

# Configure the Moonshot SSP

The Moonshot Security Support Provider (SSP) on Windows has various configuration options. This page documents these options, including how to manually add account mappings.

## Contents

- 1. Configuration Tools
  - 1.1. The GUI - msetupgui.exe
  - 1.2. The CLI - msetup.exe
- 2. Main configuration options
- 3. Configure the connection to your Moonshot RP Proxy
  - 3.1. Basic Connection Details
    - 3.1.1. Using the GUI
    - 3.1.2. Using the CLI
  - 3.2. Configuring RADIUS or RadSec
    - 3.2.1. RadSec
      - 3.2.1.1. Using the GUI
      - 3.2.1.2. Using the CLI
    - 3.2.2. RADIUS
      - 3.2.2.1. Using the GUI
      - 3.2.2.2. Using the CLI
- 4. Add account mappings
  - 4.1. Mapping to a local account
    - 4.1.1. Using the GUI
    - 4.1.2. Using the CLI
  - 4.2. Mapping to an AD domain account

## 1. Configuration Tools

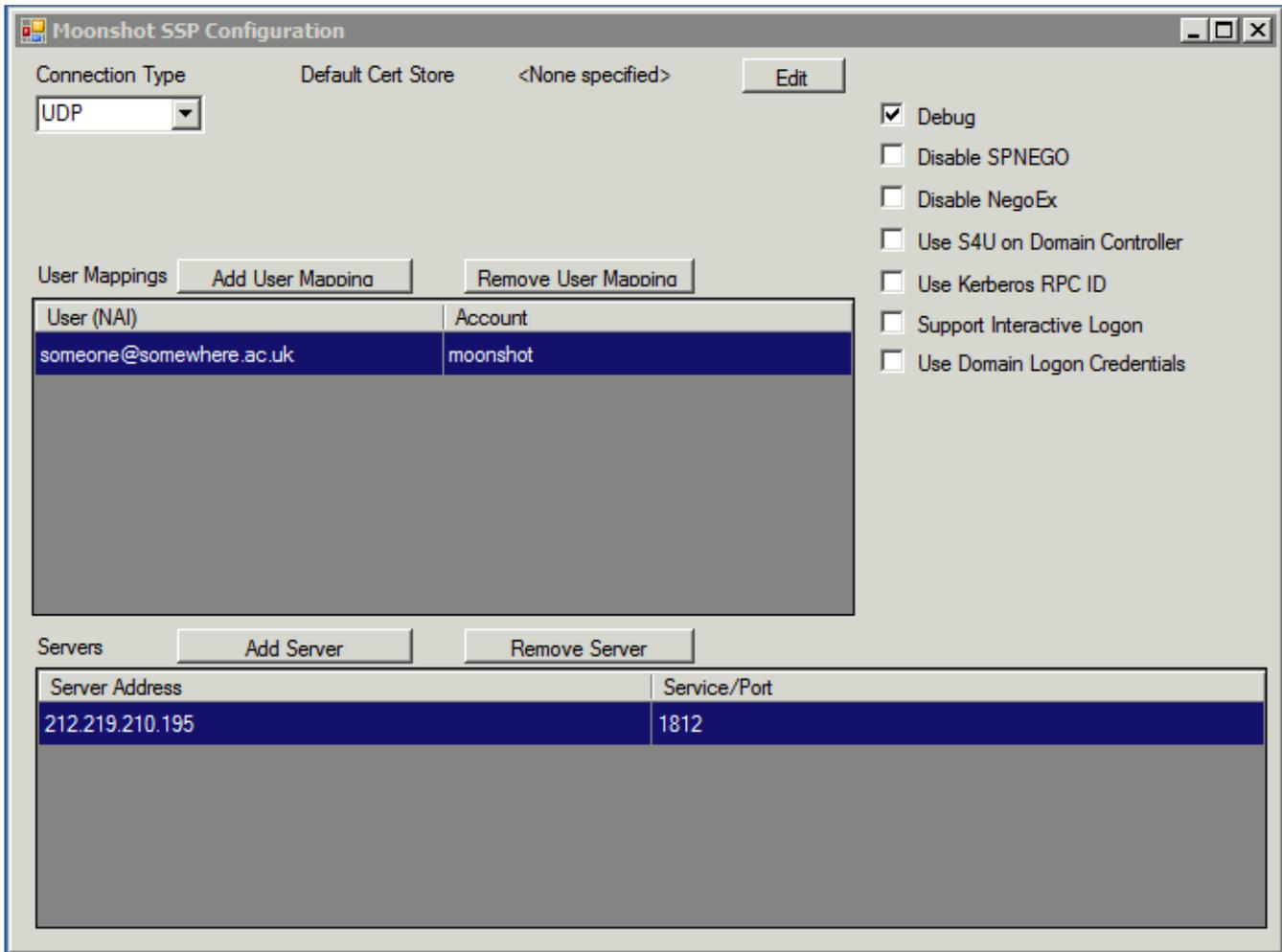
The Moonshot SSP ships with two tools for configuring the SSP. One is a GUI, and one a CLI. These tools allow you to:

- Set various configuration options about the way the SSP operates
- Configure your connection to a Moonshot RP Proxy
- Add manual account mappings.

### 1.1. The GUI - msetupgui.exe

The default location for the SSP setup GUI is `C:\Program Files\Moonshot\msetupgui.exe`.

To set the options as documented in Section 2, simply click to turn them on and off. Note that all settings require a reboot to take effect.



## 1.2. The CLI - msetup.exe

The SP setup CLI is located at `C:\Program Files\Moonshot\msetup.exe`

To set the options as documented in Section 2, run the msetup tool in a command prompt with the appropriate flags. Note that all settings require a reboot to take effect.

```

Administrator: Command Prompt
C:\Program Files\Moonshot>MSetup.exe /?
USAGE:
/DumpState <no args>
    Display the EAP SSP configuration on the given machine
/MapUser <NAI> [Account]
    Maps a Network Access Identifier ('*' = any NAI)
    to an account ('*' = an account by the same name);
    If account name is omitted, the mapping for the
    specified NAI is deleted.
/AddAaa <AaaServer> [Service!Port] [Secret]
    Adds a AAA server entry
/DelAaa <AaaServer> [Service!Port] [Secret]
    Deletes a AAA server entry
/ListSspFlags <no args>
    Lists the available SSP configuration flags
/SetSspFlags <flag> [flag] [flag] [...]
    Sets SSP configuration flags
/AddSspFlags <flag> [flag] [flag] [...]
    Adds additional SSP configuration flags
/DelSspFlags <flag> [flag] [flag] [...]
    Deletes SSP configuration flags
/SetDefaultCertStore <CertStore>
    Sets default certificate store name
    (will enforce certificate validation)
    If certificate store is omitted, then the store
    name is cleared and certificate validation will
    only be performed on a per-credential basis.
/SetCredCACert <TargetName> <NAI> [<CertFile>]
    Binds/unbinds a certificate to a stored credential
/SetCredServerHash <TargetName> <NAI> [<ServerHash>]
    Binds/unbinds a server fingerprint to a stored credential
    (This is mutually exclusive with /SetCredCACert.
    Fingerprint is a colon-separated hex SHA256 hash.)
/SetCredSubjectName <TargetName> <NAI> [<SubjectNameConstraint>]
    Binds/unbinds a subject name constraint to a stored credential
/SetCredSubjectAltName <TargetName> <NAI> [<SANConstraint>]
    Binds/unbinds a subject alternative name constraint to a
    stored credential
/ListCredBindings <TargetName> <NAI>
    Shows bindings associated with a stored credential

C:\Program Files\Moonshot>

```

## 2. Main configuration options

You can use either tool to set any of the options below.

<i>SSP Option</i>	<i>Explanation of Option</i>
<b>Debug</b>	Turns on Debug logging. See the <a href="#">Debugging the Moonshot SSP on Windows</a> topic for further information.
<b>Disable SPNEGO</b>	GSS-EAP will not be advertised by the SPNEGO/Negotiate security package. This may avoid any potential incompatibilities that might arise from the SSP being negotiable at two layers (Negotiate and NegoEx).
<b>Disable NegoEx</b>	GSS-EAP will not be advertised by the NegoEx security package (as negotiated by SPNEGO)
<b>Use S4U on Domain Controller</b>	Normally, if running on a domain controller, the directory is interrogated directly. If this flag is set, however, then S4U2Self (protocol transition) will be used if that fails. Used for debugging
<b>Use Kerberos RPC ID</b>	Pretends to be Kerberos rather than GSS-EAP (e.g., required for Microsoft Exchange)
<b>Support Interactive Login</b>	Allows federated sign-in to the Windows desktop
<b>Use Domain Login Credentials</b>	Pass through the credentials of the currently logged in user (desktop SSO)

## 3. Configure the connection to your Moonshot RP Proxy

Your Moonshot SSP needs to connect to a local Moonshot RP Proxy in order to authenticate remote users. To do so, you can either use the GUI or the CLI, whichever you prefer. Adding a connection to a Moonshot RP Proxy consists of two steps: configuring the basic details for the Moonshot RP Proxy, then configuring whether to use a RADIUS or a RadSec connection.



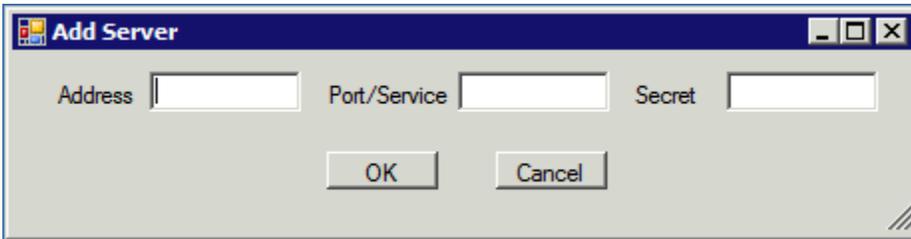
Defining multiple Moonshot RP Proxy connections would give a simple fail-over mechanism; should the first Moonshot RP Proxy in the list not be available, the second would be consulted, and so on.

### 3.1. Basic Connection Details

#### 3.1.1. Using the GUI

In the msetupgui.exe window, you will find an "Add Server" button. Click on this and a dialogue will pop up asking you to enter some information. Fill it in as follows:

- Address - the IP address of your AAA proxy
- Port/Service - the port that your RADIUS server is running on (often 1812 for RADIUS and 2083 for RadSec)
- Secret - the shared secret for your SSP as configured in the AAA proxy



#### 3.1.2. Using the CLI

In a command prompt, issue the following command:

```
C:\Program Files\Moonshot\MSetup.exe /AddAaa server port secret
```



#### Example

For a server located at 123.123.123.123, listening on port 1812 with a secret of "sharedsecret" you would run a command as follows:

```
C:\Program Files\Moonshot\MSetup.exe /AddAaa 123.123.123.123 1812 sharedsecret
```

### 3.2. Configuring RADIUS or RadSec

Your Moonshot libraries will need connect to a Moonshot RP Proxy. This can be a RADIUS or a RadSec connection.



If you are unsure which to use, then RadSec is recommended as it is more flexible and more secure. It is slightly more complex to set up, however.

#### 3.2.1. RadSec

##### 3.2.1.1. Using the GUI

To configure a RadSec connection, make sure the "TCP" option is selected in the drop-down menu at the top left of the msetupgui.exe window.



#### TODO

Instructions on configuring certs in the SSP GUI

### 3.2.1.2. Using the CLI



TODO

Instructions on configuring certs in the SSP CLI

## 3.2.2. RADIUS

### 3.2.2.1. Using the GUI

To configure a RADIUS connection, simply make sure the "UDP" option is selected in the drop-down menu at the top left of the msetupgui.exe window.

### 3.2.2.2. Using the CLI



TODO

Need to check how to do this...

## 4. Add account mappings



Before doing any of the following, make sure you've read the [User Account Mapping Options](#).

When a user authenticates via Moonshot, their remote identity (their NAI) must be mapped to an existing account on the Windows machine. If the machine is a standalone machine, this should be a local account; if the machine is a member of an AD domain, then it should be a domain account.

### 4.1. Mapping to a local account

#### 4.1.1. Using the GUI

1. In the msetupgui.exe window, click on the "Add User Mapping" button. A dialogue box will appear:



2. Add the following information:

- User - the full NAI of the user (e.g. johnsmith@example.com)
- Account - the name of the local account you wish to map to (e.g. johns).

#### 4.1.2. Using the CLI

1. In a command prompt, issue the following command:

```
C:\Program Files\Moonshot\MSetup.exe /MapUser NAI account
```



#### Example

To map a user with an incoming NAI of "johnsmith@example.com" to a local account of "johns" you would run a command as follows

```
C:\Program Files\Moonshot\MSetup.exe /MapUser johnsmith@example.com johns
```

## 4.2. Mapping to an AD domain account

To map to an AD account, you need to edit that account's attribute called "AltSecurityIdentities". Add a value of "EAP:[NAI]" to map an incoming user to that particular account (e.g., a value of "EAP;johnsmith@example.com" on a domain account of "DOMAIN\johns").



#### TODO

Tidy this last section up and add screenshot