

Radio Network Planning And Optimisation For Umts

SON has been codified within 3GPP Release 8 and subsequent specifications in a series of standards including 36.902, as well as public white papers outlining use cases from the NGMN. The first technology making use of SON features will be Long Term Evolution (LTE), but the technology has also been retro-fitted to older radio access technologies such as Universal Mobile... 08b269a667

Self-organizing network self-organizing network (SON) is an automation technology designed to make the planning, configuration, management, optimization and healing of mobile radio access A self-organizing network (SON) is an automation technology designed to make the planning, configuration, management, optimization and healing of mobile radio access networks simpler and faster. SON functionality and behavior has been defined and specified in generally accepted mobile industry recommendations produced by organizations such as 3GPP (3rd Generation Partnership Project) and the NGMN (Next Generation Mobile Networks) 08b269a667

Code-division multiple access CDMA is an example of multiple access, where several transmitters can send information simultaneously over a single communication channel. (2002). ISBN 9781119991908. , eds. for UMTS: HSPA Evolution and LTE. This allows several users to share a band of frequencies (see bandwidth). Radio Network Planning and Optimisation Code-division multiple access (CDMA) is a channel access method used by various radio communication technologies. John Wiley & Sons. Laiho, J. To permit this without undue interference between the users, CDMA employs spread spectrum technology and a special coding scheme (where each transmitter is assigned a code). ; Wacker, A. ; Novosad, T 08b269a667

The power to feed the amplifier (in the top of the mast) is usually a DC component on the same coaxial cable that feeds the antenna, otherwise an extra power cable has to be run to the TMA/MHA to supply it with power. 08b269a667 CDMA optimizes the use of available bandwidth as it transmits over the entire frequency range and does not limit the user's frequency range. 08b269a667

P-SCH The P-SCH is a pure downlink physical channel broadcast over the entire cell. 2007. John Wiley & Sons Ltd. Evolution to 4G. Pages 89 and 92. P-SCH stands for "Primary Synchronisation Channel" in Universal Mobile Telecommunications System. ISBN 978 0 470 01471 4. 5G/3G. Advanced Cellular Network Planning and Optimisation: 2G/2 08b269a667

The S-SCH is repeated at the beginning of each time slot and the same code is used by all the cells and enables the UE to detect the existence of the UMTS cell. The slot synchronization is done using the P-SCH but S-SCH is used to synchronize the UE with the frame boundaries. It also enables the UE to identify the Primary Scrambling Code Group for the cell. 08b269a667

Discontinuous transmission ISBN 978-0-470-86267-4 Discontinuous transmission (DTX) is a means by which a mobile telephone is temporarily shut off or muted while the phone lacks a voice input. Evolution to 4G. Mishra, Ajay R. John Wiley & Sons. 5G/3G. 2024-04-29. Fundamentals of Cellular Network Planning and Optimisation: 2G/2. (2004-05-21) 08b269a667

S-SCH v t e S-SCH stands for "Secondary Synchronization Channel in UMTS" (Universal Mobile Telecommunications System). 2007. Evolution to 4G. ISBN 978 0 470 01471 4. 5G/3G. John Wiley & Sons Ltd. Cellular Network Planning and Optimisation: 2G/2. Pages 89 and 92 08b269a667

It is transmitted unscrambled during the first 256 chips of each time slot, in time multiplex with Primary Common Control Physical Channel (P-CCPCH). It is the only channel that is not spread over the entire radio frame. The P-SCH is repeated at the beginning of each time slot and the same code is used by all the cells and enables the UE to detect the existence of the UMTS cell and to synchronize itself on the time slot boundaries. This is normally done with a single matched filter or any similar device. The slot timing of the cell is obtained by detecting peaks in the matched filter output. 08b269a667 It is used as the access method in many mobile phone standards. IS-95, also called "cdmaOne", and its 3G evolution CDMA2000, are often simply referred to as... 08b269a667 This channel is used in conjunction... 08b269a667

Tower Mounted Amplifier Low-noise block converter Laiho; Wacker; Novosad (2002). A TMA reduces the base transceiver station noise figure (NF) and therefore improves its overall sensitivity; in other words the mobile mast is able to receive weaker signals. London: John Wiley & Sons, Ltd. ISBN 0-471-48653-1 A Tower Mounted Amplifier (TMA), or Mast Head Amplifier (MHA), is a low-noise amplifier (LNA) mounted as close as practical to the antenna in mobile masts or base transceiver stations. Radio Network Planning and Optimisation for UMTS 08b269a667

S-SCH is a pure downlink physical channel broadcast over the entire cell. It is transmitted unscrambled during the first 256 chips of each time slot, in time multiplex with Primary Common Control Physical Channel (P-CCPCH). It is the only channel that is not spread over the entire radio frame. 08b269a667

Femtocell It typically connects to the service provider's network via the Internet through a wired broadband link (such as DSL or cable); current designs typically support four to eight simultaneously active mobile phones in a residential setting depending on version number and femtocell hardware, and eight to sixteen mobile phones in enterprise settings. A broader term which is more widespread in the industry is small cell, with femtocell as a subset. A femtocell allows service providers to extend service coverage indoors or at the cell edge, especially where access would otherwise be limited or unavailable. Although much attention is focused on WCDMA, the concept is. 2011. Interference management in UMTS femtocells — complete paper[usurped], February 2010 Interference management in UMTS femtocells — summary paper[usurped] In telecommunications, a femtocell is a small, low-power cellular base station, typically designed for use in a home or small business 08b269a667

There are sixteen different codes for... 08b269a667

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