

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.

<u>D9854 PIDS</u> <u>D9858 PIDS</u>

Passthrough DPM Mapping / ASI

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

| | 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 |

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.

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^{*}MPG-4 output

MPG-2 transcoded output via ASI*

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 proceding 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)

| ٠, | , | |
|----|------------|------------|
| | HD Bitrate | SD Bitrate |

^{*}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



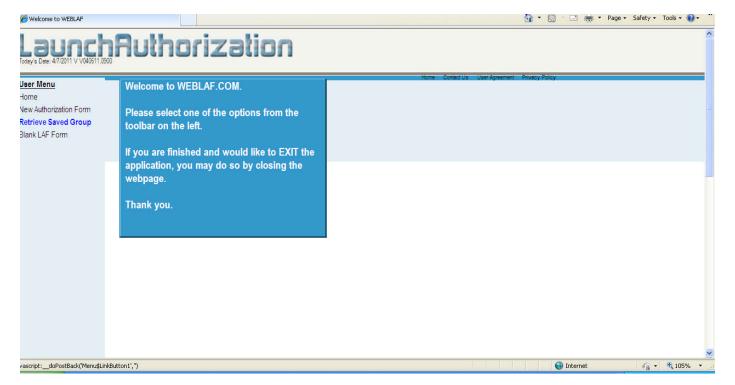
WEB LAF AUTHORIZATION INSTRUCTIONS

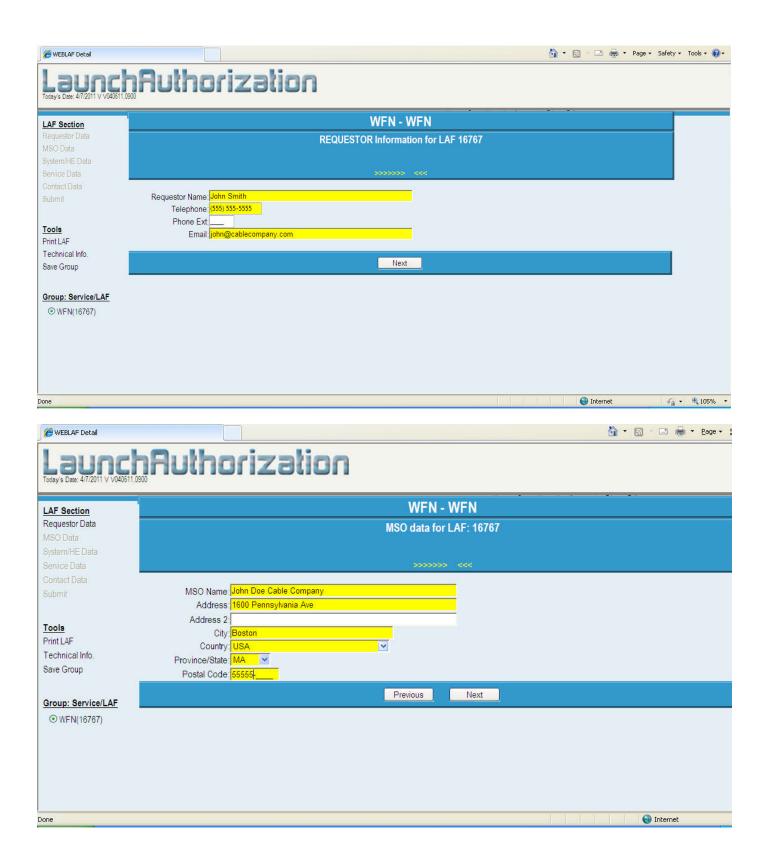
WWW.WEBLAF.COM

LOGIN: wfnlaf PASSWORD: wfn82718

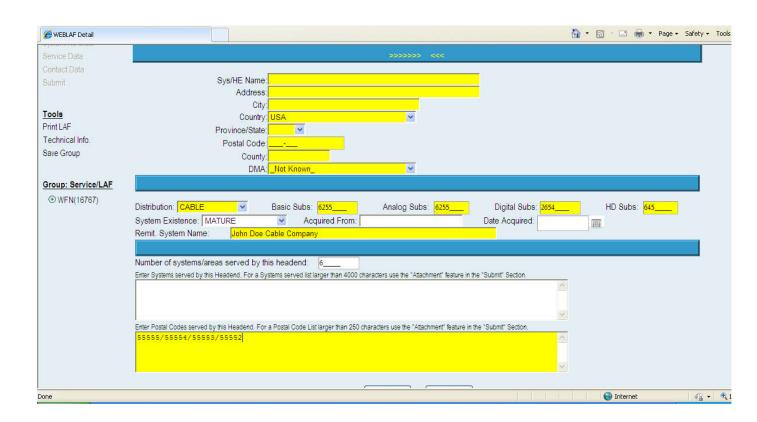
The above credentials are good for all WEBLAF authorization requests.

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

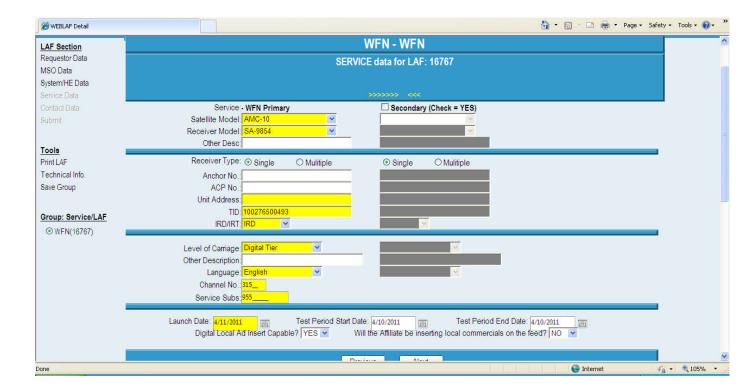




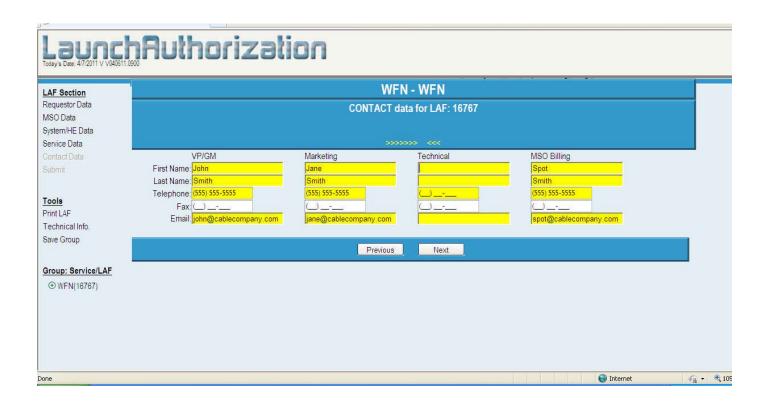
• Add information as needed

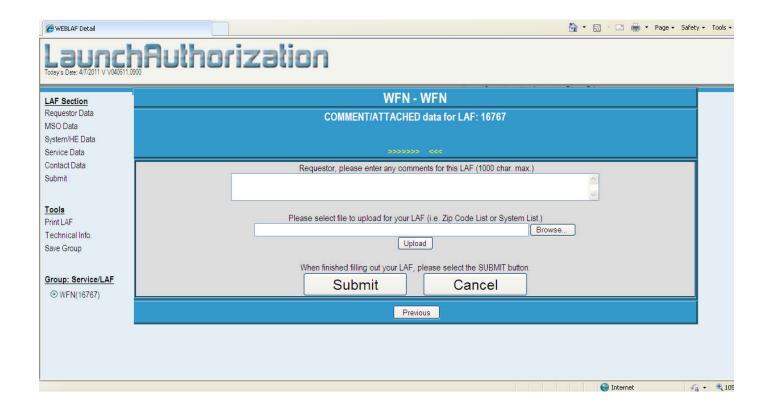


• Satellite Model should be Galaxy 17. Verify Receiver Model, fill in new Unit Address Number. If authorizing both HD and SD, check the **Secondary** tick box and fill out secondary UA number.



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





• 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.