



Guide de configuration et d’activation d’un modem iDirect IQ

<p>Ouvrir la page web sur 192.168.0.1</p>	<div><div>Welcome</div><div><div><div><div></div></div><div><div>iDIRECT</div></div></div><div><div>User Name</div><div></div></div><div><div>Password</div><div></div></div><div><div>Log In</div></div></div><div><div>© 2015 VT iDirect, Inc. All rights reserved. 13861 Sunrise Valley Drive, Suite 300, Herndon, Virginia 20171. Phone: +1.703.648.8000 Toll-free: +1.866.345.0983</div></div></div>
<p>Sélectionner “Commissioning Wizard” depuis le</p> <div><div><div><div></div></div><div><div>Dashboard</div><div>Details</div><div>Commissioning</div></div><div><div>Commissioning</div><div>Commissioning Wizard</div><div>Commissioning Details</div><div>One Touch Commissioning</div><div>Angle Calculator</div><div>Antenna Pointing</div><div>Cross Polarization / P1dB</div><div>Antenna Configuration</div></div></div></div> <p>menu déroulant</p> <p>Vérifier le Modem Serial Number pour s’assurer qu’il n’y a pas eu d’erreur dans le numéro de série indiqué à DSD</p>	<div><div><div><div></div></div><div><div>Dashboard</div><div>Details</div><div>Commissioning</div><div>Administration</div></div><div><div>admin</div></div></div><div><div><div>System Status</div><div><div><div>Link Status</div><div><div>Network Status</div><div>IN_NETWORK</div><div></div></div><div><div>Satellite Receiver</div><div>Locked</div><div></div></div><div><div>Satellite Transmitter</div><div>UNMUTED</div><div></div></div><div><div>Receive SNR</div><div>5.8 dB</div></div></div><div><div>Receiver SNR (primary)</div><div><div><div></div></div><div>Receiver SNR (primary) in dB</div></div></div><div><div>Take me to...</div><div><div>View Satellite Details</div><div>View Terminal Details</div><div>View current LAN throughput</div></div></div></div><div><div><div>Terminal Information</div><div><div><div>Model Type</div><div>CX751(146)</div></div><div><div>Terminal Type</div><div>101</div></div><div><div>Serial Number</div><div>30310</div></div><div><div>Software Version</div><div>VELOCITY - 1.5.0.0 30</div></div><div><div>Terminal Provisioning Key</div><div>CQAHMZRI7XZQU==</div></div></div><div><div>Device Status</div><div><div><div>CPU Load</div><div>18.18 %</div><div></div></div><div><div>Memory Use</div><div>41.63 %</div><div></div></div><div><div>Temperature</div><div>30 °C</div><div></div></div></div><div><div>Terminal Events</div><div><div><div>Up Time</div><div>10sec</div></div><div><div>Description</div><div>MODEM_POST_PASSED</div></div></div></div></div></div></div></div></div></div>
<p>Sélectionner “Enter Commissioning Mode”</p>	<div><div><div><div></div></div><div><div>Dashboard</div><div>Details</div><div>Commissioning</div><div>Administration</div></div><div><div>admin</div></div></div><div><div><div>Commissioning Wizard</div><div><div><div></div><div>2</div><div>3</div><div>4</div><div>5</div><div>6</div><div>7</div><div>8</div><div>9</div><div>10</div><div>11</div></div><div><div>Start commissioning process</div></div><div><div>During Commissioning Mode the terminal will not attempt to acquire the network</div></div><div><div>Enter Commissioning Mode</div></div></div></div></div></div>



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Charger le logiciel Velocity Software 2.0.1.2

Si vous ne l’avez pas sur votre PC, vous le trouverez sur notre site web :  
[Télécharger ici](#)

Une fois que le modem aura rebooté, activer le logiciel de type Velocity Remote puis rebooter à nouveau le modem

Décompresser l’archive .ZIP que vous avez reçu de DSD par email et qui contient 4 fichiers

Uploader chacun des 4 fichiers de configuration pour remplacer les fichiers existants

Entrer les informations du satellite que vous devez pointer  
ex: IS-19 @ 160 E  
IS-33 @ 60° East  
IS-37 @ 18° West

Sélectionner “Save remote location and continue”

Manage Software Packages

Reboot Terminal

Upload Software Package: 

Select Files...

 Installing... 100%

Software	Package Name	Creation Date	Version	
active1	Evolution Remote	03/13/2018	21.0.0.4-44	<div>Activate Software Package</div>
active0	Evolution Remote	03/13/2018	21.0.0.4-44	<div>Activate Software Package</div>
factory	Evolution Remote	03/13/2018	21.0.0.4-44	Software package is currently active

Continue without changes

Continue

Configuration Files

Continue without changes

Continue

Manage Software Packages

1 Success 0 Errors 0 Warnings

1 action was successfully completed

The release has been activated.

Partition

Type

Description

Version

active1	Evolution Remote	iDirect Remote Terminal Application	21.0.0.4-44	<div>Activate Software Package</div>
active0	Velocity Remote	iDirect Remote Terminal Application	2.0.0.1-3477	<div>Activate Software Package</div>
factory	Evolution Remote	iDirect Remote Terminal Application	21.0.0.4-44	Software package is currently active

Configuration Files

Continue without changes

Continue

Description	Filename	Version	Date	Size		
iDirect manual configuration	downstream_config.json		01/01/1970	366	<div>Upload Configuration File</div>	<div>Download Configuration File</div>
iDirect remote configuration	falcon.opt			0	<div>Upload Configuration File</div>	<div>Download Configuration File</div>

Dashboard

Details

Commissioning

Administration

admin

Commissioning Wizard

1 2 3 4 5 6 7 8 9 10 11

Manage Software Packages & Configuration Files

Manage Software Packages

Reboot Terminal

Upload Software Package: 

Select Files...

Software	Package Name	Creation Date	Version	
Release1	CK7xx-rootfs_rmt_ga_1.2.2.0-23.pkg	2016.06.02-01:28:28	1.2.2.0	<div>Activate Software Package</div>
Release2	CK7xx-rootfs_rmt_ga_1.2.2.0-24.pkg	2016.06.03-01:00:16	1.2.2.0	<div>Activate Software Package</div>
Release4	CK7xx_rootfs_rmt_1.5.0.0-30.pkg	2017.04.14-08:10:07	1.5.0.0	Software package is currently active

Configuration Files

Continue without changes

Continue

Description	Filename	Version	Date	Size		
iDirect remote minimum configuration	TERMINAL_OPT	V1.4.0.0	04/07/2017		<div>Upload Configuration File</div>	<div>Download Configuration File</div>
iDirect remote Global PKI configuration	GLOBAL_PKI	2.0	09/28/2016	634	<div>Upload Configuration File</div>	<div>Download Configuration File</div>
iDirect remote constellation configuration	CONSTELLATION_OPT	V1.4.0.0	04/13/2017	998	<div>Upload Configuration File</div>	<div>Download Configuration File</div>
iDirect remote LAN configuration	TERMINAL_LAN_OPT	V1.4.0.0	01/31/2017	10...	<div>Upload Configuration File</div>	<div>Download Configuration File</div>

Dashboard

Details

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Commissioning Wizard

1 2 3 4 5 6 7 8 9 10 11

Coarse antenna pointing

Please adjust the values on the left in order to calculate the coarse antenna pointing on the right.

Remote Position

Remote Latitude 41.5216 \* (0 - 90)

Remote Latitude Direction North

Remote Longitude \* (0 - 180)

Remote Longitude Direction East

Antenna

Elevation Offset 0.0000 \* (0 - 90)

Calculated coarse antenna pointing

Elevation Actual 5.2 degrees (Actual = True - Offset)

Azimuth True 102.7 \* (Geographic north = 0°)

Polarization Offset -46.9 \* (Polarization Angle Sense)

Elevation True 5.2 \* (Horizontal = 0° Straight up = +90°)

Satellite Position

Satellite Longitude 0.0000 \* (0 - 180)

Satellite Longitude Direction East

Save remote location and continue

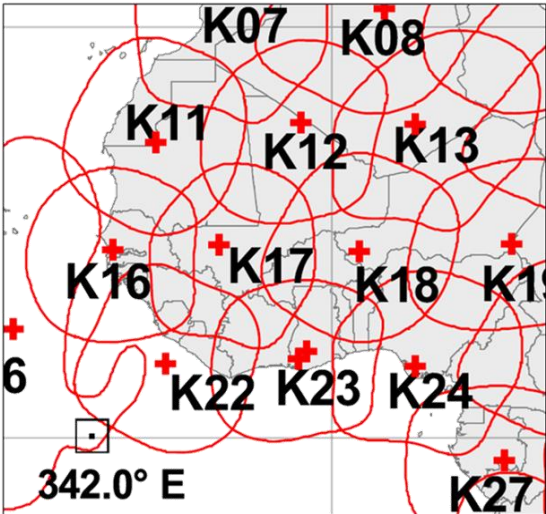


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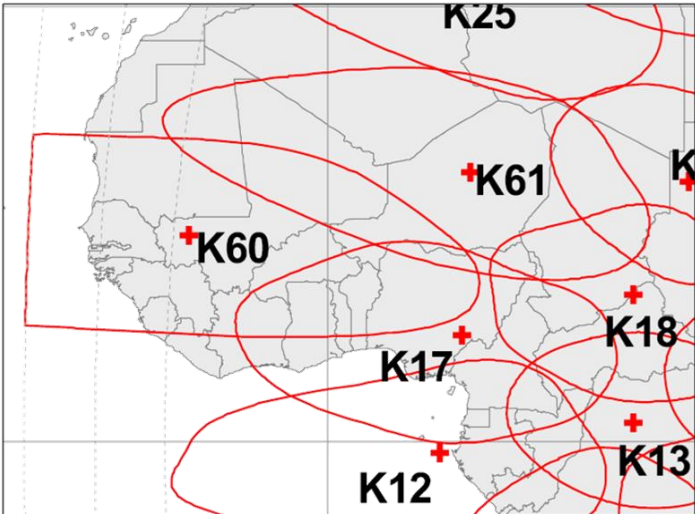
Liste des fréquences de pointage selon le Beam sur lequel la configuration de votre modem a été établie d’après le nom de ville et/ou les coordonnées GPS que vous avez donné à DSD lors de votre demande d’abonnement

BEAM	Frequency	Symbol Rate	Bitmask	Rx Pol	Tx Pol
FUS-IS33-C4L-K17H.C1	12176.170	24580	4	Horizontal	Vertical
FUS-IS33-C4L-K60H.C1	11517.698	21400	6	Horizontal	Vertical
FUS-IS33-K605V-K61H.C1	11138.300	43330	5	Horizontal	Vertical
FUS-IS37-Ka1L-K11V.C1	12705.713	25790	5	Vertical	Horizontal
FUS-IS37-Ka1L-K12V.C1	11489.005	43080	5	Vertical	Horizontal
FUS-IS37-Ka1L-K16H.C1	11670.021	14820	5	Horizontal	Vertical
FUS-IS37-Ka1L-K17H.C1	12597.639	32250	5	Horizontal	Vertical
FUS-IS37-Ka1L-K22V.C1	11151.800	9650	5	Vertical	Horizontal
FUS-IS37-Ka1L-K23H.C1	11170.317	18330	6	Horizontal	Vertical
A jour en date du 28 juillet 2023					

IS-37e:  
Beams: K11, K12, K16, K17, K22, K23



IS-33e:  
Beams: K17, K60, K61



Recopier les informations envoyées par DSD:

- RF Frequency-
- Mhz
- Modulation-
- Symbol rate-
- Rolloff-
- Receive Polarization-
- Transmit Polarization-
- Vous devez entrer “0” pour la « Latitude Variance » et aussi pour la « Polarization Skew » (c’est un bug iDirect)

Sélectionner “Continue and position antenna”

NET

Status

Tx

Rx1

Rx2

TEMP

Fan

Remote is in commissioning mode

Exit commissioning mode

Dashboard

Details

Commissioning

Administration

admin

Commissioning Wizard

1

2

3

4

5

6

7

8

9

10

11

Configure downstream

Configure downstream

Enter applicable downstream parameters. These values will be used for pointing the antenna.

RF Frequency

11,664.3000

MHz (0 - 40000)

Modulation

ACM

Symbol Rate

5,060.00

Ksps (1000 - 45000)

Rolloff

20.0

% (0 - 20)

Receive Polarization

Vertical

Transmit Polarization

Horizontal

Latitude Variance

0.0

° (0 - 90)

Polarization Skew

0.0

° (-90 - 90)

Continue & position antenna

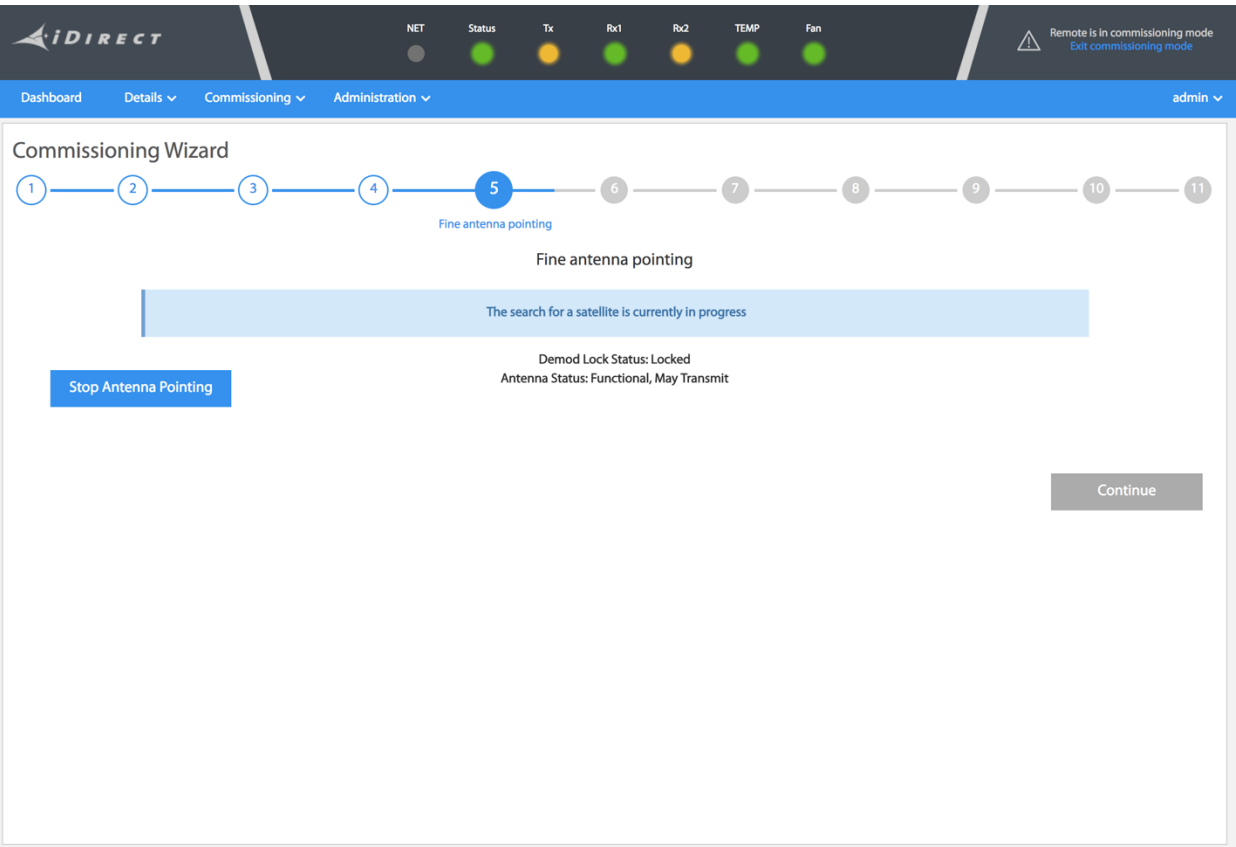


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Maintenant vous pouvez pointer l’antenne vers le satellite, vous avez fini avec la configuration:  
À la fin du pointage vous avez:

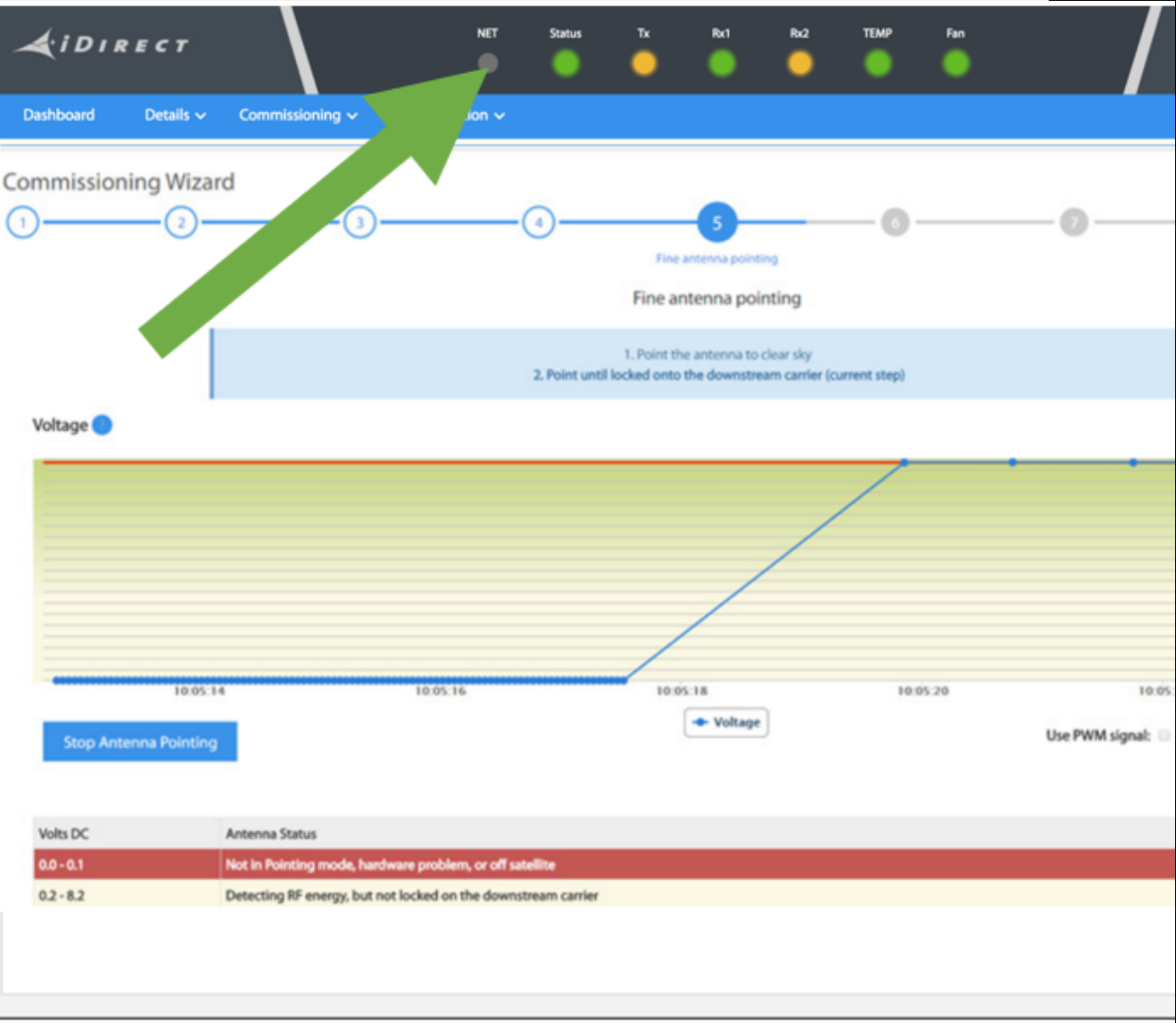
- Demod Lock Status: Locked
- Antenna Status: Functional, May Transmit

Enfin:  
Sélectionner “Stop Antenna Pointing”



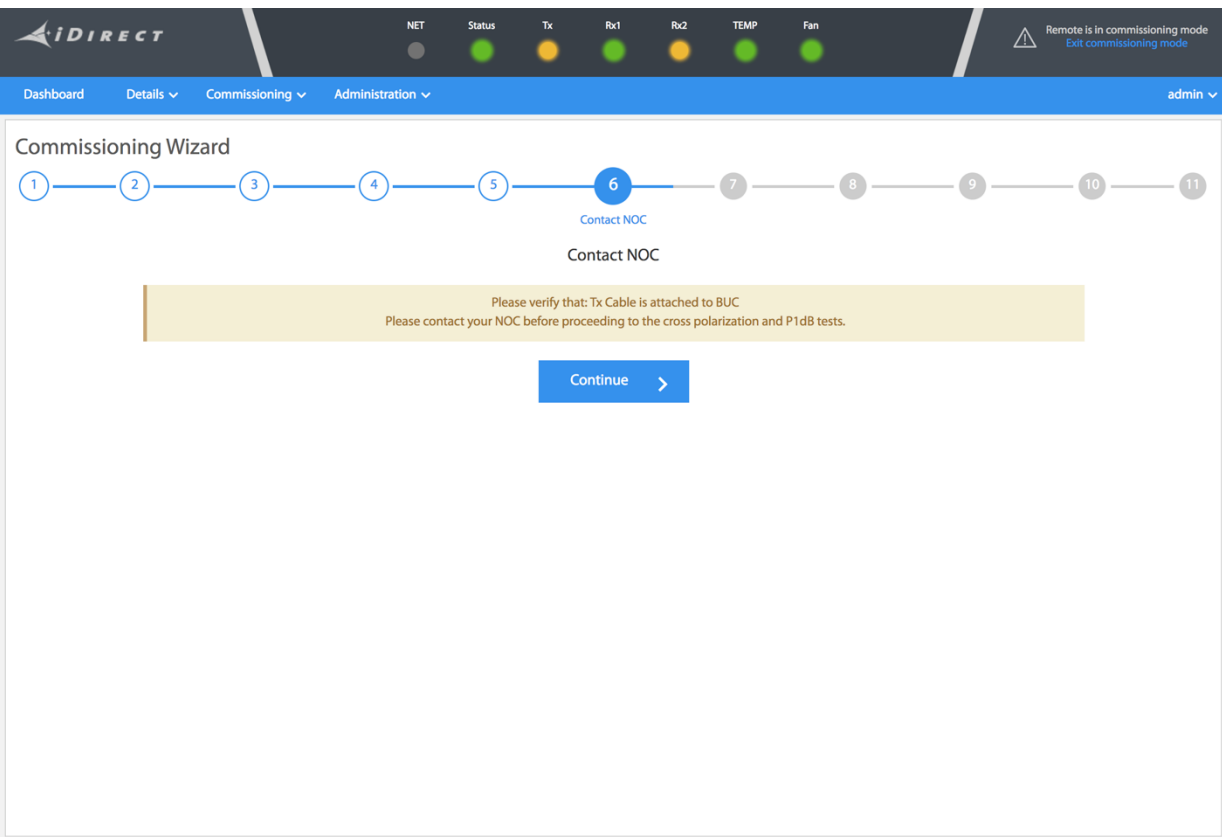
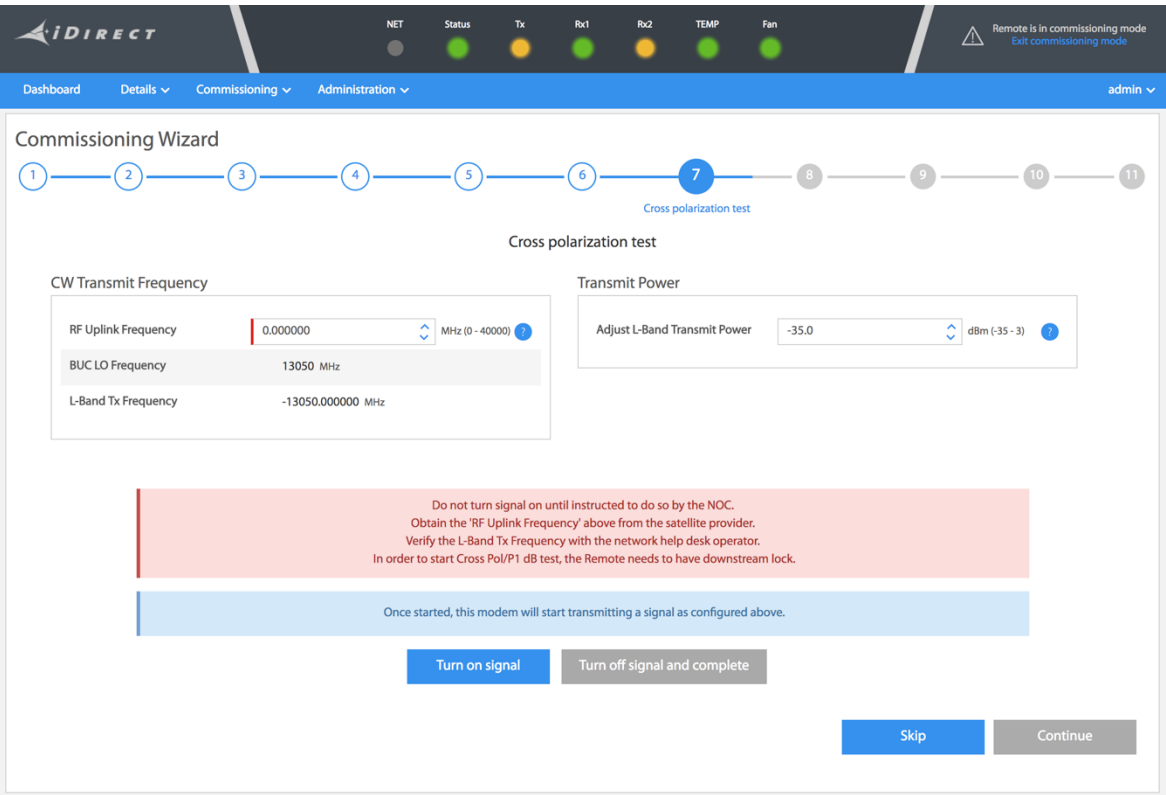
**Important** : À la fin du pointage il faut attendre 1 minute que le NET devienne vert fixe ou clignotant

Une fois que le Net est vert alors Sélectionner “Continue”





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<p>Sélectionner “Continue”</p> <p>(page inutile)</p>	
<p>Select “Skip”</p> <p>(page inutile)</p>	





Guide de configuration et d’activation d’un modem iDirect IQ

Mesure du point de compression P1dB

Appeler DSD qui vous fournira la fréquence de test et entrer la fréquence:

- RF Uplink Frequency
- Modulation: CW

Sélectionner “Turn on Signal”

DSD vous guidera et vous dira quelle valeur entrer comme Transmit Power

- Sélectionner “Apply”
- Suivre les instructions jusqu’à la fin de la mesure du point P1dB
- Écrire la valeur du P1dB mesurée par DSD et qui vous sera indiquée

Sélectionner “Turn off signal and complete”

Mesure de la puissance Max de transmission

DSD vous indique les valeurs à entrer:

- RF Uplink Frequency
- Modulation: BPSK
- Symbol Rate

DSD vous indique quelle valeur de L Band Transmit Power entrer

- Sélectionner “Apply”
- Continuer à suivre les instructions de DSD jusqu’à la fin des mesures
- Ecrire la valeur indiquée par DSD au niveau du Max Transmit

Sélectionner “Turn off signal and complete”

NET

Status

Tx

Rx1

Rx2

TEMP

Fan

Remote is in commissioning mode  
Exit commissioning mode

DashboardDetailsCommissioningAdministrationadmin

Commissioning Wizard

1234567891011

P1dB test

Transmit Frequency

RF Uplink Frequency14,242.000000MHz (0 - 40000)

BUC LO Frequency13050 MHz

L-Band Tx Frequency1192.000000 MHz

Modulator

ModulationCW

Symbol RateKsps (128 - 7500)

Transmit Power

Adjust L-Band Transmit Power-23dBm (-35 - 3)

Do not turn signal on until instructed to do so by the NOC.  
Obtain the 'RF Uplink Frequency' above from the satellite provider.  
Verify the L-Band Tx Frequency with the network help desk operator.  
In order to start Cross Pol/P1 dB test, the Remote needs to have downstream lock.

Once started, this modem will start transmitting a signal as configured above.

Turn on signalTurn off signal and completeContinue

NET

Status

Tx

Rx1

Rx2

TEMP

Fan

Remote is in commissioning mode  
Exit commissioning mode

DashboardDetailsCommissioningAdministrationadmin

Commissioning Wizard

1234567891011

P1dB test

Transmit Frequency

RF Uplink Frequency14,242.000000MHz (0 - 40000)

BUC LO Frequency13050 MHz

L-Band Tx Frequency1192.000000 MHz

Modulator

ModulationBPSK

Symbol Rate128.000Ksps (128 - 7500)

Transmit Power

Adjust L-Band Transmit Power-23.0dBm (-35 - 3)

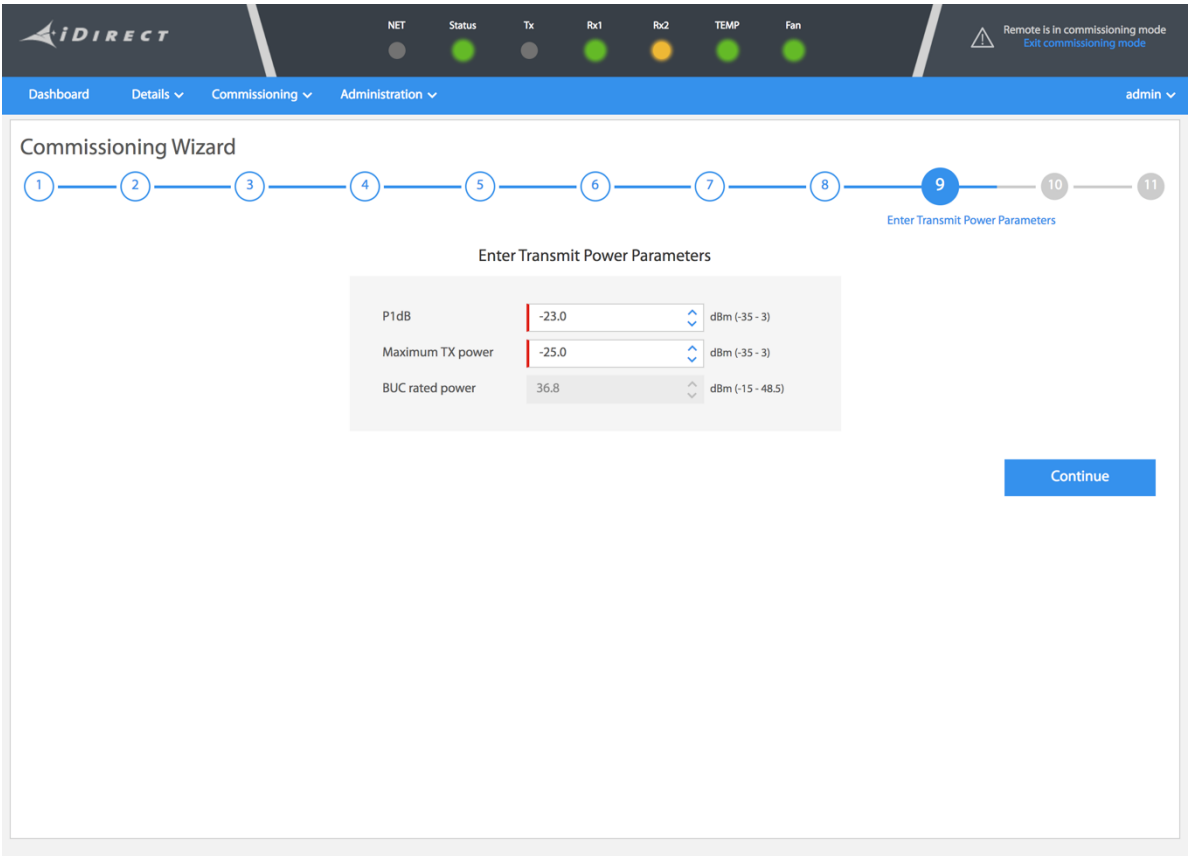
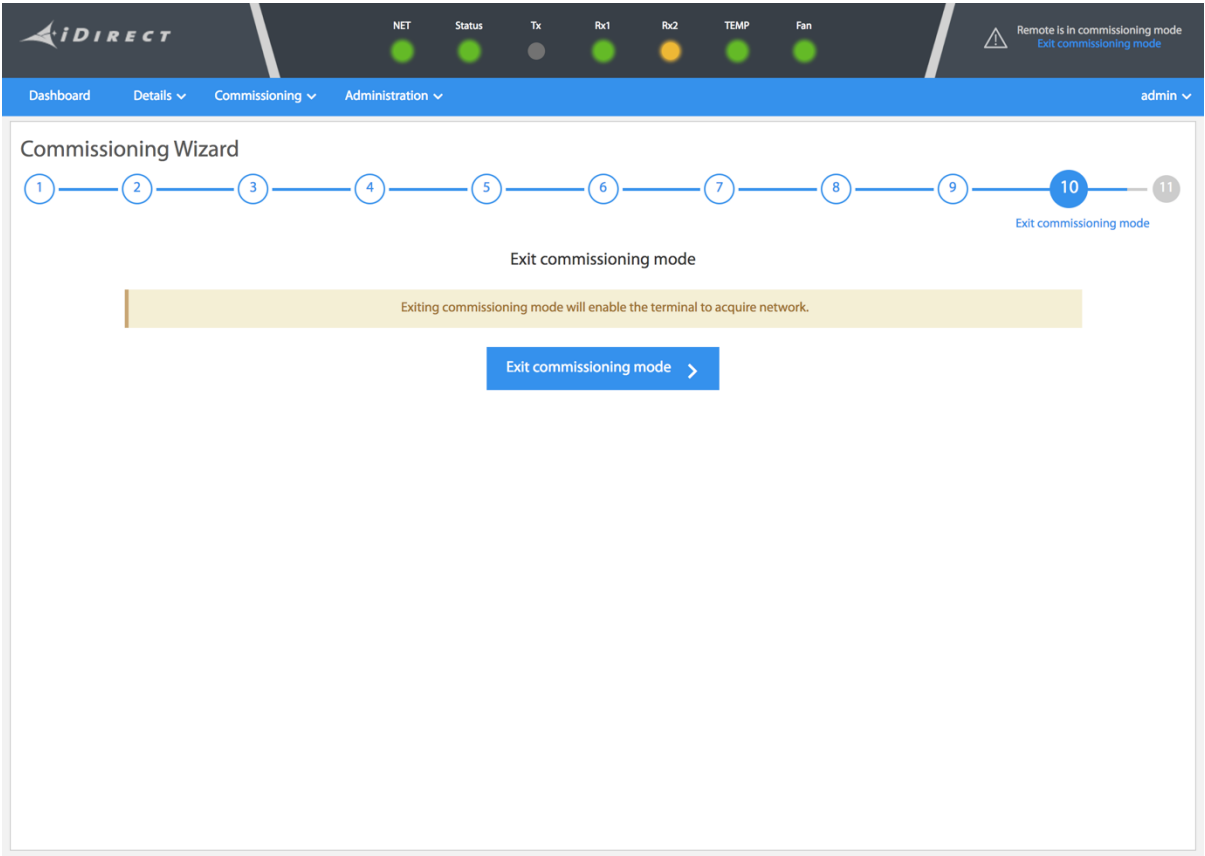
Do not turn signal on until instructed to do so by the NOC.  
Obtain the 'RF Uplink Frequency' above from the satellite provider.  
Verify the L-Band Tx Frequency with the network help desk operator.  
In order to start Cross Pol/P1 dB test, the Remote needs to have downstream lock.

Please use the 'Apply changes' button after adjusting the configuration above in order to take effect

Apply changesTurn off signal and completeContinue



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<p>Une fois que les valeurs du « p1dB Compression Point » et du « Maximum Transmit Power » sont entrées</p> <p>Sélectionner “Continue”</p>	
<p>Sélectionner “Exit commissioning mode”</p>	
<p>Sélectionner “Return to dashboard”</p> <p><b>BRAVO, VOUS AVEZ FINI!</b></p>	