

# Understanding the show lane client Command Output

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## Introduction

### Prerequisites

- Requirements

- Components Used

- Conventions

### show lane client Command

- Output and Analysis

### Related Information

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## Introduction

The **show lane client** command is the most important command for LANE troubleshooting. This document contains descriptions of the most important output fields of this command.

## Prerequisites

### Requirements

There are no specific requirements for this document.

### Components Used

This document is not restricted to specific software and hardware versions.

### Conventions

Refer to Cisco Technical Tips Conventions for more information on document conventions.

## show lane client Command

Briefly, the command reference describes the **show lane client** command as *"To display detailed LANE information for all the LANE clients configured on an interface or any of its subinterfaces, on a specified subinterface, or on an emulated LAN."*

This description, though correct, hides the importance of this command.

## Output and Analysis

This section provides the **show lane client** command output and a line-by-line analysis.

```
Gambrinus#show lane client
LE Client ATM2/0/0  ELAN name: default Admin:up State:operational
Client ID: 2                LEC up for 15 minutes 39 seconds
```

```

ELAN ID: 1
Join Attempt: 691
Last Fail Reason: Control Direct VC being released
HW Address: 0060.4750.8402   Type: ethernet           Max Frame Size: 1516
ATM Address: 47.009181000000006047508401.006047508402.00
VCD  rxFrames  txFrames  Type      ATM Address
0    0          0         configure 47.009181000000006047508401.006047508405.00
256  1          10        direct   47.009181000000006047508401.000000000002.01
257  476         0         distribute 47.009181000000006047508401.000000000002.01
258  0          56        send     47.009181000000006047508401.000000000003.01
259  2          0         forward  47.009181000000006047508401.000000000003.01
263  1          18        data     47.009181000000006047508401.006047508402.00
262  18         1         data     47.009181000000006047508401.006047508402.00

1. LE Client ATM2/0/0  ELAN name: default  Admin: up  State: operational

```

You can see that the client is up, operational. This is the correct state:

```

2. Client ID: 2           LEC up for 15 minutes 39 seconds

```

The only thing to keep in mind here is that the LAN Emulation Client (LEC) is up for only 15 minutes. Is this normal? Was there a maintenance 15 minutes ago?

```

3. Join Attempt: 691

```

Although high, this should not be a cause for concern. It does not necessarily indicate that the LEC went down 691 times. Perhaps the LECs were unreachable for a long period of time.

```

4. Last Fail Reason: Control Direct VC being released

```

This important field indicates that the last reason the LEC cannot reach the up, operational state was because it cannot reach the LAN Emulation Server (LES).

```

5. ATM Address: 47.009181000000006047508401.006047508402.0

```

This is only interesting when you check the **show lane client** command output of other LECs, which can be located at the remote side of a data direct.

```

6. 0          0          0  configure 47.009181000000006047508401.006047508405.00

```

This line gives detail on the connection to the LECs. This Virtual Channel Connection (VCC) is called the configure direct, as the Type field suggests. The VCC is 0, because the connection is torn down according to the specification.

```

7. 256         1          10  direct   47.009181000000006047508401.000000000002.01

```

This line gives detail on the connection to the LES. This VCC is called the control direct, as suggested by the Type field.

```

8. 257         476         0  distribute 47.009181000000006047508401.000000000002.01

```

This line gives detail on the connection from the LES to all LECs. It is called the control distribute. You can see that the LES address is identical for the control direct and control distribute, as it should be.

```

9. 258         0          56  send     47.009181000000006047508401.000000000003.01

```

This line gives detail on the connection to the Broadcast and Unknown Server (BUS). It is called multicast send, as the Type field suggests.

```
10. 259          2          0 forward  47.009181000000006047508401.000000000003.01
```

This line gives detail on the connection from the BUS to all LECs. It is called multicast forward. You can see that the BUS address is the same for the multicast send and multicast forward.

```
11. 263          1          18 data    47.009181000000006047508401.006047508402.00
```

The lines that remain give details on each data direct VCC. The ATM address corresponds to the remote LEC.

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## Related Information

- [ATM Technology Support Pages](#)
- [Technical Support & Documentation – Cisco Systems](#)

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