



Hello

In this issue we hear about Nautel upgrading Europe's most powerful MW station, IBOC SFN implementation, and customer Dave Kalahar's AUI experience at KQMX, CA.

Also, early bird registration is now open for the **Annual NUG@NAB Event** on Sunday April 23, 2017 at The Flamingo Las Vegas. [Register for the NUG@NAB now >>](#)

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In This Issue

[Nautel to Update Europe's Most Powerful MW Station](#)

[IBOC SFN Implementation: Part 2 by Philipp Schmid](#)

[Customer Story: Mountaintop Site Makes AUI Control a Wise Choice](#)

[Tips 'n Tricks by Jeff Welton](#)

[LPFM Corner by Christy Lynn White](#)

[TV Update by Fred Baumgartner](#)

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Nautel to Update Europe's Most Powerful MW Station

Antenna Hungaria's two-megawatt transmission facility near Solt, Hungary, is getting an upgrade from Nautel. The AM and FM broadcast transmitter manufacture will install an NX2000 medium wave system. The project will include large infrastructure changes as well as a new transmitter and is expected to be completed in the fall of 2017.

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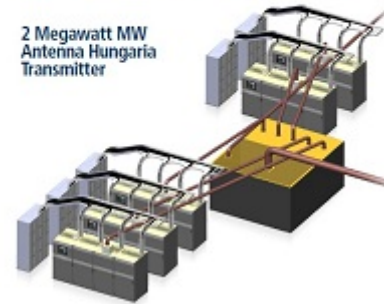
* Submit a qualifying story about a recent experience with a **Nautel HD Radio Solution** and you'll be entered for an iPad mini, a Sonus Play:1 wireless speaker or an Amazon Echo. Odds are usually 1 in 5!
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The new Nautel system will incorporate five Nautel NX400 transmitters with a combiner. Working with Porion Digital KFT, the companies will interface with the existing medium voltage supply, coordinate building modifications for the new transmitter, and provide required air handling equipment.

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BUILDING THE BIGGEST

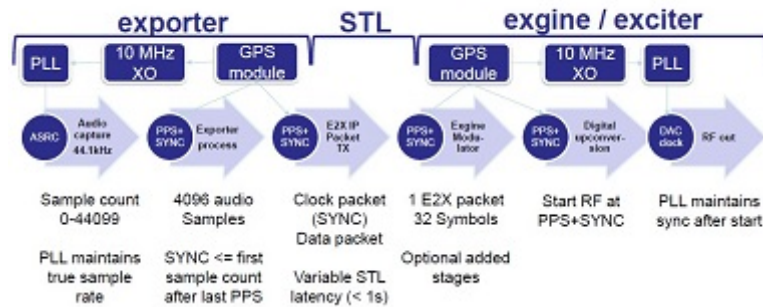
2 Megawatt MW Antenna Hungaria Transmitter



IBOC SFN Implementation: Part 2 by 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.

IBOC SFN Pipeline



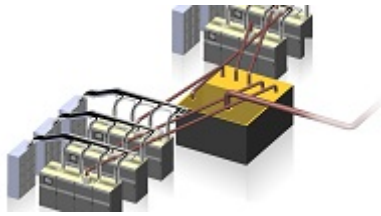
In Part 2 of this article, Nautel Research Engineer Philipp Schmid presents a method to achieve precise input to output time synchronization for In-Band-On-Channel (IBOC) signal transmission across multiple HD Radio transmitters. Schmid utilizes lab results, bit error tests, and a real-world field trial installed at KUSC, Los Angeles, CA, including the equipment used, drive test result and overall system performance.

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Customer Story: Mountaintop Site Makes AUI Control a Wise Choice

Dave Kalahar's challenge at KQMX was the transmitter site's remote location up a 3,400 feet high mountaintop more than two hours' drive from the studio. Remote control and monitoring were extremely

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Upcoming Events

OAB Eng. Conf., Oct 27
Columbus, OH

WABE Conv., Nov 6-8
Calgary, AB

ABA (Alaska) Conv., Nov 10-11
Anchorage, AK

IBA Conf., Nov 17
Carmel, IN

SCBA Winter Conf., Jan 26
Columbia, SC

BES Expo, Feb 2-4
New Delhi, India

Annual NUG@NAB Event, April 23
The Flamingo Las Vegas, NV
[Early Bird Registration >>](#)

important in his decision to purchase a Nautel VS Series 2.5 kW transmitter.

“This [AUI interface over the internet] has simply been the easiest, most feature-rich solution ever! ...one of the best choices we made for the operation of KQMX. Complete control and monitoring of the transmitter from anyplace I go... home, my iPad or really anyplace.”

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Tips 'n Tricks by Jeff Welton

As Jeff prepares for winter in the northern hemisphere he asks "what do you do to get ready for winter?" He highlights a 'remote wiring' case that demonstrates the importance of keeping your transmitter clean and cool, and follows up on last issue's discussion on slide rules and broadcast / engineering related apps.



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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

There's been a lot of chatter recently about certified transmitters for LPFM. To assist compliance with the most frequently violated regulations, the FCC has created a [Low Power FM Station Self-Inspection Checklist](#) which states “Only transmitters that have been granted FCC certification shall be used at LPFM stations. Certified transmitters will have a permanently attached label bearing an FCC identifier.”



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It's important to note that Nautel's VS300LP has FCC certification and every VS300LP transmitter ships with the required label bearing the FCC identifier. [Read answers on this and other VS300LP FAQs.](#)

Take advantage of our no-charge Orban Inside processing card with every VS300LP transmitter. For more information on this and the [Nautel Type Certified VS300LP transmitter for LPFM](#) please contact Christy White directly at 1-877-662-8835 or christy.white@nautel.com

TV Update by Fred Baumgartner

In this issue, Fred asks, "How big can an SFN be?" With the pending shift to ATSC 3.0. and TV moving towards SFN OFDM networks, Fred discusses why the biggest limitation on SFNs is not the technology.

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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, drop a note to FredB@Nautel.com.

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