

MyID MFA and PSM

Version 5.3.2

MyID Authentication Server Developers Guide

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Conventions used in this document

- · Lists:
 - Numbered lists are used to show the steps involved in completing a task when the order is important.
 - Bulleted lists are used when the order is unimportant or to show alternatives.
- Bold is used for menu items and for labels.

For example:

- · Record a valid email address in 'From' email address.
- · Select Save from the File menu.
- Italic is used for emphasis:

For example:

- Copy the file before starting the installation.
- Do not remove the files before you have backed them up.
- Bold and italic hyperlinks are used to identify the titles of other documents.

For example: "See the Release Notes for further information."

Unless otherwise explicitly stated, all referenced documentation is available on the product installation media.

- A fixed width font is used where the identification of spaces is important, including
 filenames, example SQL queries and any entries made directly into configuration files or
 the database.
- Notes are used to provide further information, including any prerequisites or configuration additional to the standard specifications.

For example:

Note: This issue only occurs if updating from a previous version.

 Warnings are used to indicate where failure to follow a particular instruction may result in either loss of data or the need to manually configure elements of the system.

For example:

Warning: You must take a backup of your database before making any changes to it.





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1 Introduction

Note: MyID MFA and MyID PSM were previously known as Authlogics products. Authlogics is now an Intercede Group company and the products have been rebranded accordingly. The term 'Authlogics' may still appear in certain areas of the product.

MyID Authentication Server is a multi-factor authentication system which provides:

- · Token and tokenless, device and deviceless, Multi-Factor Authentication.
- · Mobile Push Authentication.
- NIST 800-63B compliant Password Security Management solution.
- Self-service password reset and unlocking.
- · Web Service API and RADIUS interfaces for connectivity.
- · Multiple Authentication technologies.

MyID Authentication Server has been designed to work with the following directory services:

• Microsoft Active Directory (no schema extensions required).

1.1 Guidance

This developers guide provides detailed information about how to use the MyID Authentication Server Web Services Application Programming Interface (WSAPI). You are recommended to use this guide in conjunction with the *MyID Authentication Server Installation and Configuration Guide*, which is designed to be an infrastructure document.





2 Web services communication

MyID Authentication Server supports authentication with a Web API using the following protocols:

- HTTPS GET
- HTTP POST

By default, the Web Services run on TCP:14443 for SSL (with encryption). You *must* install an SSL certificate onto the server and bind it to the IIS web site.

Both IPv4 and IPv6 are supported for communication with Web Services.

You can use the web API for managing and automating all server functions. A list of available methods is available in section 3.3, WSAPI function details, and also through:

https://<ServerName>:14443/Services/swagger

Where <serverName> is your server address.

This section contains details on communicating with the web service for the following purposes:

- Processing an authentication request and verifying a transaction.
 - See section 2.1, Authentication and transaction verification.
- Generating a Grid challenge.
 - section 2.2, Challenge Grid generation
- · Generating a Phrase challenge.
 - See section 2.3, Phrase Challenge generation.
- · Generating a One Time Code challenge.
 - See section 2.4, One Time Code Challenge triggering.
- Authenticating with an Identity Provider.
 - See section 2.5, Identity Provider.





2.1 Authentication and transaction verification

You can use the following web service operations to process an authentication request and verify a transaction:

- AuthenticateUser
- VerifyTransaction

2.1.1 AuthenticateUser

To process an authentication request through the API, supply the accountName and passcode to the AuthenticateUser function, and it returns a status code; see section 2.1.3, Return codes.

Example of an HTTPS GET authentication validation request using PowerShell:

```
$uri = 'https://<ServerName>/Services/api/AuthenticateUser'
$body = 'accountName=$AccountName&passcode=$Passcode'
$contentType = 'application/x-www-form-urlencoded'
$headers = @{Accept = 'application/json'}
$response = Invoke-WebRequest -Uri $uri -Method Post -ContentType $contentType -Body $body
$response.Content
```

Which returns the following:

<int>2</int>

indicating an invalid login.

Alternatively, you can request a JSON response:

```
$uri = 'https://<ServerName>/Services/api/AuthenticateUser'
$body = 'accountName=$AccountName&passcode=$Passcode'
$contentType = 'application/x-www-form-urlencoded'
$headers = @{Accept = 'application/json'}
$response = Invoke-WebRequest -Uri $uri -Method Post -ContentType $contentType -Body $body -Headers $headers
$response.Content
```

Which returns the following:

2

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2.1.2 VerifyTransaction

To verify a transaction through the API, supply the accountname, passcode and transaction-specific data to the <code>VerifyTransactionfunction</code> function, and it returns a status code; see section 2.1.3, Return codes.

Example of an HTTPS GET transaction verification request user PowerShell:

```
$uri = 'https://<ServerName>/Services/api/VerifyTransaction'
$body = 'accountName=$AccountName&passcode=$Passcode&transactionData=1234567890'
$contentType = 'application/x-www-form-urlencoded'
$headers = @{Accept = 'application/json'}
$response = Invoke-WebRequest -Uri $uri -Method Post -ContentType $contentType -Body $body
$response.Content
```

Which returns the following:

<int>2</int>

indicating an invalid transaction verification.

2.1.3 Return codes

Code	Message	Description
0	Access Granted.	Credentials are valid.
1	Access Denied.	Account name not found.
2	Access Denied.	Invalid passcode.
5	Access Denied.	Account expired.
7	Access Denied.	Account disabled, locked out, or not valid at this time.
8	Access Denied.	Authentication not available due to a licensing issue.
13	Access Granted.	A pattern change is required.
111	Access Denied.	Directory related error.





2.2 Challenge Grid generation

To integrate a Grid Deviceless challenge into a web page or application, call the <code>GetToken</code> endpoint with an HTTPS GET request, specifying the <code>type=pingrid</code>. The <code>GetToken</code> endpoint accepts the following parameters, all of which are optional, and you can combine as required:

- accountname
- type
- resolution
- format
- · background

You can specify the theme of the generated image using the Global Settings in MMC.

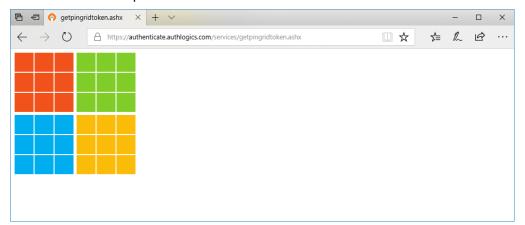
2.2.1 accountname

The accountname parameter generates a challenge specific for that user.

To generate a blank challenge grid, call the GetToken endpoint without the accountname parameter, or a blank accountname value. For example:

https://<ServerName>:14443/services/api/gettoken

The web service returns an image as follows, which is appropriate to show when the accountname is not specified:







If you specify a value for the accountname parameter, numbers are placed on the Grid, or Phrase challenge text is produced. Even if a user account does not match the name provided, a challenge is still generated to prevent the disclosure of an actual user account. For example:

https://<ServerName>:14443/services/api/gettoken?accountname=bogususer



2.2.2 format

The format parameter determines the graphical image type of the challenge grid, and accepts the following options:

- PNG (the default format when this parameter is not specified)
- BMP
- JPG
- GIF
- TXT (this returns the values for a grid in plain text and does not return a graphic image)

The image is always a square 1:1 ratio.

For example:

https://<ServerName>:14443/services/api/gettoken?accountname=bobm&format=TXT

2.2.3 resolution

The resolution parameter sets the resolution of the generated Grid image. This should match the size of the HTML image object where the image is being displayed to prevent browser rescaling, which may result in a fuzzy or blurred image. If you do not specify the resolution parameter, the resolution set in the MMC is used.

For example:

https://<ServerName>:14443/services/api/gettoken?accountname=bobm&resolution=500

Note: If you specify a resolution greater than 2500, a resolution of 2500 is used. If you specify a resolution less than 50, the Global Settings resolution is used.





2.2.4 background

The optional background parameter sets the background color to use when a non-transparent image type is used (that is, BMP and JPG). If you do not set the background parameter, the resolution set in the MMC is used.

For example:

 $\verb|https://<ServerName>: 14443/services/api/gettoken?accountname=bobm&background=black|$

The background parameter accepts the following values:

- Black
- White
- Transparent





2.3 Phrase Challenge generation

To integrate a Phrase Deviceless challenge question into a web page or application, call the GetToken endpoint with an HTTPS GET request and specify the type=pinphrase. The MyID Authentication Server returns a challenge string.

The GetToken endpoint requires only the type and accountname parameters for Phrase.

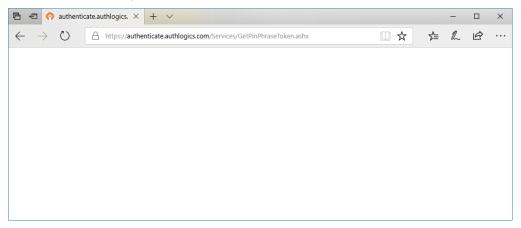
2.3.1 accountname

The accountname parameter generates a challenge specific for that user.

To generate a blank PINphrase challenge, call the GetToken endpoint without the accountname parameter, or with a blank accountname value; for example:

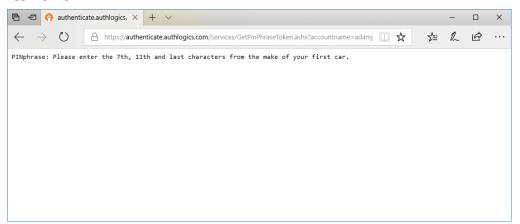
https://<ServerName>:14443/services/api/gettoken

The web service returns a blank string as follows, which is appropriate to show when the accountname is not specified.



When you specify a value for the username parameter, a challenge string is returned. Even if a user account does not match the name provided, a challenge string is still generated to prevent the disclosure of an actual user account. For example:

https://<ServerName>:14443/services/api/gettoken?accountname=bobm&type=pinphrase







2.4 One Time Code Challenge triggering

While One Time Code cannot generate a Deviceless challenge, the web service call triggers the sending of a server-generated token that is appropriate for the user.

The GetToken endpoint requires only the type and accountname parameters for PINpass.

For example:

https://<ServerName>:14443/services/api/gettoken?accountname=bobm&type=PINpass



2.5 Identity Provider

The Identity Provider (IdP) carries out all authentication in the MyID Authentication Server. Without additional configuration, it supports Windows Authentication (Kerberos or NTLM) and Mutual TLS.

In addition, you can use the MyID Management Console to configure it to use Client Credentials.

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3 Web Services API

In addition to the MyID Management Console, the MyID Authentication Server includes a flexible Web Services Application Programming Interface (WSAPI) which allows you to carry out user account and server configuration management from remote systems. The WSAPI allows for integration with your workflow, change management processes, and automatic provisioning systems without manual intervention using the MyID Management Console.

Note: Some API functions make use of enum-based properties. These property values are case sensitive, and fail if you use the wrong case.

This section contains:

- · How to authenticate to the WSAPI.
 - See section 3.1, Authentication to the WSAPI.
- · A list of the WSAPI functions.
 - See section 3.2, WSAPI function list.
- · Details of the WSAPI functions.
 - See section 3.3, WSAPI function details.
- · The data types.
 - See section 3.4, Data types.
- · An example of how to create a user programmatically using the WSAPI.
 - See section 3.5, Example: programmatically creating a user account.
- · Using the WSAPI with Visual Studio.
 - See section 3.6, Using the Web Services API with Visual Studio.
- Changes to the WSAPI in version 5.0 from 4.2.1.
 - See section 3.7, Web Service call changes in version 5.0 from 4.2.1.





3.1 Authentication to the WSAPI

The WSAPI interface requires an authentication token from the IdP for certain function calls and to access certain property values. You can perform some operations without authentication, whereas others require authentication with an Administrator, an Operator, or the actual user.

You must install an SSL certificate on the web server, and make all IdP and WSAPI connections using HTTPS to secure the logon credentials to the web server.

You cannot authenticate with Windows or Basic authentication. For server-to-server authentication, you are recommended to create a client credential. For more information on creating a client credential, see the *Creating a client credential application* section in the *MyID Authentication Server Installation and Configuration Guide*.

In addition to the credentials, you must provide a scope when you authenticate. The supported scopes are:

- rest api Provides access to all the API methods.
- rest_api_external Provides access to a restricted set of API methods.





3.2 WSAPI function list

The following is a list of all available WSAPI functions:

Method	Internal use only	Available without authentication	Available with external
AddFidoCredential			scope ✓
AddUserPasswordHash	√		•
AuthenticateRadius	√	√	V
AuthenticateUser		√	√
AuthenticateUserAdPasswordless	1	√	√
AuthenticateUserOidc	√		√
ChangeADpassword		√	/
CheckPasswordAgainstPolicy		√	√
CreateRealm			
CreateUser			
CreateUserExternal			
CreateUserPasswordReset	√	√	√
DeleteRealm			
DeleteUser			
DisableEmergencyOverride			
DisablePinGrid			
DisablePinPass			
DisablePinPhrase			
DisablePush			
DomainExists			
EnableEmergencyOverride			
EnableFidoCredential			✓
EnablePinGrid			
EnablePinPass			
EnablePinPhrase			
EnablePush			
GenerateNewUserSeed			
GetAuthlogicsUsers			
GetDomains			
GetFullProvisionedUsers			
GetGlobalSettings	✓	✓	✓
GetMinimumClientVersion		✓	✓





Method	Internal use only	Available without authentication	Available with external scope
GetOathUrl			✓
GetPairKeyParameters	✓		✓
GetPasswordPolicySettings	✓	✓	✓
GetRealms			
GetRealmsAt			
GetRealmsInfo			
GetSecurityKey		✓	✓
GetServerVersion		✓	✓
GetSettingsProperty			
GetUser	✓	✓	✓
GetUserProperty		1	✓
IsRealmEmpty			
PairDevice	√		✓
PasswordHashExists			
PinGridChangeMIP			√
PinGridGenerateMIP			
PinGridProvision			
PinPassChangePin			✓
PinPassGeneratePIN			
PinPassProvision			
PinPhraseAddQuestion			
PinPhraseEditQuestion			
PinPhraseGenerateCodeword			
PinPhraseProvision			
PinPhraseRemoveQuestion			
RealmExists			
RemoveFidoCredential			✓
RenameRealm			
RenameUser			
ResetADpassword	✓	✓	✓
SendHTMLPinGridLetter			
SendHTMLPinPassLetter			

¹ Authentication is performed on an individual property basis.





Method	Internal use only	Available without authentication	Available with external scope
SendHTMLPinPhraseLetter			
SendHTMLPushLetter			
SendPresendToken			
SendRealTimeToken		✓	✓
SendRealTimeTokenbyProduct		✓	✓
SendToken			
SetADpassword			
SetOnlineVaultAdPassword	✓		✓
SetSettingsProperty			
SetUserProperty			✓
StartPushAuthentication	✓	✓	✓
SyncDevice			✓
TokenHardwareAdd			✓
TokenHardwareEnabled			✓
TokenHardwareRemove			✓
UpdateFidoCredential			✓
UpdateLicenceFile			
UpdateLicenceKey			
ValidateAdPassword			
VerifyEmergencyAccess		✓	√
VerifyTransaction		✓	√
YubiKeyOtpChangePin		✓	√
YubiKeyOtpProvision			





3.3 WSAPI function details

This section contains a reference to the WSAPI functions.

3.3.1 Function: AddFidoCredential

The AddFidoCredential function adds a Fido credential to the user account.

Parameter	Туре	Value Sample	Description
accountName	string	AndyP domain\andyp	A user account name which is resolvable in the directory.
credential	FidoCredential	See section 3.4, Data types.	A representation of a FidoCredential.

3.3.2 Function: AuthenticateUser

The AuthenticateUser function processes a logon request for a user account.

Parameter	Type	Value Sample	Description
accountName	string	_	A user account name which is resolvable in the directory.
passcode	string	123456	A passcode to authenticate the account.

The function returns an integer code indicating the result of the authenticate request:

0	Access Granted.	Credentials are valid.
1	Access Denied.	Account name not found.
2	Access Denied.	Invalid passcode.
5	Access Denied.	Account expired.
7	Access Denied.	Account disabled, locked out, or not valid at this time.
8	Access Denied.	Authentication not available due to a licensing issue.
13	Access Granted.	A pattern change is required.
111	Access Denied.	Directory related error.

3.3.3 Function: ChangeADpassword

The ChangeADpassword function changes the Active Directory Domain account password for a user account. You can call this function anonymously, although you must supply the existing password.

This function results in a password change event on the Active Directory and not a password reset event.

Parameter	Type	Value Sample	Description
accountName	string	AndyP domain\andyp	A user account name which is resolvable in the directory.
oldADpassword	string	Pa55w0rd	The old Active Directory password for the user account specified in accountName.
newADpassword	string	P@ssWord	The new Active Directory password to be written to the Windows Domain.





3.3.4 Function: CheckPasswordAgainstPolicy

The <code>CheckPasswordAgainstPolicy</code> function checks a supplied password against the configured Password Policy on the MyID Server; it does *not* attempt to set the supplied password.

To configure the policy, apply a Group Policy containing the Password Policy Agent template to the authentication server computer account. This is typically the same policy that is applied to the Domain Controllers.

Parameter	Туре	Value Sample	Description
accountName	string	AndyP	A user account name in the directory.
dnsDomain	string	DomainName	The user's domain DNS name.
plainTextpassword	string	Pa55w0rd	A sample password to test in clear text.
mode	PasswordCheckMode {Enum}	See table below.	The mode to check the password against.

Accepted password check modes:

0	None	
1	Local	Check password against local checks.
2	Shared	Check if the password is a shared password with other accounts internally
3	Remote	Check if the password is a breached password from breach lists

3.3.5 Function: CreateRealm

The CreateRealm function creates a Realm for containing MyID External user accounts.

Parameter	Туре	Value Sample	Description
realm	string	Realm01 ParentRealm01, ChildRealm01	A Realm hierarchy. This can be a single name or comma separated list of parents and children; it creates the entire hierarchy. The names should contain only alphanumeric, dot, and
			alphanumeric, dot, and underscore characters.

3.3.6 Function: CreateUser

The CreateUser function creates an Enabled MyID user account using default values. It does not configure the account for any authentication types.

Parameter	Type	Value Sample	Description
accountName	string	AndyP	A user account Domain\Realm and account
		domain\andyp	name to store in the directory.





3.3.7 Function: CreateUserExternal

The CreateUserExternal function creates an External MyID user account using default values and allows you to update common properties during the creation.

Parameter	Туре	Value Sample	Description
realm	string	Realm01	The Realm in which to create the External user account.
accountName	string	AndyP	The user account name to store in the directory.
upn	string	AndyP@Realm01	A UPN logon name for the user account.
firstName	string	Andy	User First name.
lastName	string	Pearson	User Last name.
mailAddress	string	andyp@sample.com	A valid email address for the user.
mobilePhone	string	0123 456 789	A mobile phone number for the user.
enableFido	boolean	TRUE	Enable FIDO authentication for the user.
enablePush	boolean	TRUE	Enable Push authentication for the user.
requireBiometricSeedInApp	boolean	TRUE	Require the user to provide a biometric seed in the mobile app.
enableOtc	boolean	TRUE	Enable OTC authentication for the user.
pin	string	123456789	The OTC PIN.
userMustChangePinAtNextLogon	boolean	TRUE	Require the user to change their OTC PIN at the next logon.
entraId	string	e17fa4f0-c066- 46d8-b040- 75a37af8e2d1	The EntraID for the user account.





3.3.8 Function: DeleteRealm

The DeleteRealm function deletes a MyID Realm. The Realm must be empty before it can be deleted.

Parameter	Type	Value Sample	Description
realm	string	Realm01	A Realm hierarchy. This can be a
		ParentRealm01, ChildRealm01	single name, or a comma
		·	separated list of parents and
			children; it attempts to delete the
			last child, but fails if the realm is
			not empty.

3.3.9 Function: DeleteUser

The <code>DeleteUser</code> function deletes a MyID user account from the directory, including all its settings and attributes. When using Active Directory, it does *not* delete the actual Active Directory user account; only the MyID metadata is removed off of the account.

Parameter	Туре	Value Sample	Description
accountName	string	AndyP	A user account name that is resolvable in the
		domain\andyp	directory.

3.3.10 Function: DisableEmergencyOverride

The DisableEmergencyOverride function disables the Emergency Override setting on a user account. If Emergency Override is not enabled on the account, this function has no effect.

Parameter	Type	Value Sample	Description
accountName	string	AndyP	A user account name that is resolvable in the
		domain\andyp	directory.

3.3.11 Function: DisablePinGrid

The DisablePinGrid function disables the use of a Grid pattern on a user account. If Grid is not enabled on the account, this function has no effect.

Parameter	Type	Value Sample	Description
accountName	string	AndyP	A user account name that is resolvable in the
		domain\andyp	directory.

3.3.12 Function: DisablePinPass

The DisablePinPass function disables the use of PINpass on a user account. If PINpass is not enabled on the account, this function has no effect.

Parameter	Type	Value Sample	Description
accountName	string	AndyP	A user account name that is resolvable in the
		domain\andyp	directory.





3.3.13 Function: DisablePinPhrase

The DisablePinPhrase function disables the use of PINphrase on a user account. If PINphrase is not enabled on the account, this function has no effect.

Parameter	Туре	Value Sample	Description
accountName	string	AndyP	A user account name that is resolvable in the
		domain\andyp	directory.

3.3.14 Function: DisablePush

The DisablePush function disables the use of Push on a user account. If Push is not enabled on the account, this function has no effect.

Parameter	Type	Value Sample	Description
accountName	string	AndyP	A user account name that is resolvable in the
		domain\andyp	directory.

3.3.15 Function: DomainExists

The DomainExists function checks if the specified Active Directory domain exists in the directory.

The function returns a True or False Boolean value.

Parameter	Type	Value Sample	Description
domain	string	mydomain.com	An Active Directory domain or external realm
			name that may or may not exist.

3.3.16 Function: EnableEmergencyOverride

The <code>EnableEmergencyOverride</code> function enables the Emergency Override functionality on a user account. If <code>UseADpassword</code> is set to <code>True</code>, the <code>EmergencyOverrideCode</code> value is ignored.

Parameter	Туре	Value Sample	Description
accountName	string	AndyP domain\andyp	A user account name that is resolvable in the directory.
EmergencyOverride ExpiryMethod	Enum	nLogins	The method used to expire the use of Emergency Override. This can be a combination of number of logins (nLogins), a period of time (TimePeriod) or both (nLoginsorTimePeriod).
UseADpassword	Boolean	False	Set the account to use the Active Directory password instead of a set code/password.
			Note: This feature is available only in Active Directory environments.
EmergencyOverride Code	string	5ecr3t	The code/password to be used for Emergency Override.





3.3.17 Function: EnableFidoCredential

The EnableFidoCredential function enables or disables a Fido credential for a user account.

Parameter	Type	Value Sample	Description
accountName	string	-	A user account name that is resolvable in the directory.
credentialId	string	INbV8ZJKjb6oa	The credentialId of the Fido token.

3.3.18 Function: EnablePinGrid

The EnablePinGrid function enables the use of a Grid pattern on a user account. If Grid is enabled on the account, this function has no effect.

Parameter	Туре	Value Sample	Description
accountName	string	AndyP	A user account name that is resolvable in the
		domain\andyp	directory.

3.3.19 Function: EnablePinPass

The <code>EnablePinPass</code> function enables the use of PINpass on a user account. If PINpass is enabled on the account, this function has no effect.

Parameter	Type	Value Sample	Description
accountName	string	AndyP	A user account name that is resolvable in the
		domain\andyp	directory.

3.3.20 Function: EnablePinPhrase

The EnablePinPhrase function enables the use of PINphrase on a user account. If PINphrase is enabled on the account, this function has no effect.

Parameter	Туре	Value Sample	Description
accountName	string	AndyP	A user account name that is resolvable in the
		domain\andyp	directory.

3.3.21 Function: EnablePush

The EnablePush function enables the use of Push on a user account. If Push is enabled on the account, this function has no effect.

Parameter	Туре	Value Sample	Description
accountName	string	AndyP	A user account name that is resolvable in the
		domain\andyp	directory.

3.3.22 Function: GenerateNewUserSeed

The GenerateNewUserSeed function generates a new 256-bit seed on a user account. If a seed already exists, it is replaced with the new one.

Parameter	Туре	Value Sample	Description
accountName	string	AndyP	A user account name that is resolvable in the
		domain\andyp	directory.





3.3.23 Function: GetAuthlogicsUsers

The GetAuthlogicsUsers function returns a list of MyID provisioned users for the specified realm.

Parameter	Type	Value Sample	Description
realm	string	mydomain.com	An Active Directory domain or external realm
			name that may or may not exist.

3.3.24 Function: GetPasswordPolicySettings

The <code>GetPasswordPolicySettings</code> function returns a comma separated return of all Password Policies followed by the delimiter of a colon: and the setting value; that is, <code>True</code> or <code>False</code> or the numeric value for the control.

Parameter	Туре	Value Sample	Description
n/a			

For example:

AllowUsername: False, DisableSharedPasswordProtection: False, DisableCloudPass wordBlacklist: False, DisableLocalPasswordBlacklist: False, DisableWMonthAndDa y: False, DisableWspaces: False, MaxAllowedUsernameCharacters: 0, MaxLength: 127, MaxRepeatingChars: 8, MaxSequentialChars: 3, MaxSequentialKeyBoardChars: 0, EnablePasswordPolicy: True, MinLength: 8, MinLowerCaseChars: 0, MinNumericChars: 0, MinSpecialChars: 0, MinUnicodeChars: 0, MinUpperCaseChars: 0

3.3.25 Function: GetDomains

The <code>GetDomains</code> function retrieves a string array of Active Directory domains that exist in the directory. This is a read-only function.

Parameter	Туре	Value Sample	Description
n/a			





3.3.26 Function: GetFullProvisionedUsers

The <code>GetFullProvisionedUsers</code> function retrieves all users in a specified realm that have been fully provisioned; that is, they do not require knowledge factors to be changed for a specified MFA technology.

Parameter	Туре	Value Sample	Description
realm	string	Realm01	The realm to query for users.
apl	Int32	256	The enum for the provisioned MFA technology.
format	string	UPN	Specify the format of the user account.

APL Technology enumeration:

0	None
1	PinGrid
2	PinPhrase
4	PinPass
8	YubiKey OTP
16	Push
32	FIDO
256	All

Format response options:

Domain	NETBIOS user name: domain\username
UPN	User's UPN: username@domain
Email	User's email address.

3.3.27 Function: GetOathUrl

The GetOathUrl function retrieves an OathAuthenticator URL for a user account.

Parameter	Туре	Value Sample	Description
accountName	string	AndyP	A user account name which is resolvable in the
		domain\andyp	directory.

3.3.28 Function: GetRealms

The GetRealms function retrieves a string array of Realms that exist in the directory. A GET call or POST with an empty search returns all realms.

Parameter	Туре	Value Sample	Description
search	string	Realm01	An optional search string.

3.3.29 Function: GetRealmsAt

The GetRealmsAt function retrieves a string array of sub realms without nesting; a GET call or POST with an empty search returns all root level realms.

Parameter	Type	Value Sample	Description
baseRealm	string	Realm01	The base realm to retrieve.





3.3.30 Function: GetRealmsInfo

The GetRealmsInfo function retrieves a string array of realms. A GET call or POST with an empty search returns all root level realms and their information.

Parameter	Туре	Value Sample	Description
baseRealm	string	Realm01	The base realm to retrieve.
daysSinceCreation	Int32		Return only the realms that have been created more than the specified number of days ago.

3.3.31 Function: GetSecurityKey

The GetSecurityKey function retrieves a security key identified by a particular GUID.

Parameter	Туре	Value Sample	Description
aaguid	string	894cedf4-a9e3	The GUID of the security key to retrieve.

3.3.32 Function: GetServerVersion

The GetServerVersion function retrieves a string displaying the installed MyID version. This is a read-only function.

Parameter	Туре	Value Sample	Description
n/a			

3.3.33 Function: GetMinimumClientVersion

The GetMinimumClientVersion function retrieves a string displaying the minimum client version required to use this version of the Authentication Server. This is a read-only function.

Parameter	Туре	Value Sample	Description
n/a			

3.3.34 Function: GetSettingsProperty

The <code>GetSettingsProperty</code> function retrieves the values of various global settings properties. This is a read-only function; to set the value of a property, use the <code>SetSettingsProperty</code> function.

You can query multiple values at once by specifying all the required properties in a CSV string.

Parameter	Туре	Value Sample	Description
names	string	SMTPServer1,	The property names to access.
		SMTPPort1	Note: Leaving this value blank returns a list of supported property values.

Valid values for the names parameter which do not require authentication (Anonymous):

SchemaVersion, ToleranceLevel, TolerancePeriod, LockoutDuration,
LockoutThreshold, LockoutReset, SspAllowResetAdPassword,
SspUnlockMasterAccountOnPasswordReset, SspAllowUpdateMobilePhoneNumber,
SspAllowTokenDeviceChange, SspUrl, SspPasswordReset, AppLogoUrl,
AppLogoDescription, AppUseBiometrics, AppOtpCopyPaste,





AppTransactionValidation, AuthlogicsServerCertificate, AuthlogicsIdpSigningCertificate, AuthlogicsServerTrustedRootCertificate, ADUsernameCustomAttribute, RandomiseAdPasswordPeriod, RandomiseAdPasswordEnforced, GUIDAdministrators, GUIDOperators, GUIDAdministrators, GUIDServers, GUIDRadius, GUIDADPassthrough, SMTPServer1, SMTPServer2, SMTPPort1, SMTPPort2, SMTPFromAddress, SMTPEnableSSL, SMTPUseWindowsCredentials, SMSEnabled, SMSSendLimit, SMSDefaultCountryCode, RealTimeTokenLifespan, AllowEmergencyOverride, AllowTemporaryAccessCode, MaxOverrideTime, MaxOverrideUses, PasswordVaultEnabled, RequirePrivateMobile, EmailDomains, AccountBreachedAction, AccountSharedAction, AccountMfaDormantAction, AccountAdDormantAction, AlertAdDormant, AlertAdPasswordExpires, AlertAdPasswordExpiresDays, AlertBreachPassword, AlertDormantAdDays, AlertDormantMfaDays, AlertLicenceEvents, AlertMfaAccountLockedOut, AlertMfaDeviceChangeOnAccount, AlertMfaDormant, AlertSharedPassword, PsmScheduleStart, PsmScheduleRepeatCycle, PsmScheduleRecur, PinGridMatrixMinNumberOfSquares, PinGridMatrixTheme, PinGridMIPHistory, PinGridMIPMaxAge, PinGridMIPMinLength, PinGridMIPMinAge, PinGridMIPComplexity, PinGridMIPMaxAdjacencies, PinGridMIPMaxCellRepeats, PinGridHASHLevel, PinGridMessagePrefix, PinGridMIPMinNumberOfQuadrants, PinGridMatrixFontSize, PinGridMatrixColourQ1, PinGridMatrixColourQ2, PinGridMatrixColourQ3, PinGridMatrixColourQ4, PinGridMatrixBitmapSizeDPI, PinGridMatrixHTMLEmail, PinPhraseMinNumberOfQuestions, PinPhraseMinAnswerLength, PinPhraseQuestions, PinPhraseMessagePrefix, PinPhraseUseMultipleQuestionsPerLogin, PinPassMessagePrefix, PinPassMinLength, PinPassPINMinLength, PinPassPINPosition, PinPassPINEnforced, RADIUSFilterEnabled, ADPassthroughEnabled, YubiKeyOtpPinMinLength, YubiKeyOtpPinEnforced, YubiKeyOtpEnabled, YubiKeyOtpOnlineEnabled.

Valid values for the names parameter which require Admin rights:

SMTPUsername, DirectoryID

3.3.35 Function: GetUserProperty

The <code>GetUserProperty</code> function returns the properties for a user. This is a read-only function; to set the value of a property, use the <code>SetUserProperty</code> function.

You can query multiple values at once by specifying all the required properties in a commaseparated string.

Parameter	Type	Value Sample	Description
accountName	string	AndyP	A user account name which is resolvable
		domain\andyp	in the directory.
Names	string	FirstName,LastName	The property names to access.
			Note: Leaving this value blank returns a
			list of supported property values.





Valid values for the Names parameter that do not require authentication (Anonymous):

AccountGuid, PushThrottled, HasPushDevices, AccountName, UPN, DirectPath, Devices, FirstName, LastName, Realm, Exists, ExistsAD, PsmOnly, ExternalUser, Enabled, APL, AccountExpiresAD, ValidFrom, ValidTo, PasswordExistsInVault, Description, RequireBiometrics, PinGridEnabled, PinGridProvisioned, PinGridMIPMustChange, PinGridMIPNeverExpires, PinGridRequire2FA, PinGridEnable2FA, PinGridDelivery, PinGridQueueType, PinPhraseEnabled, PinPhraseProvisioned, PinPhraseAnswersMustChange, PinPhraseRequire2FA, PinPhraseEnable2FA, PinPhraseDelivery, PinPhraseQueueType, PinPassEnabled, PinPassProvisioned, PinPassPINMustChange, PinPassDelivery, PinPassQueueType, PinPassTokensPerMessage, PushEnabled, LastLogonAd, LastLogonPinGrid, LastLogonPinPhrase, LastLogonPinPass, LastLogonYubiKeyOtp, YubiKeyOtpEnabled, YubiKeyOtpProvisioned, YubiKeyOtpPinMustChange.

Valid values for the Names parameter that require Admin or Operator rights:

PasswordLengthAD, LockedOut, EmergencyOverrideEnabled,
PinGridMIPCreationDate, PinGridTokenLifespan, PinPhraseCodeLength,
PinPhraseTokenLifespan, PinPassTokenLifespan, PinPassPIN, YubiKeyOtpPin.

Valid values for the Names parameter that require Admin or Operator rights, or can be accessed by the actual user:

UserCannotChangePasswordAD, PasswordNeverExpiresAD, PasswordLastSetAD, PasswordExpiryDateAD, PasswordExpiryZone, MobilePrivate, MobileNumber, MailAddress, LastLogin, BadLogins, PinGridMIPExpiryDate, PinGridMIPdaysSinceLastChanged, PinGridMatrixNumberOfSquares, PinPhraseAnswers, PinPassCodeLength, PinPassPINisADpassword, TokenIDs, YubiKeyOtpPinIsADpassword.

The following table lists all the accepted device types for the TokenIDs property:

0	Unspecified
1	WindowsDesktop
2	WindowsStore
3	WindowsPhone
4	Android
5	AppleiOS
6	AppleMacOS
7	BlackBerry
8	YubiKey
9	OathAuthenticator
10	SecurityKey
11	SyncedPasskey





3.3.36 Function: IsRealmEmpty

The IsRealmEmpty function returns False if the specified realm contains sub realms or users.

Parameter	Туре	Value Sample	Description
realm	string	Realm01	The realm to you want to check.

3.3.37 Function: PasswordHashExists

The PasswordHashExists function checks whether or not a MD4 hash password exists in the MyID Password breach database.

This is a read-only function that returns a True or False Boolean value.

Parameter	Type	Value Sample	Description
md4Hash	string	ABC1543212BCD	The MD 4 hash of a clear text password.
dnsDomain	string	Authlogics.com	The DNS domain name of the calling
			domain.

3.3.38 Function: PinGridChangeMIP

The PinGridChangeMIP function sets a new Grid pattern on the user account.

Important: The pattern is specified in MIP comma-separated notation of grid positions and is stored as a hash; once written, it *cannot* be retrieved in plain text.

Note: Any authenticated user can call this function as long as they are attempting to update their own MIP, otherwise MyID Admin rights are required.

If an Administrator or Operator calls this function, the Pattern Complexity checks are *not* performed. If the user's context initiates this call, the Pattern Complexity checks are enforced, and users are *not* allowed to select non-complex patterns.

Parameter	Type	Value Sample	Description
accountName	string	AndyP	A user account name which is resolvable
		domain\andyp	in the directory.
gridSize	string	6	The X or Y size of the grid to use for the
			new pattern.
			6 or 8 are the only accepted values.
MIP	string	23,29,35,24,30,36	A comma-separated list of numbers
			denoting the positions in a grid for the
			pattern.
currentMIP	string	1,2,3,9,8,7	Provide the current user's pattern or the
		or:	hash of the user's current pattern.
		ABC1243E	





3.3.39 Function: PinGridGenerateMIP

The PinGridGenerateMIP function creates a new random pattern in MIP comma-separated notation. You can generate either a simple or a complex pattern.

The function returns the new MIP as a string and is not written to a user account. You can use the new MIP on a user account within the PinGridChangeMIP, PinGridProvision and SendHTMLPinGridLetter functions.

Parameter	Туре	Value Sample	Description
gridSize	integer	6	The X or Y size of the grid to use for the new pattern. 6 or 8 are the only accepted values.
complexPattern	Boolean		To generate a complex pattern set this value to True. For a simple pattern set it to False.

3.3.40 Function: PinGridProvision

The PinGridProvision function provisions a user account for a user with a Grid pattern. You must do this at least once to allow Grid patterns to be used with the account. The inputs are similar to the PinGridChangeMIP function; however, this function does more than just setting the MIP.

Parameter	Туре	Value Sample	Description
accountName	string	AndyP domain\andyp	A user account name which is resolvable in the directory.
gridSize	integer	6	The X or Y size of the grid to use for the new pattern. 6 or 8 are the only accepted values.
MIP	string	23,29,35,24,30,36	A comma-separated list of numbers denoting the positions in a grid for the pattern.
OverrideRestrictions	Boolean	False	Override the pattern complexity restriction checks when setting the pattern. It is not recommended to override the built-in complexity settings as this could lead to lower security.





3.3.41 Function: PinPassChangePin

The PinPassChangePin function allows you to change the PINpass PIN code.

Parameter	Туре	Value Sample	Description
accountName	string	AndyP domain\andyp	A user account name which is resolvable in the directory.
pin	integer	12345	The new PIN code to be used for PINpass.
currentPin	string	54321	The current PIN code used for PINpass. This is used to authorize the change to the new PIN.

3.3.42 Function: PinPassGeneratePIN

The PinPassGeneratePIN function generates a random PIN which complies to the PINpass policy.

Parameter	Туре	Value Sample	Description
n/a			

3.3.43 Function: PinPassProvision

The PinPassProvision function provisions a user account for a user with PINpass. You must do this at least once to allow PINpass to be used with the account.

Parameter	Туре	Value Sample	Description
accountName	string	AndyP domain\andyp	A user account name which is resolvable in the directory.
PIN	string	7651	A PIN (or password) to be used as the knowledge component for authentication. If no PIN is specified, a random PIN is generated and saved to the account.
PINisADpassword	Boolean	False	Use the Active Directory password instead of a PIN. If this value is set to True then the PIN value, if specified, will not be used.
			Note: This option is only available in an Active Directory Environment.
OTPcodeLength	integer	6	The length of the OTP code which will be sent to the user. As per OATH RFC specifications, accepted values are 6, 7 and 8 only.

3.3.44 Function: PinPhraseAddQuestion

The PinPhraseAddQuestion function adds a new question to the list of questions for which users can provide answers.

Parameter	Туре	Value Sample	Description
question	string	Your favourite	A string containing the actual question to
		color	add.





3.3.45 Function: PinPhraseEditQuestion

The PinPhraseEditQuestion function alters an existing question in the list of questions for which users can provide answers.

Warning: Use this function only for minor changes, as existing answers are still matched to the question. For brand new questions you are recommended to delete the old question and add a new question.

Parameter	Type	Value Sample	Description
oldQuestion	string	Your best colour	A string containing the old actual question.
newQuestion	string	Your favourite colour	A string containing the new actual question.

3.3.46 Function: PinPhraseGenerateCodeword

The PinPhraseGenerateCodeword function returns a random word from the PINphrase dictionary file.

Parameter	Туре	Value Sample	Description
n/a			

3.3.47 Function: PinPhraseProvision

The PinPhraseProvision function provisions a user account for a user with PINphrase. You must do this at least once to allow PINphrase to be used with the account.

Parameter	Туре	Value Sample	Description
accountName	string	AndyP domain\andyp	A user account name which is resolvable in the directory.
codeWord	string	England	A string to be used as the answer to the first question; the default question is "your code word". If no answer is specified, a random word is selected from a dictionary file and saved to the account as the answer to the first question.
OTPcodeLength	integer	3	The number of letters from the answer are requested from the user to create their OTP code. Recommended values are between 3 and 5.





3.3.48 Function: PinPhraseRemoveQuestion

The PinPhraseRemoveQuestion function removes an existing question from the list of questions for which users can provide answers. Any existing answers to the removed question are removed from the user account only when the account is next updated. A bulk answer delete is *not* triggered; however, the answer is ignored during subsequent processing.

Parameter	Type	Value Sample	Description
question	string	Your favourite	A string containing the actual question.
		color	

3.3.49 Function: RealmExists

The RealmExists function checks if the specified Realm exists in the directory.

The function returns a True or False Boolean value.

Parameter	Type	Value Sample	Description
realm	string	realm.com	A Realm hierarchy which may or may
		parentRealm, realm.com	not exist. This can be a single name or
			comma separated list of parents and
			children and will return true only if the
			entire hierarchy exists.

3.3.50 Function: RemoveFidoCredential

The RemoveFidoCredential function removes a Fido credential from the user account.

Parameter	Туре	Value Sample	Description
accountName	string	AndyP domain\andyp	A user account name which is resolvable in the directory.
credential	FidoCredential	See section 3.4, Data types.	A representation of a FidoCredential.

3.3.51 Function: RenameRealm

The RenameRealm function renames an existing Realm in the directory.

Parameter	Туре	Value Sample	Description
oldRealm	string	oldrealm.com	A Realm hierarchy. This can be a single name or comma
		parentRealm,oldrealm.com	separated list of parents and children; it renames the last child.
newRealmName	string	newrealm.com	The new Realm name.





3.3.52 Function: RenameUser

The RenameUser function renames an existing user account in the directory. Renaming a user account is supported only with External Users, and not with Active Directory user accounts.

Parameter	Type	Value Sample	Description
oldAccountName	string	oldname	The existing user account name to be renamed.
newAccountName	string	newname	The new user account name.

3.3.53 Function: SendHTMLPinGridLetter

The <code>SendHTMLPinGridLetter</code> function sends an HTML formatted "PINgrid welcome letter" to the user through email from the MyID server providing details of how to use the account. The email is sent to the email address specified on the user account only.

You must specify the MIP here, as it cannot be retrieved from the user account in plain text. Call this function immediately after calling the PinGridChangeMIP or PinGridProvision functions while the MIP is still in memory as plain text.

Parameter	Туре	Value Sample	Description
accountName	string	AndyP domain\andyp	A user account name that is resolvable in the directory.
templateName	string	PINgridUserTemplate	The name of the HTML template file to be used as a base for the email. You can specify the file name with or without the HTML file extension. The file must be available in the MyID MFA Program Files folder.
MIP	string	23,29,35,24,30,36	A comma separated list of numbers denoting the positions in a grid for the pattern.

3.3.54 Function: SendHTMLPinPassLetter

The <code>SendHTMLPinPassLetter</code> functions sends an HTML formatted "PINpass welcome letter" to the user through email from the MyID server providing details of how to use the account. The email is sent to the email address specified on the user account only.

Parameter	Type	Value Sample	Description
accountName	string	AndyP domain\andyp	A user account name that is resolvable in the directory.
templateName	string	PINpassUserTemplate	The name of the HTML template file to be used as a base for the email. The file name can be specified with or without the HTML file extension. The file must be available in the MyID MFA Program Files folder.





3.3.55 Function: SendHTMLPinPhraseLetter

The <code>SendHTMLPinPhraseLetter</code> function sends an HTML formatted "PINphrase welcome letter" to the user through email from the MyID server providing details of how to use the account. The email is sent to the email address specified on the user account only.

Parameter	Type	Value Sample	Description
accountName	string	AndyP	A user account name which is
		domain\andyp	resolvable in the directory.
templateName	string	PINphraseUserTemplate	The name of the HTML template file
			to be used as a base for the email.
			The file name can be specified with
			or without the HTML file extension.
			The file must be available in the MyID
			MFA Program Files folder.

3.3.56 Function: SendHTMLPushLetter

The <code>SendHTMLPushLetter</code> function sends an HTML formatted "Push MFA welcome letter" to the user through email from the MyID server providing details of how to use the account. The email is sent to the email address specified on the user account only.

Parameter	Туре	Value Sample	Description
accountName	string	AndyP domain\andyp	A user account name which is resolvable in the directory.
templateName	string	PINphraseUserTemplate	The name of the HTML template file to be used as a base for the email. The file name can be specified with or without the HTML file extension. The file must be available in the MyID MFA Program Files folder.

3.3.57 Function: SendRealtimeToken

The <code>SendRealtimeToken</code> function sends a server-generated real-time token to the user based on the configured authentication provider only if they are configured for Real-Time token use. The token may be sent through email or text messaging depending on the user settings.

Parameter	Type	Value Sample	Description
accountName	string	AndyP	A user account name which is resolvable in the
		domain\andyp	directory.





3.3.58 Function: SendRealtimeTokenbyProduct

The <code>SendRealtimeTokenbyProduct</code> function sends a server-generated real-time token to the user only if they are configured for Real-Time token use. The token may be sent through email or text messaging depending on the user settings.

Parameter	Туре	Value Sample	Description
accountName	string	AndyP domain\andyp	A user account name which is resolvable in the directory.
Product	enum	PinGrid	Specify the type of authentication technology to send a token for.

Valid values for the product parameter include:

PinGrid, PinPhrase, PinPass

3.3.59 Function: SendToken

The <code>SendToken</code> function sends a server-generated token to the user based on the configured authentication provider and queue type (Real-Time / Pre-Send). The token may be sent through email or text messaging depending on the user settings.

Ideally, call this function when a user is configured to use a pre-send token and the initial tokens need to be delivered.

Parameter	Туре	Value Sample	Description
accountName	string	AndyP	A user account name which is resolvable in the
		domain\andyp	directory.

3.3.60 Function: SetADpassword

The SetADpassword function updates the Active Directory Domain account password for a user account. The actual user or a MyID Administrator can call this function.

This function results in a password reset event on the Active Directory and not a password change event.

Parameter	Type	Value Sample	Description
accountName	string	AndyP	A user account name which is resolvable in the
		domain\andyp	directory.
ADpassword	string	Pa55w0rd	The new Active Directory password to be
			written to the Windows Domain.





3.3.61 Function: SetSettingsProperty

The SetSettingsProperty function commits the values of various global settings properties. This is a write-only function; to get the value of a property, use the GetSettingsProperty function.

You can set multiple values at the same time by specifying all the required properties and values in the corresponding CSV string.

Parameter	Type	Value Sample	Description
Names	string	SMTPServer1, SMTPPort1	The property names to access. Note: Leaving this value blank returns a list of supported property values.
Values	string	mail.server.com,	The values to write to the properties specified in names.

Valid values for the Names parameter that require Admin rights:

ToleranceLevel, TolerancePeriod, LockoutDuration, LockoutThreshold, LockoutReset, SspAllowResetAdPassword, SspUnlockMasterAccountOnPasswordReset, SspAllowUpdateMobilePhoneNumber, SspAllowTokenDeviceChange, SspUrl, SspDevicelessMfa, SspPasswordReset, SspLogonTechnology, WmpDevicelessMfa, WmpLogonTechnology, AppLogoUrl, AppLogoDescription, AppEnableBiometrics, AppOtpCopyPaste, AppTransactionValidation, AuthlogicsServerCertificate, AuthlogicsIdpSigningCertificate, AuthlogicsServerTrustedRootCertificate, ADUsernameCustomAttribute, RandomiseAdPasswordPeriod, RandomiseAdPasswordEnforced, GUIDAdministrators, GUIDOperators, GUIDAdministrators, GUIDServers, GUIDRadius, GUIDADPassthrough, SMTPServer1, SMTPServer2, SMTPPort1, SMTPPort2, SMTPFromAddress, SMTPEnableSSL, SMTPUseWindowsCredentials, SMTPUsername, SMTPPassword, SMSSendLimit, SMSDefaultCountryCode, RealTimeTokenLifespan, AllowEmergencyOverride, AllowTemporaryAccessCode, MaxOverrideTime, MaxOverrideUses, PasswordVaultEnabled, RequirePrivateMobile, EmailDomains, AccountBreachedAction, AccountSharedAction, AccountMfaDormantAction, AccountAdDormantAction, AlertBreachPassword, AlertDormantAdDays, AlertDormantMfaDays, AlertLicenceEvents, AlertMfaAccountLockedOut, AlertMfaDeviceChangeOnAccount, AlertMfaDormant, AlertSharedPassword, PsmScheduleRepeatCycle, PsmScheduleRecur, PinGridMatrixMinNumberOfSquares, PinGridMatrixTheme, PinGridMIPHistory, PinGridMIPMaxAge, PinGridMIPMinLength, PinGridMIPMinAge, PinGridMIPComplexity, PinGridMIPMaxAdjacencies, PinGridMIPMaxCellRepeats, PinGridHASHLevel, PinGridMessagePrefix, PinGridMatrixFontSize, PinGridMatrixColourQ1, PinGridMatrixColourQ2, PinGridMatrixColourQ3, PinGridMatrixColourQ4, PinGridMatrixBitmapSizeDPI, PinGridMatrixHTMLEmail, PinPhraseMinNumberOfQuestions, PinPhraseMinAnswerLength, PinPhraseMessagePrefix, PinPhraseUseMultipleQuestionsPerLogin,

PinPassMessagePrefix, PinPassMinLength, PinPassPINMinLength,





PinPassPINPosition, PinPassPINEnforced, RADIUSFilterEnabled, ADPassthroughEnabled, YubiKeyOtpPinMinLength, YubiKeyOtpPinEnforced, YubiKeyOtpEnabled, YubiKeyOtpOnlineEnabled.

3.3.62 Function: SetUserProperty

The SetUserProperty function commits the values of various user account properties. This is a write-only function; to get the value of a property, use the GetUserProperty function.

You can set multiple values at the same time by specifying all the required properties and values in the corresponding CSV string.

Parameter	Type	Value Sample	Description
accountName	string	AndyP domain\andyp	A user account name which is resolvable in the directory.
Names	string	FirstName,LastName	The property names to access. Note: Leaving this value blank returns a list of supported property values.
Values	string	John, Smith	The values to write to the properties specified in names.

Valid values for the Names parameter that require Admin or Operator rights:

LockedOut, Enabled, UserCannotChangePasswordAD, PasswordNeverExpiresAD, PasswordLastSetAD, MailAddress, ValidFrom, ValidTo, RequireBiometrics, PinGridMIPMustChange, PinGridMIPNeverExpires, PinGridRequire2FA, PinGridEnable2FA, PinGridTokenLifespan, PinGridDelivery, PinGridQueueType, PinPhraseAnswersMustChange, PinPhraseCodeLength, PinPhraseRequire2FA, PinPhraseEnable2FA, PinPhraseTokenLifespan, PinPhraseDelivery, PinPhraseQueueType, PinPassPINMustChange, PinPassCodeLength, PinPassPINisADpassword, PinPassTokenLifespan, PinPassDelivery, PinPassQueueType, PinPassTokensPerMessage, YubiKeyOtpPinMustChange, YubiKeyOtpPinisADpassword.

Valid values for the Names parameter that require Admin or Operator rights, or can be accessed by the actual user:

MobileNumber, MobilePrivate, PinGridMIP, PinPassPIN, PinPhraseAnswers, YubiKeyOtpPin.

Valid values for the Names parameter which require Admin rights:

FirstName, LastName, Description, UPN.

Valid values for the \mathtt{Names} parameter which require Admin, Operator or Enterprise Domain Controller rights:

PasswordLengthAD.

Note: You can set the value of LockedOut to False to unlock an account; however, you cannot set LockedOut to True manually.





3.3.63 Function: SyncDevice

The SyncDevice function sets a device to the status that requires it to synchronize its settings.

Parameter	Type	Value Sample	Description
accountName	string	AndyP domain\andyp	A user account name which is resolvable in the directory.
deviceID	string	2419216713157481	The device ID of as indicated by the Authenticator App.

3.3.64 Function: TokenHardwareAdd

The TokenHardwareAdd function adds hardware token details to a user account.

Parameter	Туре	Value Sample	Description
accountName	string	AndyP domain\andyp	A user account name which is resolvable in the directory.
Enabled	Boolean	True	Set the enabled status of the new token. Typically set to True for a new device.
tokenType	enum	WindowsPhone	The platform on which the soft token is installed.
tokenID	string	2419216713157481	The hardware / device ID of the hardware token as indicated by the Authenticator App.

Valid values for the tokenType parameter include:

WindowsDesktop, WindowsPhone, Android, AppleiOS, AppleMacOS, BlackBerry, Yubikey.

3.3.65 Function: TokenHardwareEnabled

The TokenHardwareEnabled function allows you to enable or disable individual tokens on a user account.

Parameter	Туре	Value Sample	Description
accountName	string	AndyP domain\andyp	A user account name which is resolvable in the directory.
Enabled	Boolean	True	The new enabled status of the token.
tokenID	string	2419216713157481	The hardware / device ID of the token as indicated by the soft token application.

3.3.66 Function: TokenHardwareRemove

The TokenHardwareRemove function removes individual tokens from a user account.

Parameter	Туре	Value Sample	Description
accountName	"	_	A user account name which is resolvable in the directory.
tokenID	string		The hardware / device ID of the token as indicated by the soft token application.





3.3.67 Function: UpdateFidoCredential

The UpdateFidoCredential function updates a Fido credential for the user account.

Parameter	Туре	Value Sample	Description
accountName	string	_	A user account name which is resolvable in the directory.
credential	FidoCredential	See section 3.4, Data types.	A representation of a FidoCredential

3.3.68 Function: UpdateLicenceFile

The <code>UpdateLicenceFile</code> function updates the license file information on the MyID MFA Server with the XML data provided. The XML must be baes64/URL encoded before submitting to the Web API. Online and offline license files are supported, and online licenses are activated.

Parameter	Туре	Value Sample	Description
base64licenceXml	string		A base64 encoded license file.

3.3.69 Function: UpdateLicenceKey

The UpdateLicenceKey function updates the license key information on the MyID MFA Server with the license key provided. Only online licenses are supported and are activated.

Parameter	Туре	Value Sample	Description
licenceKey	string		A license key.

3.3.70 Function: ValidateAdPassword

The ValidateAdPassword function tests a user's Active Directory password against the supplied user's accountname.

The function returns a True or False Boolean value.

Parameter	Type	Value Sample	Description
accountName	string	AndyP	An Active Directory user account name
		domain\andyp	against which to test the password.
		andyp@sample.com	
password	string	Pa55w0rd	The user's Active Directory password to
			test.

3.3.71 Function: VerifyEmergencyAccess

The VerifyEmergencyAccess function verifies an emergency access pass code is valid.

Parameter	Туре	Value Sample	Description
accountName	string	_	A user account name which is resolvable in the directory.
passcode	string	123456	A passcode to authenticate the account.





3.3.72 Function: VerifyTransaction

 $The \ {\tt VerifyTransaction} \ function \ processes \ a \ three-factor \ logon \ request \ for \ a \ user \ account.$

Parameter	Type	Value Sample	Description
accountName	string	AndyP domain\andyp andyp@sample.com	A user account name which is resolvable in the directory.
passcode	string	123456	A passcode to authenticate the account.
transactionData	string	Abcd1234	Transaction string being used as part of the signing process.

Much like the AuthenticateUser function, this function returns an integer code indicating the result of the VerifyTransaction request.

0	Access Granted.	Credentials are valid.	
1	Access Denied.	Account name not found.	
2	Access Denied.	Invalid passcode.	
5	Access Denied.	Account Expired.	
7	Access Denied.	Account disabled, locked out, or not valid at this time.	
8	Access Denied.	Authentication not available due to a licensing issue.	
13	Access Granted.	A pattern change is required.	
111	Access Denied.	Directory related error.	

3.3.73 Function: YubiKeyOtpChangePin

The YubiKeyOtpChangePin function changes the PIN on a YubiKey.

Parameter	Type	Value Sample	Description
accountName	string	AndyP	A user account name which is resolvable in the
		domain\andyp	directory.
pin	string	7651	A PIN (or password) to be used as the
			knowledge component for authentication.
currentPin	string	5976	The current PIN for the YubiKey





3.3.74 Function: YubiKeyOtpProvision

The YubiKeyOtpProvision function provisions a user account for a user with YubiKey OTP. You must do this at least once to allow YubiKey OTP to be used with the account.

You can provision a user to use the following PIN options:

· A specified PIN.

Set the PIN parameter to the PIN you want to use, and set the pinMode parameter to PINProvided.

A randomly generated PIN.

Do not set a value for the PIN parameter, and set the pinMode parameter to PINProvided.

· The Active Directory password as the PIN.

Set the pinMode parameter to PINIsADpassword.

• No PIN.

Set the pinMode parameter to NoPIN.

Parameter	Туре	Value Sample	Description
accountName	string	AndyP domain\andyp	A user account name which is resolvable in the directory.
PIN	string	7651	A PIN (or password) to be used as the knowledge component for authentication.
PINisADpassword	Boolean	False	Deprecated: use the pinMode parameter with a value of PINIsADpassword instead.
			Use the Active Directory password as the PIN. If you set this value to True, the PIN value, if specified, is not used.
			Note: This option is available only in an Active Directory environment.





Parameter	Туре	Value Sample	Description
pinMode	enum	PINProvided	Specify the PIN to use. You can use the following values:
			PINProvided – use the PIN value supplied. If you do not provide a value in the PIN parameter, a random PIN is generated and saved to the account.
			PINIsADpassword – Use the Active Directory password instead of a PIN.
			Any value you set for the PIN parameter is ignored.
			This is equivalent to setting PINisADpassword = True.
			Note: This option is available only in an Active Directory environment.
			NoPIN – No PIN is used.
			Any value you set for the PIN parameter is ignored.
			If you provide a value for pinMode, any value you supply to the PINisADpassword parameter is ignored.

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3.4 Data types

3.4.1 FidoCredential

```
"aaGuid": "3fa85f64-5717-4562-b3fc-2c963f66afa6",
  "attestationClientDataJson": "string",
  "attestationObject": "string",
  "be": true,
  "bs": true,
  "credentialType": 0,
  "credType": "string",
"descriptor": {
    "id": "string",
    "transports": [
      0
    ],
"type": 0
  },
"devicePublicKeys": [
    "string"
  ],
"enabled": true,
  "encryptedPassword": "string",
  "hmacSalt": "string",
  "id": "string",
"lastUsed": "2024-02-13T10:33:37.599Z",
  "name": "string",
  "publicKey": "string",
"regDate": "2024-02-13T10:33:37.599Z",
  "signCount": 0,
  "transports": [
    0
 ],
"type": 0,
  "userHandle": "string",
  "userId": "string"
}
```

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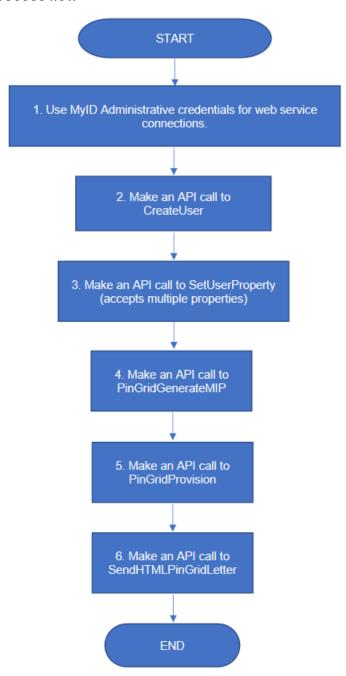
3.5 Example: programmatically creating a user account

The following example uses a user's email address as the basis for creating a new account. It uses the email address suffix as a realm name in which to create the account.

Next, a random Grid pattern (MIP) is generated and used to provision the user for Grid patterns.

Finally, the user is sent a welcome email containing their new pattern.

3.5.1 Process flow







3.5.2 Explanation

Note: All API requests expect their relevant parameters to be passed in the request for them to function correctly – refer to the API reference for this if necessary.

- 1. Retrieve the credentials using the method described before, and then assign them accordingly.
 - If you are using a service reference, you can assign this to this object instance credentials, and it applies for each request. If you are using a standard web request, this is used for each request, setting them with the <code>NetworkCredential</code> object as previously described.
- 2. Make a request to CreateUser to create the user account.
- 3. Set any additional user properties as needed by calling the SetUserProperty function.

 This function accepts a comma-separated list of properties, and a comma-separated list of values, so you can apply many attributes to a user at any one time.
- 4. When calling the PinGridGenerateMIP function, you are recommended to store the result in a variable.
 - You can then use this in the next API call to provision the user. You can make the MIP as complicated as you need it to be, and this depends on your requirements for pattern complexity.
- 5. Call the PinGridProvision function to provision the user for a Grid pattern.

 Use the stored value for the MIP. When adding parameters for the provision API call, the default value for a grid size is 6 that is, a 6x6 grid.
- 6. Call the SendHTMLPinGridLetter to send the welcome email to the user.
 - Use the stored value for the MIP. When adding parameters for sending the HTML letter to the user, the templateName string value is the default value of the Grid template; that is, PINgridUserTemplate.
 - For a PINpass letter, this is instead PINpassUserTemplate; for PINphrase, the value PINphraseUserTemplate.





3.6 Using the Web Services API with Visual Studio

In addition to using HTTPS GET and POST to communicate with the API, you can use the Authlogics. ApiClient .NET library.

The library is .NET Standard, so works with both .NET Framework and .NET Core.

3.6.1 AuthlogicsApiClient

To create the client, you can either explicitly pass it the server URI; for example:

```
new AuthlogicsApiClient(new Uri("https://myserver.com:14443"));
```

Or you can pass in an IConfiguration instance; for example:

```
var client = new AuthlogicsApiClient(configuration);
```

Which you can also configure through DI; for example:

```
using IHost host = Host
    .CreateDefaultBuilder(args)
    .ConfigureServices(services => services.AddTransient<IAuthlogicsApiClient,
AuthlogicsApiClient>())
    .Build();

var client = host.Services.GetRequiredService<IAuthlogicsApiClient>();
```

With the appsettings.json in the format:

```
{
   "Authlogics": {
     "ApiClient": {
        "ServerUrl": "https://myserver.com:14443"
      }
   }
}
```

You can also optionally set a an <code>ILogger</code> instance, which, if set, logs the details of each method call; for example:

```
client.Logger = logger;
```

Once you have created the client instance, you can call <code>TestConnection</code> to verify that the client can access the server using the URI provided. This calls an un-authenticated method on the server so it can verify the URI independently of any authentication issues that may arise. There is no return value, the test throws an exception if the connection fails; for example:

```
await client.TestConnection(cancellationToken);
```





3.6.2 Authentication

You require a JWT bearer token to access the API. If you have already generated a bearer token, you can pass it directly into the client; for example:

```
await client.AuthenticateWithBearerToken("...", cancellationToken);
```

You can also authenticate with a client credential along with the scope; for example:

```
await client.AuthenticateWithClientCredentials("my_client_credential", " my_client_
credential_secret", "rest_api", cancellationToken);
```

For more information on creating a client credential, see the *Creating a client credential* application section in the *MyID Authentication Server Installation and Configuration Guide*.

In each case, the bearer token received or generated is stored in the client and automatically included with every method call that requires authentication.

3.6.3 Example

The following example checks for an existing realm, creates it if it does not exist, then returns all realms.

```
if (!await client.DoesRealmExists("MyTestRealm", cancellationToken))
{
    await client.CreateRealm("MyTestRealm", cancellationToken);
}
var realms = await client.GetRealms("", cancellationToken);
```

3.7 Web Service call changes in version 5.0 from 4.2.1

The following table lists the Web Service API calls that have been added and removed in MyID MFA Version 5.

Added	Removed
AddFidoCredential	WebPortalVerifyOTP
EnableFidoCredential	
GetOathUrl	
RemoveFidoCredential	
UpdateFidoCredential	
VerifyEmergencyAccess	
YubiKeyOtpChangePin	
YubiKeyOtpProvision	





4 Advanced configuration

You can control the advanced configuration options for MyID MFA through the Windows registry or the IIS web.config file. The entries described in this chapter are created during the installation of MyID server components; typically, you should change them only if instructed by an Intercede support engineer.

Note: After changing a registry key on the MyID Server, you must restart the IIS components; to do so, open a Windows command prompt with administrative permissions and run the following command:

iisreset

You can:

- Specify Active Directory Domain Controllers.
 See section 4.1, Specifying Active Directory Domain Controllers.
- Configure the connection timeout for Active Directory.
 See section 4.2, Active Directory timing.
- Configure diagnostics logging.
 See section 4.3, Diagnostics logging.
- View other settings.

See section 4.4, Other settings.





4.1 Specifying Active Directory Domain Controllers

The MyID Authentication Server automatically locates Domain Controllers as needed. In environments where network segmentation exists, the MyID Authentication Server may not be able to contact all Domain Controllers. This can cause connectivity problems and logon delays.

In these environments, you can specify which Domain Controllers and Global Catalog Servers should be used using registry keys. Each key can contain one or many server names (FQDN recommended) separated by commas.

4.1.1 Specifying Global Catalog Servers

To specify the global catalog server to access from the MyID Authentication Server, set the following registry value:

HKLM\SOFTWARE\Authlogics\Authentication Server\DomainGCs

By default, this is blank.

Accepted values:

• One or more server names (FQDN recommended), separated by commas.

Used by components: MyID Authentication Server; Management Console

The MyID Authentication Server attempts to connect to each specified global catalog server and then remains connected to the server that responds to LDAP queries the quickest.

Note: This setting disables the auto-detect global catalog servers functionality within MyID.

4.1.2 Specifying Domain Controllers

To specify the Domain Controllers to access from the MyID Authentication Server, set the following registry value:

HKLM\SOFTWARE\Authlogics\Authentication Server\DomainDCs

By default, this is blank.

Accepted values:

• One or more Domain Controller names (FQDN recommended), separated by commas.

Used by components: MyID Authentication Server; Management Console

The MyID Authentication Server attempts to connect to each specified Domain Controller and then remains connected to the server that responds to LDAP queries the quickest. The MyID Authentication Server initially finds the names of all the Domains in the Forest, and the Domain Controllers in each Domain by querying the Global Catalog. It then maps the results against the Domain Controllers list in the registry to calculate which server to use for each Domain. If a Domain does not have a Domain Controllers specified, one is selected automatically.

Note: This setting disables the auto-detect Domain Controller functionality within MyID.

4.2 Active Directory timing

You can set the following values in the registry:

- · Domain access timeout.
- · Domain controller refresh.





4.2.1 Domain access timeout

HKLM\SOFTWARE\Authlogics\Authentication Server\DomainAccessTimeout

Default value: 60
Accepted values:

- 0 disabled, indefinite timeout.
- 1 to 120 timeout in seconds.

The time taken in seconds before a connection established by a MyID component to a Domain Controller times out.

4.2.2 Domain Controller refresh

HKLM\SOFTWARE\Authlogics\Authentication Server\DomainControllerRefeshTime

Default value: 15
Accepted values:

• 1 to 9999 – timeout in minutes.

The time taken in minutes before a new search is done to locate the quickest Global Catalog Server and Domain Controller.

4.3 Diagnostics logging

You can control the diagnostics logging using the Windows registry.

4.3.1 Enabling logging

To enable or disable diagnostics logging, set the following registry value:

HKLM\SOFTWARE\Authlogics\Authentication Server\LoggingEnabled

The default value is 1.

Accepted values:

- 0 disabled.
- 1 enabled.

When you enable this value, various log files are created in the logging folder. Intercede support may request these logs from you.

4.3.2 Setting the logging location

To control the location of the log files, set the following registry value:

HKLM\SOFTWARE\Authlogics\Authentication Server\LoggingFolder

The default value is:

C:\Program Files\Authlogics Authentication Server\Log\

Accepted values:

• Any valid local folder with the same NTFS permissions as the default folder.





4.3.3 Setting the retention time for rolling logs

Old logs are deleted after a specified interval has passed; for example, after three days (which is the default), or two months. You specify this retention time using the interval type (LoggingRollingIntervalType) – for example, days or months, and the number of intervals (LoggingFileCountLimit) – for example, three (days) or two (months).

To set the interval type, set the following registry value:

HKLM\SOFTWARE\Authlogics\Authentication Server\LoggingRollingIntervalType

The default value is 3 (days).

Accepted values:

- 0 Infinite time between rolling logs this means that old logs are never deleted.
- 1 Years.
- 2 Months.
- 3 Days.
- 4 Hours.
- 5 Minutes.

This setting also determines when new logs are created; for example, new logs are created every day, or every year. Multiple logs may be created within each interval depending on the size limit you have set for the logs; see section 4.3.4, Size limit of rolling log files.

To set the number of intervals of logs stored, for example, three (days) or two (months), set the following registry value:

 $\verb|HKLM\SOFTWARE\Authlogics\Authentication Server\LoggingFileCountLimit|\\$

The default value is 3 – after three intervals, the logs from the first interval are deleted.

Accepted values:

· A number of intervals.





4.3.4 Size limit of rolling log files

New log files are created every interval (for example, every day, or every month). To prevent these files from becoming too large, you can set the maximum size of each log file. When this size is reached, a new log file is created within the same interval; for example, if you are using day interval logs:

AuthlogicsIdentityServer-20250325-0001.log AuthlogicsIdentityServer-20250325-0002.log

or for year interval logs:

AuthlogicsIdentityServer-2025-0001.log
AuthlogicsIdentityServer-2025-0002.log

To set the maximum size of each log file, set the following registry value:

HKLM\SOFTWARE\Authlogics\Authentication Server\LoggingRollingSizeLimit

The default value is 20 megabytes.

Accepted values:

· A number in megabytes.

Note: This setting does not reduce the total size of the logs; by limiting the size of the individual files, it increases the number of files.





4.3.5 Example of rolling logs

With the default values of:

- LoggingRollingIntervalType 3 (day intervals)
- LoggingFileCountLimit 3 (three days)
- LoggingRollingSizeLimit 20 (MB)

Old log files are deleted after three days.

An example of rolling log files produced starting on the March 25th 2025 is:

```
AuthlogicsIdentityServer-20250325-0001.log
AuthlogicsIdentityServer-20250326-0002.log
AuthlogicsIdentityServer-20250326-0001.log
AuthlogicsIdentityServer-20250326-0002.log
AuthlogicsIdentityServer-20250326-0003.log
AuthlogicsIdentityServer-20250327-0001.log
AuthlogicsIdentityServer-20250327-0001.log
AuthlogicsIdentityServer-20250327-0002.log
AuthlogicsRestApi-20250325-0001.log
AuthlogicsRestApi-20250325-0001.log
AuthlogicsRestApi-20250326-0001.log
AuthlogicsRestApi-20250326-0002.log
AuthlogicsRestApi-20250326-0003.log
AuthlogicsRestApi-20250327-0001.log
AuthlogicsRestApi-20250327-0001.log
AuthlogicsRestApi-20250327-0001.log
AuthlogicsRestApi-20250327-0001.log
```

Each day has several files, each with a maximum size of 20 megabytes. When the logger starts writing to the first file of March 28th, the cleanup process is triggered, deleting the files from March 25th, as those are then more than three days old.

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4.3.6 Enabling verbose logging

You can enable more verbose logging for the following websites:

- · Identity provider
- · Web Management Portal
- · Self Service Portal

To enable verbose logging:

- 1. If you do not have an appsettings. Production. json file for the website, create it in the website folder. By default, the settings files belong in the following locations:
 - · Identity provider:

```
C:\Program Files\Authlogics Authentication Server\Web\IdP\
```

Web Management Portal:

C:\Program Files\Authlogics Authentication Server\Web\Admin\

· Self Service Portal:

C:\Program Files\Authlogics Authentication Server\Web\SSP\

Note: Do not use the appsettings.json file – that file can be overwritten when you update or upgrade MyID MFA and PSM.

2. In a text editor, open the appsettings. Production. json file for the website.

Edit the file to include the following:

```
{
  "Logging":{
    "LogLevel":{
      "Default":"Information"
    }
}
```

- 3. Set the value of Default to one of the following, from most verbose to least:
 - Trace
 - Debug
 - Information
 - Warning
 - Error
 - Critical

By default, the logging is set to Information level.

- 4. Save the appsettings. Production. json file.
- 5. To ensure that this change is immediately enforced, you must refresh the application pool. To recycle the application pool:
 - a. On the MyID Authentication Server, in Internet Information Services (IIS) Manager, select **Application Pools**.





- b. Right-click the appropriate application pool:
 - · Identity provider:

Authlogics Authentication Server IdP

• Web Management Portal:

Authlogics Authentication Server WMP

• Self Service Portal:

Authlogics Authentication Server SSP

- c. From the pop-up menu click Recycle.
- 6. Check that the changes are successful by accessing the appropriate website; for example, log into the Web Management Portal.

4.4 Other settings

The following setting is provided for information:

4.4.1 ProgramFolder

The program folder is specified in the following registry value:

HKLM\SOFTWARE\Authlogics\Authentication Server\ProgramFolder

The default value is:

C:\Program Files\Authlogics Authentication Server

Important: Changing this value is not supported.