

Retrieving status of callas License Server using REST interface


The license server is listening on to two ports: the first one for license requests, already described in one of the previous [articles](#).

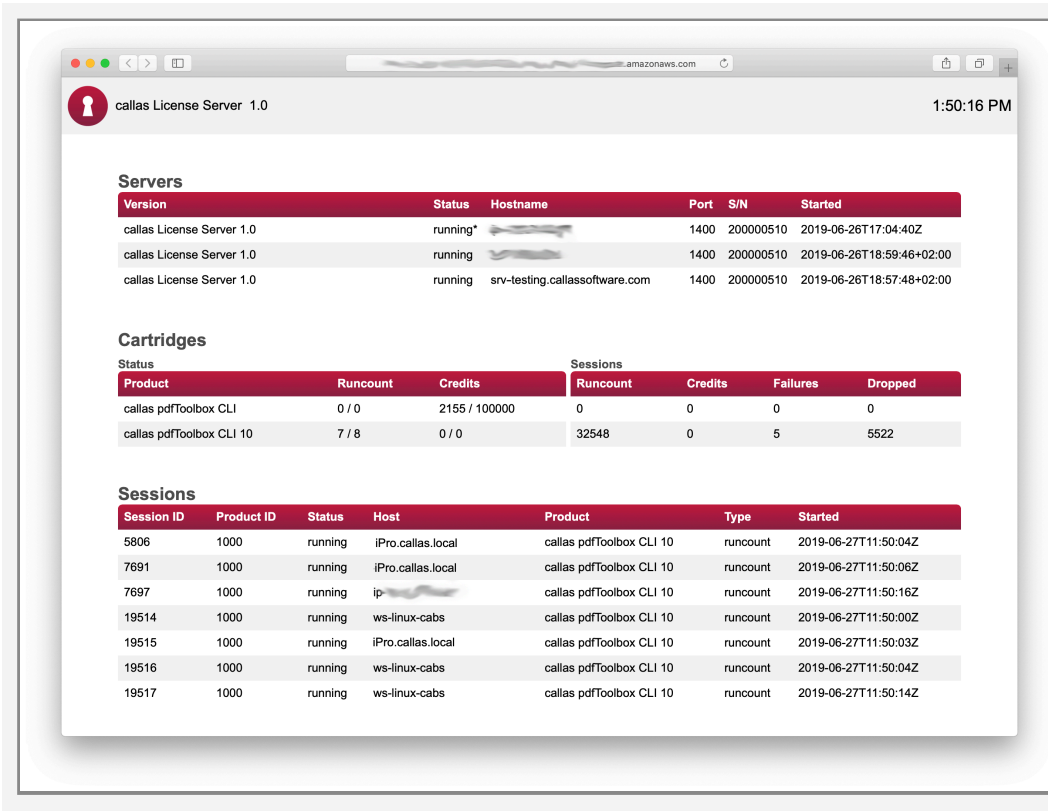
The second port is used for the REST interface. The default port for this purpose is 1401 it can be changed by using the `--api-port` option. If no `--api-port` option is given and the main port was set using the `--port` option the license server uses the next port (`--port +1`) for the API port.

The license server provides one REST interface that provides information about the current status of the license server, the cartridges, the failover network and information about running sessions.

The license server provides an HTML status page that uses the `/status/data.json` interface internally:

```
<HOSTNAME>:<API_PORT>/status/index.html
```

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The screenshot shows the callas License Server 1.0 web interface. It features three main sections: Servers, Cartridges, and Sessions. The Servers section displays a table with columns: Version, Status, Hostname, Port, S/N, and Started. The Cartridges section has a table with columns: Product, Runcount, Credits, Sessions (Runcount, Credits, Failures, Dropped). The Sessions section displays a table with columns: Session ID, Product ID, Status, Host, Product, Type, and Started.


Servers						
Version	Status	Hostname	Port	S/N	Started	
callas License Server 1.0	running*	[REDACTED]	1400	200000510	2019-06-26T17:04:40Z	
callas License Server 1.0	running	[REDACTED]	1400	200000510	2019-06-26T18:59:46+02:00	
callas License Server 1.0	running	srv-testing.callassoftware.com	1400	200000510	2019-06-26T18:57:48+02:00	

Cartridges				Sessions			
Product	Runcount	Credits		Runcount	Credits	Failures	Dropped
callas pdfToolbox CLI	0 / 0	2155 / 100000		0	0	0	0
callas pdfToolbox CLI 10	7 / 8	0 / 0		32548	0	5	5522

Sessions						
Session ID	Product ID	Status	Host	Product	Type	Started
5806	1000	running	iPro.callas.local	callas pdfToolbox CLI 10	runcount	2019-06-27T11:50:04Z
7691	1000	running	iPro.callas.local	callas pdfToolbox CLI 10	runcount	2019-06-27T11:50:06Z
7697	1000	running	ip-[REDACTED]	callas pdfToolbox CLI 10	runcount	2019-06-27T11:50:16Z
19514	1000	running	ws-linux-cabs	callas pdfToolbox CLI 10	runcount	2019-06-27T11:50:00Z
19515	1000	running	iPro.callas.local	callas pdfToolbox CLI 10	runcount	2019-06-27T11:50:03Z
19516	1000	running	ws-linux-cabs	callas pdfToolbox CLI 10	runcount	2019-06-27T11:50:04Z
19517	1000	running	ws-linux-cabs	callas pdfToolbox CLI 10	runcount	2019-06-27T11:50:14Z

Internally used JSON interface:

```
<HOSTNAME>:<API_PORT>/status/data.json
```

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Example:

```
{
  "cartridges": [
    {
      "product_id": 1000,
      "major_version": 0,
      "product": "callas pdfToolbox CLI",
      "runcount": 0,
      "credits": 100000,
      "postpay": false,
      "statistic": {
        "licenses": {
          "runcount": 0,
          "credits": 0,
          "failed": 0
        }
      }
    },
  ],
}
```

```
        "used_credits": 2155,
        "remaining_credits": 97845,
        "runcount_in_use": 0,
        "sessions_dropped": 0
    },
    "locations": []
},
{
    "product_id": 1000,
    "major_version": 10,
    "product": "callas pdfToolbox CLI",
    "runcount": 8,
    "credits": 0,
    "postpay": false,
    "statistic": {
        "licenses": {
            "runcount": 32398,
            "credits": 0,
            "failed": 5
        },
        "used_credits": 0,
        "remaining_credits": 0,
        "runcount_in_use": 3,
        "sessions_dropped": 5490
    },
    "locations": [
        {
            "server_id":
"FAB348C4CD3C14E974730F83A0BFE4705428A9683880C967C9F2134",
            "serial_number": 200000512,
            "runcount": 8,
            "credits": 0,
            "postpay": false
        },
        {
            "server_id":
"FAB348C4CD3C14E974730F83A0BFE4705428A9683880C967C9F2134",
            "serial_number": 200000556,
            "runcount": 0,
            "credits": 100000,
            "postpay": false
        }
    ]
}
```


```
    }
  ],
  "sessions": [
    {
      "server_id": "6FC347863C741C475FB3511AF0B9452FA1011F4ADDED5BE7322405",
      "session_id": 7603,
      "status": "finished",
      "host": "ip-172-31-xx-xx",
      "ip_address": "52.59.xxx.xxx",
      "started": "2019-06-27T11:48:08Z",
      "message": "hello AWS world",
      "licenses": []
    },
    {
      "server_id": "FAB348C4CD3C14E974730F83A0BFE4705428A9683880C967C9F2134",
      "session_id": 19472,
      "status": "running",
      "host": "ws-linux-cabs",
      "ip_address": "90.187.xx.xx",
      "started": "2019-06-27T11:48:02Z",
      "message": "",
      "licenses": [
        {
          "product_id": 1000,
          "major_version": 10,
          "product": "callas pdfToolbox CLI",
          "type": "runcount"
        }
      ]
    },
    {
      "server_id": "FAB348C4CD3C14E974730F83A0BFE4705428A9683880C967C9F2134",
      "session_id": 19473,
      "status": "running",
      "host": "ws-linux-cabs",
      "ip_address": "90.187.xx.xx",
      "started": "2019-06-27T11:48:02Z",
      "message": "",
      "licenses": [
        {
          "product_id": 1000,
          "major_version": 10,
          "product": "callas pdfToolbox CLI",
```

```

        "type": "runcount"
      }
    ]
  },
  {
    "server_id": "FAB348C4CD3C14E974730F83A0BFE4705428A9683880C967C9F2134",
    "session_id": 19477,
    "status": "running",
    "host": "ws-linux-cabs",
    "ip_address": "90.187.xx.xx",
    "started": "2019-06-27T11:48:07Z",
    "message": "",
    "licenses": [
      {
        "product_id": 1000,
        "major_version": 10,
        "product": "callas pdfToolbox CLI",
        "type": "runcount"
      }
    ]
  },
  {
    "server_id": "FAB348C4CD3C14E974730F83A0BFE4705428A9683880C967C9F2134",
    "session_id": 19478,
    "status": "running",
    "host": "iPro.callas.local",
    "ip_address": "90.187.xx.xx",
    "started": "2019-06-27T11:48:09Z",
    "message": "",
    "licenses": []
  }
],
"servers": [
  {
    "server_id": "FAB348C4CD3C14E974730F83A0BFE4705428A9683880C967C9F2134",
    "status": "running",
    "serial_number": "200000510",
    "version": "1.0.7",
    "hostname": "ip-172-31-xx-xx",
    "ip_address": "172.31.xx.xx",
    "port": 1400,
    "platform": "Ubuntu 18.04.2 LTS Linux x86_64 4.15.0-1040-aws",
    "started": "2019-06-26T17:04:40Z",

```

```
    "coordinator":
    "FAB348C4CD3C14E974730F83A0BFE4705428A9683880C967C9F2134"
  },
  {
    "server_id": "2FE184D50FA29586ECF93185526FDC38CB40004FD464412A8FFDBFD",
    "status": "running",
    "serial_number": "200000510",
    "version": "1.0.7",
    "hostname": "213.160.xx.xx",
    "ip_address": "213.160.xx.xx",
    "port": 1400,
    "platform": "Linux Mint 19 Tara x86_64 4.15.0-20-generic",
    "started": "2019-06-26T18:59:46+02:00"
  },
  {
    "server_id": "6FC347863C741C475FB3511AF0B9452FA1011F4ADDED5BE7322405",
    "status": "running",
    "serial_number": "200000510",
    "version": "1.0.7",
    "hostname": "srv-testing.callassoftware.com",
    "ip_address": "213.160.xx.xx",
    "port": 1400,
    "platform": "Debian GNU/Linux 9.9 stretch x86_64 4.9.0-9-amd64",
    "started": "2019-06-26T18:57:48+02:00"
  }
]
```

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In case you find any problems in retrieving the status, please write to us at support@callassoftware.com

You can also watch a short video about REST interface below: