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RLM Server Issue on MacOS

2024-07-08 - [Comments \(0\)](#) - [Setup / update](#)

Running an rlm server on MacOS can have some unexpected side effects. This article shows how to spot them, what the cause is and how to fix them. This current affects rlm server versions 14.1 and 15.0.

Symptoms

TRACE32 is unable to check out a license. The **AREA** window shows:

Warning: No license available [0x0011]

When launching the rlm server, the terminal window shows the message (No ISV servers to start), highlighted in the screenshot below.

```
x64_m1.admin — rlm — 80x24
[richard@Richards-iMac x64_m1.admin %
[richard@Richards-iMac x64_m1.admin % ./rlm
01/26 15:07 (rlm)
01/26 15:07 (rlm) WARNING: No license file for this host (Richards-iMac.local)
01/26 15:07 (rlm)           The hostname in the license file(s)
01/26 15:07 (rlm)           may be incorrect
01/26 15:07 (rlm)
01/26 15:07 (rlm) License files:
01/26 15:07 (rlm)     lauterbach-38f9d311c876.lic
01/26 15:07 (rlm)
01/26 15:07 (rlm) RLM License Server Version 14.1BL3

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01/26 15:07 (rlm) License server started on Richards-iMac.local
01/26 15:07 (rlm) Server architecture: x64_m1
01/26 15:07 (rlm) License files:
01/26 15:07 (rlm)     lauterbach-38f9d311c876.lic
01/26 15:07 (rlm)
01/26 15:07 (rlm) Web server starting on port 5054
01/26 15:07 (rlm) Using TCP/IP port 5053
01/26 15:07 (rlm) ... adding UDP/IP port 5053
01/26 15:07 (rlm) (No ISV servers to start)
```

Opening a **LICENSE.List** window will show the error that TRACE32 is unable to communicate with the server, however, the server is running, and the user can access the web page by browsing to <http://localhost:5054>



Any instance of TRACE32 launched on another machine on the network will show the same errors and symptoms.

The rlm web server **status** page will show that no ISV servers are running.

Reprise License Server Administration
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Status for "rlm" on Richards-iMac.local (port 5053)

RLM software version	v14.1 (build:3)
RLM comm version	v1.2
debug log file	_stdout_
license files	lauterbach-38f9d311c876.lic

rlm Statistics	Since Start	Since Midnight	Recent
Start time	01/26 15:07:34	01/26 15:07:34	01/26 15:07:34
Messages	2 (0/sec)	2 (0/sec)	2 (0/sec)
Connections	2 (0/sec)	2 (0/sec)	2 (0/sec)


SHOW rlm Debug Log

No ISV servers running

Looking at the rlm web server System Info page may show what appears to be two instances of rlm running. Yet examining the task manager or running

ps -eaf | grep rlm

in another terminal will show only one instance is active.



Logins disabled

RLM Administration Commands

Choose a command from the list below

Status

Shutdown

Reread/Restart Servers

Switch Reportlog

New Reportlog

Switch Debuglog

Diagnostics

RLM Manual...

System Info

About...

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RLM Info for System: *Richards-iMac.local*

Platform type

x64_m1

RLM Version

v14.1BL3

Hostids

32-bit: 0

Ethernet: 38f9d311c876 28ec950687c9 38f9d3d38200 8223eb012001 8223eb012000

IP Address: ip=192.168.0.9 ip=192.168.0.10 ip=192.168.96.1 ip=172.16.112.1

RLM processes running on this machine (in the last 24 hours)

RLM Version: v14.1BL3

Command: ./rlm

Working Directory: /Users/richard/rlm/x64_m1.admin

PID: 20864

Main TCP/IP port: 5053

Web interface TCP/IP port: 5054

[this instance of rlm]

RLM Version: v14.1BL3

Command: ./rlm

Working Directory: /Users/richard/rlm/x64_m1.admin

PID: 20546

Main TCP/IP port: 5055

Web interface TCP/IP port: 5054

Alternate TCP/IP port(s): 5053

ISV servers: lauterbach

Likely Cause

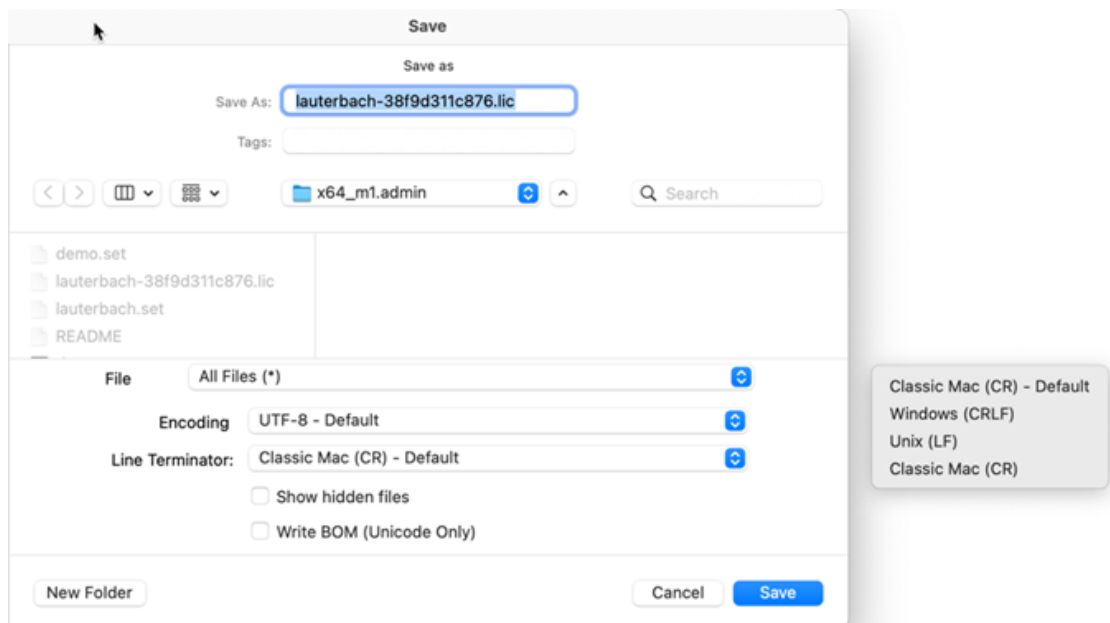
The rlm server does not recognize the default MacOS line termination character (CR, ASCII 0x13 or <CTRL>+M). Since the user must edit their license file to insert their host name and IP ports, it is likely they will have used a text editor which will have saved the file using this default format. This can be verified by opening the license file with vi.

```
richard — vi rlm/x64_m1.admin/lautebach-38f9d311c876.lic — 80x24
# HOST [rlmservr] 38f9d311c876 [port]^MHOST Richards-iMac.local 38f9d311c876 50
55^MISV lautebach binary=lautebach port=5056^MLICENSE lautebach t32.integrati
on.pil 2021.10 31-oct-2021 token_locked ^M token="<t32.l20100006123.maint 202
1.10 1>" sig="60Q04580KW7A7QJXSG^M HEQE8EEAG94DKE5BESASRE08AG15Y0PHTW3XKDDCY
PJ1GETPYWJE70XJ4T"^MLICENSE lautebach t32.l20100006123.maint 2021.10 31-oct-202
1 1^M issued=29-oct-2020 replace sig="60P0453H3WEYS6QB6T^M C4XNSQCUMM4NX9S
0XJ3YR22GGR43D5R2V0B2C3F1QKDBUXXM9P867MGG"^MLICENSE lautebach t32.simulator.arm
2022.06 permanent token_locked ^M token="<t32.l21060006715.maint 2022.06 1>"
sig="60P045062C2QM4CARK^M W954PJBY6X88BSJKTAPRG22HEYEPSY1Q914FEE1F6C87AC6RCR
P1VF28"^MLICENSE lautebach t32.l21060006715.maint 2022.06 permanent 1^M issu
ed=08-jun-2021 replace sig="60P045188F0K0D7VGV^M FK9X521BTF2T8FKP9MTRR22HEPER
6X0600CCU6S4SRUJ9HGC8B1PTM48"^MLICENSE lautebach t32.simulator.tricore 2022.06
permanent token_locked ^M token="<t32.l21060006716.maint 2022.06 1>" sig="60P
G4580JE10H1572D^M U3DQCB4GF50PJ98QJ5ND5X08A1PBXN9UH0FVUF8QT58BE8706UGRS2E7NG"
^MLICENSE lautebach t32.l21060006716.maint 2022.06 permanent 1^M issued=08-j
un-2021 replace sig="60Q04580M4XYMWSWJA^M YS9VHSS1306MNP6W9R3Y508AG11CVFV7FF
M6W3JPSQ3QW73R817XX752EV"^MLICENSE lautebach t32.simulator.powerpc 2022.06 perm
anent token_locked ^M token="<t32.l21060006717.maint 2022.06 1>" sig="60PG458
0HWJH1908BK^M BJBR50R96U46Y0G31BTP3Q08A32BTQNBKFBNGNMGG1FGCAPQ8V2HCPMB0"^MLI
CENSE lautebach t32.l21060006717.maint 2022.06 permanent 1^M issued=08-jun-2
021 replace sig="60PG452EP0KCD42Y0K^M 7VX20E9PNYACTWPC3AAFR22M0ACGXAJWCY36M1F
T8NCE43UTBQBFCHTY0G"^MLICENSE lautebach t32.multicore.all 2022.06 permanent tok
en_locked ^M token="<t32.l21060006718.maint 2022.06 1>" sig="60PG453NSUC46KB4
"rlm/x64_m1.admin/lautebach-38f9d311c876.lic" [noel] 1L, 2444B
```


Note in the image that the ^M line termination characters can clearly be seen marked in blue.

How to Fix This

Open the license file in an editor which can change the line termination character and select either Windows (CRLF) or Unix/Linux (LF) and save the file, replacing the existing one.



Then either re-start the rlm server or in the rlm servers web management site, select **Reread/Restart** Servers and click the "REREAD/RESTART" button.

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RLM
Administration
Commands

Choose a command
from the list below

Status

Shutdown

Reread/Restart Servers

Switch Reportlog

New Reportlog

Switch Debuglog

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Reread/Restart Servers

If *ISV* is specified as "all" or blank, all ISV servers will reread licenses

ISV:

REREAD/RESTART

The status page will change to show the new ISV server and the statistics for it. TRACE32 will now be able to check out any valid licenses.



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Logins disabled

RLM Administration Commands

Choose a command from the list below

- Status**
- Shutdown
- Reread/Restart Servers
- Switch Reporting
- New Reporting
- Switch Debuglog
- Diagnostics
- RLM Manual...
- System Info
- About...

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Messages	6 (0/sec)	6 (0/sec)	6 (0/sec)
Connections	4 (0/sec)	4 (0/sec)	4 (0/sec)

SHOW rlm Debug Log

ISV Servers										
Name	port	Running	Restarts	Server Status	License Usage	Debug Log	REREAD	TRANSFER	SHUTDOWN	
lauterbach	5056	Yes	0	lauterbach	lauterbach	lauterbach	lauterbach	lauterbach	lauterbach	

