

# Licensing the Server

A license is required to use Parasoft SOAtest and Virtualize Server. If you have access to the machine where the WAR is deployed, you can edit the <SOAVIRT\_HOME>/WEB-INF/config.properties file to configure your license settings before launching the server. If you do not have access to the file or are configuring the server as part of an automated process, you can use the REST API set license settings.

The Virtualize module of the server provides communication with Continuous Testing Platform, remote management, and access to the REST API. A Virtualize license is required to access this set of functionalities.

The SOAtest module of the server provides the ability to execute tests. A SOAtest license is required to access this functionality.

At a minimum, you need at least one product license to use the server.

In this section:

- [Using a Machine-locked License](#)
- [Using a License Server License](#)
- [Using a DTP License](#)
- [Setting a License After Starting the Server](#)

## Using a Machine-locked License

Configure the following settings to use a local license:

```
virtualize.license.use_network=false
virtualize.license.local.password=<password sent to you from Parasoft>
virtualize.license.local.expiration=<expiration sent to you from Parasoft>

soatest.license.use_network=false
soatest.license.local.password=<password sent to you from Parasoft>
soatest.license.local.expiration=<expiration sent to you from Parasoft>
```

See [Server Configuration](#) for details on license settings. For advanced configuration, see [Advanced Server Configuration Options](#).

## Using a License Server License

Configure the following settings to use a license from License Server:

```
SOAtest and Virtualize Licenses

license.network.host=<hostname where License Server is deployed>
license.network.port=<port number for your License Server>

virtualize.license.use_network=true
virtualize.license.network.edition=performance_server_edition
virtualize.license.custom_edition_features=<comma-separated list of
features>
virtualize.license.enabled=true

soatest.license.use_network=true
soatest.license.network.edition=server_edition
soatest.license.custom_edition_features=<comma-separated list of features>
soatest.license.enabled=true
```

Contact your Parasoft representative to determine the type of license your organization has purchased (e.g., `server_edition`). If you are using a custom edition, you need to at least specify the `Service Enabled` feature for `Virtualize` and/or the `Server API Enabled` feature for `SOAtest`.

#### License for Virtualize Only

```
license.network.host=<hostname where License Server is deployed>
license.network.port=<port number for your License Server>

virtualize.license.use_network=true
virtualize.license.network.edition=performance_server_edition
virtualize.license.custom_edition_features=<comma-separated list of
features>
virtualize.license.enabled=true

soatest.license.enabled=false
```

#### License for SOAtest Only

```
license.network.host=<hostname where License Server is deployed>
license.network.port=<port number for your License Server>

virtualize.license.enabled=false

soatest.license.use_network=true
soatest.license.network.edition=server_edition
soatest.license.custom_edition_features=<comma-separated list of features>
soatest.license.enabled=true
```

See [Server Configuration](#) for additional information. For advanced configuration, see [Advanced Server Configuration Options](#).

## Using a DTP License

SOAtest and Virtualize Server supports licenses from Parasoft Development Testing Platform. Configure the following settings to use a license from DTP:

```
virtualize.license.use_network=true
soatest.license.user_network=true
dtp.server=<hostname where DTP is deployed>
dtp.port=<port number for your DTP deployment>
dtp.user=<username for account on DTP>
dtp.password=<password for account on DTP>
```

See [Server Configuration](#) for additional information. For advanced configuration, see [Advanced Server Configuration Options](#).

## Setting a License After Starting the Server

You can set the license for the server using the REST API. You can also use the API to configure the connection to CTP (see the `env.manager.* settings` in [Server Configuration](#)).

1. Start the server and go to the endpoint for writing to the .properties file:

http://<host>:<port>/soavirt/api/v5#!/preferences/preferencesPUT\_config

2. Enter your license setting as a JSON object into the input field and click **Try it out!**. The documentation describes the structure of the valid objects. See the [Example Requests](#) for examples that you can copy and paste into the UI. The following example sets a network license:

Response Content Type: application/json

**Parameters**

| Parameter   | Value   | Description           | Parameter Type | Data Type            |
|-------------|---|-----------------------|----------------|----------------------|
| <b>body</b> | <pre>{   "license": {     "licenseServer": {       "host": "snake",       "port": 2002     },     "virtualize": {       "enabled": true,       "useNetwork": true,       "network": {         "edition": "performance_server_edition"       }     },     "soatest": {       "enabled": true,       "useNetwork": true,       "network": {         "edition": "server_edition"       }     }   } }</pre> | The new configuration | body           | Model   Model Schema |

```
"licenseServer": {
  "host": "",
  "port": 0
},
"virtualize": {
  "enabled": false,
  "useNetwork": false,
  "local": {
    "password": "",
    "expiration": 0
  },
  "network": {
    "edition": ""
  }
}
```

Click to set as parameter value

Parameter content type: application/json

**Error Status Codes**

| HTTP Status Code | Reason  |
|------------------|---|
| 200              | Operation completed successfully.   |
| 400              | Bad request. Some parameter or payload is invalid. See the error message for details.                         |
| 401              | You are not authorized to use this API. Please provide a valid user name and password at the top of the page. |
| 403              | Server lacks the appropriate license. API usage is forbidden.   |
| 404              | The requested item could not be found.  |
| 500              | Internal server error. See the error message for details.   |

Try it out! Hide Response

3. If the license is valid and the parameters are set correctly, the API will return the appropriate response.

**Request URL**

http://localhost:8080/soavirt/api/v5/preferences/config

**Response Body**

```
{
  "license": {
    "licenseServer": {
      "host": "snake",
      "port": 2002
    },
    "virtualize": {
      "enabled": true,
      "useNetwork": true,
      "network": {
        "edition": "performance_server_edition"
      }
    },
    "soatest": {
      "enabled": true,
      "useNetwork": true,
      "network": {
        "edition": "server_edition"
      }
    }
  }
}
```

**Response Code**

200

**Response Headers**

```
{
  "Access-Control-Allow-Headers": "Content-Type, Accept, Authorization",
  "Access-Control-Allow-Methods": "GET, POST, PUT, DELETE, OPTIONS",
  "Access-Control-Allow-Origin": "*",
  "Content-Encoding": "gzip",
  "Content-Length": "145",
  "Content-Type": "application/json",
  "Date": "Fri, 02 Feb 2018 20:01:40 GMT",
  "Vary": "Accept-Encoding"
}
```

4. Call the following endpoint by clicking the **Try it out!** button to verify the license has been set successfully:

```
http://<host>:<port>/soavirt/api#!/status/statusGET
```

This will show information about the server host and the state of each license feature.

## Example Requests

You can copy and paste the following JSON examples into your REST API endpoint to help you get started. Change the host, port, and any feature settings to match your license.

### Network License Using License Server - Virtualize and SOAtest

```
{
  "license": {
    "licenseServer": {
      "host": "<your-LS-host>",
      "port": <your-LS-port>
    },
    "virtualize": {
      "enabled": true,
      "useNetwork": true,
      "network": {
        "edition": "performance_server_edition"
      }
    },
    "soatest": {
      "enabled": true,
      "useNetwork": true,
      "network": {
        "edition": "server_edition"
      }
    }
  }
}
```

### Network License Using License Server - Virtualize and SOAtest - Custom Features

```
{
  "license": {
    "licenseServer": {
      "host": "<your-LS-host>",
      "port": <your-LS-port>
    },
    "virtualize": {
      "enabled": true,
      "useNetwork": true,
      "network": {
        "edition": "custom_edition",
        "customFeatures": [
          "<comma-separated-list-of-features>"
        ]
      }
    }
  }
}
```

```

    },
    "soatest": {
      "enabled": true,
      "useNetwork": true,
      "network": {
        "edition": "custom_edition",
        "customFeatures": [
          "<comma-separated-list-of-features>"
        ]
      }
    }
  }
}

```

### Network License Using DTP - Virtualize Only

```

{
  "license": {
    "dtp": {
      "host": "<your-DTP-host>",
      "port": <your-DTP-port>,
      "username": "<your-DTP-username>",
      "password": "<your-DTP-password>"
    },
    "virtualize": {
      "enabled": true,
      "useNetwork": true,
      "network": {
        "edition": "performance_server_edition"
      }
    }
  }
}

```

### Network License Using DTP - Virtualize and SOAtest

```

{
  "license": {
    "dtp": {
      "host": "<your-DTP-host>",
      "port": <your-DTP-port>,
      "username": "<your-DTP-username>",
      "password": "<your-DTP-password>"
    },
    "virtualize": {
      "enabled": true,
      "useNetwork": true,
      "network": {
        "edition": "performance_server_edition"
      }
    }
  }
}

```

```
    }  
  },  
  "soatest": {  
    "enabled": true,  
    "useNetwork": true,  
    "network": {  
      "edition": "server_edition"  
    }  
  }  
}
```