

iDirect Technical Note

iDirect iNFINITI series™ Console Commands Rev. A



iDirect Technologies™

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1 Change History

Rev	Author	Date	Description
A	Joe Boone	October 11, 2005	Initial Version

2 Introduction

This Technical Note lists the console commands for iDirect's INFINITI series™ Satellite Routers for iDS version 6.0 and later. The last column on the table indicates whether the command is also applicable to the iDirect NetModem II Plus.

3 Role Key

Use the following Role Key:

- E = Everyone
- C = Crypto officer
- H = Highest level
- X = Error state

4 Console Commands

The following table summarizes the console commands.

Command	Sub-command	Input	Output/Result	Role	Boot loader	Description	NMII+
#	N/A	N/A		EX	Yes	NOOP for running scripts from the console	✓
acq	on	N/A	turn on acq informaion display	E		displan acquisition information	
acq	off		turn off acq information display	E			
acq	toggle			E			
arp	stats	N/A	Show/reset ARP layer stats	E	Yes	ARP control	
arp	params		Show/set/reset ARP layer params	E			
arp	table		Show ARP table	E			
ber				E			
btp reset	N/A	N/A		E		Reset Burst Timeplan stats	
btp stats	N/A	N/A		E		Show Burst Timeplan Stats	
compress	param			E		Compression Layer Control	
compress	reset			E			
compress	stats			E			
console	list			E		Console control	
delay	N/A	# in msec		EX	Yes	Sleep	
demand	stats	N/A	Show/reset stats	E		Demand control	
demand	params		Show params	E			
dgm_pkg_rx	stats			H		Datagram Package Download Receiver Control	
dgm_pkg_rx	param			H			



Command	Sub-command	Input	Output/Result	Role	Boot loader	Description	NMII+
dhcp	stats	N/A	Show/reset stats	E		DHCP server control	
dhcp	debug [level on off]		Debug DHCP	E			
dhcp	leases		DHCP lease	E			
dhcp	params		Show params	E			
dhcp	scans		Show DHCP info	E			
DID		N/A		E		Show Modem Identification Number	
dma	stats	N/A	DMA stats	E		DMA control	
dns	enable	vlan id	Enable DNS	E		DNS control	
dns	cache		Show cache list	E			
dns	debug		set debug level	E			
dns	disable		disable DNS	E			
dns	flush		Flush cache list	E			
dns	params		Show params	E			
dns	stats		Display stats	E			
eloop				E		Display Event loop status	
eth		interface device name		E	Yes	Ethernet interface Display/Control	
gecho				E		Global echo	
gre	debug [on off level]			E		gre protocol	
gre	bypass_rx			E			
gre	bypass_tx			E			
gre	list			E			
gre	stats			E			
gre	vlan <gre_vlan_id> [stats]params byp ass_tx bypass_rx]			E			

Command	Sub-command	Input	Output/Result	Role	Boot loader	Description	NMII+
hdlc	stats			E		HDLC Stats	
help	N/A	N/A		E	Yes	Display commands	
hookstatus				H		Protocol Hookup status	
hub_fsd	N/A	N/A		E		Show hub fsd	
hub_fsd				E		Hub FSD	
icmp	stats			E		ICMP protocol inspection layer console command	
icmp	params			E			
igmp	table	N/A	Show igmp table	E	Yes	Multicast control	
inroute_list	N/A	N/A		E		Show Inroute List	
ip	interfaces	N/A	Show all interfaces	E	Yes	Router control	
ip	<if> [stats params]		Show interface stats/params	E			
ip	add <addr> <mask> <gate> <if> [<metric>]		Add static route	E			
ip	del <addr> <mask> <gate> [<if>]		Delete route	E			
ip	lookup <ip>		Routing lookup	E			
ip	table		Show routing table	E			
ip	vlan <vid> {log mode trie}		Show vlan information	E			
ipv4	stats	N/A	Show/set/reset params	E		IPv4 control	
ipv4	dump			E			
ipv4	params		Show/reset stats	E			
ktun	stats			E		Kernel Tunnel Command	
ktun	params			E			
laninfo	N/A	[<ip> [<netmask>		EX	Yes	Read/write LAN configuration information	



Command	Sub-command	Input	Output/Result	Role	Boot loader	Description	NMII+
		[<gateway>]]]					
latlong	N/A	Lat long information		E		Update LatLong	
ll	stats	N/A	Show/reset stats	E		Link Layer control	
ll	bounce		Bounce LL	E			
ll	hdlc [set 0xXXXX]		Show/set hdlc address	E			
ll	params		Show/set/reset params	E			
mac	stats	N/A	Show/reset stats	E	Yes	MAC control	
mac	params		Show params	E			
mem				E		Resource information	
mnc	list			E		MnC server command	
mnc	debug [on off level]			E			
mux				E		MUX Table Dump	
nat	stats	N/A	Show/reset stats	E		NAT control	
nat	params	N/A	Show params	E			
nat	rules		Dump NAT rules	E			
netstat				E		Show the output of a netstat command	
nms_echo				E		NMS event echo	
nmsr	dump			E		Debug NMS Reporting object (event message sender)	
nmsr	debug [on off level]			E			
offline	N/A	N/A		E		Takes the remote offline	
online	N/A	N/A		E		Takes the remote online	
oob	stats	N/A	Show/reset stats	E		OOB control	
oob	demand		Dump realtime demand	E			

Command	Sub-command	Input	Output/Result	Role	Boot loader	Description	NMII+
oob	params		Show params	E			
oob	timeplan toggle		toggle display timeplans	E			
oobc	stats	N/A	Show/reset stats	H		OOBC control	
oobc	params		Show params	H			
oobc	sar		Show SAR params and stats	H			
options	help	N/A	Show options	E	Yes	Read/write/modify option	
options	del <group>		Remove entire group	E			
options	del <group> <key>		Remove key from group	E			
options	flash		Write to flash	E			
options	set <group> <key> <value>		[group] key = value	E			
options	show [<group>] [<key>]		Display entries	E			
options	showgroups		Display group names	E			
package_info				E		Detail installed package information	
pad	stats	N/A	Show/reset stats	E		PAD control	
pad	debug [level on off]		Debug control	E			
pad	params		Show/set/reset params	E			
params	GLOBAL			E		View/Edit global params	
params	LL			E			
params	PAD			E			
params	SECIROTU			E			
params	SPOOF			E			
params	TUNNEL			E			



Command	Sub-command	Input	Output/Result	Role	Boot loader	Description	NMII+
pasoc	stats			E		command for the packet socket layer	
pasoc	params			E			
passwd	N/A	Old password and new password		H		Change password	
peek		[options] <address>		H		raw memory read - can be dangerous	
phy	N/A	N/A		HX		read PHY status register	
ping	N/A	IP address		E		Ping utility	
poke		[options] <address>		H		raw memory write - can be dangerous	
ps	N/A	N/A		E	Yes	Lists Threads	
qos	rules	N/A	Show QoS rules	E		QoS control	
qos	stats		Show QoS stats	E			
qos	status [reset]		Show/reset QoS settings	E			
remotestate	N/A	N/A		E		Displays the Current Remote State	
reset	board	N/A		EX	Yes	Resets the board	
reset	application	N/A		E		Resets iDirect software	
rmtstat	N/A	N/A		E		Toggles printing Remote Status messages	
rx bitrate	N/A	[Bit rate]		H		Show/Set bit rate parameter	
rx cof	N/A	N/A		E		Show Rx carrier offset	
rx demodkick		[on off]		H		Rx DemodKick	
rx demodsel				E		Rx Demod select	
rx enable	N/A	[on off]		H		Enable/Disable Demodulator	
rx freq	N/A	N/A		E		Show Received Frequency	
rx ifl10	N/A	[on off]		E		Show/Set Rx IFL 10 Mhz	
rx iflDC	N/A	[on off]		E		Show/Set Rx IFL DC Power	



Command	Sub-command	Input	Output/Result	Role	Boot loader	Description	NMII+
rx pointing	N/A	[on toggle off]		H		Control Antenna Pointing Mode	
rx power	N/A	N/A		E		Show Received Composite power	
rx refclkdac				H		Rx Ref Clock DAC	
rx snr	N/A	N/A		E		Show rx SNR	
rx symrate				H		Rx Symbolrate	
rx tdmlost	N/A	N/A		E		Returns TDMFrameLockLost Count on Remote	
rxdiag	rxpower		Rx RF Composite Power	E			
rxdiag	rxvoltage		Rx IFL DC Voltage	E			
rxdiag	temperature		Board Temperature	E			
rxdiag	tx10M		Tx 10M output	E			
rxdiag	txcurrent		Tx IFL DC Current	E			
rxdiag	txpower		Tx RF Composite Power	E			
rxdiag	txvoltage		Tx IFL DC Voltage	E			
sar	stats	N/A	Show/reset stats	E		SAR control	
sar	params		Show/set/reset params	E			
service		name action		H		Service start/stop command	
sn	N/A	[Serial Number]		EX	Yes	Read/write the board serial number	
spooof	stats	N/A	Show/reset stats	E		TCP acceleration control	
spooof	debug [level on off]		Spoof debug control	E			
spooof	dump		Show active TCP session	E			
spooof	params		Show/set/reset params	E			
stats				E		View/Edit global stats	
sys_time				E		Sys Time Tick	

Command	Sub-command	Input	Output/Result	Role	Boot loader	Description	NMII+
systray				E		Systray status sender command	
time				E		Get Time Tick	
timer	list	N/A	Timer report	E	Yes	Timer control	
tlev				E		Trace level control	
tx 10	N/A	on off		H		turn 10 pattern on or off	
tx atten1	N/A	[value]		H		Show/Set test value for TxAttn 1	
tx atten2	N/A	[value]		H		Show/Set test value for TxAttn 2	
tx bitrate	N/A	[Bit rate]		H		Show/Set bit rate parameter	
tx cw	N/A	on off		H		Turn CW pattern on or off	
tx enable	N/A	[on toggle off]		H		Enable/Disable Modulator	
tx freq	N/A	[tx freq]		E		Show/Set Transmit Frequency	
tx fsd	N/A	[fsd value]		E		Displays/Sets frame start delay	
tx ifl10	N/A	[on off]		E		Show?Set Tx IFL 10MHz	
tx iflDC	N/A	[on off]		E		Show/Set Tx IFL DC Power	
tx pn	N/A	on off		H		Turn PN on or off	
tx pn	N/A	on off		H		Turn PN on or off	
tx power	N/A	[tx power]		H		Show/Set Transmit Power Level	
udp	stats	N/A	Show/reset stats	E		UDP control	
udp	debug [level on off]		UDP debug control	E			
udp	dump		Show active UDP session	E			
udp	params		Show/set/reset params	E			
uptime				E		System and application uptime	
version	N/A	-v		EX	Yes	Display build information	
vlan	stats	N/A	Show/reset stats	E		Vlan control	
vlan	params		Show/set/reset params	E			



Command	Sub-command	Input	Output/Result	Role	Boot loader	Description	NMII+
xoff	N/A	N/A		EX	Yes	Disallow messages from other processes	
xon	N/A	N/A		EX	Yes	Allow messages from other processes	