
PROXY SETTINGS IN SPIDA[®] CALC

Upon launching SPIDAcalc, a request is sent to the SPIDA license server at license.spidastudio.com. The request is used to activate licenses and check for any updates to SPIDAcalc client files (engineering libraries) that may need to be downloaded to the user's computer.

By default, this request is made directly to the server URL and will not go through any proxy that may be present on the network. If a proxy is present and all traffic must go through the proxy, the request to the license server may be blocked, preventing the user from activating a license or downloading client files.

After SPIDAcalc is open, requests are made to map.spidastudio.com/tile to load map tiles in the SPIDAcalc map panel. These requests could also be blocked if a proxy is present, in which case the user will see a blank map panel section.

Requests are made to cee.spidastudio.com to authenticate SPIDAcee, as well as to use SPIDAcalc's online analysis feature.

If SPIDADB is configured, requests to the configured SPIDADB URL will also be made.

CONFIGURE NETWORK PROXY SETTINGS

1. Close SPIDAcalc.
2. Navigate to the external.properties file in the user's folder located here:
C:\Users\UserName\AppData\Local\SPIDA

Note: If unable to navigate to the folder above, access *Control Panel > Folder Options > View* tab and enable *Show hidden files, folders, and drives*. Alternatively, users can paste the path above into a folder browser (be sure to set user name) to access the location.

3. Open the external.properties file using Notepad or Wordpad.

Note: Depending on the installed version of SPIDAcalc, the external.properties format may look different than the file listed below. If you are working in an older version, the referenced fields below will be in a slightly different location, but the following steps will still be valid.



```
1 #
2 # (c) 2009-2018 SPIDAWEB LLC
3 #
4
5 #####
6 # #
7 # Network #
8 # #
9 #####
10
11 # Use a proxy (true or false)
12 # default: false
13 # proxy.enabled =
14
15 # Comma-separated list of host names to bypass proxy
16 # default: empty (all hosts are proxied if proxy is enabled)
17 # proxy.disabled.hosts =
18
19 # http or https. All requests to SPIDA services are over https, but we will tunnel them through an http proxy if set
20 # proxy.scheme =
21
22 # Hostname or IP of proxy
23 # proxy.host =
24
25 # Proxy Port Number
26 # proxy.port =
27
28 # whether the proxy requires user authentication (true or false). Basic and
29 # Kerberos authentication is supported. Basic authentication will prompt the
30 # user for credentials. Kerberos authentication will use windows domain
31 # credentials. Any user entered credentials are ignored for Kerberos.
32 # default: false
33 # proxy.authentication.enabled =
34
35 #type of proxy authentication
36 # default: BASIC (can be BASIC or KERBEROS-DOMAIN)
37 # proxy.authentication.type =
38
39 # Timeout in seconds
40 # mapping_server.timeout = 10
41
42 # URL to get license from
43 # launcher_server.address = http://www.spidasoftware.com/SpidaServer
44
45 # Timeout for the license server
```

4. The top section of the external.properties section contains the Network section in which all proxy settings will be configured. By default, the file will resemble the image below. Additional notes are present in the image to provide further instruction.
5. To enable SPIDAcalc to use the proxy settings, remove the # symbol from each of the lines and add in the required settings for the network proxy. The example below assumes that the proxy host is spida.com, the proxy port is 8080, and no user authentication is required (most common setting).

Note: These settings are examples, and are to be replaced with the user's actual proxy setting information.

```
11 # Use a proxy (true or false)
12 # default: false
13 proxy.enabled = true
14
15 # Comma-separated list of host names to bypass proxy
16 # default: empty (all hosts are proxied if proxy is enabled)
17 proxy.disabled.hosts = mylocalmaphost
18
19 # http or https. All requests to SPIDA services are over https, but we will tunnel them through an http proxy if set
20 proxy.scheme = http
21
22 # Hostname or IP of proxy
23 proxy.host = spida.com
24
25 # Proxy Port Number
26 proxy.port = 8080
27
```

6. If authentication is required, it can be enabled. SPIDAcalc supports two types of authentication: basic and Kerberos. If BASIC is selected, the user will be prompted for credentials from within the application. If the user's computer is joined to an Active Directory domain, SPIDAcalc can utilize the user's domain credentials to authenticate a proxy supporting Kerberos. To utilize this



type of authentication, set proxy.authentication.enabled to KERBEROS-DOMAIN. See an example with authentication provided below:

```
11 # Use a proxy (true or false)
12 # default: false
13 proxy.enabled = true
14
15 # Comma-separated list of host names to bypass proxy
16 # default: empty (all hosts are proxied if proxy is enabled)
17 proxy.disabled.hosts = mylocalmaphost
18
19 # http or https. All requests to SPIDA services are over https, but we will tunnel them through an http proxy if set
20 proxy.scheme = http
21
22 # Hostname or IP of proxy
23 proxy.host = spida.com
24
25 # Proxy Port Number
26 proxy.port = 8888
27
28 # whether the proxy requires user authentication (true or false). Basic and
29 # Kerberos authentication is supported. Basic authentication will prompt the
30 # user for credentials. Kerberos authentication will use windows domain
31 # credentials. Any user entered credentials are ignored for Kerberos.
32 # default: false
33 proxy.authentication.enabled = true
34
35 #type of proxy authentication
36 # default: BASIC (can be BASIC or KERBEROS-DOMAIN)
37 proxy.authentication.type = KERBEROS-DOMAIN
```

7. After making the required changes, save and close the file.
8. Launch SPIDAcalc. It will now utilize the updated proxy settings for all requests made to the license server, map server, and SPIDAcee.

NOTES

SPIDAcalc expects the Active Directory domain controller to include a service principal name for the proxy of “HTTP/proxy-host-name”. SPIDAcalc will include an error message of “com.sun.jna.platform.win32.Win32Exception: The specified target is unknown or unreachable” in the logs if the expected service principal name is not found.



QUESTIONS

If you have any further questions, please go to [SPIDA Software's Support Site](#) for additional documentation.

If you can't find what you are looking for, the SPIDA Support Team is here to help. Select the "Submit Ticket" button located in the sidebar of the Support Site.

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