Microsoft Intelligent Application Gateway Installation Notes

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1. Introduction

This configuration document outlines how to integrate PINsafe with Microsoft Intelligent Application Gateway using Active Directory authentication in addition to the PINsafe authentication. This can be configured in two ways Option 1: RADIUS authentication or Option2: XML authentication.

If installing PINsafe on the IAG appliance it may be required to install PINsafe to use a different port than the default 8080.

2. Overview

2.1. Prerequisites

Microsoft Intelligent Application Gateway 3.7
IAG and URL rewriting documentation
PINsafe 3.x server with ChangePIN
ChangePIN configuration document

2.2. Baseline

Microsoft Intelligent Application Gateway 3.7
PINsafe 3.5

2.3. Architecture

The IAG makes authentication requests against the PINsafe server by RADIUS or XML.

3. Installation

3.1. Edit the IAG Configuration Files

Edit the file images.asp with the required shared secret and to represent the PINsafe server IP address and PINsafe install name:

objWinHttp.Open "GET",
"https://**192.168.1.1**:8443/**proxy**/SCImage?username="&request.querystring("username"), false

> Note for a software install of PINsafe not using SSL or an older appliance this should be:
>
> objWinHttp.Open "GET",
> "http://**192.168.1.1**:8080/**pinsafe**/SCImage?username="&request.querystring("username"), false

3.2. Copy the Configuration files

1. Copy Token.inc and Portalname1postpostvalidate.inc to: <path to IAG install>\von\InternalSite\inc\CustomUpdate
2. Copy login.asp file to: <path to IAG install>\von\InternalSite\CustomUpdate
3. Copy images.asp to: <path to IAG install>\von\InternalSite\Images\CustomUpdate

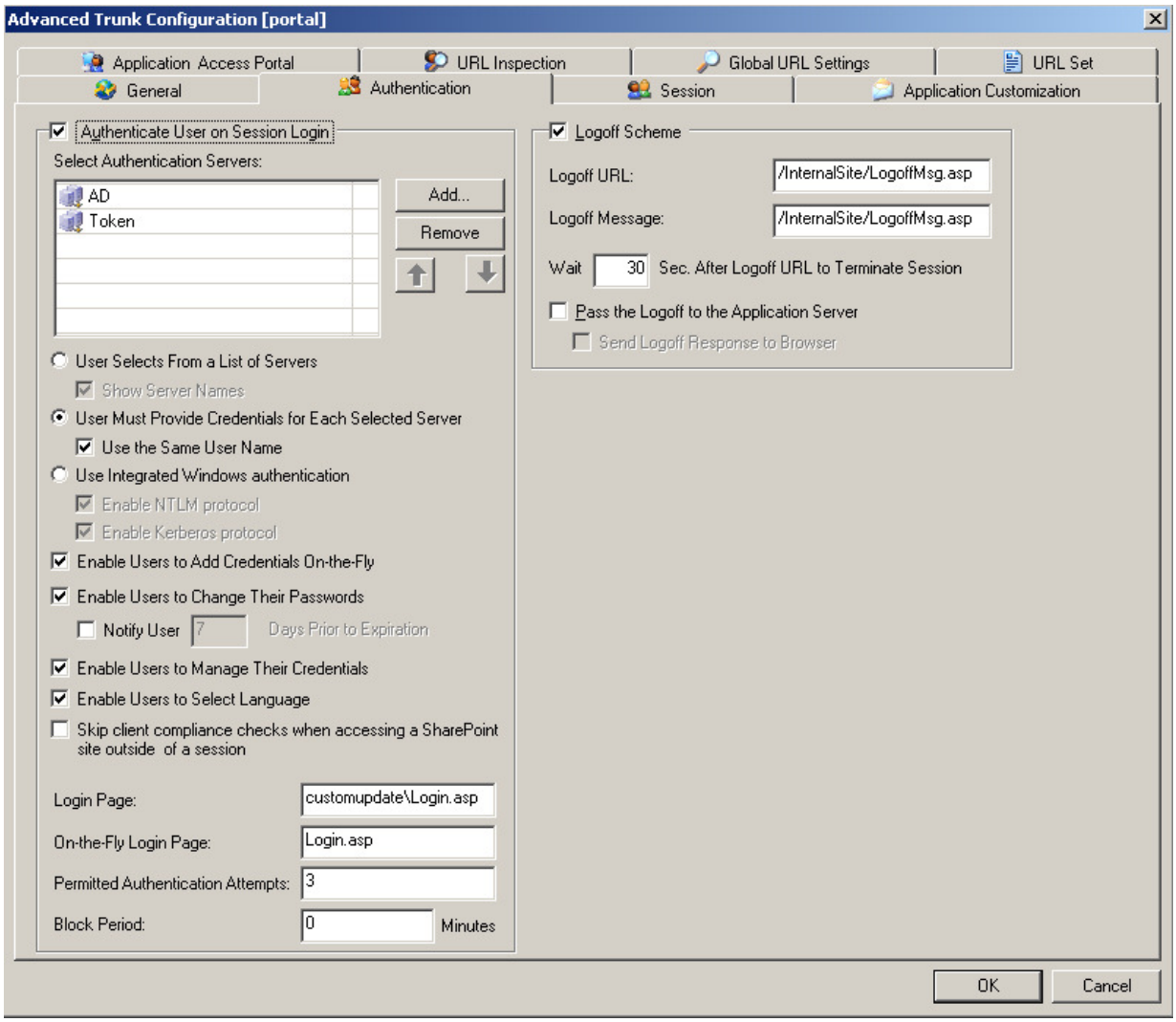
3.3. Configure the IAG

3.3.1. Create an ISA rule to allow access from the IAG to the PINsafe server

On the ISA configuration select New Access Rule and create a rule to allow traffic from the IAG to the PINsafe server.
Port 8443 (or port 8080 for software installs, older appliances and when using XML authentication)
From Local Host (i.e. the IAG)
To PINsafe Server (or Internal Network)
Outbound Traffic

3.3.2. Configure Login Page:

Select the IAG Configuration GUI, From the Advanced Trunk Configuration select Authentication and set the Login Page to customupdate\Login.asp. This can be changed to reflect a different install location or trunk.



3.3.3. Active Directory with XML or RADIUS authentication

When using PINsafe as a secondary authentication such as with Active Directory, ensure that the options for secondary authentication are selected.

The IAG can be configured to use Option1: RADIUS or Option 2: XML authentication. XML authentication allows extra functionality such as checking the users PIN number expiration. Note that when using a PINsafe appliance with a proxy configured, the XML requests need to be made to the https://<IP>:8080/pinsafe address rather than the proxy address. This applies currently to all PINsafe versions.

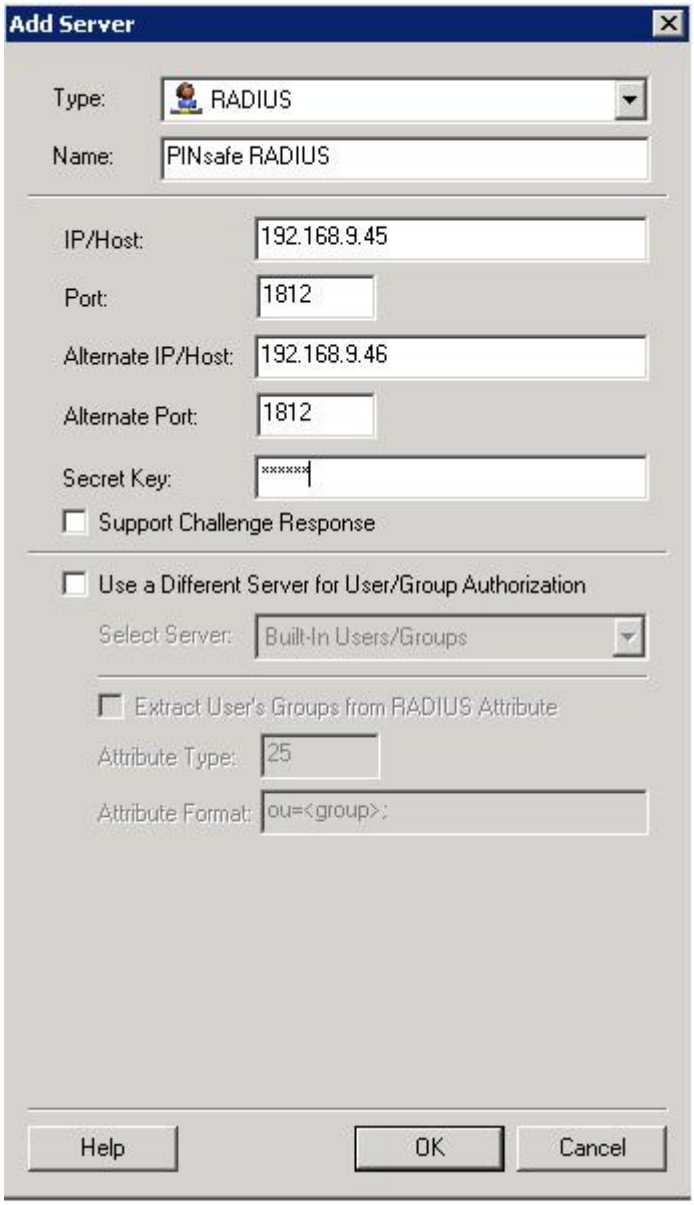
Select either Option 1: RADIUS authentication or Option 2: XML authentication

3.3.4. Option 1: Configuring RADIUS authentication (when not using XML)

To enable RADIUS authentication create a repository of type "RADIUS" on the IAG configuration.

To use RADIUS do the following-

1. Access the IAG configuration GUI.
2. Click on Admin Authentication Users/Group repository
3. Select New to create a new repository
4. In the drop down menu, select "RADIUS" and in the Name field enter PINsafe RADIUS
5. Enter the IP of the PINsafe server
6. Enter port 1812
7. If required enter a second IP/port
8. Enter a shared secret key of the same value as the PINsafe server
9. Click on Add and apply this repository to the relevant trunk.
10. Ensure User must enter credentials for each server is selected.
11. If AD password is to be entered ensure that an AD authentication server is specified.
12. Activate the configuration
13. Configure PINsafe as a RADIUS server

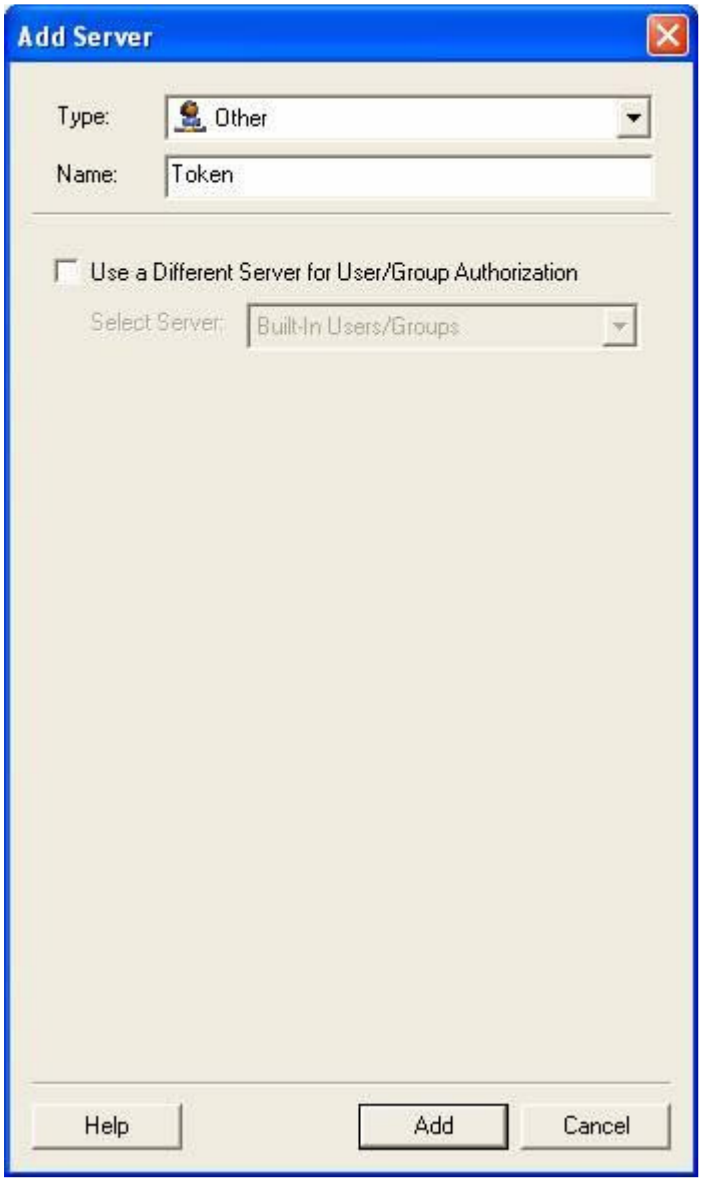


3.3.5. Option 2: Configuring XML authentication (when not using RADIUS)

To enable the token.inc file, create a repository of type "Other" on the IAG configuration. The repository you create must match the name of the file (ie, if the inc file is called Token.inc, the repository must be named Token).

To create the repository, do the following-

1. Access the IAG configuration GUI.
2. Click on Admin Authentication Users/Group repository
3. Select New to create a new repository
4. In the drop down menu, select "Other" and in the Name field type in the name of the inc file (See screen shot below)
5. Click on Add and apply this repository to the relevant trunk.
6. Activate the configuration



Edit the file Token.inc with the required shared secret and to represent the PINsafe server IP address and PINsafe install name, Note for all PINsafe installs this needs to point to the PINsafe server on port 8080 and not the proxy port 8443.

m_secret = "**secret**"

objWinHttp.Open "GET", "https://**192.168.1.1**:8080/**pinsafe**/AgentXML?xml=" & m_request, false

Edit the file Portalname1postpostvalidate.inc to represent the PINsafe server IP address and changePIN install name:

'response.redirect "https://**192.168.1.1**:8443/**changepin**"
g_orig_url = "https://**192.168.1.1**:8443/**changepin**"

Note for a software install of PINsafe not using SSL or an older appliance this should be:

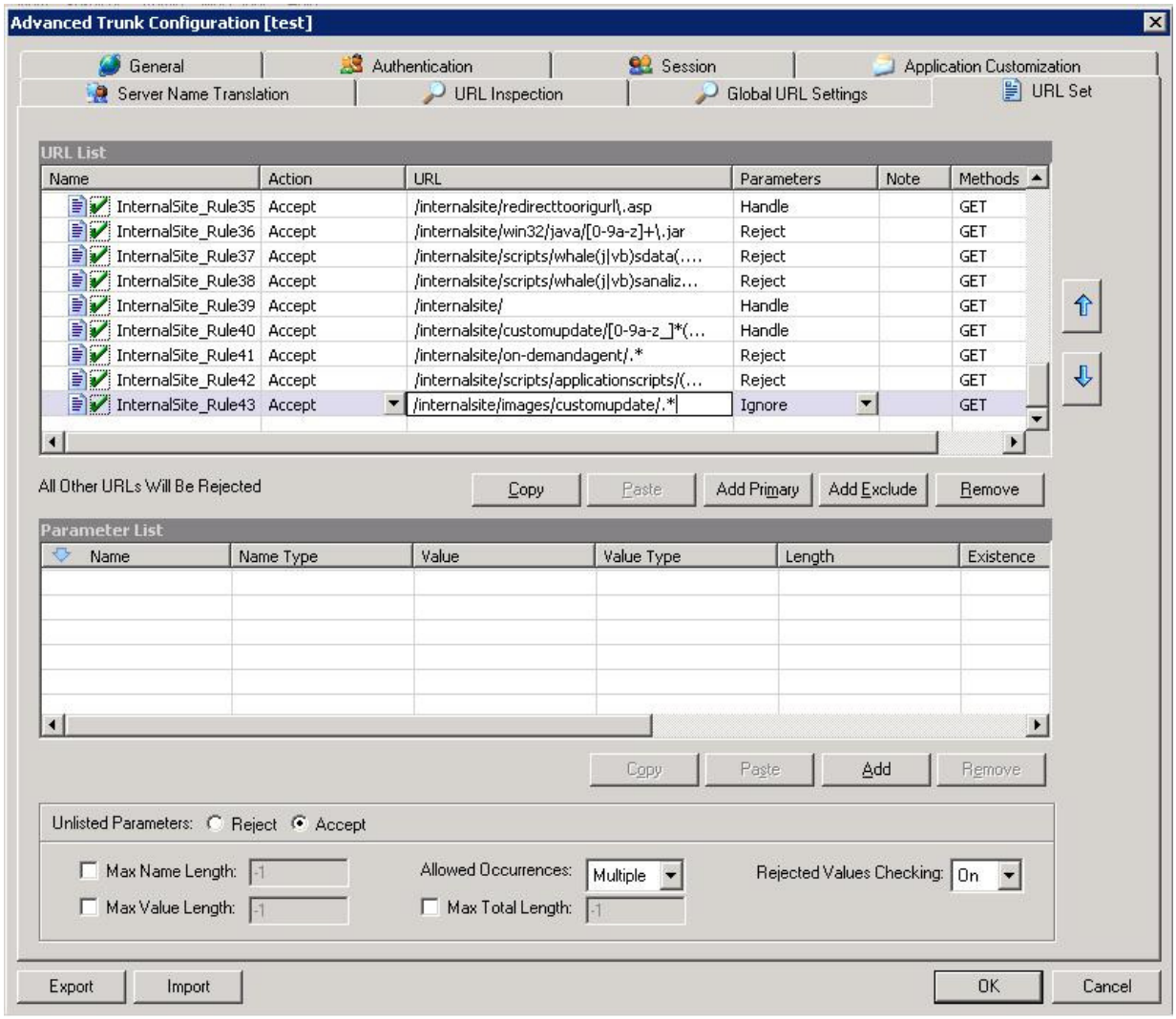
response.redirect "http://**192.168.1.1**:8080/**changepin**"
g_orig_url = "http://**192.168.1.1**:8080/**changepin**"

3.3.6. Configuring the URL rewriting rules

To allow access to the image.asp

1. Select the required Trunk
2. Select Configure from the Advanced Trunk Configuration
3. Select the 'URL Set' Tab
4. Add a rule to permit access to the image.asp

```
Portal_InternalSite_Rule##
With parameters of:
Action: Accept
URL: /internalsite/images/customupdate/.*
Parameter: Ignore (i.e. ignore any parameters)
Method: Get
```



Edit Rule to allow Access to the postvalidate.asp

1. Select the postvalidate.asp rule (Usually Internal_Rule2)
2. Under Parameters select Ignore

Alternatively add the following to the parameters list:

Turing
SMS

To allow access to the ChangePIN application

3. Select the required Trunk
4. Under Applications select Add
5. Step 1: Click the Web Applications Radio App and Generic Web App then Next
6. Step 2: Enter Application name ChangePIN and Application Type: pinsafe then Next
7. Step 3: Enter the ChangePIN IP address, and under path the location of the ChangePIN install normally changepin, set the port to 8080, then Next
8. Step 4: Select Next
9. Step 5: Check details are correct, specifically http://<IP Address>:8443/changepin and then Finish

NOTE: If changing the IP address then change the IP address in the Application Properties on the Web Servers and the Portal Applications tabs.

3.4. Configure The PINsafe Server

Configure a PINsafe Agent

1. On the PINsafe Management Console select Server/Agent
2. Enter a name for the Agent
3. Enter the IAG internal IP address
4. Enter the shared secret
5. Click on Apply to save changes

Configure a RADIUS NAS entry (if using RADIUS)

1. Ensure the RADIUS server is running on PINsafe
2. On the PINsafe Management Console select RADIUS NAS
3. Enter a name for the NAS
4. Enter the IAG internal IP address
5. Enter the shared secret
6. Click on Apply to save changes

Configure Single Channel Access

1. On the PINsafe Management Console select Server/Single Channel
2. Ensure ‘Allow session request by username’ is set to YES

4. Verifying the Installation

Browse to the login page, select Turing and enter a username, the Turing image should appear. Test using the SMS option. Check for requests on the PINsafe server.

Successful RADIUS authentication

The following user logged into trunk "test" (secure=0): User: admin; Source IP: 192.168.9.87; Authentication Server: PINsafe RADIUS; Session: B9FCC62A-B073-445D-9AAE-2FB1109EE5E6.

5. Troubleshooting

Check the PINsafe server logs and system event logs for any errors or lack of communication as well as the IAG logs under Admin/Web Monitor. Check the ISA server logs.

URL blocking by the IAG

Request failed, the URL contains an illegal path. Trunk: test; Secure=0; Application Name: Whale Internal Site; Application Type: InternalSite; Rule: Default rule; Source IP: 192.168.9.87; Method: GET; URL: /InternalSite/Images/customupdate/images.asp?username=admin.

From a web browser on the IAG check to see if it is possible to generate a Turing image https://<IP address of PINsafe server>:8443/proxy/SCImage?username=test

> Note for a software install of PINsafe not using SSL or an older appliance this should be:
>
> for older appliances and software installs not using SSL;
> http://<IP address of PINsafe server>:8080/pinsafe/SCImage?username=test

6. Known Issues and Limitations

If upgrading the IAG to a higher service pack (e.g. sp2), the configuration files, particularly login.asp may be overwritten. Verify the files after an upgrade. Also note that the URL rewriting rules may differ from version to version, so these should also be verified.

7. Additional Information

For assistance in the PINsafe installation and configuration please firstly contact your reseller and then email Swivel Secure support at support@swivelsecure.com