

nautel WAVES

Hello

In this issue we cover the hot topic of translators both for FM & TV, a sneak peek of IBC & Radio Show, IBOC SFN implementation, and hear from customer Jack Roland at K-LOVE, CO.

Do you have a recent Nautel HD Radio™ Solution or a VS Series Translator user story you'd like to share? We'd love to hear from you! Every qualifying story will be entered to win your choice of an iPad mini, a Sonus Play:1 wireless speaker or an Amazon Echo. Odds of winning are usually around 1 in 5! [Submit your story](#) and we'll publish it in a future issue.

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IBC & Radio Show Sneak Peeks

IBC

At this year's IBC Stand 8.C49 Nautel will showcase live demos of: GV, NX and VS transmitters, AUI, digital transmission, and groundbreaking μ MPX ('micro' MPX) with The Telos Alliance.

[Read Wendell Lonergan's Tips for Surviving IBC >](#)



DRM Presentation

Join us in Stand 8.C49 on Saturday, September 10th, 3:30pm – 5:00pm, for “DRM30 – Expanding the Limits”.

Radio Show

At Radio Show in booth #110 Nautel will showcase live demos of a



[SuperPower AM >](#)



[SuperPower FM >](#)

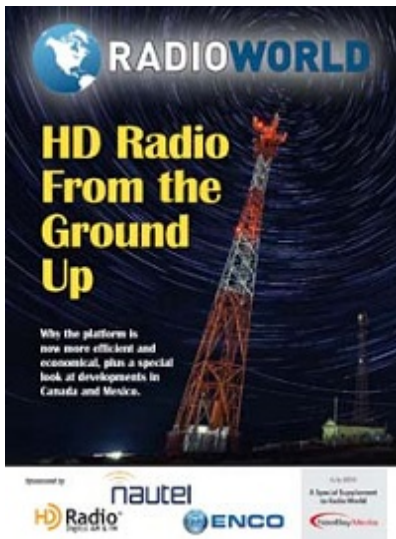
ATSC 3.0

The most disruptive year

[ATSC 3.0 >](#)

[View All Webinars >](#)

Read our Latest eBook!



HD Radio From the Ground Up:

What should someone know who has watched HD Radio from a distance and now wants to get started? Basic questions and groundwork have evolved. This latest Nautel-sponsored eBook explores how a station gets started, what the costs and decisions that it must consider are, and a spotlight on efforts in Canada and Mexico.

[Read more >](#)

Top Facebook Links



[Broadcast Asia 2016 >](#)

J1000, NX5, GV and a VS with Orban Inside, as well as the AUI.

Translators by Jeff Welton

Translators are a hot topic these days. There's "normal" translators, on-channel fill in boosters, translators for providing an analog equivalent of an HD channel and translators for AM rejuvenation, by giving an FM signal to an AM station.



Nautel recently sponsored an eBook on translators which covered information related to considering, acquiring or building a translator facility. Now our knowledgeable Jeff Welton adds his thoughts and considerations in this useful article.

[Read More >](#)

IBOC SFN Implementation: Part 1 Philipp Schmid

Many digital broadcasting standards utilize single frequency networks (SFN) to increase transmission coverage through multiple time synchronized transmissions on the same channel frequency.



In our next issue, Nautel Research Engineer, Philipp Schmid, will present a method to achieve precise input to output time synchronization for In-Band-On-Channel (IBOC) signal transmission across multiple HD Radio transmitters. Schmid will utilize lab results, bit error tests, and a real-world field trial installed at KUSC, Los Angeles, CA, including the equipment used, drive test result and overall system performance. Until then, read Philipp's [NAB Presentation on SFNs and HD Multiplex >](#)

Customer Story: Tight GV40 HD Install at K-LOVE

Jack Roland, EMF K-LOVE/Air1 Engineer, shared with us some great photos from the delivery of his Nautel GV40 HD transmitter to the K-LOVE Mt. Chief, CO, facility. It was a tight installation; he only had 31" to work with!



[Mobile NV3500 HD transmitter! >](#)



[Nautel NX10 at 4RK in OZ >](#)

Upcoming Events

TAB, Aug 10-11
Booth #15
Austin, TX

NBA, Aug 16-17
Lincoln, NE

ABA, Aug 19-20
Hoover, AL

BIRTV, Aug 24-27
Linfair Engineering Stand
Beijing, China

IBC, Sep 9-13
Stand 8.C49
Exhibit Pass Code 4507
Amsterdam, The Netherlands

Radio Show, Sep 21-23
Booth #110
Exhibit Pass Code NA2485
Nashville, TN

Latest Software

All latest software updates
are now available at
Nautel.com >

"I WAS SO HAPPY! Man it worked, my measurements were all right, there was NO ROOM to spare either side, and we still had to take the door hinges off the GV-40! No, we didn't have to use a shoe horn, but it was CLOSE!"

[Read More >](#)



Tips 'n Tricks by Jeff Welton

It's a busy time of year for Jeff so this issue incorporates suggestions from Corey Meyer of New Orleans, LA, as well as some Nautel folks. Also Jeff would like to know your favorite engineering/radio/TV related apps.



[Read More >](#)

Submissions for this Tips 'n Tricks column are encouraged and if published you'll receive a Nautel T-shirt. Submissions should be typed and emailed, with high resolution photos, to info@nautel.com using the subject line Tips 'n Tricks.

LPFM Corner by Christy Lynn White

It has been another busy summer for LPFM with several stations hitting the airwaves. Earlier this year at the NAB show, FCC Commissioner Clyburn called the LPFM expansion (which has seen 1,900 construction permits this window) a "phenomenal success story [that] will result in a diversity of new viewpoints and hyper local content." Within the 2001-2013 window, 1,575 out of 2,498 LPFMs are on the air. Read Commissioner Clyburn's full comments at [Radio World >](#)



We have also seen a lot of construction permit extensions; when you're ready, Nautel is here to help. The Nautel VS300LP transmitter offers a range of features including the advanced user interface (AUI) providing advanced metering and instrumentation, back-up USB audio playlists, internal RDS and more. Hear about the VS300LP features from users on our [LPFM page >](#)

Nautel currently has an LPFM promotion running, providing new LP stations with an Orban Inside processing card at no charge with the purchase of their transmitter, [learn more >](#)



FREE **orban**
OR \$1,000 \$2,000 \$3,000
Discounts on all **VS Series**
nautel.com/OrbanFree123 **nautel**

If you are interested in learning more about the [Nautel VS300LP transmitter for LPFM](#) please contact Christy White directly at christy.white@nautel.com

TV Update by Fred Baumgartner

In this issue, Fred covers TV Translators and the conversion to ATSC 3.0.

[Read More >](#)

Submissions for this TV Update column are encouraged and if published you'll receive a Nautel T-shirt. So please give Fred a call at 303-325-7988, or better yet,



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