PAT REST APIs

Configuration of HTTPS Access

General

The standard configuration of the PAT REST-APIs uses *http* as a protocol; as they all use user-login for authentication (+ an authorization token in the case of the WebAPI), for access within the company-LAN this should provide enough security.

But when accessing an API from outside the LAN, SSL/TLS-encryption will be desirable, leading to the usage of *https*.

Two of the PAT APIs can be operated on *https*:

- PAT Mobile
- PAT WebAPI

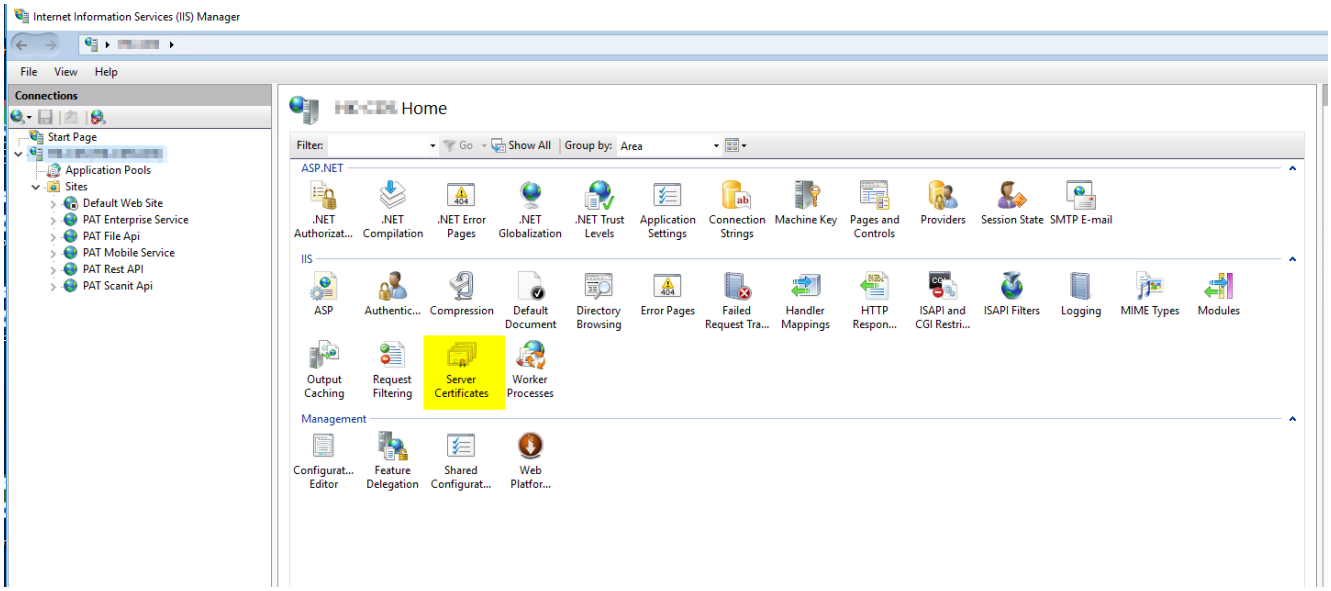
For the other APIs (PAT Enterprise, PAT Scan it, Pat File API), the clients are currently not configured to support *https*. If this is required, please contact CDS.

Install Certificate

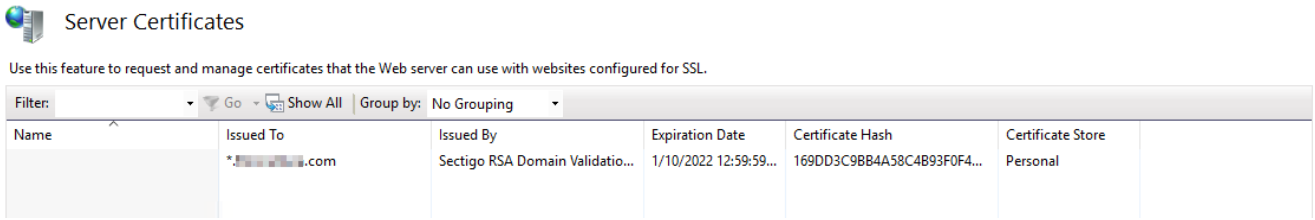
To use SSL/TLS, a valid certificate is needed; the issuing authority will depend on the IT-System of the customer and should be decided and acquired by the respective IT Admin department; most PAT users will already hold a certificate issued for their domain.

Alternatively, there are a number of CA (certification authorities) where the admin can acquire a free domain-certificate, e.g. www.letsencrypt.org; see there for further details and instructions.

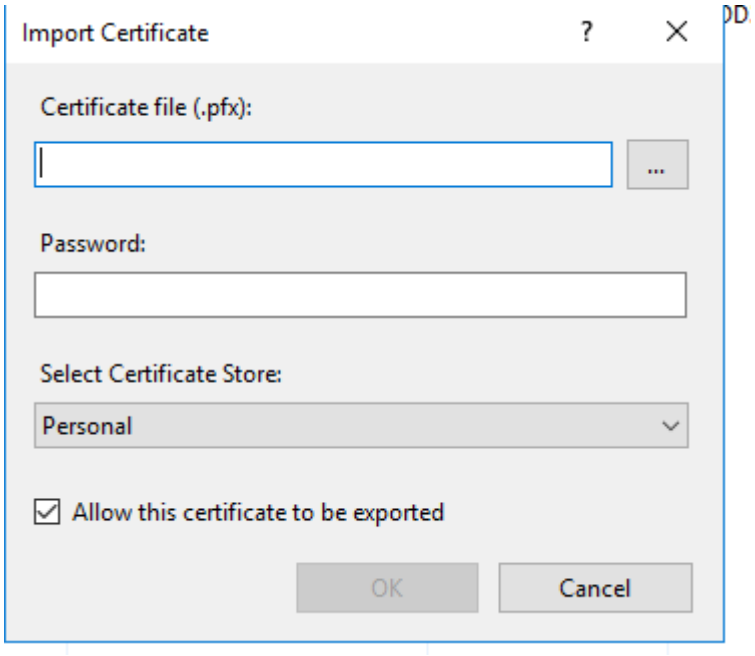
To install the certificate in IIS, open the IIS-Manager start-page and choose option “Server Certificates”:



You will now see a list of installed certificates:

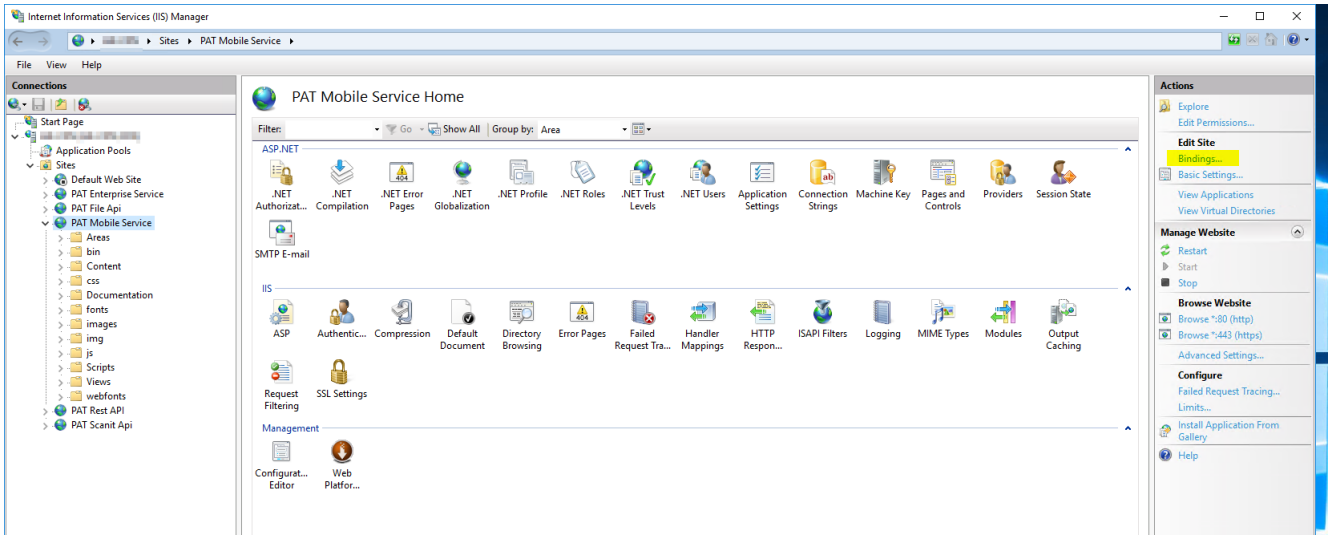


If the certificate does not show up yet, it has to be imported (Actions / Import Certificate…):

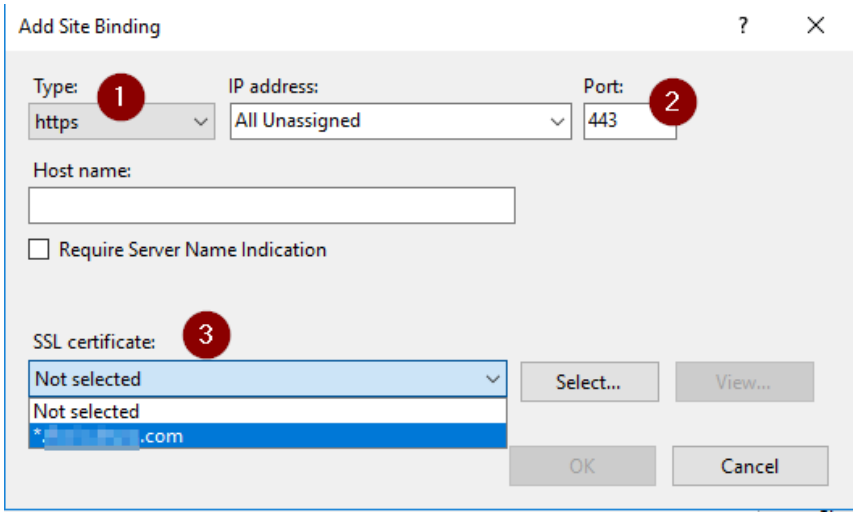


Add HTTPS-Binding

To add *https*-support to a PAT Api, an new binding has to be set up for its Application Pool:



To edit the bindings, either choose Actions/Bindings… on the right or in the local menu of the application pool (right mouse-click) and add a new binding:



Select *https* in (1), choose a port in (2) and select your certificate in (3). 443 is the standard port for *https*, but of course any other available port can be chosen here.

Some versions of IIS show additional configuration-items in this dialog; those can safely be left on their defaults.

Access the API via HTTPS

To access an API over *https*, any modern browser can be used here (Firefox, Edge, Chrome, …). Depending on the chosen browser, you may have to add the certificate to the list of trusted certificates; see documentation of browser.

To choose *https*, prefix the url with *https:*, e.g. https://192.168.1.7 in the address-field of the browser; if the binding was added to port 443, this port is automatically chosen when selecting *https*; if an alternative port has been added for the binding, it has to be specified in the url: e.g. https://192.168.1.7:8081.