Working Title

Exam Number: Y3PbYo17BCD

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# Introduction

# Objectives

# The OSI Model

# What is a TSN?

Time Sensitive Networking is a subset of IEEE 802.1 standards defined by the Time Sensitive Networking Task Group [1]. These standards are concerned with giving Ethernet networks deterministic properties for time-critical services whilst still allowing regular traffic that is not time-critical to share the bandwidth and remain functional.

It accomplishes this task explained in the standards.

TSN exists on Layer 2 of the OSI networking model

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For example, in an autonomous car you will have traffic that is real-time such as the data coming from all the various sensors that help the car not crash into things. If there was to be a delay in this traffic getting to its destination, or packets lost along the way, then there could be catastrophic consequences. But there is also traffic that is not real-time such as the multimedia system.

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# Relevant IEEE Protocols

## IEEE 802.1Qbv

## IEEE 802.1Qbu

# Uses?

## CAN Busses

## Automotive

## Smart Cities

# Investigating Pre-Existing Simulations

## MATLAB

## OMNeT++

## Others?