Ports ([Video](#))

The following ports have to be opened respectively in each component machine.
If the component resides in the same machine, no need to open ports in firewall.

OpenLM TCP ports configuration

Component Machine	Inbound	Outbound	Comment
OpenLM Server	5015		
		5000	In case Identity Service is used
		7026	In case DSS is used
		5005	In case ServiceNow (External Platform Service) is used
		1433 (MSSQL) 3306 (MySQL/Maria)	According to the DB used and the port it is using
IdentityService	5000		
		5015	Server
		7026	If DSS should be configured
		8888	If ReportScheduler should be configured.
		443	In case External Providers are required
DSS	7026		
		5015	Server
		5000	In case Identity Service is used
EUS	53555		Websockets with Agents
		5000	Identity (in case it's used)
		5015	Server
ServiceNow	5005		

(External Platform\Pe ntaho)		5015	Server
		443	Https ServiceNow instance
		1433 (MSSQL) 3306 (MySQL/Maria)	Of OpenLM DB
Applications Manager	27080		
		5015	API for vendor filtering and security
		5000	Identity (in case it's used)
Reports Scheduler	8888		
		5015	API for email settings and user emails
		5000	Identity
Broker	5090		Optional. Configuration time only
		5015	Server
		5000	Identity (in case it's used)
Agent		53555	End-User Services
		27080	App Manager (in case it's used)
		5015	Server
		5000	Identity (in case it's used)
DSA **(8081: For hosting only)**			
		7026	DSS
		5000	Identity (in case it's used)
		Directories ports	According to the directory scanned
External DB	DB port		

On the servers holding monitored license manager software, port 5015 should be opened. Please ensure these ports do not conflict with existing application ports. If the port is already occupied, OpenLM software will not work, due to port conflicts.

```
C:\WINDOWS\system32>netstat -ano

Active Connections

  Proto  Local Address          Foreign Address        State           PID
  TCP    0.0.0.0:135            0.0.0.0:0              LISTENING       492
  TCP    0.0.0.0:445            0.0.0.0:0              LISTENING       4
  TCP    0.0.0.0:3306           0.0.0.0:0              LISTENING       4872
  TCP    0.0.0.0:3389           0.0.0.0:0              LISTENING       1148
  TCP    0.0.0.0:5040           0.0.0.0:0              LISTENING       3444
  TCP    0.0.0.0:7680           0.0.0.0:0              LISTENING       4736
  TCP    0.0.0.0:49664          0.0.0.0:0              LISTENING       812
  TCP    0.0.0.0:49665          0.0.0.0:0              LISTENING       644
  TCP    0.0.0.0:49666          0.0.0.0:0              LISTENING       1388
  TCP    0.0.0.0:49667          0.0.0.0:0              LISTENING       1596
  TCP    0.0.0.0:49669          0.0.0.0:0              LISTENING       2688
  TCP    0.0.0.0:49670          0.0.0.0:0              LISTENING       2416
  TCP    0.0.0.0:49672          0.0.0.0:0              LISTENING       812
  TCP    0.0.0.0:49679          0.0.0.0:0              LISTENING       784
  TCP    0.0.0.0:49709          0.0.0.0:0              LISTENING       5004
  TCP    10.0.0.163:139         0.0.0.0:0              LISTENING       4
```

fumichikay@linux-fumi:~

```
login as: fumichikay
Activate the web console with: systemctl enable --now cockpit.socket

Last login: Thu Dec  2 07:06:50 2021 from 10.10.100.103
[fumichikay@linux-fumi ~ $ ss -atn
State      Recv-Q Send-Q    Local Address:Port         Peer Address:Port
Process
LISTEN     0      128          0.0.0.0:111              0.0.0.0:*

LISTEN     0      128          0.0.0.0:53555            0.0.0.0:*

LISTEN     0      32       192.168.122.1:53             0.0.0.0:*

LISTEN     0      2        127.0.0.1:3350               0.0.0.0:*

LISTEN     0      128          0.0.0.0:22               0.0.0.0:*

LISTEN     0      5        127.0.0.1:631                0.0.0.0:*

LISTEN     0      2            0.0.0.0:3389             0.0.0.0:*

TIME-WAIT  0      0         10.0.0.88:48562             10.0.0.244:445

TIME-WAIT  0      0         10.0.0.88:54080             10.0.0.244:88

ESTAB      0      0        127.0.0.1:44880              127.0.0.1:5015

TIME-WAIT  0      0         10.0.0.88:48544             10.0.0.244:445

ESTAB      0      0         10.0.0.88:44772             10.0.0.194:3306

TIME-WAIT  0      0         10.0.0.88:54092             10.0.0.244:88

TIME-WAIT  0      0         10.0.0.88:54090             10.0.0.244:88

ESTAB      0      0         10.0.0.88:52310             10.0.0.244:389

ESTAB      0      0        127.0.0.1:41066              127.0.0.1:5000
```