Troubleshooting Commands
for MultiCom Firmware 2.6.1

Command subheadings and description

```
ARP            displays ARP statistics and the contents of its cache
Bridge         bridge statistics
DHCP           DHCP server settings and statistics
Diagnose       displays diagnostics
DNS            statistics on DNS requests
Hardware       displays information about the hardware platform
IP             IP config, IP Router tables and statistics on IP traffic
IPX            status of the IPX router
ISDN           general ISDN information
Key            displays the encryption keys currently defined
Mem            displays the amount of free memory
PPP            information on PPP negotiations & statistics on PPP traffic
Serial         displays the state and configuration of the serial line
Site           lists all site names or the config of a given site
SNMP           displays SNMP managers and communities
SNTP           displays information about SNTP
Time           Sets or displays the RTC time and date
Version        displays the software versions and options
```

ARP

Summary: displays ARP statistics and the contents of its cache

```
MultiCom:info arp
ARP Configuration
-----------------
IP DefaultRouter = NONE
IP SubNetMask = 255.255.255.0
ARP Proxy = ON
Statistics for ARP
-----------------
Nbr Successful Lookups = 7
Nbr Lookups Sent = 7
Nbr Replies Received = 7
Nbr Lookups Received = 1
Nbr Replies Sent = 1
Nbr Expired Entries = 0
Nbr IP_Frames Buffered = 2
Errors: Failed Lookup = 0
Errors: Nobody Responding To ARP Request = 0
Errors: IP-Frames Unresolved = 0
Errors: ARP Not Ready = 0
Errors: No More Entries In ARP Table = 0
Errors: Unsupported Protocol or Hardware = 0
Errors: Reply Not Sent = 0
Contents of ARP Table
--------------------
192.168.63.1:1 --> 00:80:AD:90:AB:CD, Time to Live 29, Clean
192.168.64.1:1 --> 00:80:AD:90:AB:CD, Time to Live 29, Clean
```

Bridge

Summary: bridge statistics

```
MultiCom:info bridge
Bridge is OFF
Bridge statistics:
-----------------
Nb. frames received = 0
Nb. frames sent = 0
Nb. frames dropped (filtered) = 0
```

DHCP

Summary: DHCP server settings and statistics

```
MultiCom:info dhcp

DHCP server is running.

Configuration :
Lease time : 6000 minutes
Renewal time : 3000 minutes
Rebinding time : 5250 minutes
Netmask : 255.0.0.0
Gateway : 10.0.0.5
```

```
DNS : 192.168.1.2, 192.168.1.3
Domain name :

Static allocation clients :

Dynamic allocation ranges :
10.0.0.10 .. 10.0.0.100


Current clients list :
State : Declined discovered
IP address : 10.0.0.12
Ethernet : 00:10:A4:F4:AB:CD
Static ID : accntg-notebook
Client ID : 01 00 10 A4 F4 AB CD
Create : 20:07:25 Sunday 8 October 2000
Lease number : 1
Lease duration : 6000 minutes
Lease : 20:07:25 Sunday 8 October 2000
--
State : Leased discovered
IP address : 10.0.0.16
Ethernet : 00:10:4B:66:AB:CD
Static ID : ts-supp-Linux
Client ID : 01 00 10 4B 66 AB CD
Create : 08:52:37 Monday 6 November 2000
Lease number : 4
Lease duration : 6000 minutes
Lease : 17:40:04 Sunday 12 November 2000
--
State : Leased discovered
IP address : 10.0.0.10
Ethernet : 00:10:5A:F8:AB:CD
Static ID : ts-supp-MacOS9
Client ID : 01 00 10 5A F8 AB CD
Create : 09:01:07 Thursday 9 November 2000
Lease number : 1
Lease duration : 6000 minutes
Lease : 09:01:07 Thursday 9 November 2000
--
State : Leased discovered
IP address : 10.0.0.11
Ethernet : 00:A0:24:55:AB:CD
Static ID : ts-supp-win2000
Client ID : 01 00 A0 24 55 AB CD
Create : 12:06:51 Friday 10 November 2000
Lease number : 1
Lease duration : 6000 minutes
Lease : 12:06:51 Friday 10 November 2000
--
State : Leased discovered
IP address : 10.0.0.15
Ethernet : 00:01:02:11:AB:CD
Static ID : Neuchatel
Client ID : 01 00 01 02 11 AB CD
Create : 09:18:59 Saturday 11 November 2000
Lease number : 1
Lease duration : 6000 minutes
Lease : 09:18:59 Saturday 11 November 2000
--
State : Leased discovered
IP address : 10.0.0.17
Ethernet : 00:10:A4:F4:AB:CD
Static ID : ceo-notebook
Client ID : 01 00 10 A4 F4 AB CD
Create : 16:19:16 Sunday 12 November 2000
Lease number : 2
Lease duration : 6000 minutes
Lease : 10:05:41 Wednesday 15 November 2000
--
State : Offered
IP address : 10.0.0.18
Ethernet : 00:20:AF:F0:AB:CD
Static ID : Paris
Client ID : 01 00 20 AF F0 AB CD
Create : 11:26:27 Wednesday 15 November 2000
--
State : Offered
IP address : 10.0.0.14
```

```
Ethernet : 00:10:5A:CF:AB:CD
Static ID : Lausanne
Client ID : 01 00 10 5A CF AB CD
Create : 11:28:45 Wednesday 15 November 2000
```

Diagnose

Summary: displays diagnostics

```
MultiCom:info diagnose
Welcome to advanced diagnostics
Ethernet connection was not found.
-> check your ethernet cable
No IP addresses have been requested by DHCP.
-> set DHCP in the configuration of your computer
No ethernet packets have been routed.
-> type "Info IP Router" for more info

MultiCom:info diagnose
Welcome to advanced diagnostics
Site: UK
No packets are received on the PPP connection
-> check the PPP sites parameters
or try to make a connection
Site: CH
No packets are received on the PPP connection
-> check the PPP sites parameters
or try to make a connection
Site: FR
No packets are received on the PPP connection
-> check the PPP sites parameters
or try to make a connection
Site: ES
No packets are received on the PPP connection
-> check the PPP sites parameters
or try to make a connection
Site: EU
Last PPP authentication message from peer:
Welcome to eu.
Site: Support
No packets are received on the PPP connection
-> check the PPP sites parameters
or try to make a connection
```

DNS

Summary: statistics on DNS requests

```
MultiCom:info dns
Primary DNS server address : 192.168.0.10
Secondary DNS server address : 192.168.0.11
Cache management is ENABLED. Domain name :
Statistics for DNS
------------------
Nbr Requests Received = 3
Nbr Requests Rejected = 0
Nbr Requests Resolved By Cache = 0
Nbr Requests Unresolved By Cache = 3
Nbr Requests Resolved By Primary DNS = 3
Nbr Requests Unresolved By Primary DNS = 0
Nbr Requests Resolved By Secondary DNS = 0
Nbr Requests Unresolved By Secondary DNS = 0
Nbr Packets Sent = 4
Nbr Packets Received = 3
Nbr Packets Rejected = 0
```

Hardware

Summary: displays information about the hardware platform

```
MultiCom:info hardware
Type of machine: MultiCom Pocket, Motherboard version 1.0.
RAM size [kbytes]: 2048
Flash size [kbytes]
bank 1: 1024
bank 2: 1024
MultiCom:info hardware
Type of machine: MultiCom Access IV, Motherboard version 1.1
Extension slots:
Slot 1 = LACx4BRI
Slot 2 = <Empty>
Slot 3 = <Empty>
Slot 4 = <Empty>
RAM size [kbytes]: 4096
```

```
Flash size [kbytes]
bank 1: 4096
bank 2: 0

MultiCom:info hardware
Type of machine: MultiCom Backup IV, Motherboard version 1.1

Extension slots:
Slot 1 = LACx4BRI
Slot 2 = <Empty>
Slot 3 = <Empty>
Slot 4 = <Empty>

RAM size [kbytes]: 4096

Flash size [kbytes]
bank 1: 4096
bank 2: 0
```

IP

Options: info ip , info ip dynamicrange , info ip filter , info ip router , info ip siteaddr , info ip translation

Summary: IP config, IP Router tables and statistics on IP traffic

```
MultiCom:info ip
Host Details
------------
IP MyAddr = 192.168.64.254
IP SubnetMask = 255.255.255.0
IP DefaultRouter = not defined
Statistics for local IP Traffic (only traffic to/from Multicom)
-----------------------------
Nbr Packets Received = 566
Nbr Packets Sent = 531
Dropped (ARP table full) = 0
Errors: ARP = 0
Errors: Unsupported = 0
Errors: IP Checksum = 0
Errors: ICMP Checksum = 0
Errors: Expired = 0
Errors: Fragmented = 0
Errors: Bad Parameters = 0
Errors: Unknown Route = 0
Errors: Unreachable Host = 0
Errors: SAP Unknown Protocol = 0
For information on IP Router type the command 'Info IP Router'...


MultiCom:info ip dynamicrange
Contents of the pool of allocated dynamic addresses
Site: UK
Dynamic address: 1.1.1.1
Allocation method: Static
Connection: Opened
Site: CH
Dynamic address: 2.2.2.2
Allocation method: Static
Connection: Opened
Site: US Dynamic address: 3.3.3.3
Allocation method: Static
Connection: Opened
Site: FR
Dynamic address: 4.4.4.4
Allocation method: Static
Connection: Opened
Site: IT
Dynamic address: 5.5.5.5
Allocation method: Static
Connection: Opened
Site: SUPPORT
Dynamic address: 6.6.6.6
Allocation method: Static
Connection: Opened
Contents of the list of sites which have a closed connection.
Contents of the list of dynamic ranges
IP DynamicRange 1.1.1.1 .. 1.1.1.1
IP DynamicRange 2.2.2.2 .. 2.2.2.2
IP DynamicRange 3.3.3.3 .. 3.3.3.3
IP DynamicRange 4.4.4.4 .. 4.4.4.4
IP DynamicRange 5.5.5.5 .. 5.5.5.5
```

```
IP DynamicRange 6.6.6.6 .. 6.6.6.6

MultiCom:info ip filter
IP Filter Info :
IP Filter Enabled ...
Number of IP Filters : 7
Number of IP Packets that
did not match Filters (REJECTED) : 0
Number of Unknown IP Packets : 0
DENY Packets from Source : 0.0.0.0..255.255.255.255
To Destination : 0.0.0.0..255.255.255.255 to Port 137/udp
Packet counter : 5
DENY Packets from Source : 0.0.0.0..255.255.255.255
To Destination : 0.0.0.0..255.255.255.255 to Port 137/tcp
Packet counter : 0
DENY Packets from Source : 0.0.0.0..255.255.255.255
To Destination : 0.0.0.0..255.255.255.255 to Port 138/udp
Packet counter : 1
DENY Packets from Source : 0.0.0.0..255.255.255.255
To Destination : 0.0.0.0..255.255.255.255 to Port 138/tcp
Packet counter : 0
DENY Packets from Source : 0.0.0.0..255.255.255.255
To Destination : 0.0.0.0..255.255.255.255 to Port 139/udp
Packet counter : 0
DENY Packets from Source : 0.0.0.0..255.255.255.255
To Destination : 0.0.0.0..255.255.255.255 to Port 139/tcp
Packet counter : 0
ALLOW Packets from Source : 0.0.0.0..255.255.255.255
To Destination : 0.0.0.0..255.255.255.255
Packet counter : 4

MultiCom:info ip router
IP Router is on.
IP Router encryption is off.
Statistics for Routed IP Traffic
--------------------------------
Nbr Packets Received = 106970
Nbr Packets Sent = 106970
Dropped (Router Missing) = 0
Dropped (ARP table full) = 0
Errors: ARP = 0
Errors: Unsupported = 0
Errors: Checksum = 0
Errors: Expired = 0
Errors: Parameters = 0
Errors: Unreachable Host = 0
Errors: Routing Error = 0
Errors: Encryption = 0
Errors: Decryption = 0
Contents of Routing Table
-------------------------
IP Range 0.0.0.0 .. 9.255.255.255 routed on "INTERNET"
IP Range 11.0.0.0 .. 172.15.255.255 routed on "INTERNET"
IP Range 172.32.0.0 .. 192.167.255.255 routed on "INTERNET"
IP Range 192.169.0.0 .. 255.255.255.255 routed on "INTERNET"
IP Range 10.0.0.1 .. 10.0.0.255 routed on "Lausanne"
IP Range 10.0.2.1 .. 10.0.2.255 routed on "Neuchatel"
IP Range 10.0.3.1 .. 10.0.3.255 routed on "Brig"
IP Range 10.0.4.1 .. 10.0.4.255 routed on "Zurich"
IP Range 10.0.5.1 .. 10.0.5.255 routed on "Bern"
IP Range 10.0.6.1 .. 10.0.6.255 routed on "Lucern"
IP Range 10.0.7.1 .. 10.0.7.255 routed on "Basel"
IP Range 10.0.8.1 .. 10.0.8.255 routed on "Geneve"
IP Range 10.0.9.1 .. 10.0.9.255 routed on "Davos"
IP Range 10.0.10.1 .. 10.0.10.255 routed on "Schyz"
IP Range 10.0.11.1 .. 10.0.11.255 routed on "Estavayer"
IP Range 10.0.12.1 .. 10.0.12.255 routed on "Bulle"

MultiCom:info ip siteaddr
IP address information for site "Internet"
Content of the global address table
-----------------------------------
Global Addresses Ranges
Allocation method for default site address : Dynamic
Dynamic allocated address : 194.230.208.192

MultiCom:info ip translation
IP Port Address Translation is enabled for the selected site "Internet".
```

```
Contents of the static translation table
----------------------------------------
ext_address:service_port dest_address:port
113/tcp 10.0.0.1:113
```

IPX

Summary: status of the IPX router

```
MULTICOM:info ipx all
RIP info:
->Net: 00000002 Time: 0000 Hops: 0000 Next hop: <NIL> S:H
->Net: 00000003 Time: 0002 Hops: 0002 Next hop: 00:A0:C5:10:AB:CD S:3
->Net: 00000034 Time: 0002 Hops: 0001 Next hop: 00:A0:24:6C:DE:F1 S:2
->Net: 2c785f4a Time: 0002 Hops: 0001 Next hop: 00:60:97:7A:23:45 S:2
SAP info:
->Type: 0004 Name: NOVELL
Net: 2c785f4a Hops: 0001 Socket: 0451 Node: 00:00:00:00:00:01 S:2
->Type: 0107 Name: NOVELL
Net: 2c785f4a Hops: 0002 Socket: 8104 Node: 00:00:00:00:00:01 S:2
->Type: 0640 Name: NT4WS1
Net: 00000002 Hops: 0001 Socket: e885 Node: 00:AA:00:BD:45:E2 S:2
->Type: 0640 Name: NT40SRV
Net: 00000034 Hops: 0001 Socket: e885 Node: 00:00:00:00:00:01 S:3
```

ISDN

Options: <u>info isdn</u> , <u>info isdn current</u> , <u>info isdn enabled</u> , <u>info isdn history</u> , <u>info isdn interface</u>

Summary: general ISDN information

```
MultiCom:info isdn
MyNumber = *** NONE ***
MySubAddress = *** NONE ***
Total calls made = 2
Total calls received = 0
Total failed calls = 0
NbrConnected = 0
NbrToCloseForICC = 0
NbrToCloseForOther = 0
Please use:
'Info ISDN Enabled' to display enabled numbers,
'Info ISDN History' to display the call history,
'Info ISDN Current' to display the current calls.


MultiCom:info isdn current Total free B channels: 2
Current calls:
Time ago Kind Local number <-> Remote number B D Tax User
----------------------------------------------------------------------
00:07:24 Dat 4235 <-- 41216542002 2 2 0 Site "Lausanne"
00:40:52 Dat --> 0327255555 1 2 0 Site "Neuchatel"


MultiCom:info isdn enabled
Number 'data/0212223333' enabled for Site "internetisp"
Number 'data/0224445555' enabled for Site "salesCH"
Number 'data/004951555533' enabled for Site "salesDE"
Number 'data/00657776666' enabled for Site "PRfirm"
Number 'data/*' enabled for Site "Support"
Number 'data/0328889999' enabled for Site "marketing"
Number 'data/<unsure>27' enabled for Site "president"
Number 'data/0210001111' enabled for Site "president"
Number 'data/<unsure>93' enabled for Site "IT"


MultiCom:info isdn history
Call history:
Time ago Kind Local number <-> Remote number Duration Tax
------------------------------------------------------------------------------
02 19:13:38 Dat --> 05550065 00:01:32 0.20
02 19:10:47 Dat --> 05550065 00:00:42 0.10
02 19:10:01 Dat --> 05550065 00:00:01 0.10
02 19:09:49 Dat --> 05550065 00:00:01 0.10
02 19:04:08 Dat --> 05550065 00:00:01 0.10
02 19:03:31 Dat --> 05550065 00:00:09 0.10
02 19:03:13 Dat --> 05550065 00:00:14 0.10
00:11:00 Dat ->| 05550065 **dest out of order**
00:05:47 Dat --> 05550065 00:03:02 0.30
00:40:23 Dat --> 0216542000 00:03:08 0
00:34:23 Dat 4235 |<- 0216542000 **call rejected**
00:34:23 Dat 4235 <-- 0216542000 00:01:05 0
00:32:31 Dat 4235 |<- 0216542000 **call rejected**
00:32:14 Dat ->| 0216542000 **no channel available**
```

```
MultiCom:info isdn interface
ISDN Interface: Mode MSN, TEI Dynamic

MultiCom:info isdn interface
ISDN Interface Slot 1 D1: Mode DDI, TEI Dynamic
ISDN Interface Slot 1 D2: Mode DDI, TEI Dynamic
ISDN Interface Slot 1 D3: Mode DDI, TEI Dynamic
ISDN Interface Slot 1 D4: Mode DDI, TEI Dynamic
```

Key

Summary: displays the encryption keys currently defined

```
MultiCom:info key
Name Algorithm Key Size Checksum Rounds Saved
------------------------------------------------------------
green DES 56 bits F7A4 No
red 3DES 112 bits 35E2 Yes
blue IDEA 128 bits C637 8 No
```

Mem

Summary: displays the amount of free memory

```
MultiCom:info mem
Total free: 863K
```

PPP

Options: info ppp , info ppp all , info ppp chap , info ppp lcp , info ppp pap , ppp compression stats , ppp encryption info , ppp encryption stats , ppp stats

Summary: info on PPP negotiations & statistics on PPP traffic

```
MultiCom:info ppp
PPP information on site "Internet"
Authentication Protocol UserID Password
Local None sunrise freesurf
Remote Either sunrise freesurf
PPP Callback Reject
Compression On
Encryption Off
Multilink On
Protocol Status Message
-------------------------------------------------------------
IPCP Off
IPXCP Off
BCP Off
CCP Failed Protocol rejected by peer
ECP Off
MP Off
Local rejected protocols :
Remote rejected protocols : 80fd (CCP)
Link bits/s Status
--------------------------------------------------
Serial 1 64K Opened

MultiCom:info ppp all
Negotiated LCP Options
----------------------
Acked by peer
-------------
MRU
Magic Number
Multilink MRRU
Multilink Endpoint Discriminator
Nacked by peer
--------------
None
Rejected by peer
----------------
None
Acked by local
--------------
MRU
Authentication Protocol
Magic Number
Multilink MRRU
Multilink Endpoint Discriminator
Nacked by local
---------------
MRU
Rejected by local
-----------------
PFC
```

```
ACFC
Negotiated IPCP Options
-----------------------
Acked by peer
-------------
IP Address
Nacked by peer
--------------
None
Rejected by peer
----------------
None
Acked by local
--------------
IP Address
Nacked by local
---------------
None
Rejected by local
-----------------
IP Compression Protocol
LCP stats
---------
Received : 118
Sent : 120
Discarded : 0
Discarded Protocol : 0
Sent Configure Request : 11
Sent Configure Ack : 9
Sent Configure Nack : 9
Sent Configure Reject : 9
Sent Terminate Request : 6
Sent Terminate Ack : 3
Sent Echo Request : 73
Sent Echo Reply : 0
Sent Protocol Reject : 0
Sent Code Reject : 0
Received Configure Request : 27
Received Configure Ack : 9
Received Configure Nack : 0
Received Configure Reject : 0
Received Terminate Request : 3
Received Terminate Ack : 6
Received Echo Request : 0
Received Echo Reply : 73
Received Code Reject : 0
Received Protocol Reject : 0
Received Unknown Code : 0
Received Discard Request : 0
PAP Stats
----------
Received : 0
Sent : 0
Discarded : 0
Sent Authenticate Request : 0
Sent Authenticate Ack : 0
Sent Authenticate Nack : 0
Received Authenticate Request : 0
Received Authenticate Ack : 0
Received Authenticate Nack : 0
CHAP Stats
----------
Received : 18
Sent : 9
Discarded : 0
Sent Challenge Request : 0
Sent Challenge Response : 9
Sent Challenge Success : 0
Sent Challenge Failure : 0
Received Challenge Request : 9
Received Challenge Response : 0
Received Challenge Success : 6
Received Challenge Failure : 3
CCP Options
-----------
State = Initial

MultiCom:info ppp chap
```

```
CHAP Stats
----------
Received : 18
Sent : 9
Discarded : 0
Sent Challenge Request : 0
Sent Challenge Response : 9
Sent Challenge Success : 0
Sent Challenge Failure : 0
Received Challenge Request : 9
Received Challenge Response : 0
Received Challenge Success : 6
Received Challenge Failure : 3

MultiCom:info ppp lcp
LCP stats
---------
Received : 118
Sent : 120
Discarded : 0
Discarded Protocol : 0
Sent Configure Request : 11
Sent Configure Ack : 9
Sent Configure Nack : 9
Sent Configure Reject : 9
Sent Terminate Request : 6
Sent Terminate Ack : 3
Sent Echo Request : 73
Sent Echo Reply : 0
Sent Protocol Reject : 0
Sent Code Reject : 0
Received Configure Request : 27
Received Configure Ack : 9
Received Configure Nack : 0
Received Configure Reject : 0
Received Terminate Request : 3
Received Terminate Ack : 6
Received Echo Request : 0
Received Echo Reply : 73
Received Code Reject : 0
Received Protocol Reject : 0
Received Unknown Code : 0
Received Discard Request : 0

MultiCom:info ppp pap
PAP Stats
----------
Received : 0
Sent : 0
Discarded : 0
Sent Authenticate Request : 0
Sent Authenticate Ack : 0
Sent Authenticate Nack : 0
Received Authenticate Request : 0
Received Authenticate Ack : 0
Received Authenticate Nack : 0

MultiCom:ppp compression stats
Compression statistics
----------------------
Frames sent compressed : 14
Frames sent uncompressed : 12
Frames received compressed : 0
Frames received uncompressed : 34
Frames discarded : 0
Bytes sent : 861 / 1162
Average compression ratio : 1.34
Bytes received : 1352 / 1352
Average compression ratio : 1.00
CCP Renegotiations : 0
CCP Resets : 0

MultiCom:ppp encryption info
PPP encryption information for site "RemoteOffice".
Encryption On
Master key CEO
Session keys On
Session key expires after :
```

```
Max. duration INFINITE
Max. traffic INFINITE

MultiCom:ppp encryption stats
ECP Traffic Stats
----------------
Frames sent 1019
Frames received 1021
Frames discarded 0
KBytes sent (total) 125.385
KBytes received (total) 36.418
KBytes sent (session) 0.056
KBytes received (session) 0.056
Encryption key changes 33
Decryption key changes 33

MultiCom:ppp stats
General stats (data traffic only)
-------------------------------
Received : 34
Sent : 14
Discarded : 0
Discarded LCP not ready : 0
Discarded CCP not ready : 0
Multilink PPP stats
Fragments received
Total 10
Valid 10
Empty 0
Discarded 0
Invalid 0
Sequence 0
Duplicate 0
Incomplete 0
Frames reconstructed
Valid 10
```

```
Serial
```
```
Options: serial1infoserial 1 info, serial 2 info , serial 1 pins, serial 2 pins
Summary: displays the state and configuration of the serial line
```
```
MultiCom:serial 1 info
Serial Info
-----------
Serial is Connected
Site = SERIALTOLAN2
Mode = NM
Clk speed = 2Mbit/s
BRG = Internal
RCLK = External
TCLK = Internal
RTS mode = OFF
Flags = ON

Alarm Details
-------------

*** ERROR DETECTED !!! ***

CD - 109: Alarm Disabled
DSR - 107: Alarm Disabled
TCLK - 114: Not connected
RCLK - 115: error: No Receive Clock from modem
BRG - 114: Not connected
Flags- RxD: OK
Link - : Bad link state

MultiCom:serial 1 info
Serial Info
-----------
Serial is Connected
Site = SERIALTOLAN2
Mode = X21
Clk speed = 2Mbit/s
BRG = External
RCLK = Internal
TCLK = External
RTS mode = OFF
Flags = ON
```

```
Alarm Details
-------------

*** ERROR DETECTED !!! ***

CD - 109: Alarm Disabled
DSR - 107: error: No DSR (modem not connected)
TCLK - 114: Alarm Disabled
RCLK - 115: Not connected
BRG - 114: Alarm Disabled
Flags- RxD: OK
Link - : Bad link state

MultiCom:serial 1 info
Serial Info
-----------
Serial is Connected
Site = SERIALTOLAN2
Mode = V36
Clk speed = 2Mbit/s
BRG = External
RCLK = External
TCLK = External
RTS mode = OFF
Flags = ON

Alarm Details
-------------

*** ERROR DETECTED !!! ***

CD - 109: OK
DSR - 107: OK
TCLK - 114: error: No Transmit Clock from modem
RCLK - 115: error: No Receive Clock from modem
BRG - 114: Alarm Disabled
Flags- RxD: OK
Link - : Bad link state

MultiCom:serial 1 info
Serial Info
-----------
Serial is Connected
Site = SERIALTOLAN2
Mode = V35
Clk speed = 2Mbit/s
BRG = External
RCLK = External
TCLK = External
RTS mode = OFF
Flags = ON
Alarm Details
-------------
CD - 109: OK
DSR - 107: OK
TCLK - 114: OK
RCLK - 115: OK
BRG - 114: Alarm Disabled
flags- RxD: OK
Link - : OK

MultiCom:serial 1 pins
Serial Pins
-----------
RTS (o) = ON
SRS (o) = OFF
NS (o) = OFF
LMT (o) = OFF
LLB (o) = OFF
CTS (i) = OFF
CD (i) = OFF
DSR (i) = OFF
TI (i) = OFF
CI (i) = ON
BRG = TCLK
RCLK (i) = OFF
TCLK (i) = OFF
```

Site
Options: <u>info site</u> , <u>info site *sitename*</u> , <u>info site *sitename* frames</u> , <u>info site *sitename* frame #</u> , <u>site stats *sitename*</u>
Summary: lists all site names or the config of a given site

```
MultiCom:info site
Site 0: Name = Local.
Site 1: Name = Internet.
Selected site = Internet
For more information on a site, use the command 'Info Site <site_name>'.

MultiCom:info site internet
Name = Internet
Type = WAN
Send IP Broadcasts = OFF
WAN Protocol = IETF PPP
Leased Line Backup = OFF
ISDN RemoteNumber = 05550065
ISDN RemoteSubAddress = *** NONE ***
ISDN BChannels (max) = 1
ISDN Auto = ON
ISDN MaxTries = 20
ISDN MaxBackoff = 86400s
ISDN ErrorResetTime = 60min
ISDN IdleCloseTime = 90s
ISDN NeverBusy = ON
ISDN Callback = Off

Links assigned to the site:
[ 1] Type : Dial up(out) State : Opened Bandwidth : 8000 bytes/s

MultiCom:info site internet frames
Last frames causing a dialup connection opening attempt to site "Internet" :
1 : IP, 1 opens, last 1:28:40 ago # opening network neighborhood on Windows 98
2 : IP, 1 opens, last 1:26:05 ago # checking email
3 : IP, 3 opens, last 1:25:20 ago # opening website
4 : IP, 1 opens, last 1:25:06 ago # software checking snmp tables of device
5 : IP, 2 opens, last 0:00:33 ago # pinging external web site
For detailed information on a frame, type "info site <X> frame <N>".

MultiCom:info site internet frame 1
Detailed information on frame 1 of site "Internet"
Frame source IP
IP protocol 17 (UDP)
IP source 10.0.0.2
IP destination 190.2.2.3
UDP source 137 (netbios-ns)
UDP destination 53 (domain)
MultiCom:info site internet frame 2
Detailed information on frame 2 of site "Internet"
Frame source IP
IP protocol 6 (TCP)
IP source 10.0.0.2
IP destination 190.2.2.3
TCP source 1114 (unknown)
TCP destination 110 (pop)
MultiCom:info site internet frame 3
Detailed information on frame 3 of site "Internet"
Frame source IP
IP protocol 6 (TCP)
IP source 10.0.0.2
IP destination 190.2.2.3
TCP source 1119 (unknown)
TCP destination 80 (www)
MultiCom:info site internet frame 4
Detailed information on frame 4 of site "Internet"
Frame source IP
IP protocol 17 (UDP)
IP source 10.0.0.2
IP destination 190.2.2.3
UDP source 1123 (unknown)
UDP destination 161 (snmp)
MultiCom:info site internet frame 5
Detailed information on frame 5 of site "Internet"
Frame source IP
IP protocol 1 (ICMP)
IP source 10.0.0.2
IP destination 190.2.2.3
```

```
MultiCom:site stats INTERNET
TRAFFIC STATISTICS (Site INTERNET):
Total Packets Sent = 2234
Total Packets Received = 2264
Total Bytes Sent = 456192
Total Bytes Received = 995863
Total Rx Discards = 0
Total Tx Discards = 2
Total Rx Bad Protocol = 0
IP Packets Sent = 2234
IP Packets Received = 2264
IP Bytes Sent = 424916
IP Bytes Received = 964167
ISDN STATISTICS (Site INTERNET)
Number of outgoing calls = 10
Number of outgoing calls for callback = 0
Number of incoming calls = 28
Nbr failed outgoing calls = 26
Total Cost = 0
Callback Cost = 0
Total Site Connection time = 3178s
Incoming B-Channel total time = 2495s
Outgoing B-Channel total time = 690s
Outgoing B-Channel for callback time = 0s
Current cost = 0
Current connection time = 764s
B-Channels in use = tx=1 rx=1
Currently doing callback = NO
```

SNMP

Summary: displays SNMP managers and communities

```
MultiCom:info snmp
Managers:
Address Port
------- ----
10.0.0.3 8000
192.168.0.125 162
Communities:
Name Rights
---- ------
seattle Write
oz Write
public Read
Authentification failure traps enabled.
```

SNTP

Summary: displays information about SNTP

```
MultiCom:info sntp

SNTP Server : <NIL>
SNTP Client : stopped
local time offset : +0:00
Update period : 12 [hours]
Timeout : 10 [seconds]
SNTP sent 0 requests, of which :
- 0 received a valid reply,
- 0 received an invalid reply.
- 0 timed out,
```

Time

Options: time, uptime

Summary: Sets or displays the RTC time and date

```
MultiCom:time
Monday 12 March 2001 12:30:05

MultiCom:uptime
48 days, 23 hrs, 59 mins, 50 secs
```

Version

Summary: displays the software versions and options

```
MultiCom:info version (for a Pocket)
Software Release 2.6.1
ISDN Layer2 : version 2.0
ISDN Layer3 : version 2.0
ISAC Driver : version 2.0
Serial number = LI-MU3-CH-10147
Software Options
```

```
----------------
IP Router : INSTALLED
IPX Router : INSTALLED
Bridge : INSTALLED
Serial Line : NOT INSTALLED
Multi-point : INSTALLED
SNMP : INSTALLED (SNMPv1)
Encryption : INSTALLED
MultiCom:info version (for an Access IV)
Software Release 2.6.1
ISDN Layer3 : version 2.0
ISDN Layer2 : version 2.0
MBRI Driver : version 1.0
PRI Driver : version 1.0
Serial number = LI-MU6-CH-8888
Software Options
----------------
IP Router : INSTALLED
IPX Router : INSTALLED
Bridge : INSTALLED
Serial Line : NOT INSTALLED
Multi-point : INSTALLED
SNMP : INSTALLED (SNMPv1)
Encryption : NOT INSTALLED
```