



# Feasibility of Evolution from Domain to Zonal Architecture

Contribution to ISAAC Study Group

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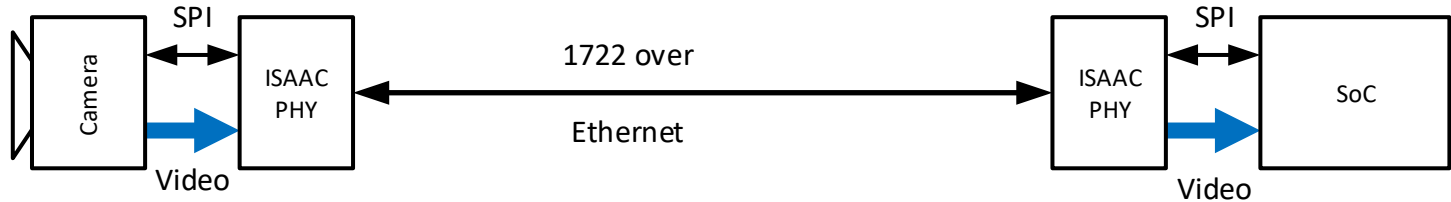
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# Introduction

- What is needed for evolution from domain architecture to zonal architecture was discussed in presentation [Matheus\\_GoingZonal\\_verA](#) at the telephonic interim meeting on August 28<sup>th</sup>, 2023
- The presentation highlighted the need for supporting both point-to-point and switched Ethernet transport of the video signals
- This presentation shows a simple, smooth transition path using standard Ethernet technology to support both point-to-point and switched Ethernet links to transfer video signals from the camera to the processing units

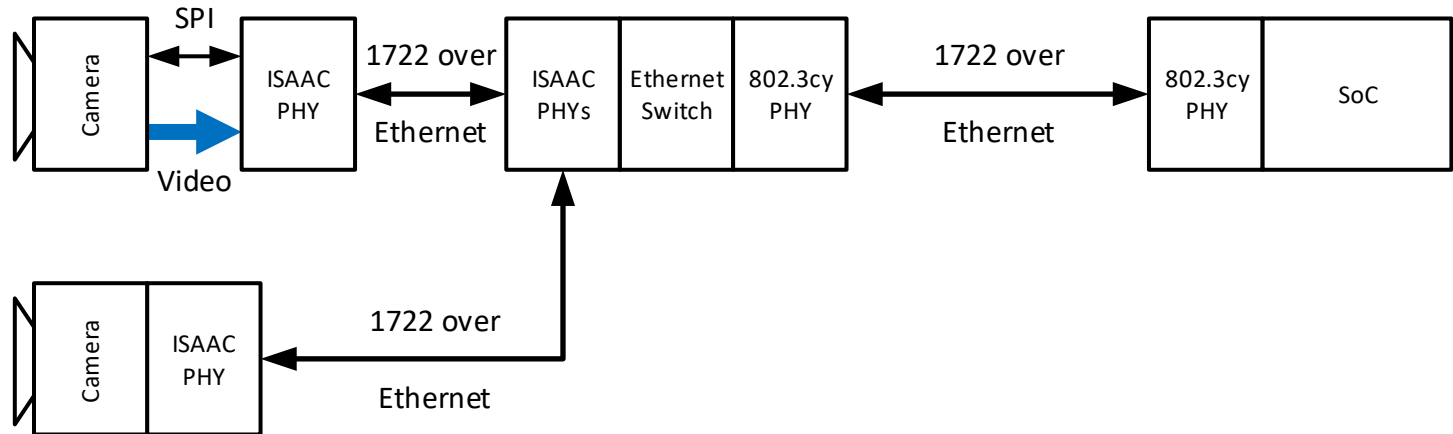
# Video Link Bridging over Point-to-point


- The 1722 protocols can support transfer of video over Ethernet links
- The 1722 protocols also support transfer of control signaling, like SPI and I2C over ethernet links
- As long as the ISAAC physical layer design supports 1722 and associated protocols, it can be used for **point-to-point video link bridging**



# Video Link Bridging over Switched Ethernet

- The 1722 protocols can support transfer of video over Ethernet links
- The 1722 protocols also support transfer of control signaling, like SPI and I2C over ethernet links
- As long as the ISAAC physical layer design supports 1722 and associated protocols, it can be used for **video link bridging over switched Ethernet**



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- ☑ Simple and smooth transition from domain to zonal architecture is feasible with standard Ethernet technology



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