



Agenda

- Status
- Architecture
- Advantages
- Contrast BACnet/IP to BACnet/SC
- Topologies
- BACnet/SC Devices

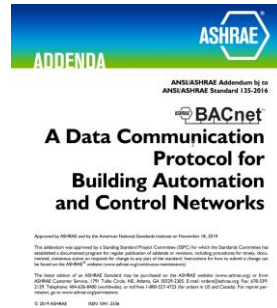
Learning Objectives

- Understand what is BACnet/SC
- Appreciate some of the possible BACnet/SC network topologies
- Understand the requirements to specify, implement and maintain a system using BACnet/SC
- Appreciate the underlying security inherent in BACnet/SC and what the BAS professional will need to know to successfully maintain the system

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Status

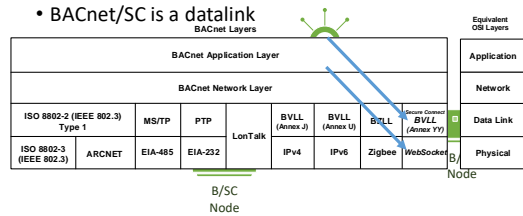


Acknowledgements

Bernhard Isler
Siemens Switzerland Ltd, Smart Infrastructure, Building Products

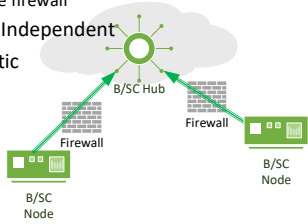
Architecture

- Hub and Spoke Architecture
- WebSockets (HTTP)
- TLS 1.3
- BACnet/SC is a datalink

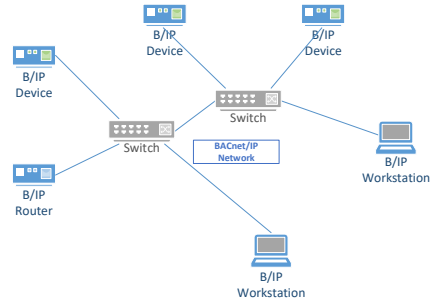


Advantages

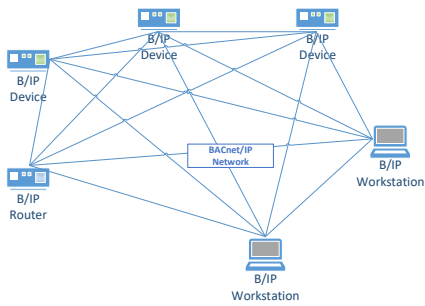
- IT Dept will love you!
 - Standard communications and Security Technologies
 - No BBMD, No Static IPs
 - No holes in the firewall
- Physical Media Independent
- Protocol Agnostic



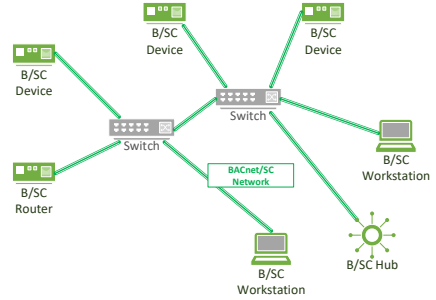
BACnet/IP



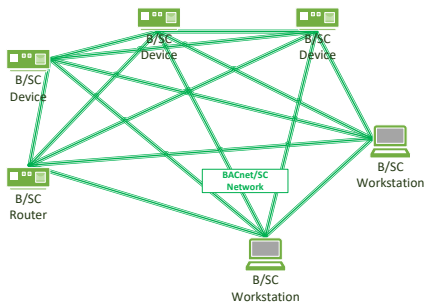
BACnet/IP



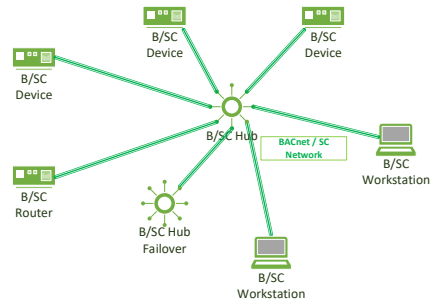
BACnet/SC



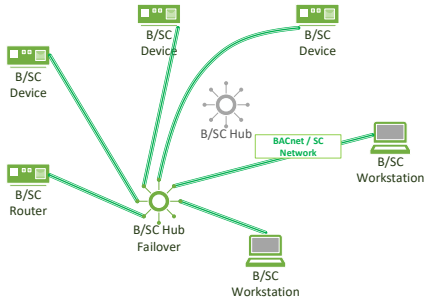
BACnet/SC



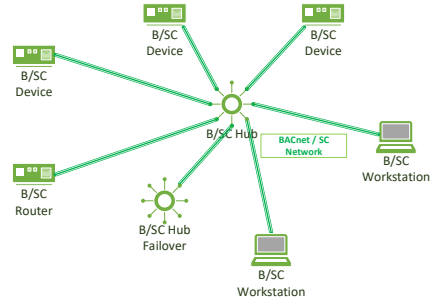
BACnet/SC – Connection View



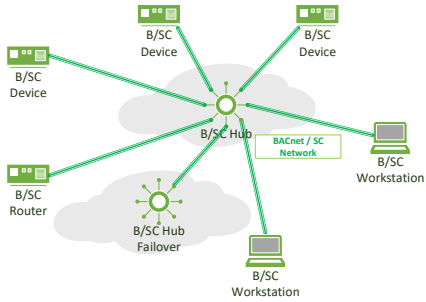
BACnet/SC - Failover



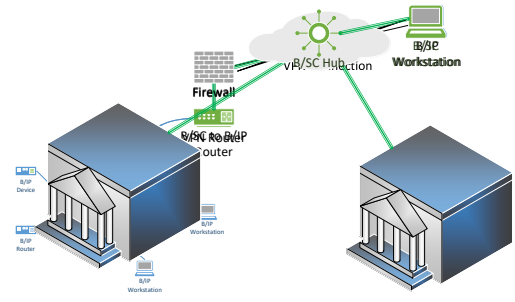
How will you Implement BACnet/SC



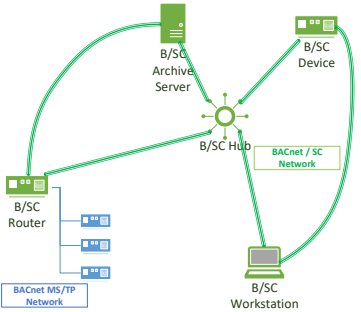
BACnet/SC - Failover



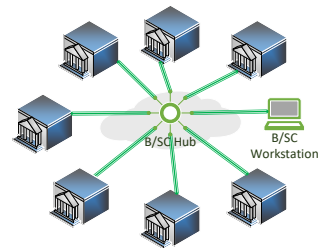
How will you Implement BACnet/SC



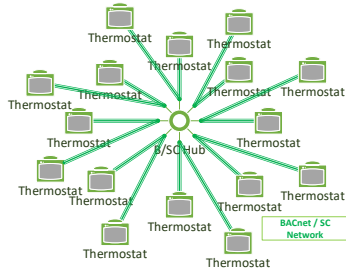
BACnet/SC Direct Connection



How will you Implement BACnet/SC



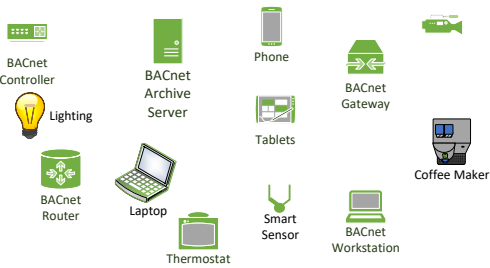
How will you Implement BACnet/SC



Questions?

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What is a BACnet/SC Device



Conclusion

BACnet/SC has been released
The Hub and Spoke Architecture
Your IT Dept will love you
BACnet is preserved
Possible Implementations
BACnet/SC devices