



# WFN: WORLD FISHING NETWORK

## Transmission Information

Last edited June 21, 2013

**Platform:** Cisco PowerVU Plus – DES Encrypted

Satellite: Galaxy 17, Transponder 14 C – Upper 3/4

Orbital Position: 91.0 Degrees West

Polarization: Vertical

Downlink Frequency (MHz): **3984.5**

Symbol Rate (MSps): **22.500**

Modulation: DVB-S2 8PSK

Forward Error Correction (FEC): 5/6

Network ID: 799

Rolloff: 0.20

**CHANNEL:** **130**

### DTMF Cue Triggers

WFN Primary: Start: **936\*** Stop: **936#**

Pre-Roll: 8 seconds

The Altitude / World Fishing Network video signals transmitted over the satellite will now be in MPEG-4 H.264 AVC High Definition format with Dolby AC-3 encoded audio. The signals will be transcoded by a Cisco D9858 Advanced Receiver Transcoder to MPEG-2 format at your receive location. The Transcoder will occasionally transcode the signal to MPEG-2 High Definition format, depending upon your affiliate agreement.

### D9854 PIDS

Passthrough

Name: WFN

Program #	130
PID	TYPE
5003	PMT
300	AC-3 Audio
310	Video/PCR
370	DPI/SCTE35

\*MPG-4 output

### D9858 PIDS

DPM Mapping / ASI OUT

	PE1: WFN SD	PE2: WFN HD
MPEG Channel #	<b>11</b>	<b>12</b>
PMT PID	<b>5011</b>	<b>5012</b>
VIDEO PID	<b>1110</b>	<b>1210</b>
PCR PID	<b>1110</b>	<b>1210</b>
AUDIO 1 PID	<b>1100</b>	<b>1200</b>
DPI PID	<b>1140</b>	<b>1240</b>

MPG-2 transcoded output via ASI\*

**These output PIDS can be altered locally as required**

### Acceptable Decoders

Cisco D9858 ( 2 ASI outputs ) and D9858-1 (1 ASI output ). Both will output Mpeg 4 HD or Mpeg 2 SD. Both decoders have ASI, Ethernet, HDS DI, or can down-convert the signal to SD SDi. Cisco D9854 Mpeg 4 receiver, HD only with ASI output or other formats as ordered.

### Audio Cue Tone Output

If Audio Cue Tones are required, the receivers provided have the capability of generating them internally from the received DPI triggers. Please see the Cisco receiver manual under the section "Connecting the Cue Tone/Cue Trigger Interface" for proper pin-out information, and the section "Setting Up Cue Tones" for proper receiver configuration.

**Dave Munroe** | Director of Affiliate Marketing (720) 873-5026 | [dmunroe@worldfishingnetwork.com](mailto:dmunroe@worldfishingnetwork.com)

**WFN Affiliate Authorization and Support (Weekdays):** 303-925-2990

**Uplink Engineering (After-hours):** 303-925-2812

**Cisco Support:** 888-949-4786 (only use if WFN Support cannot resolve issue)

**Questions or concerns:** contact 303.925.2990 or [WFNtech@Altitude.tv](mailto:WFNtech@Altitude.tv)

# D9858 Receiver Check and Troubleshooting: World Fishing Network

updated  
3/5/2012

If experiencing difficulties with the output of the WFN Service, go over the Settings Checklist listed on page 2 of this document. If all settings are correct and a power-cycle of the receiver does not restore service, perform a Factory Reset. **NOTE: AFTER FACTORY RESET, THE BELOW SETTINGS MUST BE MANUALLY CHANGED TO PROPERLY RESTORE SERVICE.**

## Factory Reset

- A. Check that receiver lock level is 0, have receiver configuration available.
- B. Contact WFN to alter lock level if not 0: **DAYTIME: 303-925-2990**
- C. Perform Factory Reset (below) **AFTER-HOURS: 303-925-2812**
- D. Configure receiver settings as shown below.

## Performing Factory Reset

Main Menu > Setup > Admin (down-arrow 2x)  
Select "Factory Reset"  
Select "Continue"

## MANUAL UPDATE OF RECEIVER

### 1) RF INPUT SETTINGS

Main Menu > Setup > TS Input > Input > RF1 (or whichever RF input has G-17 C-Band Vertical)

<b>RF 1 Active</b>			
<b>Act</b>			

(up-arrow 2x)

<b>Input IQ</b>	<b>Net ID</b>		
Auto	<b>799</b>		

(up-arrow 1x)

<b>Modulation</b>	<b>Rolloff</b>		
DVB-S2	<b>0.20</b>		

(up-arrow 1x)

<b>Freq (GHz)</b>	<b>Sym Rate</b>	<b>FEC</b>	<b>L-Band</b>
<b>3.9845</b>	<b>22.5</b>	Auto	1165.5

**\*Once this information is input, press <APPLY> button on front panel, SAVE changes when locked.**

### 2) PE Channel Numbers

\*Use "ADV" button on front panel to toggle between PE# and Service#

For World Fishing Network Feed

PE1	<b>130</b> WFN Primary
PE2	<b>130</b> WFN Primary*

\*For both SD and HD output on receiver. PE2 Must be authorized as well.

### 3) PE Resync

Main Menu > Setup > (down-arrow 2x) Outputs > TS Out > DPM > ASI (up-arrow 1x)

<b>PE Resync</b>	<b>ALL</b>	Template	PIDs	Svcs
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PE1				
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#### 4) Active Format Description

Main Menu > Setup > Services > Video (down-arrow 3x)

TV A/R	Convert	Stream	Act Conv
4:3*	Auto AFD	16:9	*

#### WFN D9858 SETTINGS CHECKLIST

The following steps are to confirm receiver setup for ideal service output. If changes are made at any step, double-check output to confirm if problem has been solved before proceeding to next step.

##### 1) RF Level/Margin

Main Menu > Status > TS Input > Input > (down-arrow 4x)

C/N (dB)	C/N Margin (dB)
17.5	7.6

Numbers should be higher. Margin needs to be at least +3.0

##### 2) Total Output Bandwidth

Main Menu > Setup > (down-arrow 1x) Outputs > TS Out > ASI

Rate Control	User Rate (Mbps)
User	35.0 (minimum)

(down-arrow 1x)

Output Mode
Full DPM Control

##### 3) PE Output: Transcode

Main Menu > Setup > (down-arrow 1x) Outputs > TS Out > DPM > ASI

PE	InCh	PMT	Act	OutCh	PMT
PE1	130	5130	Xcode	11	5011

##### 4) PE Output: SD & HD

Main Menu > Setup > (down-arrow 1x) Outputs > TS Out > Transcode > Transcode

PE1	Video Mode	HD Res	SDHRes
	SD Output	Full	720

(down-arrow 2x)

HD Bitrate	SD Bitrate
19	10*

PE2	Video Mode	HD Res	SDHRes
	HD Output	Full	720

(down-arrow 2x)

HD Bitrate	SD Bitrate
19	10*

\*If experiencing breakup on SD through rate-shaping (ie. BigBand BMR), adjust to 8Mb

##### 5) DTMF Cue Tones

Main Menu > Setup > Outputs > Cueing

Cueing Mode	Trigger Polarity
Trigger	High

(down-arrow 2x)

Seq #	State	Tones	Mode	Delay(sec)
1	Enable	936	*	1

**7) Cisco Support (call only if Uplink Support is unable to solve issue)**

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888-949-4786

**8) Receiver Replacement**

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If it looks to be an actual hardware issue with the receiver, call Altitude during business hours to inquire about replacement:

**DAYTIME: 303-925-2990**

**AFTER-HOURS TROUBLESHOOTING: 303-925-2812**



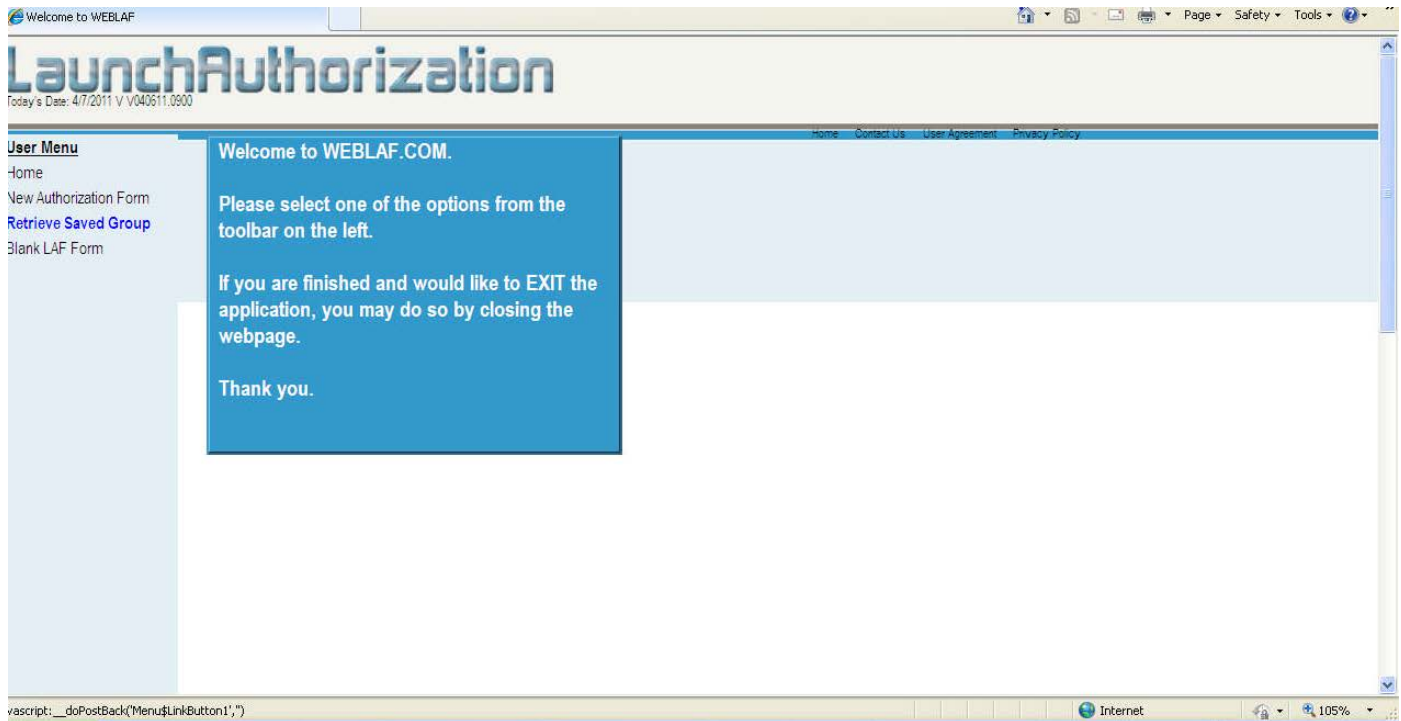
## WEB LAF AUTHORIZATION INSTRUCTIONS

[WWW.WEBLAF.COM](http://WWW.WEBLAF.COM)

LOGIN: wfnlaf PASSWORD: wfn82718

The above credentials are good for all WEBLAF authorization requests.

- After using the WFN log-in credentials, click on **New Authorization Form**



WEBLAF Detail

# LaunchAuthorization

Today's Date: 4/7/2011 V V040611.0900

**LAF Section**

- Requestor Data
- MSO Data
- System/HE Data
- Service Data
- Contact Data
- Submit

**Tools**

- Print LAF
- Technical Info.
- Save Group

**Group: Service/LAF**

- WFN(16767)

**WFN - WFN**

**REQUESTOR Information for LAF 16767**

>>>>>>> <<<

Requestor Name: John Smith

Telephone: (555) 555-5555

Phone Ext: \_\_\_\_\_

Email: john@cablecompany.com

Next

Done

Internet 105%

WEBLAF Detail

# LaunchAuthorization

Today's Date: 4/7/2011 V V040611.0900

**LAF Section**

- Requestor Data
- MSO Data
- System/HE Data
- Service Data
- Contact Data
- Submit

**Tools**

- Print LAF
- Technical Info.
- Save Group

**Group: Service/LAF**

- WFN(16767)

**WFN - WFN**

**MSO data for LAF: 16767**

>>>>>>> <<<

MSO Name: John Doe Cable Company

Address: 1600 Pennsylvania Ave

Address 2: \_\_\_\_\_

City: Boston

Country: USA

Province/State: MA

Postal Code: 55555

Previous      Next

Done

Internet

- Fill in System/Head-End Name, Address, City, State, Zip, County and DMA

- Add information as needed

The screenshot displays the WEBLAF Detail web application interface. The browser window title is "WEBLAF Detail". The page has a navigation menu on the left with options: "Service Data", "Contact Data", "Submit", "Tools", "Print LAF", "Technical Info.", and "Save Group". The main content area is divided into sections by blue horizontal bars. The top section contains fields for "Sys/HE Name", "Address", "City", "Country" (set to USA), "Province/State", "Postal Code", "County", and "DMA" (set to Not Known). Below this is a "Group: Service/LAF" section with a radio button for "WFN(16767)". The "Distribution" is set to "CABLE". Other fields include "Basic Subs: 6255", "Analog Subs: 6255", "Digital Subs: 2654", and "HD Subs: 645". "System Existence" is set to "MATURE". "Remit. System Name" is "John Doe Cable Company". Below these are two text areas: "Number of systems/areas served by this headend: 6" and "Enter Systems served by this Headend..." (empty), and "Enter Postal Codes served by this Headend..." (containing "55555/55554/55553/55552"). The browser's status bar at the bottom shows "Done" and "Internet".

- Satellite Model should be Galaxy 17. Verify Receiver Model, fill in new Unit Address Number. If authorizing both HD and SD, check the **Secondary** tick box and fill out secondary UA number.

WEBLAF Detail

**WFN - WFN**  
SERVICE data for LAF: 16767

Requestor Data  
MSO Data  
System/HE Data  
Service Data  
Contact Data  
Submit:

Service - **WFN Primary**  **Secondary (Check = YES)**

Satellite Model: AMC-10  
Receiver Model: SA-9854  
Other Desc:

Receiver Type:  Single  Multiple  Single  Multiple

Anchor No.:  
ACP No.:  
Unit Address:  
TID: 100276500493  
IRD/IRT: IRD

Level of Carriage: Digital Tier  
Other Description:  
Language: English  
Channel No.: 315  
Service Subs: 955

Launch Date: 4/11/2011 Test Period Start Date: 4/10/2011 Test Period End Date: 4/10/2011  
Digital Local Ad Insert Capable? YES Will the Affiliate be inserting local commercials on the feed? NO

Done

- Add technical contact information. When finished go to next page and "Submit"

LaunchAuthorization  
Today's Date: 4/7/2011 V: V040611.0900

**WFN - WFN**  
CONTACT data for LAF: 16767

Requestor Data  
MSO Data  
System/HE Data  
Service Data  
Contact Data  
Submit:

VP/GM Marketing Technical MSO Billing

First Name: John Jane Spot  
Last Name: Smith Smith  
Telephone: (555) 555-5555 (555) 555-5555 ( ) - - (555) 555-5555  
Fax: ( ) - - ( ) - - ( ) - -  
Email: john@cablecompany.com jane@cablecompany.com spot@cablecompany.com

Tools  
Print LAF  
Technical Info.  
Save Group

Group: Service/LAF  
 WFN(16767)

Previous Next

Done



WEBLAF Detail

# LaunchAuthorization

Today's Date: 4/7/2011 V V040611.0900

**WFN - WFN**

COMMENT/ATTACHED data for LAF: 16767

>>>>>> <<<

Requestor, please enter any comments for this LAF (1000 char. max.)

Please select file to upload for your LAF (i.e. Zip Code List or System List.)

When finished filling out your LAF, please select the SUBMIT button.

**LAF Section**  
Requestor Data  
MSO Data  
System/HE Data  
Service Data  
Contact Data  
Submit

**Tools**  
Print LAF  
Technical Info.  
Save Group

**Group: Service/LAF**  
WFN(16767)

Internet 105

- If you have any questions on how to complete this form please contact Dave Munroe, Director of Affiliate Marketing, (720) 873-5026 or [dmunroe@worldfishingnetwork.com](mailto:dmunroe@worldfishingnetwork.com).