

What Is Ofdm Scte

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What Is Ofdm Scte

Description: Orthogonal Frequency Division Multiplexing (OFDM) will be used by cable operators to deliver higher speed data services and increase the capacity of their HFC access networks and is at...

SCTE Tech Tip: Orthogonal Frequency Division Multiplexing (OFDM)

Anatomy of an OFDM signal. Data subcarriers Each subcarrier is a narrow bandwidth QAM signal. Active subcarriers in a 192 MHz-wide channel: 7600 subcarriers with 25 kHz spacing (called "8K FFT") or 3800 subcarriers with 50 kHz spacing (called "4K FFT") © 2018 Cisco and/or its affiliates. All rights reserved.

DOCSIS® 3.1 Downstream OFDM Field Measurements

Orthogonal frequency division multiplexing (OFDM) is used in the DOCSIS 3.1 downstream. Up to 7600 narrow-bandwidth, active subcarriers make up one OFDM channel. Each subcarrier carries a small percentage of the total data payload at a very low data rate. The upstream counterpart is called OFDMA, or orthogonal frequency division multiple access.

DOCSIS 3.1 An Overview

OFDMA builds on OFDM, or orthogonal frequency division multiplexing. A key component of OFDM is its orthogonality and its non-overlapping subcarriers. Orthogonality is independence or non-interference between members of a group, in our case a group of RF subcarriers.

Is OFDM Wi-Fi 6's Superpower?

Daniel Howard, SCTE CTO July 16, 2013 . VIDEO • OFDM: Orthogonal Frequency Division Multiplexing OFDM sub-carriers can be packed tightly without interfering with each other And they fall off faster at band edges THE OFDM CONCEPT SC-QAM OFDM Mathematical ...

DOCSIS 3.1 - LaFibre

OFDM, OFDMA, LDPC (Low Density Parity Check) New DS and US Spectrum Re-use of the D3.0 MAC Concepts D3.1 offers Throughput and Services equivalent to FTTH but much more cost - effectively. What is DOCSIS 3.1? CONFIDENTIAL 3.1 | Bootcamp 7

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SCTE Introduction to DOCSIS 3.1 Course

Orthogonal Frequency Division Multiplexing (While DSSS used a high modulation rate for the symbols it sends, OFDM uses a relatively slow modulation rate for symbols.

3.1 Docsis Flashcards | Quizlet

Data Over Cable Service Interface Specification (DOCSIS / 'dɒksts /) is an international telecommunications standard that permits the addition of high-bandwidth data transfer to an existing cable television (CATV) system.

DOCSIS - Wikipedia

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Tremendous Insight in the DOCSIS 3.1 OFDM Haystack For most of us who have spent any time in the field troubleshooting RF problems, modulation error ratio (MER) is a metric to quickly assess the quality of a single carrier quadrature amplitude modulation (SC-QAM) channel that is 6 MHz wide (8 MHz in other parts of the world).

CCAP and Cable Modems the New Rock Stars in DOCSIS 3.1 ...

The SCTE-ISBE Cable-Tec Expo 2020 Program Committee is co-chaired by Ed Marchetti of Comcast and Tom Monaghan of Charter. The 2020 Fall Technical Forum Targeted Key Areas: Lessons Learned from COVID-19 Pandemic Critical components of a connected community for managing a public health crisis

Fall Technical Forum - Cable-Tec Expo 2020 - expo.scte.org

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OFDM Archives | Broadband Library

A D3.1 OFDM Channel is comprised of individual subcarriers Spaced at either 25KHz or 50KHz Each subcarrier carries a small percentage of the total data payload at a very low data rate. The aggregate of all of the subcarriers' data rates comprises the total data payload.

An Overview - SCTE-ISBE San Diego Chapter - SCTE San Diego ...

DOCSIS 3.1 uses a new physical layer based upon Orthogonal Frequency Division Multiplexing (OFDM) and an error correction scheme called Low Density Parity Check (LDPC). The data path consists of one or more OFDM channels. Each OFDM channel has a PHY link channel (PLC) for initializing cable modems (CMs).

Remote PHY for Converged DOCSIS, Video, and OOB White ...

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Section Six - Downstream OFDM channel. Section Seven - Upstream OFDMA channel. Section Eight - Modulations. Section Nine - FEC. Section Ten - Introduction to Measurements. Duration: Self Study using the SCTE LMS : Certification: SCTE Introduction to DOCSIS 3.1 Technology Certificate :

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