

Chapter 21

ILMI Interfaces Operational Mode Commands

Table 43 summarizes the command-line interface (CLI) commands you can use to monitor and troubleshoot Interim Local Management Interfaces (ILMIs). In the table, the commands are grouped by functionality. In the remainder of this chapter, they are explained in alphabetical order.

Table 43: Commands for Monitoring ILMI Interfaces

Task or Information to Monitor	CLI Command
Display ILMI messages.	show ilmi on page 324
Display ILMI statistics.	show ilmi statistics on page 325
Clear (zero) ILMI statistics.	clear ilmi statistics on page 323

clear ilmi statistics

Syntax	clear ilmi statistics
Description	Zero Interim Local Management Interface (ILMI) statistics.
Required Privilege Level	clear
See Also	show ilmi on page 324

show ilmi

Syntax show ilmi <all | interfaces *interface-name*>

Description Display Interim Local Management Interface (ILMI) information.

Options all—Display IP addresses and port names for all ILMI-enabled ATM devices.

interfaces interface-name—Display peer ATM node's IP address and port interface name.

Output Fields Physical interface—Name of physical interface.

VCI—Virtual Connection Identifier.

Peer IP address—IP address of peer.

Peer interface name—Port interface name of peer.

Sample Output: show ilmi all

```
user@host> show ilmi all
Physical interface: at-6/2/1, VCI: 0.16
Peer IP address: 192.168.4.24, Peer interface name: 1C4
Physical interface: at-6/3/0, VCI: 0.16
Peer IP address: 192.168.7.6, Peer interface name: 2C3
Physical interface: at-6/4/0, VCI: 0.16
Peer IP address: 192.168.9.10, Peer interface name: 1C2
```

Sample Output: show ilmi interfaces

```
user@host> show ilmi interfaces at-6/2/1
Physical interface: at-6/2/1, VCI: 0.16
Peer IP address: 192.168.4.24, Peer interface name: 1C4
```

show ilmi statistics

Syntax show ilmi statistics

Description Display input and output Interim Local Management Interface (ILMI) statistics.

See Also clear ilmi statistics on page 323

Output Fields Input—Information about received ILMI packets:

Packets—Total number of messages delivered to the ILMI entity from the transport service.

Bad versions—Total number of messages delivered to the ILMI entity that were for an unsupported ILMI version.

Bad community names—Total number of messages delivered to the ILMI entity that have not used an ILMI community name.

Bad community uses—Total number of messages delivered to the ILMI entity that represented an ILMI operation that was not allowed by the ILMI community named in the message.

ASN parse errors—Total number of ASN.1 or BER errors encountered by the ILMI entity when decoding received ILMI messages.

Too bigs—Total number of ILMI packets delivered to the ILMI entity with an error status field of tooBig.

No such names—Total number of ILMI packets delivered to the ILMI entity with an error status field of noSuchName.

Bad values—Total number of ILMI packets delivered to the ILMI entity with an error status field of badValue.

Read onlys—Total number of valid ILMI packets delivered to the ILMI entity with an error status field of readOnly. Only incorrect implementations of ILMI generate this error.

General errors—Total number of ILMI packets delivered to the ILMI entity with an error status field of genErr.

Total requests varbinds—Total number of objects retrieved successfully by the ILMI entity as a result of receiving valid ILMI GetRequest and GetNext packets.

Total set varbinds—Total number of objects modified successfully by the ILMI entity as a result of receiving valid ILMI SetRequest packets.

Get requests—Total number of ILMI GetRequest packets that have been accepted and processed by the ILMI entity.

Get nexts—Total number of ILMI GetNext packets that have been accepted and processed by the ILMI entity.

Set requests—Total number of ILMI SetRequest packets that have been accepted and processed by the ILMI entity.

Get responses—Total number of ILMI GetResponse packets that have been accepted and processed by the ILMI entity.

Traps—Total number of ILMI traps received by the ILMI entity.

Silent drops—Total number of GetRequest, GetNextRequest, GetBulkRequest, SetRequests, and InformRequest packets delivered to the ILMI entity that were silently dropped because the size of a reply containing an alternate response packet with an empty variable-bindings field was greater than either a local constraint or the maximum message size associated with the originator of the requests.

Proxy drops—Total number of GetRequest, GetNextRequest, GetBulkRequest, SetRequests, and InformRequest packets delivered to the ILMI entity that were silently dropped because the transmission of the (possibly translated) message to a proxy target failed in such a way (other than a timeout) such that no response packet could be returned.

Output—Information about transmitted ILMI packets:

Packets—Total number of messages passed from the ILMI entity to the transport service.

Too bigs—Total number of ILMI packets generated by the ILMI entity with an error status field of tooBig.

No such names—Total number of ILMI packets delivered to the ILMI entity with an error status field of noSuchName.

Bad values—Total number of ILMI packets generated by the ILMI entity with an error status field of badValue.

General errors—Total number of ILMI packets generated the ILMI entity with an error status field of genErr.

Get requests—Total number of ILMI GetRequest packets that have been generated by the ILMI entity.

Get nexts—Total number of ILMI GetNext packets that have been generated by the ILMI entity.

Set requests—Total number of ILMI SetRequest packets that have been generated by the ILMI entity.

Get responses—Total number of ILMI GetResponse packets that have been generated by the ILMI entity.

Traps—Total number of ILMI traps generated by the ILMI entity.

**Sample Output: show
ilmi statistics**

```
user@host> show ilmi statistics
ILMI statistics:
Input:
Packets: 0, Bad versions: 0, Bad community names: 0,
Bad community uses: 0, ASN parse errors: 0,
Too big: 0, No such names: 0, Bad values: 0,
Read only: 0, General errors: 0,
Total request varbinds: 0, Total set varbinds: 0,
Get requests: 0, Get nexts: 0, Set requests: 0,
Get responses: 0, Traps: 0,
Silent drops: 0, Proxy drops 0
Output:
Packets: 0, Too big: 0, No such names: 0,
Bad values: 0, General errors: 0,
Get requests: 0, Get nexts: 0, Set requests: 0,
Get responses: 0, Traps: 0
```

