

Summary and Wrap-Up



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What is CorpsLON?

- The flat, Open, LNS-based LonWorks system defined by UFGS 23 09 23 and UFGS 25 10 10 and including all LonWorks requirements of these specifications.
- The flat, Open, LNS-based LonWorks system defined by the MILCON Transformation Model RFP.
- “The US Army Corps’ Open implementation of LonWorks”



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Building Controls Requirements

- The following is a summary of the requirements in UFGS 23 09 23, UFGS 25 10 10, and the MILCON Transformation Model RFP:
 - Not all requirements are discussed here
 - Project specific requirements are specified in contract documents
 - The information provided is for informational purposes only
 - Where conflict exists, the contract specification provides the definitive requirement



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Open System Goal

(one-line version)

“One (integrated, multi-vendor) system with no future dependence on any one contractor or controls vendor.”



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Requirements Summary

- Give us an Open system
- The Government owns the system
 - Submit all the info needed to expand system
 - License all software to the Government



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Requirements Summary

- ANSI/CEA-709.1B and ANSI/CEA-852 only
- LNS Required
- SNVTs only (No UNVTs)
- TP/FT-10, double terminated bus only
- Building Control Network architecture as specified
- Few/no gateways:
 - UMCS: For legacy systems only
 - DDC: For packages units only



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Requirements Summary

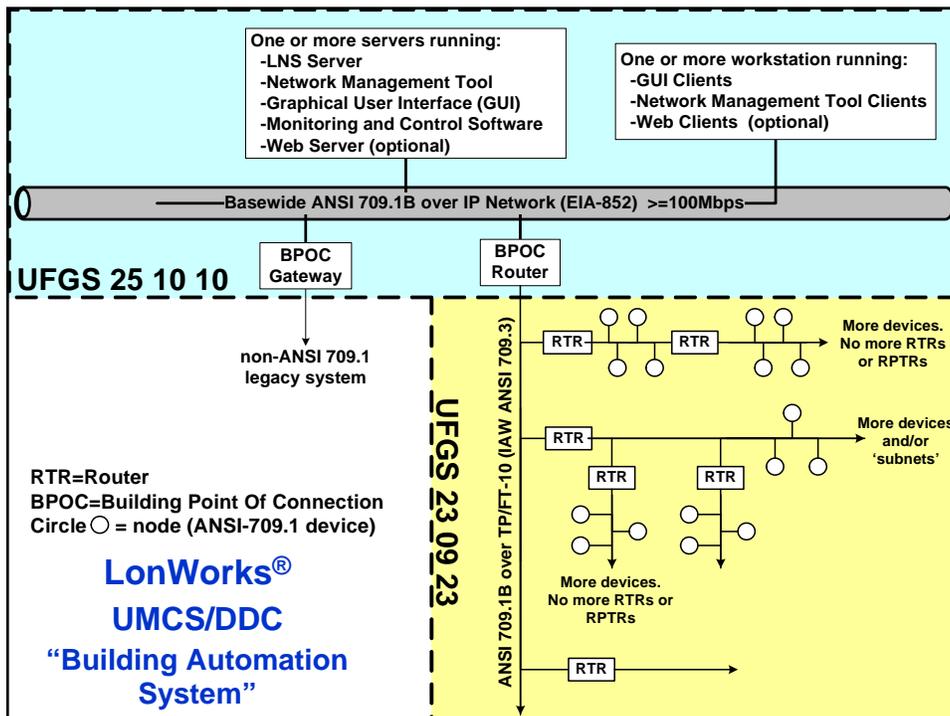
- Controllers configurable using standard means: SCPT, UCPT, SNVT
- System Scheduler as specified
- Points Schedule submittal – know it/use it
- Submit software and licenses
 - Plug-ins and Programming software with building
 - M&C Software and Network Config Tool with UMCS
- LONMARK certification for ASCs
- LNS Plug-ins for ASCs
- Local Display Panels as specified and shown



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Guide Specification Changes

- To request/suggest changes to specs:
 - Email ERDC-CERL BAS Team
 - Submit a Criteria Change Request (preferred since it creates an official change request)
- To submit a Criteria Change Request (CCR):
 - Go to <https://www.projnet.org>
 - In the “Design” menu click CCR
 - Click the “CCR Public Submission” link
 - Preparing Activity: USACE
 - Doc Type: Unified Facilities Guide Specification



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References

- **Guide Specifications:** available at <http://www.wbdg.org>
 - UFGS 23 09 23 *Direct Digital Controls...*
 - UFGS 25 10 10 *Utility Monitoring and Control Systems*
- **UFCs:**
 - UFC 3-401-01FA *LonWorks Utility Monitoring and Control Systems*
 - UFC 3-410-02FA *LonWorks Direct Digital Controls ...*
 - Drafts available at <https://eko.usace.army.mil/fa/bas/>
 - When released will be online at <http://www.wbdg.org>
- **MILCON Transformation Model RFP:**
 - Wizard at https://ff.cecer.army.mil/rfp_wizard/
 - Sample Points Schedules at <https://eko.usace.army.mil/fa/bas/>



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References

- **Engineering and Construction Bulletins (ECBs)**

- ECB 2004-11: *Utility Monitoring & Control Systems (UMCS) and Direct Digital Control (DDC) Criteria Update*
- ECB 2005-17: *LONWORKS®, BACnet®, and Building Automation Systems Planning.*
- ECB 2007-8: *LONWORKS®, BACnet®, and Building Automation Systems Planning. (Update)*
- Available at <http://www.wbdg.org>
- Also available at <https://eko.usace.army.mil/fa/bas/>

- **ERDC/CERL TR-07-3**

- *Development of an Open Building Automation System Specification Based on ANSI/ASHRAE 135-2004 (BACnet® Communications Protocol) - A Technical Assessment*
- Available at <https://eko.usace.army.mil/fa/bas/>



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References

- **ERDC-CERL Building Automation Systems Team:**

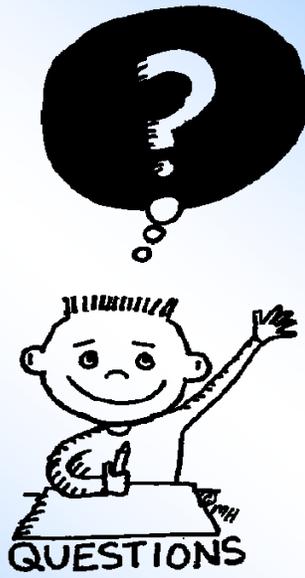
- Team email: bas.cerl@us.army.mil
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