

Chapter 1 : Smartphone - Wikipedia

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In addition to placing and receiving cellular calls, the touchscreen-equipped Simon could send and receive faxes and emails. It included an address book, calendar, appointment scheduler, calculator, world time clock, and notepad, as well as other visionary mobile applications such as maps, stock reports and news. In 1992, while he was working with Boeing in Huntsville, Alabama, Paraskevakos demonstrated a transmitter and receiver that provided additional ways to communicate with remote equipment. This formed the original basis for what is now known as caller ID. The original and historic working models are still in the possession of Paraskevakos. These operating systems would later evolve into early mobile operating systems. Most of the "smartphones" in this era were hybrid devices that combined these existing familiar PDA OSes with basic phone hardware. The results were devices that were bulkier than either dedicated mobile phones or PDAs, but allowed a limited amount of cellular Internet access. The trend at the time, however, that manufacturers competed on in both mobile phones and PDAs was to make devices smaller and slimmer. The bulk of these smartphones combined with their high cost and expensive data plans, plus other drawbacks such as expansion limitations and decreased battery life compared to separate standalone devices, generally limited their popularity to "early adopters" and business users who needed portable connectivity. The two components were attached by a hinge in what became known as a clamshell design, with the display above and a physical QWERTY keyboard below. The PDA provided e-mail; calendar, address book, calculator and notebook applications; text-based Web browsing; and could send and receive faxes. When closed, the device could be used as a digital cellular telephone. It supported limited Web browsing with the PDA software treating the phone hardware as an attached modem. The model had a thumb-type keyboard and the g version had a Graffiti handwriting recognition area, instead. Limited functionality, small screens and limited bandwidth allowed for phones to use the slower data speeds available. The rise of i-mode helped NTT DoCoMo accumulate an estimated 40 million subscribers by the end of 2000, and ranked first in market capitalization in Japan and second globally. This power would later wane in the face of the rise of 3G and new phones with advanced wireless network capabilities. Japanese cell phones increasingly diverged from global standards and trends to offer other forms of advanced services and functionality, such as mobile payments, near-field communication NFC, and 1seg mobile television. Later, in the mids, business users in the U. From onwards, Nokia started producing consumer-focused smartphones, popularized by the entertainment-focused Nseries. Some smartphones had resistive touchscreens, which allowed for virtual keyboards and handwriting input with a finger or a stylus, thus also allowing easy entry of Asian characters. The iPhone was also designed around a large capacitive touchscreen, but added support for multi-touch gestures for interactions such as "pinching" to zoom in and out on photos and web pages. Such phones were notable for abandoning the use of a stylus, keyboard, or keypad typical for smartphones at the time, in favor of a capacitive touchscreen for direct finger input as its only input type. The first iPhone also faced criticism for not supporting the latest 3G wireless network standards, but was praised for its hardware and software design, and its June release was met with heavy demand, with customers waiting in lines outside Apple Store locations to be among the first to purchase it. The advantages of a design around a capacitive touchscreen, affected the development of another smartphone OS platform, Android, with a more BlackBerry-esque prototype device scrapped in favor of a touchscreen device with a slide-out physical keyboard. Microsoft, for instance, discontinued Windows Mobile and started a new touchscreen-oriented OS from scratch, called Windows Phone. Nokia abandoned Symbian and partnered with Microsoft to use Windows Phone on its smartphones. Windows Phone became the third-most-popular smartphone OS, before being replaced by Windows 10 Mobile, which declined in share to become "largely irrelevant" at less than 0. BlackBerry Limited, formerly known as Research In Motion, made a new platform based on QNX, BlackBerry 10, with which it was possible to control a device without having to press any physical buttons; this platform was later discontinued. By the mids, almost all smartphones were

touchscreen-only, and Android and iPhone smartphones dominated the market. Developments in the s The iPhone X. In , Fairphone launched its first "socially ethical" smartphone at the London Design Festival to address concerns regarding the sourcing of materials in the manufacturing. These designs allow the display to have a larger physical size, but with a slimmer width than These designs allow for "edge-to-edge" displays that take up nearly the entire height of the device, with little to no bezel along the top. This design characteristic was popularized by the Essential Phone which featured a circular tab for its camera and iPhone X which used a wider tab to contain a camera and facial scanning system. Please update this article to reflect recent events or newly available information. April An example of a flexible display Foldable OLED smartphones have been anticipated for years but have failed to materialize because of the relatively high failure rate when producing these screens. Samsung is still on some finishing touches which after then may become the first OLED or flexible smartphone made. Mobile phone features Central processing unit Smartphones have central processing units CPUs , similar to those in computers, but optimised to operate in low power environments. Mobile CPU performance depends not only on the clock rate generally given in multiples of hertz [65] but also the memory hierarchy also greatly affects overall performance. Because of these problems, the performance of mobile phone CPUs is often more appropriately given by scores derived from various standardized tests to measure the real effective performance in commonly used applications. Display device A smartphone touchscreen One of the main characteristics of smartphones is the screen. Many smartphone displays have an aspect ratio of Screen sizes are measured in diagonal inches ; phones with screens larger than 5. Due to design advances, some modern smartphones with large screen sizes and "edge-to-edge" designs have compact builds that improve their ergonomics, while the shift to taller aspect ratios have resulted in phones that have larger screen sizes whilst maintaining the ergonomics associated with smaller Sound quality can remain a problem due to the design of the phone, the quality of the cellular network and compression algorithms used in long distance calls. The small speakers can also be used to listen to digital audio files of music or speech or watch videos with an audio component, without holding the phone close to the ear. In , Samsung had to recall millions of the Galaxy Note 7 smartphones due to an explosive battery issue. Cases range from relatively inexpensive rubber or soft plastic cases which provide moderate protection from bumps and good protection from scratches to more expensive, heavy-duty cases that combine a rubber padding with a hard outer shell. Some cases have a "book"-like form, with a cover that the user opens to use the device; when the cover is closed, it protects the screen. Some "book"-like cases have additional pockets for credit cards, thus enabling people to use them as wallets. Accessories include products sold by the manufacturer of the smartphone and compatible products made by other manufacturers. Mobile operating system A mobile operating system or mobile OS is an operating system for phones, tablets , smartwatches , or other mobile devices. Mobile operating systems combine features of a personal computer operating system with other features useful for mobile or handheld use; usually including, and most of the following considered essential in modern mobile systems; a touchscreen , cellular , Bluetooth , Wi-Fi Protected Access , Wi-Fi , Global Positioning System GPS mobile navigation, video- and single-frame picture cameras , speech recognition , voice recorder , music player , near field communication , and infrared blaster. By Q1 , over million smartphones were sold with Mobile devices with mobile communications abilities e. Research has shown that these low-level systems may contain a range of security vulnerabilities permitting malicious base stations to gain high levels of control over the mobile device. Mobile app A mobile app is a computer program designed to run on a mobile device, such as a smartphone. The term "app" is a shortening of the term "software application". Application stores Main article: There are a huge variety of apps, including video games , music products and business tools. Up until that point, smartphone application distribution depended on third-party sources providing applications for multiple platforms, such as GetJar , Handango , Handmark , and PocketGear. The situation was caused by the maturing China market.

Chapter 2 : Samsung Galaxy S8 and S8+ - The Official Samsung Galaxy Site

Mobile phone use while drivingâ€”including calling, text messaging, playing media, web browsing, gaming, using mapping apps or operating other phone featuresâ€”is common but controversial, since it is widely considered dangerous due to what is known as distracted driving.

Acoustic telephone ad, The Consolidated Telephone Co. Innocenzo Manzetti first mooted the idea of a "speaking telegraph" or telephone. Use of the "speaking telegraph" and "sound telegraph" monikers would eventually be replaced by the newer, distinct name, "telephone". Reis also used his telephone to transmit the phrase "Das Pferd frisst keinen Gurkensalat" "The horse does not eat cucumber salad". Manzetti illustrated his method for transmitting spoken words on the telegraph wire intend to apply said invention in England on several private telegraph lines". However telephones would not be demonstrated there until , with a set of telephones from Bell. Antonio Meucci files patent caveat No. Patent Office titled "Sound Telegraph", describing communication of voice between two people by wire. Meucci, after having renewed the caveat for two years does not renew it again, and the caveat lapses. Patent , "Transmitters and Receivers for Electric Telegraphs" is granted. This uses multiple vibrating steel reeds in make-break circuits. Elisha Gray invents a liquid transmitter for use with a telephone but does not build one. Gray files a patent caveat for transmitting the human voice through a telegraphic circuit. Alexander Graham Bell applies for the patent "Improvements in Telegraphy", for electromagnetic telephones using what is now called amplitude modulation oscillating current and voltage but which he referred to as "undulating current". Gray is notified by the U. Gray decides to abandon his caveat. The first successful telephone transmission of clear speech using a liquid transmitter when Bell spoke into his device, "Mr. Watson, come here, I want to see you. Edison files for a patent on a carbon graphite transmitter. The patent , was granted 3 May , after a year delay because of litigation. Edison was granted patent , for a carbon granules transmitter in Early commercial instruments Early telephones were technically diverse. Some used a water microphone , some had a metal diaphragm that induced current in an electromagnet wound around a permanent magnet, and some were dynamic - their diaphragm vibrated a coil of wire in the field of a permanent magnet or the coil vibrated the diaphragm. The sound-powered dynamic variants survived in small numbers through the 20th century in military and maritime applications, where its ability to create its own electrical power was crucial. The Edison patents kept the Bell monopoly viable into the 20th century, by which time the network was more important than the instrument. Early telephones were locally powered, using either a dynamic transmitter or by the powering of a transmitter with a local battery. One of the jobs of outside plant personnel was to visit each telephone periodically to inspect the battery. During the 20th century, telephones powered from the telephone exchange over the same wires that carried the voice signals became common. The earliest dynamic telephones also had only one port opening for sound, with the user alternately listening and speaking or rather, shouting into the same hole. Sometimes the instruments were operated in pairs at each end, making conversation more convenient but also more expensive. At first, the benefits of a telephone exchange were not exploited. Instead telephones were leased in pairs to a subscriber , who had to arrange for a telegraph contractor to construct a line between them, for example between a home and a shop. Users who wanted the ability to speak to several different locations would need to obtain and set up three or four pairs of telephones. Western Union , already using telegraph exchanges, quickly extended the principle to its telephones in New York City and San Francisco , and Bell was not slow in appreciating the potential. Signalling began in an appropriately primitive manner. The user alerted the other end, or the exchange operator , by whistling into the transmitter. Exchange operation soon resulted in telephones being equipped with a bell in a ringer box , first operated over a second wire, and later over the same wire, but with a condenser capacitor in series with the bell coil to allow the AC ringer signal through while still blocking DC keeping the phone " on hook ". Telephones connected to the earliest Strowger switch automatic exchanges had seven wires, one for the knife switch , one for each telegraph key , one for the bell, one for the push-button and two for speaking. Large wall telephones in the early 20th century usually incorporated the bell, and separate bell boxes for desk phones dwindled away in the middle of the century.

Rural and other telephones that were not on a common battery exchange had a magneto hand-cranked generator to produce a high voltage alternating signal to ring the bells of other telephones on the line and to alert the operator. Some local farming communities that were not connected to the main networks set up barbed wire telephone lines that exploited the existing system of field fences to transmit the signal. A cartoon by journalist Marguerite Martyn shows a man using a candlestick telephone. In the 1890s a new smaller style of telephone was introduced, packaged in three parts. The transmitter stood on a stand, known as a "candlestick" for its shape. When not in use, the receiver hung on a hook with a switch in it, known as a "switchhook". Previous telephones required the user to operate a separate switch to connect either the voice or the bell. With the new kind, the user was less likely to leave the phone "off the hook". In phones connected to magneto exchanges, the bell, induction coil, battery and magneto were in a separate bell box or "ringer box". Cradle designs were also used at this time, having a handle with the receiver and transmitter attached, now called a handset, separate from the cradle base that housed the magneto crank and other parts. They were larger than the "candlestick" and more popular. Disadvantages of single wire operation such as crosstalk and hum from nearby AC power wires had already led to the use of twisted pairs and, for long distance telephones, four-wire circuits. Users at the beginning of the 20th century did not place long distance calls from their own telephones but made an appointment to use a special soundproofed long distance telephone booth furnished with the latest technology. A carbon granule transmitter and electromagnetic receiver were united in a single molded plastic handle, which when not in use sat in a cradle in the base unit. The circuit diagram of the model shows the direct connection of the transmitter to the line, while the receiver was inductively coupled. In local battery configurations, when the local loop was too long to provide sufficient current from the exchange, the transmitter was powered by a local battery and inductively coupled, while the receiver was included in the local loop. The dial switch in the base interrupted the line current by repeatedly but very briefly disconnecting the line 1 to 10 times for each digit, and the hook switch in the center of the circuit diagram disconnected the line and the transmitter battery while the handset was on the cradle. In the 1890s, telephone sets were developed that combined the bell and induction coil with the desk set, obviating a separate ringer box. The rotary dial becoming commonplace in the 1890s in many areas enabled customer-dialed service, but some magneto systems remained even into the 1920s. After World War II, the telephone networks saw rapid expansion and more efficient telephone sets, such as the model telephone in the United States, were developed that permitted larger local networks centered around central offices. Ericsson DBH ca.

Chapter 3 : What is a Mobile Phone? - Definition from Techopedia

What makes BLE so special is that it can communicate with a large number of mobile devices find today, phones which run Android, OS X, Windows Phone, iOS and BlackBerry, as well as Linux, and Windows 8 all support BLE. Which means that you can integrate your project easily to make a multi-platformed communication.

The iPhone 3GS was available in both colors, regardless of storage capacity. The iPhone 4 has an aluminosilicate glass front and back with a stainless steel edge that serves as the antennas. It was at first available in black; the white version was announced, but not released until April , 10 months later. This became known as antennagate. Verizon said it would be available for pre-order on February 3, with a release set for February The device comes with the same pixels per inch found in the iPhone 4 and 4S. The iPhone 5C, a mid-range-priced version of the handset that is designed to increase accessibility due to its price is available in five colors green, blue, yellow, pink, and white and is made of plastic. The iPhone 5S comes in three colors black, white, and gold and the home button is replaced with a fingerprint scanner Touch ID. Both phones shipped on September 20, Both devices had a larger screen than their predecessor, at 4. It also unveiled the iPhone X, which features a near bezel-less design, a facial recognition feature dubbed "Face ID" with facial tracking used for Animojis, an OLED screen with the highest pixel density on an iPhone, a new telephoto lens which works better in low light conditions, and improved cameras for AR. Recorded sales grew steadily thereafter, and by the end of fiscal year , a total of For the program to become available, customers must have a valid contract and must purchase a new phone, rather than simply receive credit to be used at a later date. This was the first time that Apple has simultaneously launched two models and the inclusion of China in the list of markets contributed to the record sales result. The multi-year agreement provides iPhone access to over million China Mobile subscribers. The program consists of "low monthly payments", where consumers will gradually pay for the iPhone they have over a month period, with an opportunity to switch upgrade to the new iPhone after 12 months of payment have passed. Once 12 months have passed, consumers can trade their current iPhone with a new one, and the payments are transferred from the old device to the new device, and the program "restarts" with a new month period. Additionally, the program is limited to just the iPhone hardware; cell phone service from a network operator is not included. Phones at the time were designed around carrier and business limits which were conservative with regards to bandwidth usage and battery life. Some market research has found that, unusually for a technology product, iPhone users are disproportionately female.

Chapter 4 : Reading lesson plans: Mobile phones | Onestopenglish

Introduction Bluetooth Low Energy (BLE), sometimes referred to as "Bluetooth Smart", is a light-weight subset of classic Bluetooth and was introduced as part of the Bluetooth core specification.

They are using their phones to stay in touch with friends and parents. They are using them to share stories and photos. They are using them to entertain themselves when they are bored. They are using them to micro-coordinate their schedules and face-to-face gatherings. And some are using their phones to go online to browse, to participate in social networks, and check their emails. This is the sunny side of the story. Teens are also using mobile phones to cheat on tests and to skirt rules at school and with their parents. Some are using their phones to send sexts, others are sleeping with buzzing phones under their pillows, and some are using their phones to place calls and text while driving. While a small number of children get a cell phone in elementary school, the real tipping point for ownership is in middle school. This report particularly highlights the rapid rise of text messaging in recent months. Among them, the typical texter sends and receives 50 texts a day, or per month. By way of comparison a Korean, Danish or a Norwegian teen might send 15 – 20 a day and receives as many. Changes in subscription packages have encouraged widespread texting among US teens and has made them into world class texters. As a result, teens in America have integrated texting into their everyday routines. It is a way to keep in touch with peers even while they are engaged in other social activities. Often this is done discreetly and with little fuss. In other cases, it interrupts in-person encounters or can cause dangerous situations. The phone survey was conducted on landline and cell phones and included youth ages and one of their parents. It was administered from June September 24, The overall survey has a margin of error of 4 percentage points; the portion dealing with teen cell owners involved teens in the sample and has a margin of error of 4 percentage points; the portion dealing with teen texters involved teens in the sample and has a margin of error of 5 percentage points. A brief history of the mobile phone as a technology

The idea for cellular telephony originated in the US. The first cellular call and the first call from a hand held cellular device also were placed in the US. The cell phone merges the landline telephony system with wireless communication. The landline telephone was first patented in The blending of landline telephone and radio communication came after the Second World War. By there were 1. In addition, the telephones were large, energy intensive car-mounted devices. According to communications scholar Thomas Farley, the headlights of a car would noticeably dim when the user was transmitting a call. Rae Young and Douglas Ring of Bell Labs developed the idea of cellular telephony, in which geographical areas are divided into a mesh of cells, each with its own cell tower. Four years later Martin Cooper of Motorola made the first cellular call from a prototype handheld cell phone. Regulation around mobile phones After the inauguration of mobile phone service in the US, a regulatory environment that allowed multiple mobile-calling standards stifled mobile communication development and expansion in the US for several years. Indeed, the growth of the GSM standard in Europe and the rise of DoCoMo in Japan meant that the dramatic developments in the cell phone industry were taking place abroad. In the US, small license areas for mobile phone companies meant that users were constantly roaming outside their core area. A user in Denver would have to pay roaming charges if he or she made or received a call in Ft. Collins, Colorado Springs or Vail. To the degree that texting was available, users could only text to users in their home network. Rather than being a yuppie accessory, the cell phone became widely-used by everyone from the captains of industry and finance to the people who shined their shoes and walked their dogs. As cell phones have become more available, they are increasingly owned and used by children and teens. Further, as handsets become more loaded with capabilities ranging from video recording and sharing, to music playing and internet access, teens and young adults have an ever-increasing repertoire of use. Indeed, we are moving into an era when mobile devices are not just for talking and texting, but can also access the internet and all it has to offer. Understanding how youth use mobile phones is vital to creating effective policy based on the reality of how the technology is used. It is also important to understand how telecommunications company policies and pricing affect how teens and parents use their phones. Previous research on cell phones and teens This report tries to expand a tradition of cell phone research that

extends into the early s, 6 and work on landline telephony as far back as the s. Instead of having to agree on a time and place beforehand, individuals can negotiate the location and the timing of meetings as a situation clarifies itself. Micro-coordination can be used to organize get-togethers and it can be used to sort out the logistics of daily life e. Since the device provides us direct access to one another, it allows us to maintain ongoing interaction with family and friends. Others have examined how teens, as well as others, see the mobile phone as a form of self-expression. Having a cell phone is a status symbol and having a particularly sought after model can enhance our standing among peers. Before the cell phone, there were often discussions in the home as to whether a teen could have a landline extension in her room. The rise of the cell phone has changed the dimensions of this discussion. The cell phone has provided teens with their own communication channel. This access can be used to plan and to organize daily life and it can be used to exchange jokes and endearments. It can also be used to plan mischief of varying caliber, and it can be used to exchange photos that are " literally " the picture of innocence or of depravity. In addition to the telephone survey, the University of Michigan fielded 9 focus groups among teens ages in four cities in June and October of The focus groups queried teens more deeply about attitudes toward and practices around their mobile phone. The study has been guided by a desire to measure the state of affairs around mobile phones and youth in the US " how many, how much, how often, with whom? The report is organized into five chapters. The first chapter covers many of the basic measurements around mobile phones, the demographic variations around their use, and different models of phone ownership. The second chapter of the report looks in depth at text messaging and voice calling, and compares the two modes of communication. It details how families and teens feel about safety and the phone, and the ways in which the phone has become a social and entertainment hub. This chapter also explores how the phone has become an electronic tether between parents and children, and teens and friends, one so potent that teens frequently sleep with their phone under their pillows. The last section of the report details the full set of methods that we used to conduct the research that undergirds this report.

Mobile communication and society: The difference lies in the question wording. For this question, we asked about teens texting friends, but we did not specify the platform computer, cell phone on which the texting was taking place. Please see K9c and K20a in our questionnaire for exact question wording. Mobile technology in everyday life. An investigation of the history of mobile communications. The social impact of the telephone. A Social History of the Telephone to University of California Press. Some concerns about the future of mobile communications in residential markets. In M Christofferson Ed. Limits to deregulation pp. Remote mothering and the parallel shift: Women meet the cellular telephone. Critical studies in mass communication, 10, The Experience of Mobile Telephony in the s. In Leslie Haddon Ed. The Hytte and Mobile Telephones in Norway. Mobile communication, private talk, public performance. Micro and hyper-coordination through the use of the mobile telephone. The Next Social Revolution. Perseus Publishing, Cambridge, MA. Society and space, 22, " New Tech, New Ties: How mobile communication is reshaping social cohesion. Children, youth, and mobile communication. Journal of Children and Media, 1 1 , 60" Enhancing Child Safety and Online Technologies. Internet Safety Task Force. Retrieved January 10, from <http://> Mobile telephone and the presentation of self. Re-negotiation of the Social Sphere pp. Mobile phones in Japanese life. Handbook of Mobile Communication Studies.

Chapter 5 : Flip phone - blog.quintoapp.com

Bluetooth Low Energy (BLE), sometimes referred to as "Bluetooth Smart", is a light-weight subset of classic Bluetooth and was introduced as part of the Bluetooth core specification.

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Chapter 6 : blog.quintoapp.com - Wikipedia

An Introduction to NFC Standards â€¢ Read/Write: In this mode, the NFC enabled phone can read or write data to any of the supported tag types in a.

Ever since the invention of radios, different companies and research centers have had the same goal outlined for their engineers and scientists: What defines a great radio module is not always easy to define, it usually depends of the task which the module has to solve. In other situations, we have small portable devices which notify us of some occurrence, these devices use a battery for power, so the radio modules have to be as energy efficient as possible. When Bluetooth released the the Bluetooth 4. Bluetooth Low Energy further: BLE , or sometimes called Bluetooth Smart. The BLE was actually started by Nokia , as a project once called "Wibree", and was introduced in under that certain name. Which means that you can integrate your project easily to make a multi-platformed communication. One reason for this is that BLE was created so that anyone with some data needed to be sent can use it anyhow they want, which was not the case with Bluetooth, which was conceived for special use cases. In this part 1, we will go over the main used in BLE, we will see what it constitutes of, and talk about the data being transmitted over it. This, of course, is the theoretical upper limit. As far as range goes, BLE is focused on very short range communication. Of course, the higher the range the more battery consumption, so take care when trying to tweak your device for higher range. Application, Host and Controller. Application block is, as the name says, the user application which interfaces with the Bluetooth protocol stack. The Host covers the upper layers of the Bluetooth protocol stack. And the Controller covers the lower layers. The purpose of HCI is, obviously, to interface the Controller with the Host, and this interface makes it possible to interface a wide range of Hosts with the controller. For this purpose we use SPI to communicate, but different interfaces can also be used. While peripheral devices are usually some sensors or low power devices, which connect to the central device. A BLE device can send two types of data: Advertising Packets, and Scan Response Data. Broadcasting is the act of sending data out to all the listening devices. When talking about Broadcasting, we define two roles: The Broadcaster sends non connectable advertising packets periodically to anyone who is willing to accept them. It is important to note that Broadcasting is the only way a device can transmit data to more than one peer at a time. The master central device scans the frequencies for connectable advertising packets, and when suitable, initiates a connection. This is one of the key benefits for power saving - two devices can power up, exchange data, and then go to sleep until the next connection event. Different Layers and their Purposes BLE, like many other wireless technologies, is organized in a number of layers. Each layer has its purpose and plays a significant role in making a BLE device function properly. All the layers and definitions can look quite overwhelming, but we will take it step by step and cover all the necessary fields required to develop a successful project with BLE. Application, Host and Controller: We will cover layers starting from the bottom physical layer , then work up towards the Application. Link Layer The Link Layer is the part that directly interfaces with the physical layer, and it is usually implemented as a combination of custom hardware and software. The link layer can also configure Encryption, which is highly desirable in case of a lot of devices present in the same range. Since we do not have this type of configuration, we will not be discussing the HCI any further. Now we can go over to the Host part of the BLE device. We will leave the SMP out of this tutorial since it is not crucial to our project for right now. It is important to remember that if there is a request still pending, no further requests can be sent until the response arrives. The client sends the appropriate write or read requests, and the server responds according to them. The set of operations which are executed over ATT are the following: It adds a data model and hierarchy, it defines how data is organized and exchanged in between different applications. Services are distinguished one from another using a bit UUID. Characteristics also contain an UUID, and they usually represent a data end point. A brief pause Phew! All the different layers and modes and roles and services took up a lot of space, and a lot of time and energy out of us. Worry not though, as we are near the end.

Chapter 7 : Bluetooth Low Energy - Part 1: Introduction To BLE

DOWNLOAD PDF INTRODUCTION TO LE PHONES

GATT Transactions An important concept to understand with GATT is the server/client relationship. The peripheral is known as the GATT Server, which holds the ATT lookup data and service and characteristic definitions, and the GATT Client (the phone/tablet), which sends requests to this server.

Chapter 8 : Telephone - Wikipedia

A telephone, or phone, is a telecommunications device that permits two or more users to conduct a conversation when they are too far apart to be heard directly. A telephone converts sound, typically and most efficiently the human voice, into electronic signals that are transmitted via cables and other communication channels to another telephone which reproduces the sound to the receiving user.

Chapter 9 : iPhone - Wikipedia

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