N/A |
| On-Demand New PIN | <input type="checkbox"/> N/A | On-Demand New PIN | <input type="checkbox"/> N/A |
| Load Balancing / Reliability Testing | | | |
| Failover (3-10 Replicas) | <input checked="" type="checkbox"/> | Failover | <input type="checkbox"/> N/A |
| No RSA Authentication Manager | <input checked="" type="checkbox"/> | No RSA Authentication Manager | <input type="checkbox"/> N/A |

PEW / PAR

✓ = Pass ✗ = Fail N/A = Not Applicable to Integration

Known Issues

New PIN / Next Tokencode

ez/Token is capable of integrating with existing logon interfaces, such as TSO. As these screens cannot be changed, it is not possible to perform new pin or next tokencode functions when authenticating through the ez/Token Mainframe Authentication Exit from these screens. A website is provided to allow users to perform these functions.

On Demand Authentication

Because of reasons related to the above issue, ez/Token is unable to perform On Demand Authentications.

Appendix

| Partner Integration Details | |
|--------------------------------|------------------|
| RSA SecurID API | 5.3.0.747 |
| RSA Authentication Agent Type | Standard Agent |
| RSA SecurID User Specification | Designated Users |
| Display RSA Server Info | No |
| Perform Test Authentication | No |
| Agent Tracing | No |

Node Secret:

The node secret file is stored in the Windows Registry. Delete the NodeSecret registry key from the following location to reset the node secret.

```
[HKEY_LOCAL_USER\SOFTWARE\SDTI\ACECLIENT]
```

sdconf.rec:

The sdconf.rec file is stored in the following location. Delete or overwrite this file to remove or update the RSA server configuration file.

```
%systemroot%\system32\sdconf.rec
```

sdopts.rec:

The sdopts.rec file is stored in the following location. Delete or overwrite this file to remove or update the RSA agent options file.

```
%systemroot%\system32\sdopts.rec
```

sdstatus.12:

The sdstatus.12 file is stored in the following location. Delete this file to reset the server list.

```
%systemroot%\system32\sdstatus.12
```

Agent Tracing:

To enable agent tracing set the following environment variables on your system. Please refer to RSA agent documentation for more information about agent tracing.

```
RSATRACELEVEL=15
RSATRACEDEST=<log file name>
```