

```
#contentWrapper #fs, #sidebarContent #fs, #contentWrapper div [id * = 'myExtraContent'], #sidebarContent
div [id * = 'myExtraContent'] {display: block;}
```

Kermith's workshop (https://translate.googleusercontent.com/translate_c?depth=1&hl=en&prev=search&pto=aue&rurl=translate.google)

The other way to see supervision ...

Secure your flows



Sending data over the network is good. But when we start to take a closer look, we notice that the data appears in clear in the frames. Only one way to add a little confidentiality: encryption. We will use the same routine from the LiveCode-Clapi project article in the Preferences chapter.

Analysis of a UDP frame

To analyze a UDP frame from our previous program, I use the excellent Wireshark sniffer. The filter of the sniffer will be positioned on port 9997 of UDP frames.

Wireshark 1.10.0 (SVN Rev 49790 from /trunk-1.10)

Filter: udp.port == 9997

No.	Time	Source	Destination	Protocol	Length	Info
3	0.00020800	172.16.209.1	172.16.209.184	UDP	60	Source port: 59264 Destination port: palace-6
341	1389.04585	172.16.209.1	172.16.209.184	UDP	60	Source port: 64487 Destination port: palace-6
537	1699.73059	172.16.209.187	172.16.209.184	UDP	60	Source port: omnivision Destination port: palace-6

Internet Protocol Version 4, Src: 172.16.209.1 (172.16.209.1), Dst: 172.16.209.184 (172.16.209.184)

User Datagram Protocol, Src Port: 59264 (59264), Dst Port: palace-6 (9997)

Source port: 59264 (59264)

Destination port: palace-6 (9997)

Length: 13

Checksum: 0xb495 [validation disabled]

[Good checksum: False]

[Bad checksum: False]

Data (5 bytes)

Data: 6573736169 [Length: 5]

Les données sont affichées en clair.

protocole UDP

0000 00 0c 29 37 8b 65 00 50 56 c0 00 08 08 00 45 00E.

0010 00 21 6e 8a 00 00 40 11 11 67 ac 10 d1 01 ac 10n...e...d...

0020 d1 b8 e7 80 27 0d 0d 0d b4 95 65 73 73 61 69 00essai

0030 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00

Analysis of a UDP frame

As we can see, the data travels in clear in the frame. If your application uses sensitive data, we need to find a solution to secure it. One solution, the encryption that we will discover below.

Data encryption

We will use the two functions ReturnCrypte and ReturnDecrypte described in the Preferences article of the LiveCode-Clapi Project. We will modify two lines of the client and server program. Drop these two functions into each stack.

Customer program

We will use the encryption function to send the data. – **it sends the message without acknowledgment of receipt** write ReturnCrypte (eld "txtMessage") to socket ipDest

Server program

We will use the decryption function after recovering the data. – **display of UDP message dialog box received answer** pSocket & cr & ReturnDecrypte (pMsg) Attention: do not put an accented character in the key if you are using different OS.

Verification of data encryption.

Filter: `udp.port == 9997` Expression... Clear Apply Save

No.	Time	Source	Destination	Protocol	Length	Info
33	89.8992890	172.16.209.1	172.16.209.184	UDP	78	Source port: 60164 Destination port: palace-6

Frame 33: 78 bytes on wire (624 bits), 78 bytes captured (624 bits) on interface 0

- Ethernet II, Src: vmware_c0:00:08 (00:50:56:c0:00:08), Dst: Vmware_37:8b:65 (00:0c:29:37:8b:65)
- Internet Protocol Version 4, Src: 172.16.209.1 (172.16.209.1), Dst: 172.16.209.184 (172.16.209.184)
- User Datagram Protocol, Src Port: 60164 (60164), Dst Port: palace-6 (9997)
 - Source port: 60164 (60164)
 - Destination port: palace-6 (9997)
 - Length: 44
 - Checksum: 0xcf0d [validation disabled]
 - [Good checksum: False]
 - [Bad checksum: False]
 - Data (36 bytes)
 - Data: 4d44484c335736375a7a5462493534694c5a356962456a74...
 - [Length: 36]

Les données sont cryptées

```

0000  00 0c 29 37 8b 65 00 50 56 c0 00 08 08 00 45 00  ..)7.e.P V....E.
0010  00 40 6f d9 00 00 40 11 0f f9 ac 10 d1 01 ac 10  @...@
0020  d1 b8 eb 04 27 0d 00 2c cf 0d 4d 44 48 4c 33 57  .......MDHL3W
0030  36 37 5a 7a 54 62 49 35 34 69 4c 5a 35 69 62 45  6/2ZzTbI5 4tL251be
0040  6a 74 31 42 63 7a 2f 70 63 78 32 79 4f 65      jt1Bcz/p cx2yoe
  
```

UDP data encryption

This solution can be easily implemented for TCP frames.

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