

Chapter 38 of the Society of Broadcast Engineers

SBE

EL PASO - LAS CRUCES - JUÁREZ

APRIL 2016

PO Box 3561 El Paso, TX 79923-3561 www.kint98.com

NEWS

First Element of ATSC 3.0 Approved for Standard

Bootstrap architecture gets the full vote March 28, 2016

By [Deborah D. McAdams](#)

WASHINGTON—The Advanced Television Systems Committee has approved the bootstrap component of its developing broadcast transmission standard. “Bootstrap” refers to the “System Discovery and Signaling” architecture of the ATSC 3.0 physical layer. The bootstrap provides a “universal entry point into a broadcast waveform,” for multiple service types such fixed and mobile television, for example.

It is the first element of ATSC 3.0 to reach standard status. This means there will be no further modifications made to this particular element of the developing ATSC 3.0 standard. The bootstrap signal is one of the five technologies that will comprise the physical layer, the foundation of the standard. The remaining four are at “Candidate Standard” status and await a full

vote.

The bootstrap architecture is “integral to reception,” according to *TV Technology* contributor Doug Lung. “The receiver only has to detect the bootstrap signal to know there is a DTV signal on a channel. The bootstrap signal is much more robust than the payload data, so antenna positioning isn’t likely to be a problem.” (See “[The ATSC 3.0 Physical Layer—Bootstrap Basics](#).” Dec. 23, 2015.)

The bootstrap signal uses a fixed configuration “known to all receiver devices,” the [bootstrap standard document states](#). Another characteristic provided by the bootstrap architecture is the accommodation of future signal configurations, including those not directly associated with the ATSC 3.0 standard:

KTSM-TV

KVIA-TV

KRWG-TV

KBNA-AM/FM & KAMA-AM

KHEY-AM/FM, KPRR-FM & KTSM-AM/FM

KLAQ-FM, KISS-FM & KROD-AM

KPAS-FM-
ALGIE A. FELDER CSBE

KINT98.COM
INTERNET RADIO NETWORK

BURST COMMUNICATIONS
INC.- KIRK BASEFSKY

GIESLER BROADCASTING
SUPPLY INC.

ENTRAVISION
COMMUNICATIONS

SCMS, INC.-

TNT BROADCAST AND
TELECOMMUNICATIONS
CONTRACTORS, INC.-

KSCE-TV

RF Specialties of Texas
Dan Sessler.

KCOS-TV

KELP-AM
ARNOLD McClatchy.

MARSAND, INC.

Ho Tah Say. LLC




TNT
Broadcast & Telecommunication Contractor Inc.
1319 Murchison, El Paso, Texas 79902

Paul V. Terry
President

Mobile: (915) 920-6769
toolhead@juno.com


El Paso Fax: (915) 544-3481
Austin Fax: (512) 829-4911



KPAS-FM
INSPIRATIONAL / GOSPEL RADIO
LISTEN TO 103.1 MHZ. ON YOUR FM DIAL

Algie A. Felder
General Manager

P.O. Box 371010
El Paso, TX 79937
915/851-3382



BURST
WE KNOW WHAT WORKS

8200 S. Akron St., Ste. 111 | Centennial, CO 80112 | www.burstvideo.com

Kirk Basefsky
President

Phone: 303.858.9848
Fax: 303.649.9890
kirkb@burstvideo.com



NewsChannel 9

801 North Oregon
El Paso, TX 79902
915 532-5421
915 532-6793 Fax


KTSM Television
An NBC Affiliate



KEVIN LOVELL
General Manager

KVIA-TV 7
4140 Rio Bravo
El Paso, Texas 79902
Tel. (915) 496-7777
Fax. (915) 532-0070

Website
kvia.com
e-mail
kvia@kvia.com



MARSAND, INC.
Consulting Engineer

AFCCE
SBE-PBE

Matthew A. Sanderford, Jr., P.E.
President

tvcowboy@marsand.com
PO Box 485 • 6100 IH-35W
Alvarado, TX 76009

www.marsand.com
Office: 817-783-5566
FAX: 817-783-5577

“New signal types, at least some of which have likely not yet even been conceived, could also be provided by a broadcaster and identified within a transmitted waveform through the use of a bootstrap signal associated with each particular time-multiplexed signal. Some future signal types indicated by a particular bootstrap signal may even be outside the scope of the ATSC.”

The remaining components of the physical layer at Candidate Standard status include the “Physical Layer Protocol,” which describes the RF transmission system of the waveform. The CS period ends for the PLP April 4. “Signaling, Delivery, Synchronization and Error Protection” defines the “technical mechanisms and procedures pertaining to service signaling and IP-based delivery of a variety of ATSC 3.0 services and contents” over-the-air, via broadband and a hybrid of the two. It will come up for a vote after the CS period ends July 31.

All ATSC 3.0 Candidate Standards are available [here](#).

For a comprehensive list of TV Technology's ATSC 3.0 coverage, see our [ATSC3 silo](#).

See more of Doug Lung's [contributions, including... November 3, 2015](#)

“[Getting Ready for the Re-pack](#)”

After the FCC incentive auction is complete, likely before we transition to ATSC 3.0, many UHF TV stations will have to move to new channels. Many TV translator stations will have to find new channels, if they can

SBE CHAPTER 38 OFFICERS

CHAIRMAN

Antonio Castro
SBE member # 11456.
KFOX/COX retired Chief Eng.
800 Arredondo dr.
El Paso, TX 79912
915-584-1220 home
915-525-8507 cell
farahjac@sbcglobal.net

VICE CHAIRMAN

Carlos Sosa
SBE member # 26533
801 N Oregon St.
El Paso, TX 79902
915-496-4444 Office
csosa@ktsm.com

TREASURER

Walter Hanthorn
SBE member # 18307
KSCE TV
4461 Gen. Maloney
El Paso, TX. 79924
915-269-7583 home
915-532-8588 office

CERTIFICATION COMMITTEE:

David Halperin.

MEMBERSHIP COMMITTEE:

Antonio Castro
Warren Reeves

FREQUENCY COORDINATION

COMMITTEE:

Warren Reeves
Owen Smith

SCHOLARSHIP COMMITTEE:

Rick Vilardell

WB SITE COMMITTEE:

Norbert Miles

SUSTAINING MEMBERSHIP:

Antonio Castro

PROGRAM CHAIRMAN:

Warren Reeves

NEWSLETTER:

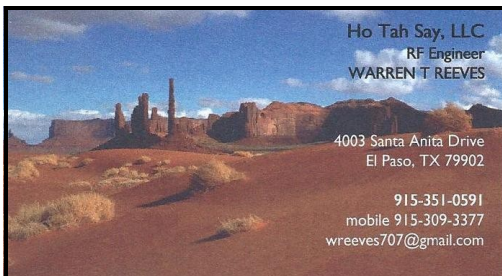
Antonio Castro

EAS CHAIRMAN:

David Halperin

EXECUTIVE COMMITTEE:

Antonio Castro
Carlos Sosa
Walter Hanthorn



Ho Tah Say, LLC
RF Engineer
WARREN T REEVES

4003 Santa Anita Drive
El Paso, TX 79902

915-351-0591
mobile 915-309-3377
wreeves707@gmail.com



ENTRAVISION COMMUNICATIONS CORPORATION
5426 N. MESA • EL PASO, TEXAS 79912

Diana de Lara, Senior Vice-president

KINT TV 26 • KTFN TV 65 • KINT 93.9 FM
KSVE 1150 AM • KHRO 94.7 FM • KOFX 92.3 FM



KAMA 750
Your Favorite AM Radio Station
QUE BUENA!
920 am KBNA 97.5 fm



NM STATE KRWG
TV/FM
npr

www.krwg.org



GIESLER
BROADCASTING
SUPPLY, INC.

800-634-8601

DAN GIESLER
dan@gbs-giesler.com www.gbs-giesler.com



SCMS INC.
YOU KNOW WE KNOW
RADIO

for
Broadcast
Equipment
Solutions

NEW
USED
RENTALS
TRADE-INS

800 438 6040 Sales
704 889 4508
www.scmsinc.com



EAS
Emergency Alert System

EL PASO, TX SBE CHAPTER 38 MEETING MINUTE

DATE **03/08/2016** LOCATION: **COMO'S ITALIAN REST.**

MEETING CALLED TO ORDER: 12:44 PM, BY ANTONIO CASTRO.
THERE WERE 8 MEMBERS.

REPORT OF THE SECRETARY: MINUTES IN THE MARCH NEWSLETTER. ACCEPTED BY NORBERT MILES, SECONDED BY DAVID HALPERIN.

REPORT OF THE TREASURER: \$ 7,380.35 IN THE BANK. ACCEPTED BY NORBERT MILES, SECONDED BY ALFREDO DURAN..

REPORT OF THE CERTIFICATION COMMITTEE: NO REPORT.

REPORT OF THE MEMBERSHIP COMMITTEE: NO REPORT.

REPORT OF THE FREQUENCY COORDINATOR COMMITTEE:
BROADCASTERS TO SHARE THE 2GZ BAND WITH FORT BLISS.

REPORT OF THE SCHOLARSHIP COMMITTEE: NO REPORT.

REPORT OF THE WEBSITE COMMITTEE: 2010 HITS LAST TIME, NOW 2020. (10).

REPORT OF THE EAS CHAIRMAN: BOTH TX AND NM MONTHLY TESTS WERE REC/TRANS. TEST FROM NPT WAS RIGHT.

REPORT OF THE PROGRAM COMMITTEE: KEVIN HILDEBRAND, SALES ENGINEER FOR BURST COMMUNICATIONS WILL INTRODUCE HIMSELF WITH A PRESENTATION

UNFINISHED BUSINESS: WILL UPDATE THE LIST OF E-MAILS AND PHONE NUMBERS OF THE CHAPTER MEMBERS,

NEW BUSINESS OR ANY ITEMS FOR THE CHAPTER INTERES: ENNES WORKSHOP TO BE HELD ON MAY 26, 2016, THURSDAY, AT THE WINHAM AIRPORT. CONFIRMED THAT ATSC.3 WILL BE ONE OF THE MAIN ISSUES

NEXT MEETING DATE AND LOCATION: APRIL 12, AT 6 PM. PLACE: OLD CLEARCHANNEL STUDIOS

MEETING ADJOURNED: AT 13:25 PM.

**EL PASO ENNES WORKSHOP,
MAY 26, 2016**

THURSDAY THIS TIME !!!

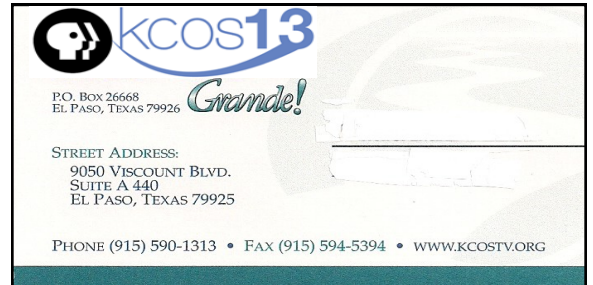
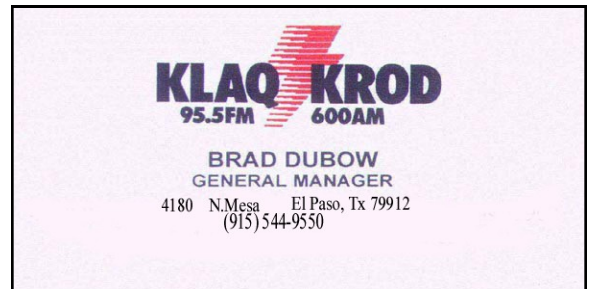
APRIL PROGRAM

There was no presentation for the month of March.

Good news for the month of April, we are going to have **KEVIN HILDEBRAND**, Burst communications Sales Engineer, who is coming to introduce himself and give us a presentation.

When: Tuesday April 12th

Where: iHeartMedia (clear channel) @ 6 PM. West side PIZZA and drinks will be waiting !!!



July 23, 2015

“Getting Ready for ATSC 3.0”

The amount of spectrum devoted to TV broadcasters is shrinking—from a peak of 486 MHz before 1983 to 294 MHz today.

Also see...

May 7, 2015,

“ATSC 3.0 Bootstrap Signal Becomes Candidate Standard”

The first of five components in the Physical Layer transmission standard for ATSC 3.0 has been elevated to “Candidate Standard” status.

NOTES FROM SBE NATIONAL:

1. The new [*SBE Broadcast Engineering Handbook: Hands-on Guide to Station Design and Maintenance*](#) is now available and can be ordered from the SBE Bookstore. It will also be available at the SBE booth during the upcoming NAB Show. It retails for \$199 and the regular SBE member price is \$159, but from now through the end of the NAB Show (April 22) you can get it for just \$139.

2. The SBE has archived the webinar, [*Sharing of the 2025-2110 MHz Band Between DoD and the Broadcast Community*](#), which was held on March 3. The webinar describes future sharing of the band by the Department of Defense with broadcasters and discusses the plan being developed to coordinate its use. There is no cost to view the one hour webinar.

3. Those attending the NAB Show in Las Vegas are invited to attend the [*SBE Membership Meeting*](#) on Tuesday, April 19 at 6 pm in Room S225 of the Las Vegas Convention Center. A member reception will follow at 7 in the same room. Some great prizes will be awarded at both events and food and beverages will be provided at the reception. NAB Show registration is not required for either event.