# Infosys Limited Finacle e-Banking



# **RSA SecurID Ready Implementation Guide**

Last Modified: November 1st, 2012

## **Partner Information**

Product Information			
Partner Name	Infosys Limited		
Web Site	www.infosys.com		
Product Name	Finacle e-Banking		
Version & Platform	11.0		
Product Description	Finacle consumer e-Banking solution is a proven Internet and mobile solution for retail banking customers. Built on new-generation technology, it provides a single unified view of the customer's many relationships with the bank. The solution provides high flexibility for customization and robust security features.		



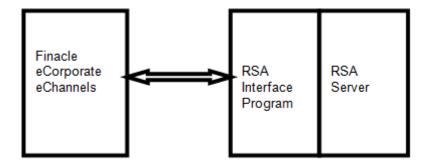


## **Solution Summary**

In the Finacle eCorporate Channel when a corporate user makes a financial transaction, a user is authenticated using RSA SecurID. When the user makes a transaction, the e-Banking application will send a request to the RSA Authentication Manager server. The RSA Interface processes the request, invoking the suitable API call(s) to the SecurID server and then sending back the result to the end user.

RSA SecurID replaces the one-factor transaction password, which is used by the user to perform a e-Banking transaction(s) within the application, and enhances the security using RSA's two-factor, SecurID authentication process.

Finacle e-Banking 11.0	
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
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







## **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 the Finacle e-Banking server will occur.

Note: Hostnames within the RSA Authentication Manager / RSA SecurID Appliance must resolve to valid IP addresses on the local network.

### **RSA SecurID files**

RSA SecurID Authentication Files		
Files	Location	
sdconf.rec	%windir%\system32	
Node Secret	%windir%\system32	
sdstatus.12	%windir%\system32	
sdopts.rec	N/A	

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 the Finacle e-Banking server 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.

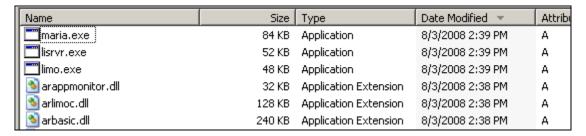
All Finacle e-Banking components must be installed and working prior to the integration. Perform the necessary tests to confirm that this is true before proceeding.

## **Documenting the Solution**

The BankAway application interacts with the SecurID server through a message based interface. The message base interface is a limo-based server, developed by Infosys. The limo server listens on particular port number for incoming messages and sends it to RSA Authentication Manager where the actual authentication takes place. It sends a status message whether authentication succeeded or failed based on the parameters it received back to the application. This interface called RSA Interface needs to be installed on the RSA Authentication Manager server.

## Installation of RSA Interface (Limo Service)

- 1. Copy the Infosys provided RSA folder (containing the RSA interface) to the RSA Authentication Manager server.
- 2. There are varies subdirectories within the **RSA** folder that was copied; including a '**bin**' folder containing the executables and a '**data**' folder containing the configuration files and log, scripts and work directories.
- The following files shown below need to be copied from the respective UBS release and added in the bin folder above. For 681, it's has to be copied from UBS 10.1.X.

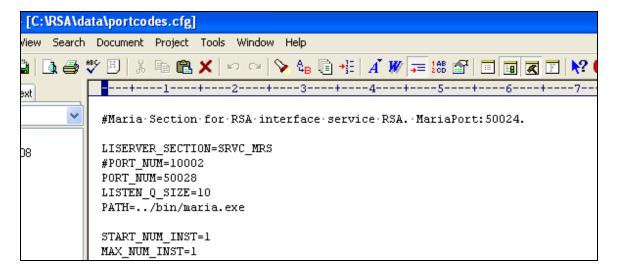


4. In the RSA\data folder, open the **portcodes.cfg** file and edit the **PORT\_NUM** variable (under the Maria section) to indicate what port the RSA Interface will listen on. This must be a port number that is not being used by any other application on the server.





 Edit other parameters in the portcodes.cfg file like MAX\_NUM\_INST, DUMP\_RECV\_BYTES=Y according to your environment. The START\_NUM\_INST and MAX\_NUM\_INST should be 1 for both the Maria and LISERVER section. An example portcodes.cfg is shown below:



6. Start the RSA Interface (Limo Service) by executing the startRSA.bat which exists in the RSA\bin folder.





#### Enabling BankAway Users for SecurID

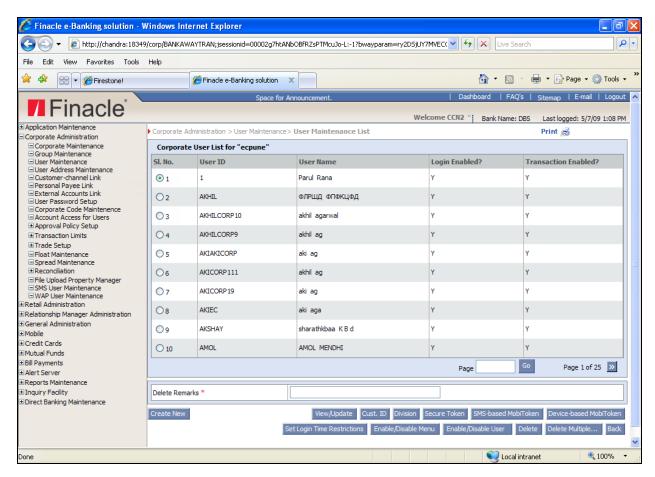
From the Finacle application we can enable BankAway users for SecurID authentication. Once he/she is enabled for SecurID, whenever he/she performs a transaction, they will get an authentication screen where he/she will be asked to enter the SecurID passcode instead of a regular a password. This info will go to RSA Interface (Limo Service) and it sends the same info to the Interface program which communicates to the RSA Authentication Manager server using the RSA APIs.

In the Finacle e-Banking Database, the Database Administrator (DBA) must make the following changes to the PRPM table:

- Set the value of SECURID HOST to the IP address of the machine where RSA is installed.
- Set the value of the **SECURID\_PORT** to which the RSA Interface is listening to. This value can be obtained from the portcodes.cfg from the path RSA\data. The **PORT\_NUM** under the Marie section will be the port on which it will be listening.

If the user is already created make sure the user has following values set:

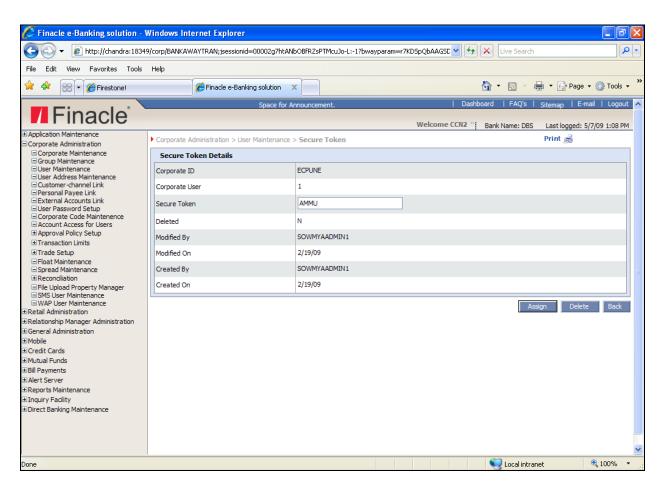
- Make sure the authentication\_mode and authorization\_mode have value 2(or SECD).
- Login in to Finacle Administration and navigate to the Corporate Administration → User Maintenance for a corporate user or Retail Administration → User Maintenance for a retail user.
- 2. Click on the Retrieve button.
- 3. Select the user to whom SecurID should be enabled.







 Click on the Secure Token button. The below screen is then displayed where you can edit the Secure Token field.

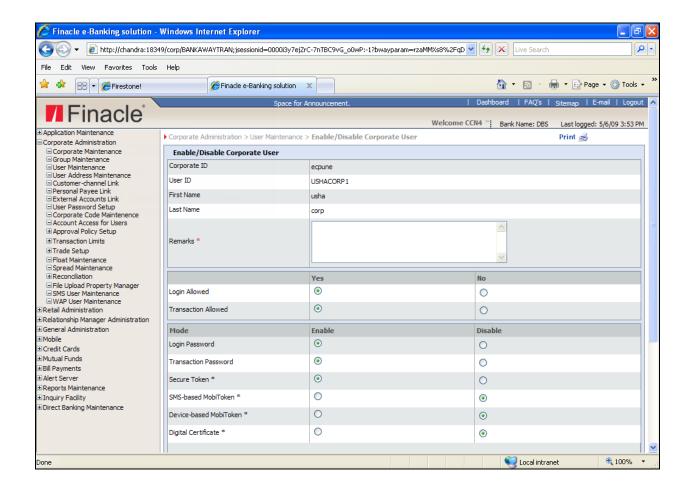


- 5. In the **Secure Token** field, enter the username of the SecurID user you wish to enable. The username must match the same username which exists in the RSA Authentication Manager server.
- Click on the Assign button. The record will be sent for approval if the Maker Checker functionality is enabled. Approve it using the other Admin user.





- 7. For enabling the user for login, click on the Enable/Disable User button from the window in step 3.
- 8. Check the enable radio buttons for Login Password, Transaction Password and Secure Token.

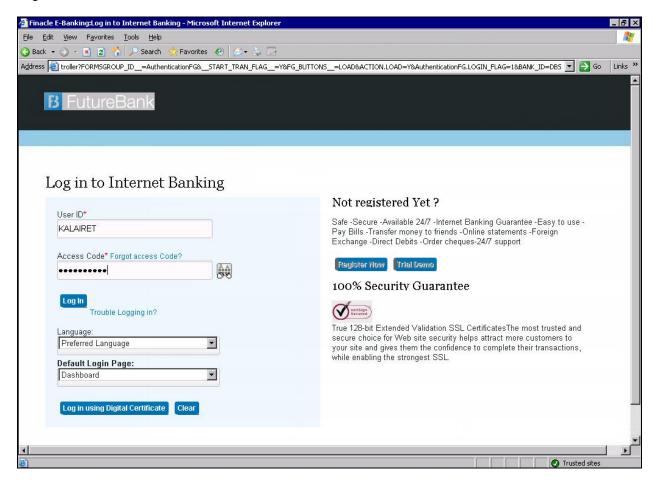






# **Sample Login Screens**

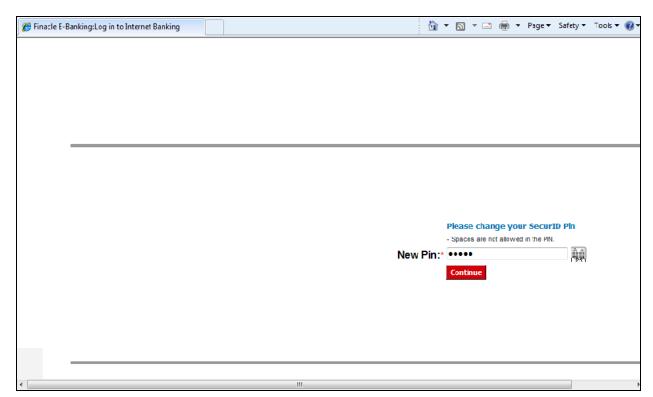
Login screen:







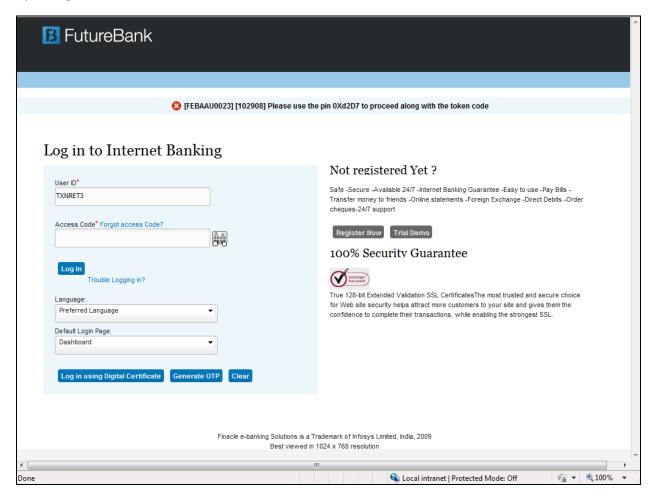
#### User-defined New PIN:







#### System-generated New PIN:







# **Certification Checklist for RSA Authentication Manager**

Date Tested: October 23<sup>rd</sup>, 2012

Certification Environment					
Product Name	Version Information	Operating System			
RSA Authentication Manager	7.1 SP4	Microsoft Windows Server 2003			
Finacle e-banking	11.0	Microsoft Windows Server 2003			
		<u> </u>			

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

JJO / PAR

√ = Pass X = Fail N/A = Not Applicable to Integration





## **Appendix**

8.1.1
Standard Agent
Designated Users
No
No
No

#### API Details:

The Finacle e-Banking application uses the RSA SecurID Authentication SDK v8.1.1 for C.

#### **Node Secret:**

The node secret (securid) is created after a successful authentication. The file resides in the %windir%\system32 directory where the RSA Interface runs.

#### sdconf.rec:

The sdconf.rec file is copied to the %windir%\system32 directory where the RSA Interface runs.

Result of requests for authentication (New PIN, Next Tokencode, validation) is logged in the file RSAInterface.log and errors will be logged in RSAInterface.err, in the log folder.



