

# **Security Compliance - Configure Users passwords, Inactivity Timeout API, Password requirements & Login Settings. v1.0**

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## Overview

### Overview

The documentation pages in this section describe the RESTful APIs included with NetProfiler products. It is assumed that the reader has practical knowledge of RESTful APIs, so the documentation does not go into detail about what REST is and how to use it. Instead the documentation focuses on how to reset user password, view user details, how to view and configure inactivity timeout settings.

The following operations can be performed via the API:

- Display Web(local)/Shell users detail.
- Reset password for Web(local)/Shell users.
- Display inactivity timeout settings.
- Configure inactivity timeout settings.
- Display password requirements settings.
- Configure password requirements settings.
- Display login settings.
- Configure login settings.
- Upload banner image.

Details about REST resources can be found in the **Resources** section. This overview continues with how to run these API's.

### Authentication

All REST requests must be authenticated. The **Authentication** section of the Common API describes which authentication methods are presently supported.

## Resources

### Users: Display Users Detail

Display Web(local)/Shell User details.

```
GET https://{device}/api/mgmt.users_config/1.0/users
```

### Authorization

This request requires authorization.

### Response Body

On success, the server returns a response body with the following structure:

```
JSON
```

```
[
  {
    "username": string,
    "user_enabled": string,
    "current_password": string,
    "user_type": string
  }
]
```

Example:

```
[
  {
    "username": "mazu",
    "user_enabled": "True",
    "current_password": "*****",
    "user_type": "shell"
  },
  {
    "username": "admin",
    "user_enabled": "True",
    "current_password": "*****",
    "user_type": "shell"
  },
  {
    "username": "root",
    "user_enabled": "True",
    "current_password": "*****",
    "user_type": "shell"
  },
  {
    "username": "dhcp",
    "user_enabled": "True",
    "current_password": "*****",
    "user_type": "shell"
  },
  {
    "username": "admin",
    "user_enabled": "True",
    "current_password": "*****",
    "user_type": "web"
  }
]
```

Property Name	Type	Description	Notes
<i>users</i>	<array of <object>>	List of Web(local)/Shell Users detail.	
<i>users[user]</i>	<object>	Web(local)/Shell User detail.	
<i>users[user].username</i>	<string>	Web(local) or Shell username.	
<i>users[user].user_enabled</i>	<string>	Displays user is enabled or not.	
<i>users[user].current_password</i>	<string>	Always hidden with asterisks.	
<i>users[user].user_type</i>	<string>	Displays if a user is of type web(local) or shell.	

## Users: Configure User Password

Resets Web(local)/Shell Users password.

```
POST https://{device}/api/mgmt.users_config/1.0/users
```

### Authorization

This request requires authorization.

### Request Body

Provide a request body with the following structure:

JSON

```
[
  {
    "username": string,
    "user_enabled": string,
    "current_password": string,
    "new_password": string,
    "user_type": string
  }
]
```

Example:

```
[
  {
    "username": "mazu",
    "user_enabled": "True",
    "current_password": "abcdef",
    "new_password": "qwerty",
    "user_type": "shell"
  },
  {
    "username": "admin",
    "user_enabled": "True",
    "current_password": "",
    "new_password": "bb!xiops",
    "user_type": "web"
  }
]
```

Property Name	Type	Description	Notes
users	<array of <object>>	List of Web(local)/Shell Users details for which password needs to be reset.	
users[user]	<object>	Web(local)/Shell User details for which password needs to be reset.	
users[user].username	<string>	Web(local)/Shell username.	
users[user].user_enabled	<string>	User is enabled or not.	
users[user].current_password	<string>	Current password can be empty for web users.	
users[user].new_password	<string>	New password should be in plain text.	
users[user].user_type	<string>	User is of type shell/web.	

## Response Body

On success, the server does not provide any body in the responses.

## Inactivity Timeout: Display Settings

Display Inactivity Timeout Settings.

```
GET https://{device}/api/mgmt.users_config/1.0/inactivity_timeout
```

## Authorization

This request requires authorization.

## Response Body

On success, the server returns a response body with the following structure:

JSON

```
[
  {
    "inactivity_timeout_enabled": string,
    "inactivity_timeout": string
  }
]
```

Example:

```
[
  {
    "inactivity_timeout_enabled": "false",
    "inactivity_timeout": "2"
  }
]
```

Property Name	Type	Description	Notes
---------------	------	-------------	-------

<i>settings</i>	<array of <object>>	List of Inactivity Timeout Settings.	
<i>settings</i> [setting]	<object>	Inactivity timeout settings.	
<i>settings</i> [setting]. inactivity_timeout_enabled	<string>	Inactivity timeout is in enabled/disabled state.	
<i>settings</i> [setting].inactivity_timeout	<string>	Inactivity timeout value in minutes.	

## Inactivity Timeout: Configure Settings

Configure Inactivity Timeout Settings.

POST [https://{device}/api/mgmt.users\\_config/1.0/inactivity\\_timeout](https://{device}/api/mgmt.users_config/1.0/inactivity_timeout)

### Authorization

This request requires authorization.

### Request Body

Provide a request body with the following structure:

JSON

```
[
  {
    "inactivity_timeout_enabled": string,
    "inactivity_timeout": string
  }
]
```

Example:

```
[
  {
    "inactivity_timeout_enabled": "true",
    "inactivity_timeout": "2"
  }
]
```

Property Name	Type	Description	Notes
<i>settings</i>	<array of <object>>	List of Web(local)/Shell Users details for which password needs to be reset.	
<i>settings</i> [setting]	<object>	Inactivity timeout settings.	
<i>settings</i> [setting]. inactivity_timeout_enabled	<string>	Inactivity timeout is in enabled/disabled state.	
<i>settings</i> [setting].inactivity_timeout	<string>	Inactivity timeout value in minutes.	

### Response Body

On success, the server does not provide any body in the responses.

## Password Requirements: Display Settings

Display Password Requirement Settings.

GET [https://{device}/api/mgmt.users\\_config/1.0/password\\_requirements](https://{device}/api/mgmt.users_config/1.0/password_requirements)

### Authorization

This request requires authorization.

### Response Body

On success, the server returns a response body with the following structure:

JSON

```
[
  {
    "Minimum number of characters": number,
    "Require mixed case": string,
    "Require non-alphanumeric characters": string,
    "Number of passwords to remember to prevent repeats": number,
    "Enable password aging": string,
    "Number of days before password expiration": number
  }
]
```

Example:

```
[
  {
    "Minimum number of characters": 6,
    "Require mixed case": "false",
    "Require non-alphanumeric characters": "false",
    "Number of passwords to remember to prevent repeats": 1,
    "Enable password aging": "false",
    "Number of days before password expiration": 0
  }
]
```

Property Name	Type	Description	Notes
<i>settings</i>	<array of <object>>	List of Password Requirement Settings.	
<i>settings[setting]</i>	<object>	Password Requirement settings.	
<i>settings[setting].</i> Minimum number of characters	<number>	Minimum number of characters in integer format.	
<i>settings[setting].</i> Require mixed case	<string>	Require mixed case value as true/false.	
<i>settings[setting].</i> Require non-alphanumeric characters	<string>	Require non-alphanumeric characters value as true/false.	
<i>settings[setting].</i> Number of passwords to remember to prevent repeats	<number>	Number of passwords to remember to prevent repeats value in integer format.	
<i>settings[setting].</i> Enable password aging	<string>	Enable password aging value as true/false.	
<i>settings[setting].</i> Number of days before password expiration	<number>	Number of days before password expiration in integer format.	

## Password Requirements: Configure Settings

Configure Password Requirement Settings.

POST [https://{device}/api/mgmt.users\\_config/1.0/password\\_requirements](https://{device}/api/mgmt.users_config/1.0/password_requirements)

### Authorization

This request requires authorization.

### Request Body

Provide a request body with the following structure:

JSON

```
[
  {
    "Minimum number of characters": number,
    "Require mixed case": string,
    "Require non-alphanumeric characters": string,
    "Number of passwords to remember to prevent repeats": number,
    "Enable password aging": string,
    "Number of days before password expiration": number
  }
]
```

Example:

```
[
  {
    "Minimum number of characters": 6,
    "Require mixed case": "false",
    "Require non-alphanumeric characters": "false",
    "Number of passwords to remember to prevent repeats": 1,
    "Enable password aging": "false",
    "Number of days before password expiration": 0
  }
]
```

Property Name	Type	Description	Notes
<i>settings</i>	<array of <object>>	Password Requirement Settings that need to be configured.	
<i>settings</i> [ <i>setting</i> ]	<object>	Password Requirement settings.	
<i>settings</i> [ <i>setting</i> ]. Minimum number of characters	<number>	Minimum number of characters in integer format.	
<i>settings</i> [ <i>setting</i> ].Require mixed case	<string>	Require mixed case value as true/false.	
<i>settings</i> [ <i>setting</i> ].Require non-alphanumeric characters	<string>	Require non-alphanumeric characters value as true/false.	
<i>settings</i> [ <i>setting</i> ].Number of passwords to remember to prevent repeats	<number>	Number of passwords to remember to prevent repeats value in integer format.	
<i>settings</i> [ <i>setting</i> ].Enable password aging	<string>	Enable password aging value as true/false.	
<i>settings</i> [ <i>setting</i> ].Number of days before password expiration	<number>	Number of days before password expiration in integer format.	

## Response Body

On success, the server does not provide any body in the responses.

## Login Settings: Display Settings

Display Login Settings.

```
GET https://{device}/api/mgmt.users_config/1.0/login_settings
```

## Authorization

This request requires authorization.

## Response Body

On success, the server returns a response body with the following structure:

JSON

```
[
  {
    "Allow only one log-in per user name/password combination": string,
    "Force password change on first log-in": string,
    "Number of log-in attempts before account is locked": number,
    "Number of minutes to keep an account locked": number,
    "Prevent user 'admin' from being locked out via DoS attack": string,
    "Log-in splash screen display": number,
    "Log-in text": string
  }
]
```

Example:

```
[
  {
    "Allow only one log-in per user name/password combination": "false",
    "Force password change on first log-in": "false",
    "Number of log-in attempts before account is locked": 3,
    "Number of minutes to keep an account locked": 30,
    "Prevent user 'admin' from being locked out via DoS attack": "false",
    "Log-in splash screen display": 0,
    "Log-in text": "Welcome"
  }
]
```

Property Name	Type	Description	Notes
<i>settings</i>	<array of <object>>	List of Login Settings.	
<i>settings</i> [setting]	<object>	Login settings.	
<i>settings</i> [setting]. Allow only one log-in per user name/password combination	<string>	Allow only one log-in per user name/password combination value as true/false.	
<i>settings</i> [setting]. Force password change on first log-in	<string>	Force password change on first log-in value as true/false.	
<i>settings</i> [setting]. Number of log-in attempts before account is locked	<number>	Number of log-in attempts before account is locked value in integer format.	
<i>settings</i> [setting]. Number of minutes to keep an account locked	<number>	Number of minutes to keep an account locked value in integer format.	
<i>settings</i> [setting]. Prevent user 'admin' from being locked out via DoS attack	<string>	Prevent user 'admin' from being locked out via DoS attack value as true/false.	
<i>settings</i> [setting]. Log-in splash screen display	<number>	Log-in splash screen display in integer format.	
<i>settings</i> [setting].Log-in text	<string>	Log-in text value as true/false.	

## Login Settings: Configure Settings

Configure Login Settings.

```
POST https://{device}/api/mgmt.users_config/1.0/login_settings
```

### Authorization

This request requires authorization.

### Request Body

Provide a request body with the following structure:

JSON



```
[
  {
    "Allow only one log-in per user name/password combination": string,
    "Force password change on first log-in": string,
    "Number of log-in attempts before account is locked": number,
    "Number of minutes to keep an account locked": number,
    "Prevent user 'admin' from being locked out via DoS attack": string,
    "Log-in splash screen display": number,
    "Log-in text": string
  }
]
```

Example:

```
[
  {
    "Allow only one log-in per user name/password combination": "false",
    "Force password change on first log-in": "false",
    "Number of log-in attempts before account is locked": 3,
    "Number of minutes to keep an account locked": 30,
    "Prevent user 'admin' from being locked out via DoS attack": "false",
    "Log-in splash screen display": 0,
    "Log-in text": "Welcome"
  }
]
```

Property Name	Type	Description	Notes
<i>settings</i>	<array of <object>>	Login Settings that need to be configured.	
<i>settings</i> [setting]	<object>	Login settings.	
<i>settings</i> [setting]. Allow only one log-in per user name/password combination	<string>	Allow only one log-in per user name/password combination value as true/false.	
<i>settings</i> [setting]. Force password change on first log-in	<string>	Force password change on first log-in value as true/false.	
<i>settings</i> [setting]. Number of log-in attempts before account is locked	<number>	Number of log-in attempts before account is locked value in integer format.	
<i>settings</i> [setting]. Number of minutes to keep an account locked	<number>	Number of minutes to keep an account locked value in integer format.	
<i>settings</i> [setting]. Prevent user 'admin' from being locked out via DoS attack	<string>	Prevent user 'admin' from being locked out via DoS attack value as true/false.	
<i>settings</i> [setting]. Log-in splash screen display	<number>	Log-in splash screen display in integer format.	
<i>settings</i> [setting].Log-in text	<string>	Log-in text value as true/false.	

## Response Body

On success, the server does not provide any body in the responses.

## Banner Image: Upload Banner Image

Only supported image type can be passed as a binary object

```
PUT https://{device}/api/mgmt.users_config/1.0/banner_image
```

## Authorization

This request requires authorization.

## Request Body

Do not provide a request body.

## Response Body

On success, the server does not provide any body in the responses.

## Banner Image: Get Banner Image Settings

Fetch the Banner Image display settings

GET https://{device}/api/mgmt.users\_config/1.0/banner\_image/settings

## Authorization

This request requires authorization.

## Response Body

On success, the server returns a response body with the following structure:

JSON

```
{
}
```

Example:

```
{
  "login_banner_text": "This is a test banner",
  "banner_file": "banner_yeycfid7.jpg",
  "banner_display": "5 second auto-display",
  "banner_size": "width=\\"900\\" height=\\"360\\"""
}
```

Property Name	Type	Description	Notes
<i>banner_settings</i>	<i>&lt;object&gt;</i>	The current banner settings.	

## Banner Image: Set Banner Image Settings

Set the Banner Image display settings

POST https://{device}/api/mgmt.users\_config/1.0/banner\_image/settings

## Authorization

This request requires authorization.

## Request Body

Do not provide a request body.

## Response Body

On success, the server returns a response body with the following structure:

JSON

```
{
}
```

Example:

```
{
  "login_banner_text": "This is a test banner",
  "banner_display": "5 second auto-display"
}
```

Property Name	Type	Description	Notes
<i>banner_settings</i>	<i>&lt;object&gt;</i>	Configure banner settings.	

## Error Codes

In the event that an error occurs while processing a request, the server will respond with appropriate HTTP status code and additional information in the response body:

```
{
  "error_id": "{error identifier}",
  "error_text": "{error description}",
  "error_info": {error specific data structure, optional}
}
```

The table below lists the possible errors and the associated HTTP status codes that may returned.

<b>Error ID</b>	<b>HTTP Status</b>	<b>Comments</b>
PARTIAL_CONTENT	206	Operation was partially successful.
BAD_REQUEST	400	Invalid argument.
AUTH_REQUIRED	401	Authentication required.
AUTH_INVALID_CREDENTIALS	401	Make sure the user name is correct and type your password again. Be sure to use the correct case for the user name and password.
INTERNAL_ERROR	500	Internal error.