

# DATA COMMUNICATION BY PRAKASH C GUPTA

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**What are the 5 components of data communication?** These are sender, receiver, communication medium, the message to be communicated, and certain rules called protocols to be followed during communication. The communication media is also called transmission media. Figure 11.2 shows the role of these five components in data communication.

**Who discovered data communication?** Donald Davies invented and implemented modern data communication during 1965-7, including packet switching, high-speed routers, communication protocols, hierarchical computer networks and the essence of the end-to-end principle.

**What are the types of data communication in computer network?**

**Which are the data representation methods used in data communication?** The methods used to represent information in computers are known as data representation. The computer system can store a variety of data types. Numeric data, text, executable files, pictures, audio, and video are all examples of computer data representation. To us, as humans, each of these will appear differently.

**What are the 4 characteristics of data communication?** The effectiveness of a data communications system depends on four fundamental characteristics: delivery, accuracy, timeliness and jitter.

**What are the 5 major components of communication explain briefly?** Communication comprises five key elements: verbal communication, non-verbal communication, microexpressions, active listening, and defenses. Verbal

communication uses spoken words to convey an idea or message. This includes the tone of voice used as well as facial expressions and gestures.

**Who is the father of data communication?** Claude Shannon's work had profound implications for various fields, including telecommunications, computer science, and cryptography. His ideas formed the basis for the development of digital communication systems, data compression algorithms, and error correction techniques.

**What is an example of data communication?** A common example of data communication is connecting your laptop to a Wi-Fi network. This action requires a wireless medium to send and receive data from remote servers. The type of data transmission demonstrates the direction in which the data moves between the sender and receiver.

**What are data communication models?** Network Models Serial data communications rely upon networks to transmit data. The two most important network models are the Open Systems Interconnection Reference (OSI) model and the Internet model: The Open Systems Interconnection Reference model was developed by the Open System Interconnection Subcommittee in 1984.

**What are the 5 main components of information system?** The Components of Information Systems. Information systems can be viewed as having five major components: hardware, software, data, people, and processes. The first three are technology. These are probably what you thought of when defining information systems.

**What components are part of the 5 step communication model?**

**What are the five types of communication systems?**

**What are the five basic components of network explain?** Computer network components include both physical parts and the software required to install computer networks in both organizations and homes. The server, client, peer, transmission medium, and connecting devices are the hardware components. The operating system and protocols are software components.

**How does a self-driving car use artificial intelligence to see the road and objects?** Sensing and Perception: Self-driving cars rely on a wide range of sensors, including lidar, cameras, ultrasonic sensors, and radar, to obtain detailed information regarding their environment. AI algorithms analyze this data to generate detailed environmental maps and make informed decisions.

**What does Elon Musk think about self-driving cars?** “Really the way to think of Tesla is almost entirely in terms of solving autonomy and being able to turn on that autonomy for a gigantic fleet,” Musk said. “It might be the biggest asset-value appreciation in history when that happens, when you can do unsupervised, full self-driving.”

**How will self-driving cars or driverless cars be safe?** Self-driving cars are constantly monitored by a human operator, who can take control of the vehicle if necessary. The operator is able to see what the car sees through a system of cameras and sensors, and can intervene if the car is about to make a mistake or encounter an unexpected obstacle.

**What company makes the AI for self-driving cars?** Waymo developed out of Google's self-driving car plans. To take full advantage of the benefits of the very latest hardware, the company built a software stack using cutting-edge research in AI and ML. The entire system benefits from access to the company's data associated with 20 million autonomously driven miles.

**How do driverless cars see the road?** Self-driving cars see what's going on around them using three main electronic “eyes”—radar, cameras and laser-based LiDar, which stands for light detection and ranging.

**How much cheaper is Waymo than Uber?**

**What is the problem with Tesla self-driving cars?** Unlike other systems, Autopilot would disengage rather than allow drivers to adjust their steering. This “discourages” drivers from staying involved in the task of driving, NHTSA said. “Crashes with no or late evasive action attempted by the driver were found across all Tesla hardware versions and crash circumstances.”

**Do Teslas actually self drive?** The car, Tesla's lowest-price vehicle, was equipped with the latest Full Self-Driving software. Musk says the software now uses artificial intelligence to help control steering and pedals. During his ride, Stein said, the Tesla felt smooth and more human-like than past versions did.

**How risky is Tesla self-driving?** A safety group graded 14 driver-assistance systems. Tesla's self-driving option was the worst. Automated driving systems are lacking in the safety department, according to a new report. Tesla's Full Self Driving system earned the worst marks, but most of the 14 systems tested poorly.

**Can self-driving cars ever be 100% safe?** The most advanced driving systems, according to the study, reduce the possibilities of rear-end, head-on and lateral collisions, as well as running off the road, by between 20% and 50%. In all these situations, autonomous vehicles proved to be more effective than humans.

**What is the biggest problem with self-driving cars?**

**What is level 3 self-driving?** Hands-free systems such as Ford BlueCruise and General Motors Super Cruise fall into the Level 2 category. Level 3, or conditional driving automation, is the step on the ladder where the driver can take their attention off the road while the car is in charge.

**What happened to Google's self-driving car?** Google kept plugging away. Eventually, its autonomous-driving project became a self-contained unit of Alphabet, Google's parent company. It adopted the name Waymo and focused on launching an Uber-esque ride-hailing service.

**What is comma 3X?** comma 3X works with the car you already drive. It's like Tesla Autopilot for your Toyota, Honda, and more. openpilot can drive for hours without driver action.

**Who has the best self-driving car?**

**How does a self-driving car use artificial intelligence to see the road and objects brainly?** Final answer: AI algorithms analyze the images captured by cameras on the car, detecting and recognizing objects and patterns. This helps the self-driving car make informed decisions and navigate safely.

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**How do Google's self-driving cars detect objects on the road?** The three major sensors used by self-driving cars work together as the human eyes and brain. These sensors are cameras, radar, and lidar. Together, they give the car a clear view of its environment. They help the car to identify the location, speed, and 3D shapes of objects that are close to it.

**How do autonomous vehicles detect objects?** Through computer vision, autonomous vehicles dissect visual data from a variety of sensors to pinpoint and keep track of objects. Utilizing advanced algorithms, vehicles excel at recognizing and localizing objects. This data is critical for planning and executing driving actions smoothly and without accidents.

**How is AI used in autonomous driving?** AI is a critical technology required to realize autonomous driving. The extreme compute performance required for an autonomous vehicle based on AI requires an innovative memory and storage system to process and hold the vast amount of data necessary for a computer to make decisions like a human.

**Como baixar o Sefip no site da Caixa?** Programas\CAIXA\SEFIP. Instalar o aplicativo clicando duas vezes sobre o arquivo SEFIP\_ATUALIZA\_FAP e clicar no botão “Instalar”. Após a instalação serão criados dois atalhos, sendo um na área de trabalho e outro no menu “Iniciar”.

**Como falar com a caixa sobre Sefip?** Caso sua dúvida não tenha sido respondida com o FAQ acima ligar para a Central de Telesserviços CAIXA, no telefone 4004 0 104 (capitais e regiões metropolitanas) ou 0800 104 0 104 (demais regiões).

**Qual a última versão do Sefip?** A versão SEFIP 8.4 – FGTS Digital, liberada para Download na última sexta-feira, 12 de abril, permite aos contribuintes, sujeitos ao recolhimento de FGTS, recolher e informar a GFIP/SEFIP quanto às obrigações até a competência 02/2024 (guias em atraso).

**Pode enviar sefip pelo Conectividade Social antigo?** 5.3.1 Envio de arquivo SEFIP Os envios de arquivos SEFIP extemporâneos (competências a partir de 5 meses anteriores à competência atual) deverão ser realizados exclusivamente por meio do novo canal Conectividade Social ICP V2.

## **Como faço para enviar sefip pelo Conectividade V2?**

### **Como instalar a sefip 2024?**

**Quando a sefip deixou de ser obrigatório?** A partir da competência 10/2022, todos os empregadores que declaravam os fatos geradores de contribuição previdenciária e outros dados de interesse do Instituto Nacional do Seguro Social (INSS), por meio do SEFIP, passaram a utilizar o Sistema de Escrituração Digital das Obrigações Fiscais e Trabalhistas (eSocial) e a ...

**Como acessar o Conectividade antigo?** Primeiro, entre no site oficial da Caixa; Vá em “Produtos” e depois acesse a opção “Conectividade Social” na aba Empresa; Ao abrir a página, acesse o link <https://conectividadesocialv2.caixa.gov.br>; Agora é a hora de registrar o certificado.

**Como falar com a Caixa Federal pelo WhatsApp?** A Agência Digital CAIXA está disponível para atendimento das 08 às 18h. Entre em contato com seu gerente por WhatsApp pelo número 0800 104 0 104, por e-mail, ou pelos telefones 4004 0 104 (capitais e regiões metropolitanas) e 0800 104 0 104 (demais regiões).

**Quando a sefip deixará de existir?** Março de 2024: fim da GFIP-Sefip É importante destacar, também, que, a partir de março de 2024, todas as obrigações relacionadas ao FGTS, sejam elas mensais ou rescisórias, deverão ser cumpridas por meio do FGTS Digital.

**Quando será o fim da sefip?** A partir do exercício 2023, o SEFIP passa a ser atualizado exclusivamente para a confissão de débitos do FGTS, retificações, informações de reclamações trabalhistas, até março deste ano e recolhimento do FGTS.

**Quando vence a sefip?** - Por 10 anos, conforme previsto no art. 32, § 11, da Lei nº 8.212/91 e alterações posteriores, o Comprovante de Declaração à Previdência.

**Até quando posso usar a conectividade social antiga?** IMPORTANTE: O SEFIP e Conectividade Social ICP V2 permanecerão sendo utilizados para prestação de informações e geração da guia GRF das competências até 02/2024.

**É possível transmitir GFIP sem certificado digital?** Empresas do Simples Nacional precisam de certificado digital para enviar a GFIP.

**Quem ainda precisa enviar sefip?** Entretanto, é importante destacar que, a partir de outubro de 2021, as empresas que possuem apenas pró-labore estão dispensadas do envio do Sefip, a menos que optem pelo FGTS, o que é mais comum nos casos de diretores não empregados.

**Como conseguir o arquivo Sefip?**

**Como baixar arquivo GFIP?** GFIP – Solicitar Gfip Pela Internet Agora as empresas podem solicitar as cópias da GFIP direto pelo e-CAC. As cópias das GFIP vão ficar disponíveis na Caixa postal dentro do e-CAC mesmo. O prazo para envio dessas cópias é de 10 a 30 dias.

**Onde baixar o programa da sefip?**

**Como acessar a GFIP WEB?** O sistema GFIP WEB está disponível na página da Secretaria da Receita Previdenciária no caminho GFIP – GFIP WEB. O acesso é controlado pelo Sistema de Controle de Acesso – SCA. Assim, o servidor que tem acesso ao CNISA tem acesso ao GFIP WEB, automaticamente. Ao clicar sobre GFIP WEB , é aberta a tela a seguir.

### **The Talisman: A Journey into Darkness and Redemption**

Stephen King's *The Talisman*, co-written with Peter Straub, is a captivating and haunting novel that weaves a tale of magic, adventure, and the search for redemption. Here are some frequently asked questions and answers about this gripping work:

**Q1: What is the central premise of *The Talisman*?** **A:** The novel follows the journey of Jack Sawyer, a young boy from New Hampshire who embarks on a perilous quest to find a magical artifact known as "The Talisman." This talisman has the power to heal his dying mother, but its acquisition requires him to traverse the dangerous Territories, a parallel world fraught with horrors and challenges.

**Q2: What is the Territories? A:** The Territories is a realm that exists alongside our own, accessible through magical portals. It is a land inhabited by strange and malevolent creatures, including monsters, spirits, and malevolent witches known as "the Twinners." Jack must navigate its treacherous landscapes and confront its deadly inhabitants to reach his ultimate destination.

**Q3: Who accompanies Jack on his journey? A:** Jack is joined by Speedy Parker, a former police officer who has been transformed into a supernatural guardian. Together, they face the dangers of the Territories, relying on their combined strengths and determination to survive.

**Q4: What is the significance of The Talisman? A:** The Talisman is a powerful artifact that possesses the ability to heal and restore. It is said to have been created by an ancient race of beings known as the Ageless. Whoever possesses the talisman wields immense power and influence, but it also comes with great responsibility and the potential for misuse.

**Q5: How does Jack's quest change him? A:** Throughout his journey, Jack undergoes a profound transformation. He faces his fears, confronts his own darkness, and learns the true meaning of courage and sacrifice. By the end of the novel, he has emerged as a mature and resilient young man, armed with the wisdom and strength to overcome any challenge.

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