INVITATION

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SCTE BENELUX

EXCELLENCE IN BROADBAND ®

Connecting professionals

The SCTE™ – The Society for Broadband Professionals has pleasure in announcing the next in its series of Lecture Meetings hosted by the SCTE Benelux Group

SCTE BENELUX LECTURE MEETING

TOPIC:

A Broad(band) Future

- Full Duplex DOCSIS - DOCSIS on Steroids
- Virtual Segmentation
- The Need for Automation of Large-Scale Fibre Roll-Out

Wednesday 24 April 2019

Technetix
Kazemat 5,
3905 NR Veenendaal
The Netherlands
www.technetix.com

Registration by email and lunch at 13.00 pm

CONTACT DETAILS
SCTE Benelux Secretary:
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REGISTER NOW!

THIS MEETING IS HOSTED BY

technetix

A Broad(band) Future

Technetix is a technology company enhancing broadband cable network performance worldwide. Its award-winning RF and optical access technologies enable its customers to optimise their core HFC assets while new innovative technology is pushing the boundaries in the application of distributed access architecture. Our intellectual property is safeguarded with 133 patents.

Technetix has an extensive global network in Europe and the Americas, selling over 110 million products annually to 69 countries. Since its inception in 1990, it has built collaborative and strategic partnerships with leading blue-chip broadband cable operators.

BOOKING DETAILS:

On this occasion, there will be no charge for SCTE Members and non-Members to attend. However, for catering and registration purposes, please confirm your attendance with the Benelux Secretary (details overleaf) giving the names of any additional people attending.

12.30 - 13.30   Arrivals / Welcome Lunch

13.30 - 13.35   Chairman's Welcome

13.35 - 14.15   "Full Duplex DOCSIS – DOCSIS on Steroids"
Dr. Alexander Adams, MD
ADAMS NETWORK ENGINEERING GmbH & Co. KG

DOCSIS 3.1 has significantly increased the available bandwidth and capacity flexibility of data service over cable by the use of OFDM/OFDMA as a new physical layer modulation technique. The addition of Full-Duplex (FDX) simultaneous transmission and reception within the same frequency band introduces additional considerations that did not need to be addressed in previous versions of DOCSIS. Concurrent Full Duplex transmission introduces interference and reflections back towards the source of transmission. These must be cancelled in an effective manner for the reception of signals travelling in opposite directions within the same frequency band.

This presentation will illustrate the workings of FDX-DOCSIS by explaining the Full Duplex frequency architecture based on OFDMA and OFDMA, the concepts of adjacent- and co-channel interference (ACI and CCI) and the sounding process executed by cable modems to be allocated to interference groups. The importance of echo-cancellation as a crucial parameter of FDX-DOCSIS will be emphasised, as well as the operation of FDX in a Remote PHY/MacPHY environment.

14.15 -14.30   Discussion with Audience

14.30 - 15.15   "Virtual Segmentation"
Gerrit Boskaljon, CTO Technical Director – Headend
TECHNETIX

This presentation covers an overlay solution which can be applied in existing networks. An additional 10Gbps Ethernet connection is created, replacing the optical link to a Remote PHY and using the existing coaxial infrastructure.
This solution can also be used as backhaul for 4G, 5G and WiFi hotspots.

15.15 - 16.00   "The Need for Automation of Large-Scale Fibre Roll-Out"
Jan van Kemenade, Manager Marketing & New Business Telecom
TKF

In this presentation, a comparison will be made between the roll-out of coaxial and fibre network trials to achieve a large-scale scenario. In particular, the challenges of a large-scale fibre roll-out will be highlighted. Practical examples will show the process - using robots is crucial. Finally, the phenomenon of IoT will be reviewed as well as its application in fibre networks.

16.00 -17.00   Live Presentation of Technetix Virtual Segmentation

Closing and Snacks

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Connecting to **knowledge**
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