



SecurEnvoy Windows Login Agent v9.2

**Including support for
SecurPassword
Version 9.2**

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SecurEnvoy Windows Login Agent

Including support for SecurPassword

Installation and Admin Guide v9.2
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The SecurEnvoy Security server is the main central component of the SecurEnvoy suite of products. It has direct integration into a LDAP directory server (Microsoft Active Directory, Novell e-Dir, Sun Directory Server and Linux Open LDAP Directory Server) for user information, controls and manages the authentication of SMS passcodes and the subsequent sending of them.

This must be installed for SecurAccess, SecurPassword SecurICE and SecurMail.

SecurEnvoy Windows Login Agent Including support for SecurPassword

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Foreword

SecurEnvoy is the trusted global leader of tokenless two-factor authentication. As the pioneers of mobile phone based tokenless authentication; SecurEnvoy leads the way with ground-breaking solutions that others aspire to.

Our innovative approach to the tokenless market demonstrates that thousands of users are benefitting from our solutions all over the world.

With users deployed across five continents, our customers benefit from a significantly reduced time to deploy and a zero footprint approach means there is no remote software deployment and administrators enjoy our comprehensive management tools allowing them to rapidly deploy up to 100,000 users per hour.

Our design philosophy is based on re-using existing customer technology investments such as Microsoft Active Directory, simplifying the end user authentication experience while enhancing the overall security.

With no hardware token manufacturing, distribution and maintenance costs as users can make use of existing mobile phone or Email technology the return on investment (ROI) is so much more acceptable to businesses and organizations. A zero carbon footprint is also very beneficial for environmentally responsible purchasers. We are truly providing solutions that have zero impact on our environment.

SecurEnvoy distribute through the channel, providing customers the value added benefits of working with local partners. We have established a technical and sales infrastructure that supports most languages and cultures around the world.

The business was officially incorporated in 2003 after preliminary, coding and testing in our labs. Over a decade has passed since our initial incorporation and we are very proud of our happy customer base across the five continents and with regional support for them.

Business levels have more than doubled year on year due to our subscription sales model that is an acceptable route that allows our clients to budget more effectively. This model includes local support and annual subscriptions.

Founded by Andrew Kemshall and Stephen Watts, the two founders work relentlessly to achieve business growth worldwide. This massive growth has been possible through the quality of people and the experience within the company both from sales and technical expansion.

SecurEnvoy continues to shape the way millions of people plan their authentication requirements and purchasing decisions.

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1.0 Overview of Installation Files

This agent is required if you are installing SecurAccess and it is required to directly authenticate upon a Windows PC or a Windows server. This agent is also required if you are using SecurPassword and requires a Self Service Password Reset (SSPR) solution directly from a Windows PC or a Windows server. A setup and MSI file are included to cater for standalone and Group Policy installation. This agent utilizes the HTTP(S) protocol to communicate from the SecurEnvoy Windows logon agent SecurEnvoy SecurAccess server.

1.1 SecurEnvoy Windows Login Agent

Note this agent is only required for SecurAccess and SecurPassword

Note

*For SecurAccess **ONLY** operation with the Windows Logon Agent (WLA), existing v6 WLA clients are supported, but this will not support the new VOICE token.*

*For SecurPassword via the WLA, this **MUST** be upgraded at the same time as the SecurEnvoy Security Server is upgraded to v7.*

Supported Microsoft Versions:

Windows Vista

Windows 7

Windows 8 / 8.1

Windows 10

Windows 2008 server - all versions including R2 and Terminal Server configurations

Windows 2012 server - all versions including R2 and Terminal Server configurations

Windows 2016 server - all versions including Terminal Server configurations

Note

*For SecurAccess **ONLY** operation with the Windows Logon Agent (WLA) can now support 2FA for a user's laptop working offline.*

***ONLY** Soft Tokens are supported and allows users to 2FA whilst working in a disconnected state away from the company domain.*

2.0 SecurEnvoy Windows Login Agent Install & Configuration

Prior to installing the SecurEnvoy Windows Login Agent, it is essential that there is a network connection via https (or http if the network is trusted) between the Windows Login Agent and the security server.

Confirm this is true by browsing to the following:

[https://\[my Security Server\]/secserver](https://[my Security Server]/secserver) example <https://www.abc.com/secserver>

You should get the following returned: "ERR, Unknown Flag"

2.1 Agent Functionality

All existing Microsoft logon capabilities are preserved; the SecurEnvoy agent provides a second factor of authentication via HTTP(S) using a 6 digit passcode sent to the end user.

The SecurEnvoy Windows login Agent has the following functionality:

1. All users are authenticated to the Microsoft Domain and SecurEnvoy, the Microsoft domain manages and authenticates the UserID and domain password and SecurEnvoy authenticates the UserID and 6 digit passcode. Only when access has been granted by both the Microsoft Domain and SecurEnvoy is the user allowed access to the Microsoft environment.
2. Authentication can be provided by way of Group membership, where only a designated Window group requires a 2FA logon. Thereby allowing other user groups to logon without 2FA. Group logic can be applied for users who are a member of a specific group or who are not a member of a specific group.
The two factor authentication is used for initial logon, lock workstation and screen lock.
3. SecurEnvoy Windows Login Agent has the ability to allow an "Emergency Access account" which will allow logon with a UserID and password. This account must be either a Domain or local account upon the machine. This can be used when Server client communication has failed.
4. Users, who utilize a soft token for authentication, now have the ability to work offline and still use 2FA at time of logon. Users in this mode must use a soft token and authenticate once in a connected state so that the SEED record can be copied locally to the laptop.
5. SecurPassword allows the user to reset their domain password using Two Factor authentication, the user will supply the 6 digit passcode and answer security question(s).
6. New connections feature, where a connection port can be specified to be protected or unprotected from 2FA. This is useful, where you want to 2FA external users but exclude internal users.

2.2 Installing and Configuring the SecurEnvoy Windows Login Agent (Standalone installation)

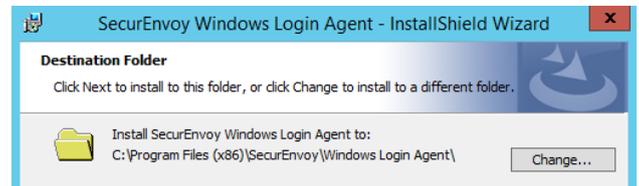
For Windows GINA deployments

Pre-requests:

Http(s) connectivity must exist from each PC or server and the each SecurEnvoy Security server.

To install the SecurEnvoy Windows Login Agent run "SecurEnvoy Windows Login Agent\setup.exe"

Click "Next" to continue.
The following page is displayed.

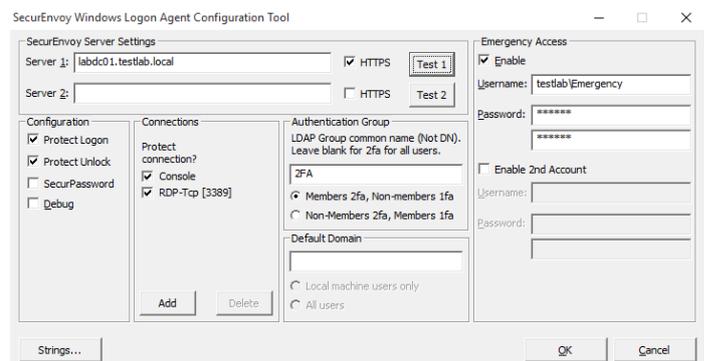


The configuration utility will run automatically. Populate details for:-

Security server address and whether HTTPS is required.

Select options for configuration

These are:
Protect logon
Protect unlock



Authentication group:
Select group for which users should provide a 2FA to logon.

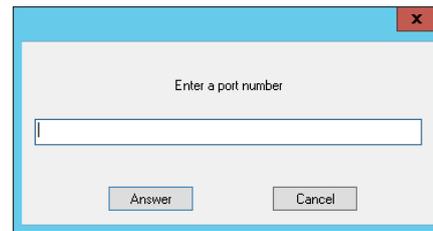
Debug, provides debug output to c:\debug\

Emergency Access: set an account that can be used for when Server client communication has failed.

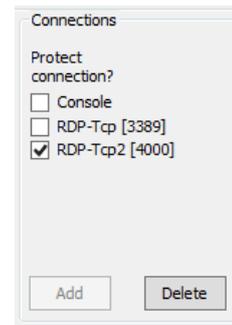
Strings: This allows configuration and customization of all user prompts.

Connections: By default, the Windows Login agent protects both Console and the default RDP port. If you would like only external users to be authenticated with 2FA, a custom port can be specified.

Click the "Add" button within the connections dialog. Enter a port number that external users will be forced to use and click "Answer"



If you would like only external users to have 2FA, Uncheck Console and 3389(default). This ensures only external users will be 2FA.

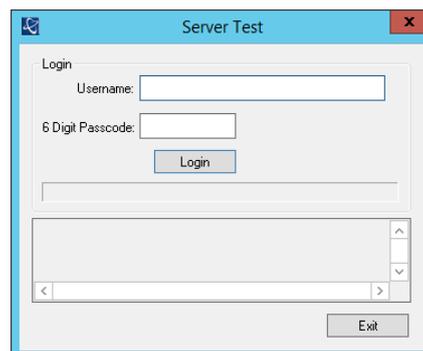


Note

Configure your firewall to use Network-Address-Translation (NAT) regarding all RDP requests on port 4000 from the external network. NAT should be configured to transfer all RDP requests from port 3389 to port 4000. This means that all external RDP requests will connect to the target machine using the new custom RDP Listener.

To check that all parameters are correct, click the "Test" button for each configured SecurEnvoy server, the following screen will be shown.

Enter the UserID and passcode and click "login".



Click "Exit" when finished testing

Click "Finish"

Click "Yes" to reboot



2.3 Installing and Configuring the SecurEnvoy Windows Login Agent (Group Policy Install)

This is a Microsoft configuration of Active Directory; please see the following web link for full information. <http://support.microsoft.com/kb/816102>

Prior to completing the Group Policy install, it is required that a standalone installation is completed; this will allow all configurations settings to be exported and saved to the MSI package.

On the test installation PC, install the SecurEnvoy Windows login Agent as described in section 2.2, once completed the configuration settings can be exported.

Run Regedit and Navigate to:

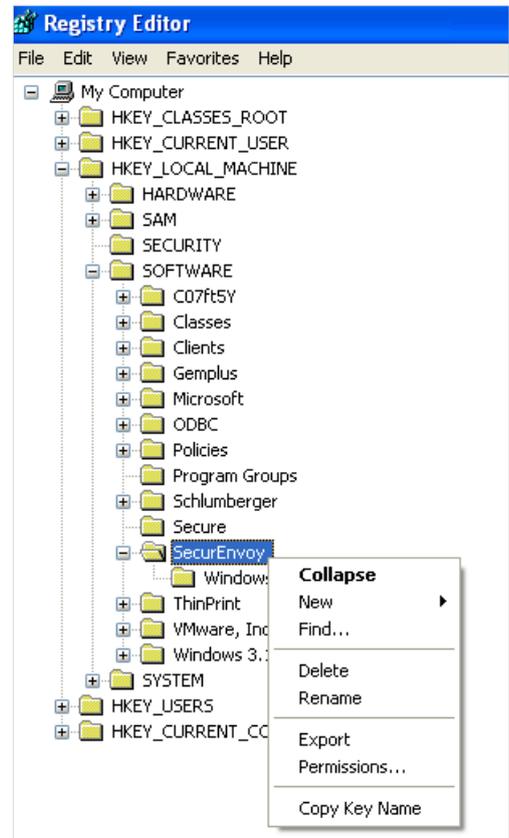
HKLM\software\SecurEnvoy

Right mouse click and select export, save the file as config.reg.

Copy this file to the MSI package and replace the config.reg file that exists under:

MSI Package\Program Files\SecurEnvoy\Windows Login Agent

The MSI Package is now ready for a Group Policy Install.



Note

It is recommended that the SecurEnvoy Windows login Agent should be applied on a computer basis.

Windows 2008 R2, 2012 R2 & 2016 Server

Create a Distribution Point

To publish or assign a computer program, you must create a distribution point on the publishing server: Log on to the server computer as an administrator.

1. Create a shared network folder where you will put a copy of all the agent's MSI install files including the .msi file and all other associated files and directories.
2. Set permissions on the share to allow access to the distribution package.
3. Copy or install the package to the distribution point.

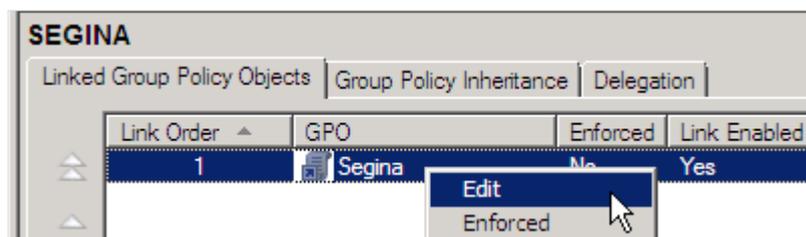
Create a Group Policy Object

To create a Group Policy object (GPO) to use to distribute the software package:

1. Start the Group Policy Management snap-in. To do this, click **Start**, point to **Administrative Tools**, and then click **Group Policy Management**.
2. In the console tree, select where you want the GPO applied. Right-click and select "**Create a GPO in this domain, and link it here**".



3. In the **Linked Group Policy Objects** tab, right mouse click and select **Edit**.



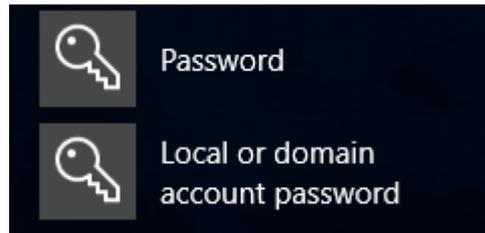
4. Under **Computer Configuration**, expand **Software Settings**.
5. Right-click **Software installation**, point to **New**, and then click **Package**.

6. In the **Open** dialog box, type the full Universal Naming Convention (UNC) path of the shared installer package that you want. For example, `\\file server\share\file name.msi`.
7. Important, do not use the Browse button to access the location. Make sure that you use the UNC path to the shared installer package.
8. Click **Open**.
9. Click **Assigned**, and then click **OK**. The package is listed in the right pane of the **Group Policy** window.
10. Close the **Group Policy** snap-in, click **OK**, and then quit the Active Directory Users and Computers snap-in.
11. When the client computer starts, the managed software package is automatically installed.

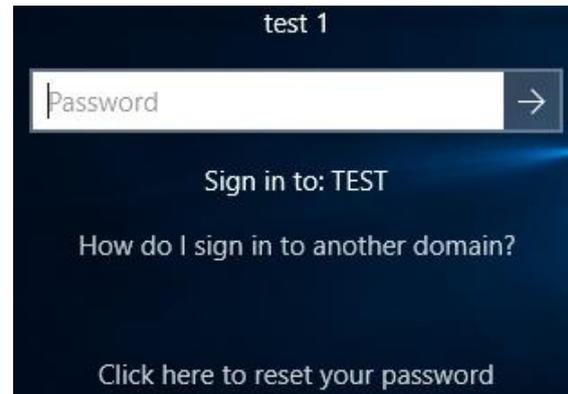
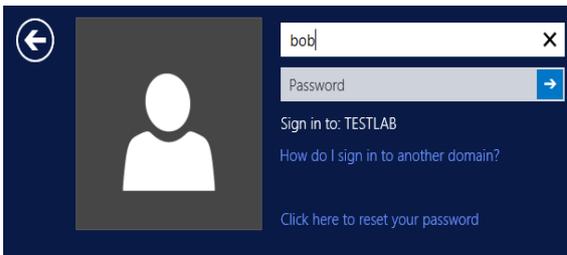
3.0 User Experience

User invokes CTRL ALT DEL to initiate the logon sequence

Windows Credential provider

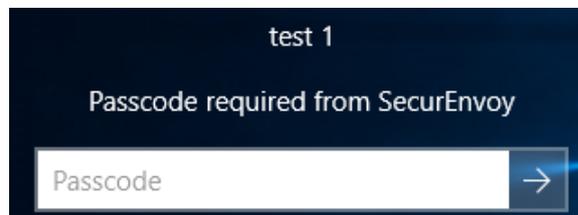
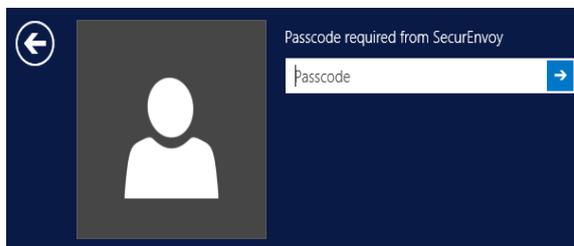


User enters UserID, domain password.



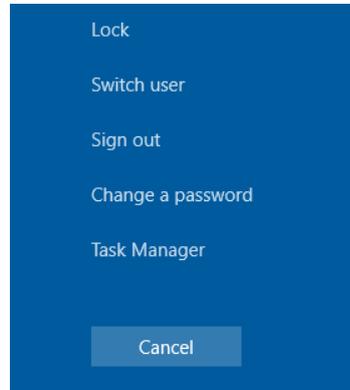
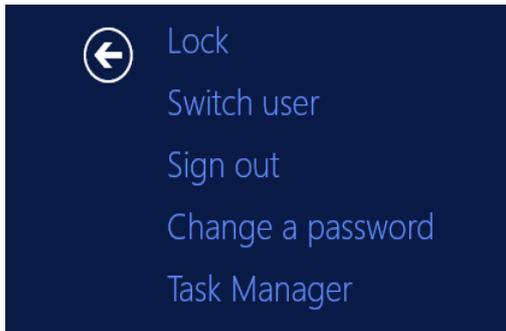
If the user is configured for 2FA the following screen prompt is shown, otherwise the user is granted access to the domain.

If using "Pre-Load" or "Daycode" mode the user enters the passcode from their mobile phone. If the user is in "Real-Time" delivery mode the passcode is sent at time of logon.



User has all the same Microsoft functionality.

Ability to: Lock Computer Log off Shut Down
 Change Password Task Manger Cancel



3.1 User Configuration

User can access the SecurEnvoy Windows login Agent from the "Start All programs menu" or using Windows search:



The following programs can be searched/selected; this requires Administrative permissions to achieve these tasks.

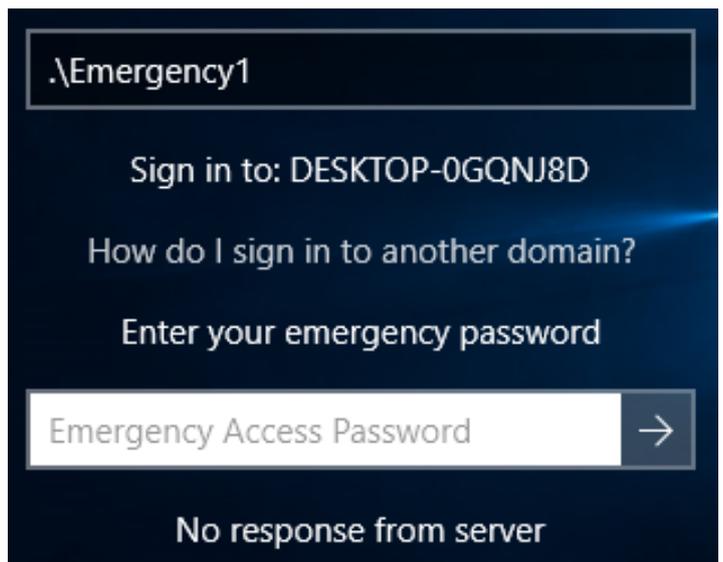
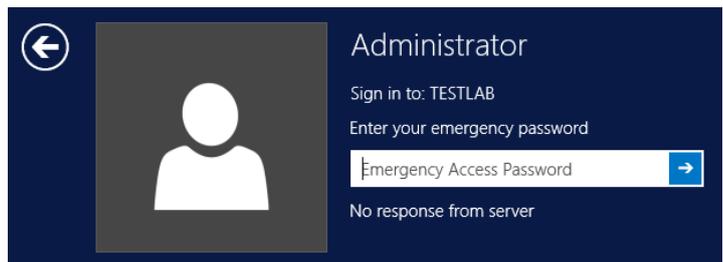
- | | |
|---------|--|
| Config | This executes the Config utility program, all settings can be configured, these are described in section 2.2 |
| Disable | This will disable the SecurEnvoy Windows Login Agent, a reboot is required to confirm change, user will now authenticate with a Microsoft login. |
| Enable | This will enable the SecurEnvoy Windows Login Agent, a reboot is required to confirm change, user will now authenticate with a SecurEnvoy 2FA login. |

4.0 Emergency Access

SecurEnvoy Windows Login Agent has the ability to allow an "Emergency Access account" which will allow logon with a UserID and password. This account must be either a Domain or local account upon the machine. This can be used when client/server communication has failed due to network, interface card or server issue.

The following screen shot will be displayed to indicate a timeout issue

Access can then be gained by logging in with the emergency access account that was previously setup in section 2.2.



5.0 SecurPassword

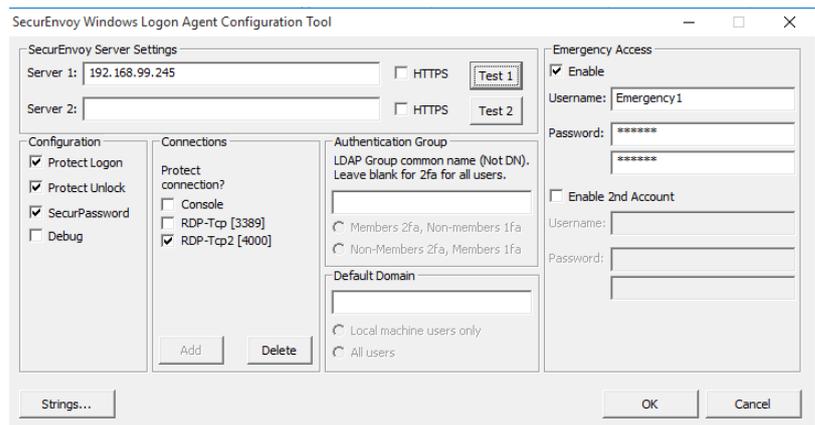
SecurPassword allows a user to reset their Microsoft Domain password using Two Factor Authentication. In addition to the passcode, up to three attributes of data can be used to help validate the authentication request for a password reset. Also the user can use security questions that were answered within the enrolment process. Any data that is held within the Directory Server can provide further checks to the user's credentials. Attributes like employee number, department etc can provide additional authentications parameters.

To enable SecurPassword it must be first enabled upon the SecurEnvoy Security server, as such a valid license must be installed. Enable the Allow SecurPassword checkbox must be ticked. The only decision is to either use existing attributes to check for authentication, or use the security questions a user has enrolled with

User can be automatically sent a "Password expiry warning" via SMS, this feature will send out a SMS warning message at x days before their user password expires. (Default is 7 days). These settings are configured upon the SecurEnvoy Security server(s).

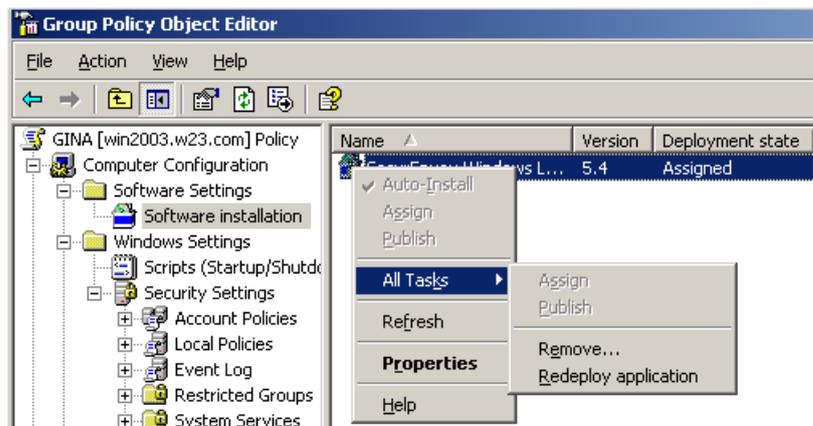
To enable the SecurEnvoy Windows Login Agent to support SecurPassword, run the configuration utility and tick the SecurPassword checkbox. Click OK when complete.

For standalone installations this will have to be completed for all machines that have the SecurEnvoy Windows Login Agent that require SecurPassword.



To enable the SecurEnvoy Windows Login Agent to support SecurPassword via a Group Policy install.

A new config.reg file must be created, once completed the package can be redeployed with the updated config.reg file.



5.1 Reset password with existing AD information

Domain password reset, using existing AD information. The system can be setup so that existing AD information can be used to reset the domain password. Within the SecurEnvoy Admin GUI select "config" and then go to the SecurPassword settings.

When "secret questions" is un-ticked it will prompt for exiting AD attributes and a prompt to be assigned. In addition the user can be reminded by a SMS alert that there password is about to expire, the default alert time is 7 days.



Note

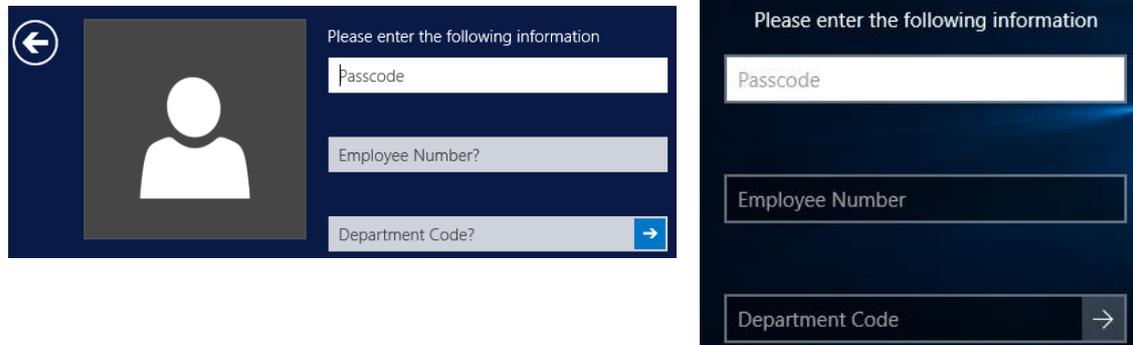
Up to three questions can be set up, although only two are shown in the admin gui, the third question can be set up directly within the server.ini file.

The Windows password can be reset by the user selecting the "Reset" link on either the GINA or the Credential provider login.



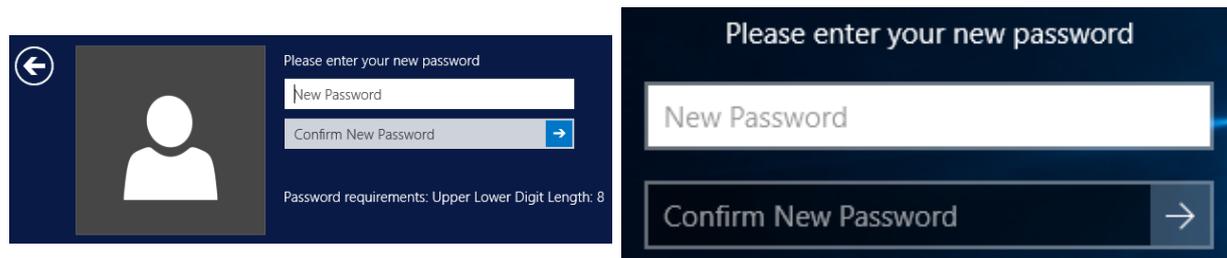
5.2 User experience - Reset password with existing AD information

When the user selects the reset password link they will then be prompted to reply with answers as shown below:



If a Domain password policy is in force

The Gina or credential provider will display what components are required to make a good password. When a user responds with the relevant component i.e. Upper case letter or numeric, the requirements that have been met will then be grayed out.



Note

The Password complexity prompt within the GINA or credential provider requires that the LDAP base is set. This can be configured directly within the server.ini file.

5.3 Reset password with SecurEnvoy secret questions

Domain password reset, using SecurEnvoy secret questions. The system can be setup so that the user enrolls at <https://securenvoy-server/secenrol> and selects two security questions existing and provides relevant answers.

Within the SecurEnvoy Admin GUI select "config" and then go to the SecurPassword settings box.

When "secret questions" is ticked the user will respond with a security questions answer. Only one security question is used and these questions are then cycled each time one it used.

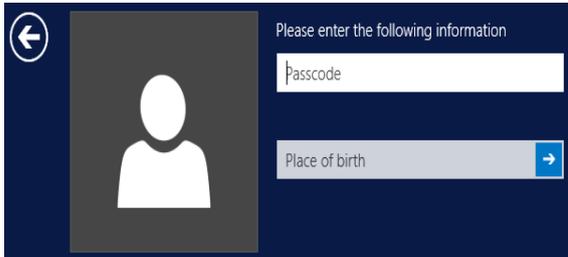
In addition the user can be reminded by a SMS alert that there password is about to expire, the default alert time is 7 days.

The Windows password can be reset by the user selecting the "Reset" link on either the GINA or the Credential provider login.



5.4 User experience - Reset password with SecurEnvoy secret questions

When the user selects the reset password link they will then be prompted to reply with answers as shown below:

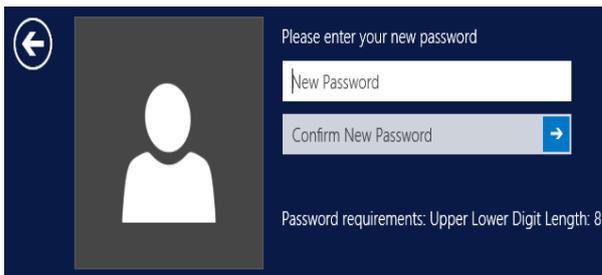


A screenshot of a user interface for entering secret questions. It features a dark blue background with a white user icon on the left. The text 'Please enter the following information' is at the top. Below it are two input fields: 'Passcode' and 'Place of birth'. The 'Place of birth' field has a blue arrow on the right side.



A screenshot of a user interface for entering secret questions. It features a dark blue background with the text 'Please enter the following information' at the top. Below it are two input fields: 'Passcode' and 'Mothers maiden name'. The 'Mothers maiden name' field has a blue arrow on the right side.

If a Domain password policy is in force the Gina or credential provider will display what components are required to make a good password.



A screenshot of a user interface for entering a new password. It features a dark blue background with a white user icon on the left. The text 'Please enter your new password' is at the top. Below it are two input fields: 'New Password' and 'Confirm New Password'. The 'Confirm New Password' field has a blue arrow on the right side. At the bottom, it says 'Password requirements: Upper Lower Digit Length: 8'.

When a user responds with the relevant component i.e. Upper case letter or numeric, the requirements that have been met will then be greyed out.

Note

The Password complexity prompt within the GINA or credential provider requires that the LDAP base is set. This can be configured directly within the server.ini file.

6.0 Offline Support (Soft Token)

To support users who are required to work in an offline state, the following are required:

User MUST be using a Soft Token

User MUST be setup for Offline mode

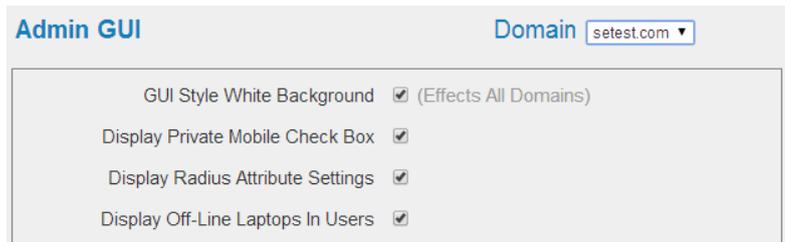
User MUST have authenticated with Soft Token at least once, in a connected state (this action copies the SEED record from the server to the user's machine)

If a user updates their Soft Token SEED record to a new one, they must authenticate with the new Soft Token at least once, in a connected state

6.1 SecurEnvoy server User configuration

Setup the SecurEnvoy server to support offline passcodes for a Soft Token.

Launch the Admin GUI, Config then select Admin GUI options. Select the domain you wish to work with and finally select the checkbox "Display Off-line Laptops".



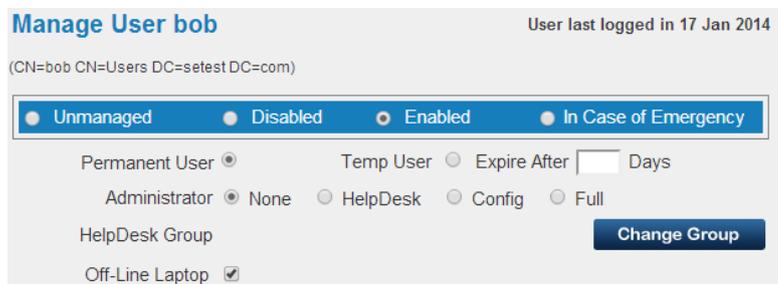
The screenshot shows the 'Admin GUI' configuration page for the domain 'setest.com'. It includes the following settings:

- GUI Style White Background (Effects All Domains)
- Display Private Mobile Check Box
- Display Radius Attribute Settings
- Display Off-Line Laptops In Users

Once complete then select the user(s) that require this setup, within the user profile.

Select the checkbox "Off-line Laptop"
Click update when complete

This MUST be completed for all users who require Off-Line passcodes support for a Soft Token.



The screenshot shows the 'Manage User bob' profile page. The user last logged in on 17 Jan 2014. The user's profile is currently set to 'Unmanaged'. The 'Off-Line Laptop' checkbox is checked. Other settings include:

- Permanent User:
- Temp User: Expire After: Days
- Administrator: None, HelpDesk, Config, Full
- HelpDesk Group: [Change Group](#)
- Off-Line Laptop:

6.2 Off-Line User experience

Users have exactly the same experience as if they were logging on in a connected state. The local machine will validate the passcode.

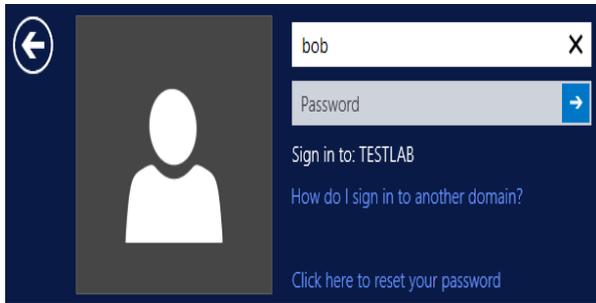
If there is any clock drift, the user is presented with a "Next Token Code" prompt.

The user is simply presented to enter in the next token passcode displayed upon their device.

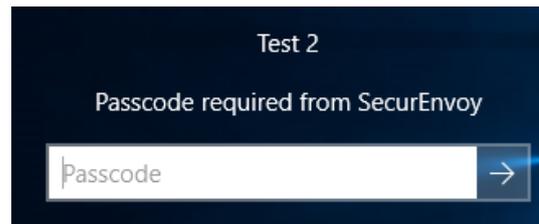
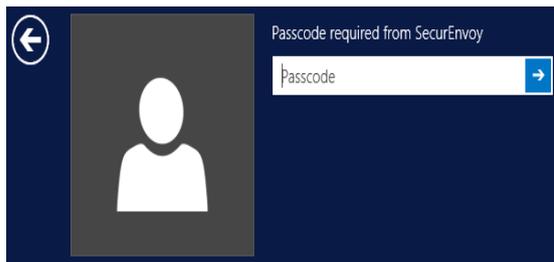
Windows Credential provider



User enters UserID, domain password.



If the user is configured for 2FA the following screen prompt is shown, otherwise the user is granted access to the domain.



Appendix