# **API How to Guide**

The Agent-XML API is an XML based API used for integrating PINsafe with other applications.

There are 4 subsets of the API, that cover the following areas

Authentication

Authentication, Change PIN, PIN Reset, Start Authentication Session, Request security Strings etc

Admin functions

Add new users, set user details (eg mobile phone number), synchronise a repository, delete users

Helpdesk functions

Unlock user, send user new credentials, set user policies etc

· Reporting functions

Retrieving lists of idle users etc

All these APIs follow the structure described in this article.

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### **Principles**

The APIs are based around XML documents for both request and reply.

The basic idea is to build a document containing details of operation(s) to be performed and the user(s) on which they are to be performed, submit it to PINsafe via HTTP and PINsafe will reply with a document detailing which operations succeeded and which, if any, failed. All operations via the API will be logged in the standard PINsafe log.

Only authorised PINsafe Agents will be able to submit requests. This is in line with Agents used for authorisation. The API is case sensitive, the correct case shown in the included examples.

Requests are sent to PINsafe via an HTTP POST using http or https depending on the configuration of the PINsafe server. For appliances the default will be https over port 8080.

The requests are posted to the pinsafe context followed by AgentXML for the authetnication API and AdminXML for the Admin, Helpdesk and reporting API

For example http://<ip address>:8080/pinsafe/AgentXML or https://<ip address>:8080/pinsafe/AdminXML

#### Structure

</HelpdeskRequest>

The structure of a request that all API requests are contained within a request element. This request element specifies the type of request and also includes the shared secret for agent authentication.

eg an authentication request would be contained within an SASRequest tag

Whereas an admin API request would be contained within an AdminRequest element.

The syntax of AdminRequest and HelpdeskRequest are more or less identical. The major difference is that AdminRequest can make major changes to the database, such as adding and deleting users, whereas HelpdeskRequest is largely read-only, although it does support some changes to existing users, such as PIN change. Conversely, AdminRequest can only affect users in the repository with the same name as the Agent, so the Agent must have "Can Act as Repository" set to Yes. HelpdeskRequest can affect any users.

The responses from the PINsafe server are similarly contained within response tags eg

Within these elements for elements that specify the particular request. For details of these elements refer to the article relating to that part of the API.

#### Commands

```
Authentication
```

<changePIN> : Change Users Credentials

<exists> : Does a user have an account.

login> : Perfrom PINsafe authentication

<ping> : Ping PINsafe application

<reset> : Perform a PIN reset

<resetcode> : Request a PIN Reset code

<startsession> : Start an authentication session

<securitystrings> : Request a set of security strings

Helpdesk functions

<reset> : Send user new credentials

<strings> : send dual channel security string(s) to user

<update> : Change user policies or credentials

Admin functions

<create> : create a new user and optionally set user details.

<delete> : delete a user.

<read> : read the details of a given user.

<reset> : Send user new credentials

<sync> : Synchronise with a repository

<update> : Change user policies, credentials, transports etc

## Reporting functions

<disabled> : Report on disabled users

<idle> : Report on idle users

<locked> : Report on locked users

### **Examples**

We have a number of applications that use these APIs, available as Windows executable programs. These can be found on a separate page.