



WFN: WORLD FISHING NETWORK

Transmission Information

Last edited January 9, 2014

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 #	11	12
PMT PID	5011	5012
VIDEO PID	1110	1210
PCR PID	1110	1210
AUDIO 1 PID	1100	1200
DPI PID	1140	1240

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, HDSDI, 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.

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

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)

RF 1 Active			
Act			

(up-arrow 2x)

Input IQ	Net ID		
Auto	799		

(up-arrow 1x)

Modulation	Rolloff		
DVB-S2	0.20		

(up-arrow 1x)

Freq (GHz)	Sym Rate	FEC	L-Band
3.9845	22.5	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	130 WFN Primary
PE2	130 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)

PE Resync	ALL	Template	PIDs	Svcs
PE1				

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
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19	10*
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*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)

888-949-4786

8) Receiver Replacement

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



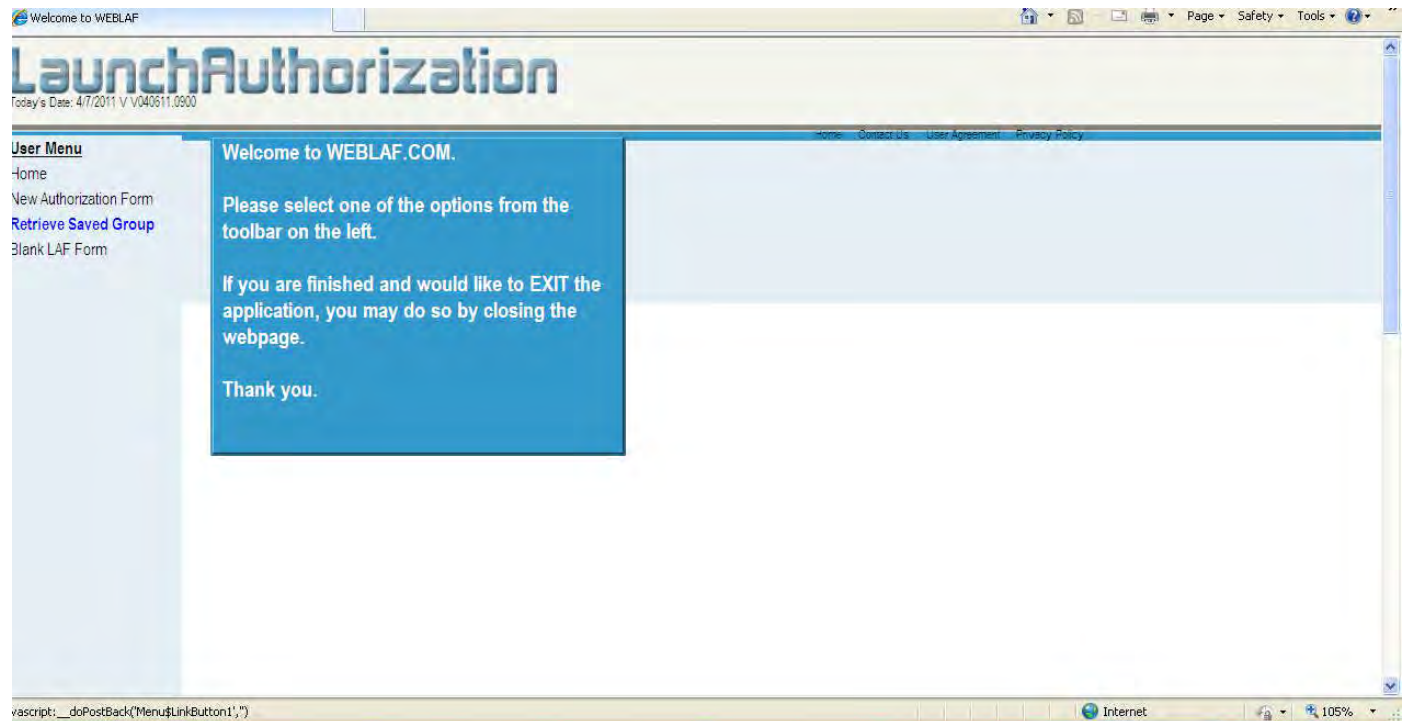
WEB LAF AUTHORIZATION INSTRUCTIONS

WWW.WEBLAF.COM

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

WEBLAF Detail

LaunchAuthorization

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

LAF Section

- Requestor Data
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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

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

- Add information as needed

The screenshot shows the WEBLAF Detail web application interface. The form is divided into several sections:

- Service Data:** Contains fields for Sys/HE Name, Address, City, Country (USA), Province/State, Postal Code, County, and DMA (Not Known).
- Tools:** Includes links for Print LAF, Technical Info, and Save Group.
- Group: Service/LAF:** Contains a radio button for WFN(16767) and fields for Distribution (CABLE), Basic Subs (6255), Analog Subs (6255), Digital Subs (2654), and HD Subs (645).
- System Existence:** Includes a dropdown for MATURE, Acquired From, and Date Acquired.
- Remit. System Name:** John Doe Cable Company.
- Number of systems/areas served by this headend:** 6.
- Enter Systems served by this Headend:** A text area for listing systems.
- Enter Postal Codes served by this Headend:** A text area containing the postal code list: 55555/55554/55553/55552.

- 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

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 Internet 105%

- 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

VP/GM	Marketing	Technical	MSO Billing
First Name: John	Jane		Spot
Last Name: Smith	Smith		Smith
Telephone: (555) 555-5555	(555) 555-5555		(555) 555-5555
Fax: () - -	() - -	() - -	() - -
Email: john@cablecompany.com	jane@cablecompany.com		spot@cablecompany.com

Previous Next

Group: Service/LAF
WFN(16767)

Done Internet 105%

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.