

# NS2024

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POWER OF PARTNERSHIP



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# How Niagara Supports the Changing Design Environment

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## *Moderator*



*Paul Maximuk*  
*Newcomb and Boyd*

## *Panelists*



*Erin DeFrieze*  
*Stantec*



*Michael McMahon*  
*Newcomb and Boyd*

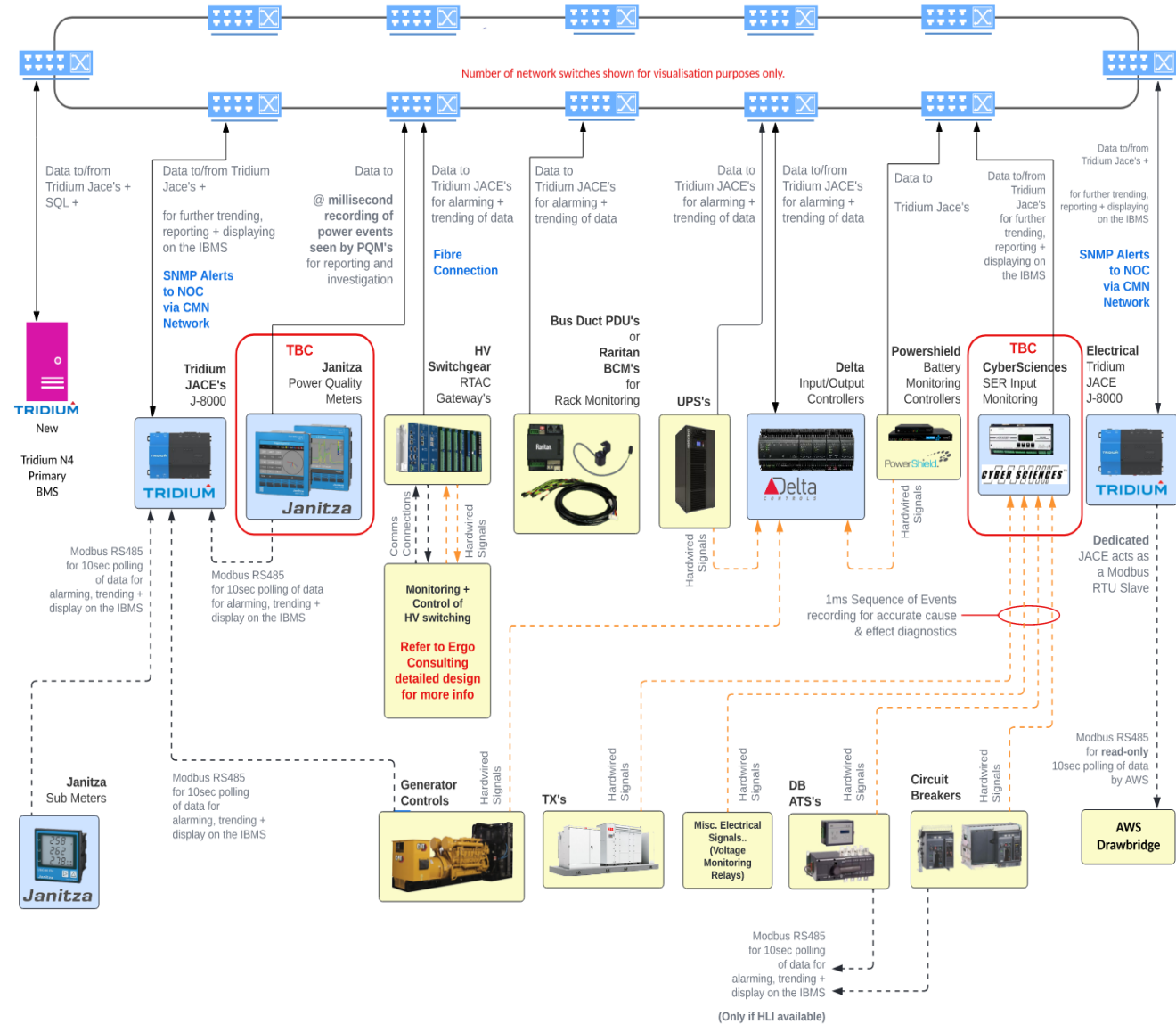


*Matthew Turk*  
*Newcomb and Boyd*



*Donny Walker*  
*Newcomb and Boyd*

1. Consistency across the portfolio
2. Ensures accuracy of the programming
3. Responsibility Matrix



# Division 25 and OT Standards

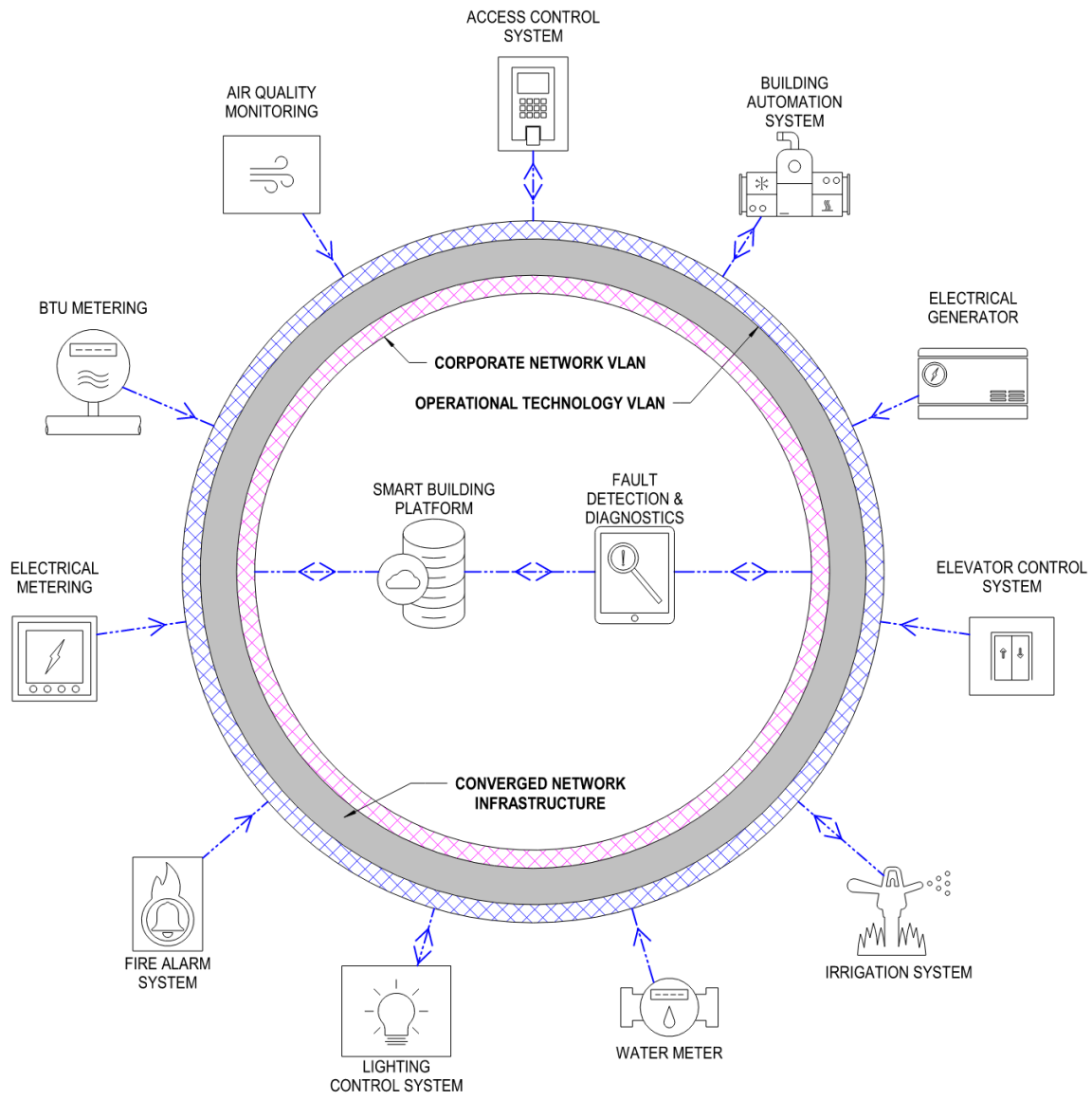
Developing Standards to Supplement the Division  
25 specifications:

What:

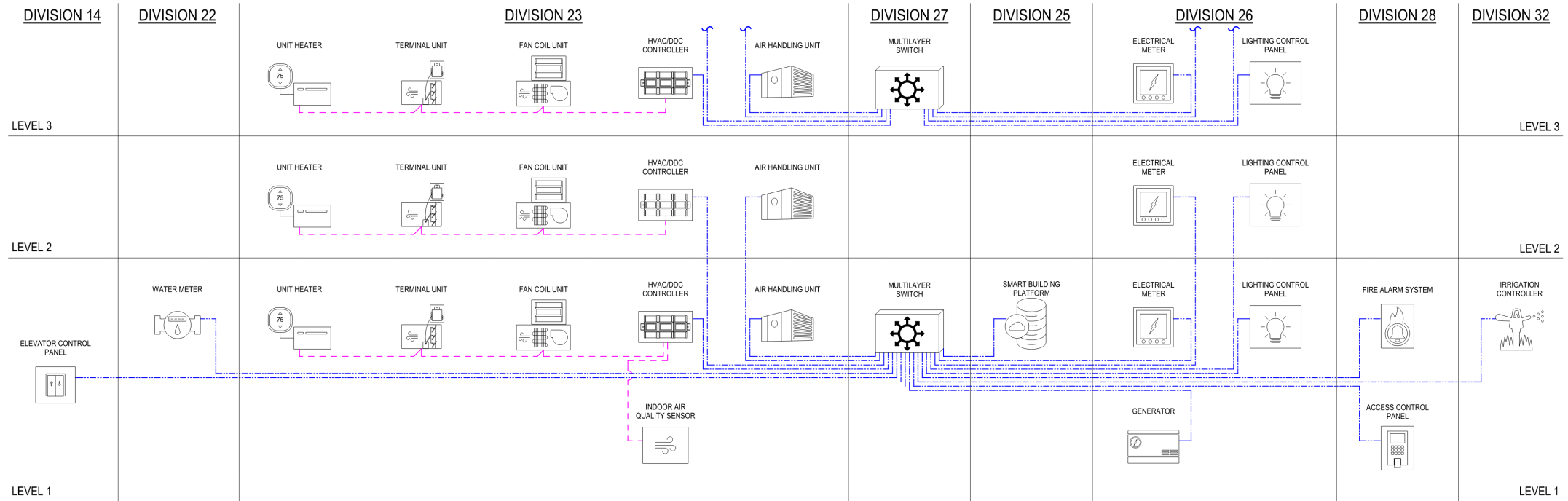
1. Point naming
2. Tagging
3. Data Collection and Aggregation
4. Protocol Standards
5. Cybersecurity Considerations
6. Cloud Storage

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OPERATIONS TECHNOLOGY - EQUIPMENT DETAIL SCHEDULE					
EQUIPMENT TYPE	COMMUNICATION PROTOCOL	FLOOR	SHEET SERIES	SPECIFICATION REFERENCE	INTEGRATION SPECIFICATION REFERENCE
ACCESS CONTROL PANEL	REST API	LEVEL 1	SECURITY	281000	250000, 252000, 253800
AIR HANDLING UNIT	BACnet IP	LEVEL 1-12	MECHANICAL	230663	250000, 252000, 253500
AUTOMATIC TRANSFER SWITCH	BACnet IP	ROOF	ELECTRICAL		250000, 252000, 253600
BTU METERING	BACnet IP	ROOF	MECHANICAL	230663	250000, 252000, 253500
CHILLER	BACnet IP	ROOF	MECHANICAL	236433	250000, 252000, 253500
DEDICATED OUTSIDE AIR SYSTEM	BACnet MS/TP	ROOF	MECHANICAL	230663, 238219	250000, 252000, 253500
ELECTRICAL METER	BACnet IP	LEVEL 1-ROOF	ELECTRICAL		250000, 252000, 253600
ELEVATOR CONTROL PANEL	BACnet IP	LEVEL B1	ARCHITECTURAL	142100, 142150	250000, 252000, 253200
FAN COIL UNIT	BACnet MS/TP	LEVEL 1-12	MECHANICAL	230663, 238219	250000, 252000, 253500
FIRE ALARM SYSTEM	BACnet IP	LEVEL 1	FIRE PROTECTION		250000, 252000, 253800
GENERATOR	BACnet IP	LEVEL 1	ELECTRICAL	230663	250000, 252000, 253600
HVAC/DDC CONTROLLER	BACnet IP	LEVEL 1-12	MECHANICAL	253905	250000, 252000, 253500
INDOOR AIR QUALITY SENSOR	BACnet MS/TP / MODBUS RTU	1, 4, 10	MECHANICAL	253905	250000, 252000
INDUCT AIR QUALITY SENSOR	BACnet MS/TP / MODBUS RTU	LEVEL 12	MECHANICAL		250000, 252000
IRRIGATION CONTROLLER	BACnet IP	LEVEL 1	LANDSCAPING		250000, 252000, 253300
LIGHTING CONTROL PANEL	BACnet IP	LEVEL 1-12	ELECTRICAL		250000, 252000, 253600
OUTDOOR AIR QUALITY SENSOR	BACnet MS/TP / MODBUS RTU	ROOF	MECHANICAL	253905	250000, 252000
SMART BUILDING PLATFORM	MULTIPLE SEE SECTION 251500	LEVEL 1	OPERATIONAL TECH	251500	250000, 252000
TERMINAL UNIT	BACnet MS/TP	LEVEL 1-12	MECHANICAL	230663	250000, 252000, 253500
UNIT HEATER	BACnet MS/TP	LEVEL 1-12	MECHANICAL	230663	250000, 252000, 253500
VFD	BACnet MS/TP	LEVEL B2, B1, ROOF	MECHANICAL	230526	250000, 252000, 253500
WATER METER	BACnet IP	LEVEL 1	PLUMBING	230663	250000, 252000, 253400

OPERATIONS TECH - WIRING RESPONSIBILITY SCHEDULE				
EQUIPMENT TYPE	I/O WIRING	IP NETWORK CABLING	PROPRIETARY WIRING	SERIAL CABLING
ACCESS CONTROL PANEL	DIVISION 28	DIVISION 27	DIVISION 28	NA
AIR HANDLING UNIT	DIVISION 23	DIVISION 27	DIVISION 23	DIVISION 23
AUTOMATIC TRANSFER SWITCH	DIVISION 26	DIVISION 27	DIVISION 26	NA
BTU METERING	DIVISION 23	DIVISION 27	DIVISION 23	DIVISION 23
CHILLER	DIVISION 23	DIVISION 27	DIVISION 23	DIVISION 23
DEDICATED OUTSIDE AIR SYSTEM	DIVISION 23	DIVISION 27	DIVISION 23	DIVISION 23
ELECTRICAL METER	DIVISION 26	DIVISION 27	DIVISION 26	NA
ELEVATOR CONTROL PANEL	DIVISION 14	DIVISION 27	DIVISION 14	DIVISION 14
FAN COIL UNIT	DIVISION 23	NA	DIVISION 23	DIVISION 23
FIRE ALARM SYSTEM	DIVISION 28	DIVISION 27	DIVISION 28	NA
GENERATOR	DIVISION 26	DIVISION 27	DIVISION 26	NA
HVAC/DDC CONTROLLER	DIVISION 23	DIVISION 27	DIVISION 23	DIVISION 23
INDOOR AIR QUALITY SENSOR	NA	NA	NA	DIVISION 23
INDUCT AIR QUALITY SENSOR	DIVISION 23	NA	DIVISION 23	DIVISION 23
IRRIGATION CONTROLLER	DIVISION 32	DIVISION 27	DIVISION 32	NA
LIGHTING CONTROL PANEL	DIVISION 26	DIVISION 27	DIVISION 26	NA
OUTDOOR AIR QUALITY SENSOR	DIVISION 23	NA	DIVISION 23	DIVISION 23
SMART BUILDING PLATFORM	NA	DIVISION 27	NA	NA
TERMINAL UNIT	DIVISION 23	NA	DIVISION 23	DIVISION 23
UNIT HEATER	DIVISION 23	NA	DIVISION 23	DIVISION 23
VFD	DIVISION 23	NA	DIVISION 23	DIVISION 23
WATER METER	DIVISION 22	DIVISION 27	DIVISION 22	DIVISION 22

