



Figure 1. Vehicle to everything communication

Essential requirements for automotive networks are security and low-latency communication to comply with the strict performance constraints of such safety-critical vehicular purposes. However, the existing IVNs (LIN, CAN, and FlexRay) are not capable of providing sufficient bandwidth and have minimal flexibility and security. Thus, car manufacturers are preparing to take a giant step into IVN by deploying an Ethernet communication system between ECUs. As a result of adding several extensions to time-triggered (TT) Ethernet, the time-sensitive network (TSN) framework is defined in IEEE 802.1 TSN standards to manage and integrate safety-critical applications such as autonomous vehicles [10]. Therefore, today TSN has emerged as a front-runner and a competing technology to the well-established field-bus standard that have been the staple of industrial and automotive networking.

Still, the special characteristics of automotive networks bring a lot of hacking attacks, security gaps and other car network security problems that had serious effect on car driving safety and personal privacy, to improving trustworthy and effective algorithms and protocols. This paper discusses automotive TSN requirements including transmission delay studies to improve worst-case end-to-end delay (WCD) and end-to-end jitter. In addition to a survey of the security concerns related to automotive networks, we also focused on the need for the network security of automotive Ethernet. Moreover, this paper also provides insights into some countermeasures against cyber threats such as authentication, encryption, blockchain, and intrusion detection and prevention systems. In the next section we provide an overview of the latest studies regarding automotive TSN's functional and structural requirements.

2. REQUIREMENTS OF AUTOMOTIVE TSN

As noted in [11], the authors derived a list of requirements for future IVN processing platforms that must be met in order to satisfy the needs of the industry in the future. Two perspectives are used to analyze requirements: i) functional requirements, which define the functionalities or features the gateway (GW) controllers must support and ii) structural requirements, which describe the architectural and design aspects of the GW that are essential to its viability. A gap was detected in their analysis: no architecture exists yet that can satisfy all future automotive GW controller requirements. Furthermore, none of the solutions currently available addresses both structural and functional requirements simultaneously. Due to these constraints, GW chipsets for automotive networks cannot achieve all functionality and performance as well as flexibility and scalability.

Using the IEEE 802 automotive Ethernet architecture, TSN guarantees a keyframe transmission delay. Despite this, most studies on automotive TSN performance are based on a specific system and lacks a comprehensive and organized methodology. It is discussed in [6] how to design an optimal automotive TSN system and the methodology of designing automotive TSN systems from a global and holistic perspective. It is necessary to analyze the delay and jitter for each traffic to determine if the TSN design is successful. Therefore, the authors presented a complete and systematic automotive TSN simulation platform that used to study further scheduling algorithms and mechanisms, including either single or mixed scheduling algorithms. As an ultimate step, the authors examined the performance of a TSN network for autonomous driving, which was designed by a key motor company in Shanghai and contained traffic from a wide variety of domains.

An automotive Ethernet TSN profile has been implemented in [12] to increase real-time Ethernet functionality for the electrical and electronic (E/E) architecture. The authors evaluated multiple traffic shaping and scheduling mechanisms among automotive Ethernet systems. Each GW is equipped with TSN bridging. Around seventeen cyclic and periodic communication streams between different endpoints were created to

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 - Advantages of eBooks Over Traditional Books
2. Identifying Automotive Ethernet A Holistic Approach Home Springer
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Automotive Ethernet A Holistic Approach Home Springer
 - User-Friendly Interface
4. Exploring eBook Recommendations from Automotive Ethernet A Holistic Approach Home Springer
 - Personalized Recommendations

- Automotive Ethernet A Holistic Approach Home Springer User Reviews and Ratings
- Automotive Ethernet A Holistic Approach Home Springer and Bestseller Lists
- 5. Accessing Automotive Ethernet A Holistic Approach Home Springer Free and Paid eBooks
 - Automotive Ethernet A Holistic Approach Home Springer Public Domain eBooks
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 - Automotive Ethernet A Holistic Approach Home Springer Budget-Friendly Options
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 - ePub, PDF, MOBI, and More
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 - Automotive Ethernet A Holistic Approach Home Springer Enhanced eBook Features
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- 8. Staying Engaged with Automotive Ethernet A Holistic Approach Home Springer
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 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Automotive Ethernet A Holistic Approach Home Springer
- 9. Balancing eBooks and Physical Books Automotive Ethernet A Holistic Approach Home Springer
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Automotive Ethernet A Holistic Approach Home Springer
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Automotive Ethernet A Holistic Approach Home Springer
 - Setting Reading Goals Automotive Ethernet A Holistic Approach Home Springer
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Automotive Ethernet A Holistic Approach Home Springer
 - Fact-Checking eBook Content of Automotive Ethernet A Holistic Approach Home Springer

- Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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