## **Microsoft Direct Access Integration**

### Contents

- 1 Introduction
- 2 Prerequisites
- 3 Baseline
- 4 Architecture 5 Installation
  - ♦ 5.1 PINsafe Configuration

    - ♦ 5.1.1 Configuring the RADIUS server
       ♦ 5.1.2 Setting up the RADIUS NAS
    - ◊ 5.1.3 Enabling Session creation with username
    - 5.2 Microsoft Direct Access Integration
      - ◊ 5.2.1 Enable Two Factor Authentication
      - § 5.2.2 Configure OTP Authentication Server ♦ 5.2.3 CA Server Configuration
    - 5.3 Additional Installation Options
- 6 Verifying the Installation
- 7 Uninstalling the PINsafe Integration
- 8 Troubleshooting
- 9 Known Issues and Limitations
- 10 Additional Information

# Introduction

Microsoft Direct Access allows a VPN connection to be brought up when a user requires access to an organisations internal resources. PINsafe can authenticate a user accessing those internal resources using Dual channel authentication such as SMS, Mobile Phone Client and the Taskbar utility Taskbar How to Guide and Token.

# **Prerequisites**

Microsoft Direct Access fully configured

Microsoft CA server for OTP authentication

PINsafe 3.x

# **Baseline**

Microsoft UAG SP1 with Direct access configured

PINsafe 3.8

# **Architecture**

When a Direct Access connection is made, a pop up appears for the user prompting them to enter their One Time Code. This is then checked by the UAG against PINsafe using RADIUS authentication.

## Installation

### **PINsafe Configuration**

### Configuring the RADIUS server

Configure the RADIUS settings using the RADIUS configuration page in the PINsafe Administration console. In this example (see diagram below) the RADIUS Mode is set to ?Enabled? and the HOST IP (the PINsafe server) is set to 0.0.0.0. (leaving the field empty has the same result). This means that the server will answer all RADIUS requests received by the server regardless of the IP address that they were sent to.

Note: for appliances, the PINsafe VIP should not be used as the server IP address, see VIP on PINsafe Appliances

RADIUS>Server	0
Please enter the details for the	he RADIUS server.
Server enabled:	Yes 💌
IP address:	0.0.0.0
Authentication port:	1812
Accounting port:	1813
Maximum no. sessions:	50
Permit empty attributes:	No 💌
Filter ID:	No 💌
Additional RADIUS logging:	Both 💌
Enable debug:	Yes
Radius Groups:	Yes 💌
Radius Group Keyword:	POLICY
	Apply Reset

### Setting up the RADIUS NAS

Set up the NAS using the Network Access Servers page in the PINsafe Administration console. Enter a name for the VPN server. The IP address has been set to the IP of the VPN appliance, and the secret ?secret? assigned that will be used on both the PINsafe server and VPN RADIUS configuration.

# RADIUS>NAS 🥑

Please enter the details for any RADIUS network access servers. A NAS is permitted to access the auther via the RADIUS interface.

NAS:	Identifier:	Device Name
	Hostname/IP:	192.168.0.1
	Secret:	•••••
	EAP protocol:	None
	Group:	ANY
	Authentication Mode:	All
	Change PIN warning:	No 💌
		Apply Reset

You can specify an EAP protocol if required, others CHAP, PAP and MSCHAP will be supported. All users will be able to authenticate via this NAS unless to restrict authentication to a specific repository group.

### **Enabling Session creation with username**

PINsafe can be configured to use the Taskbar to present a TURing image to users when prompted for authentication by Direct Access. See Taskbar How to Guide

To allow Single Channel authentication on PINsafe follow the below steps.

Go to the ?Single Channel? Admin page and set ?Allow Session creation with Username:? to YES.

To test your configuration you can use the following URL using a valid PINsafe username:

#### Appliance

https://PINsafe\_server\_IP:8443/proxy/SCImage?username=testuser

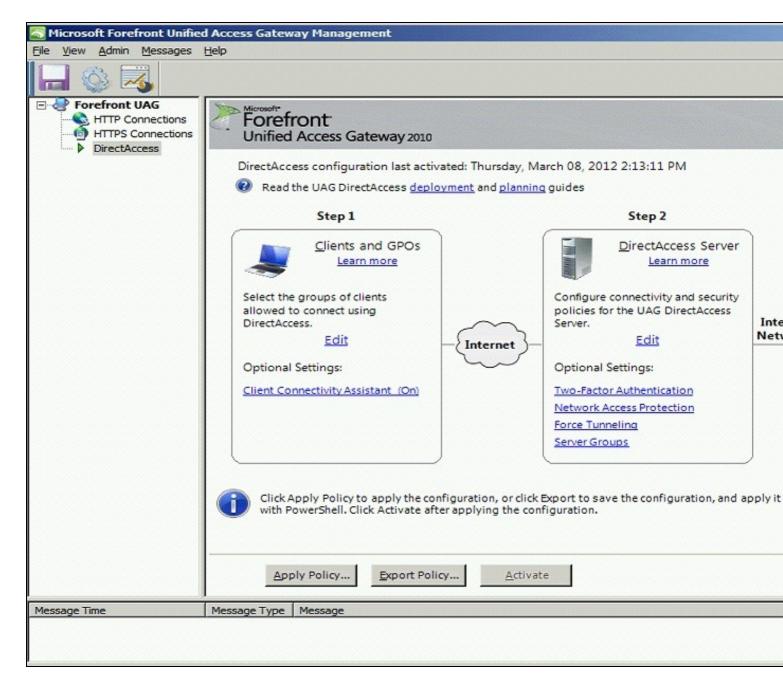
For a software only install see Software Only Installation

### **Microsoft Direct Access Integration**

Ensure that the Microsoft Direct Access is fully working and tested before startigng the PINsafe integration.

### **Enable Two Factor Authentication**

On the Forefront UAG Direct Access configuration page select under Step 2 Optional Settings the link for Two-Factor Authentication



Click on Require two-factor authentication

au UAG DirectAccess Server C	onfiguration
Two-Factor Au	thentication Configuration
Client Authentication	You can require clients to use two-factor authentication. Select the method used by UAG DirectAcc for two-factor authentication.
	Require two-factor authentication
	C Clients will log on using a PKI smart card
	C Clients will authenticate using a one-time password (OTP)
Learn more	< <u>B</u> ack <u>N</u> ext > <u>F</u> inis

Click on Clients will authenticate using a one-time password (OTP)

a UAG DirectAccess Server (	Configuration
Two-Factor Au	thentication Configuration
Client Authentication OTP Authentication OTP CA Servers OTP CA Templates	You can require clients to use two-factor authentication. Select the method used by UAG DirectActor two-factor authentication.  ✓ Require two-factor authentication <ul> <li>Clients will log on using a PKI smart card</li> <li>Clients will authenticate using a one-time password (OTP)</li> </ul>
Learn more	< <u>B</u> ack <u>N</u> ext > <u>F</u> ini

## Configure OTP Authentication Server

On the OTP Authentication tab click Add

<ul> <li>DirectAccess client authentication is configured to use OTP. Select the OTP authentication server.</li> </ul>
OTP authentication servers       Image: Comparison of the comp

Select Server Type RADIUS and enter the following information:

- Server Name: A descriptive name for the RADIUS server
  Port: RADIUS port used by the Swivel server, usually 1812
  IP address/host: The Swivel RADIUS server
  Alternate IP/host: A secondary Swivel RADIUS server
  Alternate port: The port used by the secondary Swivel server, usually 1812
  Secret Key: A shared secret entered on the Swivel servers.

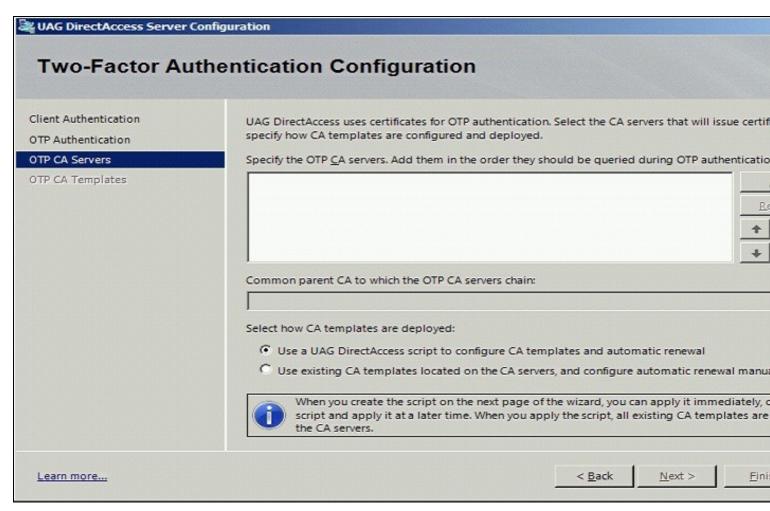
Server type:	RADIUS	
Server name:	RADIUS	
IP address/host:	192.168.1.100	
Port:	1812	
Alternate IP/host:	192.168.1.101	
Alternate port:	1813	
Secret key:	•••••	
		OK Cancel

Ensure that the new Swivel server is selected. Optionally select *Require OTP user names to match Active Directory user names with this setting enabled, users log on in UPN format (username@domain).* then the user name will be automatically populated at the direct access login.

Client Authentication	DirectAccess client authentication is configured to use OTP. Select the OTP authentication serve
OTP Authentication OTP CA Servers	OTP authentication server:
OTP CA Templates	RADIUS Add

### **CA Server Configuration**

Under OTP CA Servers click on Add and select the OTP CA Server.



This example is configured to use existing CA templates.

💐 UAG DirectAccess Server (	Configuration
Two-Factor Authentication Configuration	
Client Authentication OTP Authentication	UAG DirectAccess uses certificates for OTP authentication. Select the CA servers that will issue certifi specify how CA templates are configured and deployed.
OTP CA Servers	Specify the OTP CA servers. Add them in the order they should be queried during OTP authenticatio
OTP CA Templates	SVVCERT
	SVVCERT
	Select how CA templates are deployed: • Use a UAG DirectAccess script to configure CA templates and automatic renewal • Use existing CA templates located on the CA servers, and configure automatic renewal manual If you use existing CA templates, configure them manually on the CA servers, and select the page of the wizard.
Learn more	< <u>B</u> ack <u>N</u> ext > <u>F</u> inis

Select the required templates



Validate the CA templates

💐 UAG DirectAccess Server (	Configuration
Two-Factor Au	thentication Configuration
Client Authentication OTP Authentication OTP CA Servers	Select the CA template used for issuing certificates for OTP client authentication and identifying the UAG DirectAccess server to OTP clients. Specify a certificate renewal policy. OTP certificate template for client authentication:
OTP CA Templates	OTPUser
	OTP certificate template for workstation authentication:
	OTPWorkstation
	Enable certificate renewal. Maximum renewal period (days): 7
	When you select this option, you have to configure the selected templates on the CA sen OTP authentication. They will not be configured automatically by UAG DirectAccess.
	Click to verify that the CA servers can be used for OTP authentication: Valida
	Validation successful. CA servers are configured correctly.
<u>Learn more</u>	< <u>B</u> ack <u>N</u> ext > <u>Finit</u>

## **Additional Installation Options**

## Verifying the Installation

Access with the Direct Access client entering username, AD password and One Time Code. If the option to Require OTP user names to match Active Directory user names then the user name will be automatically populated.

Check the UAG and PINsafe logs for authentication messages.

**Uninstalling the PINsafe Integration** Troubleshooting **Known Issues and Limitations Additional Information** 

Microsoft DirectAccess