

Connecting to the Sustainable Future with 5G Wireless and M2M Gateway Technology

Presented by

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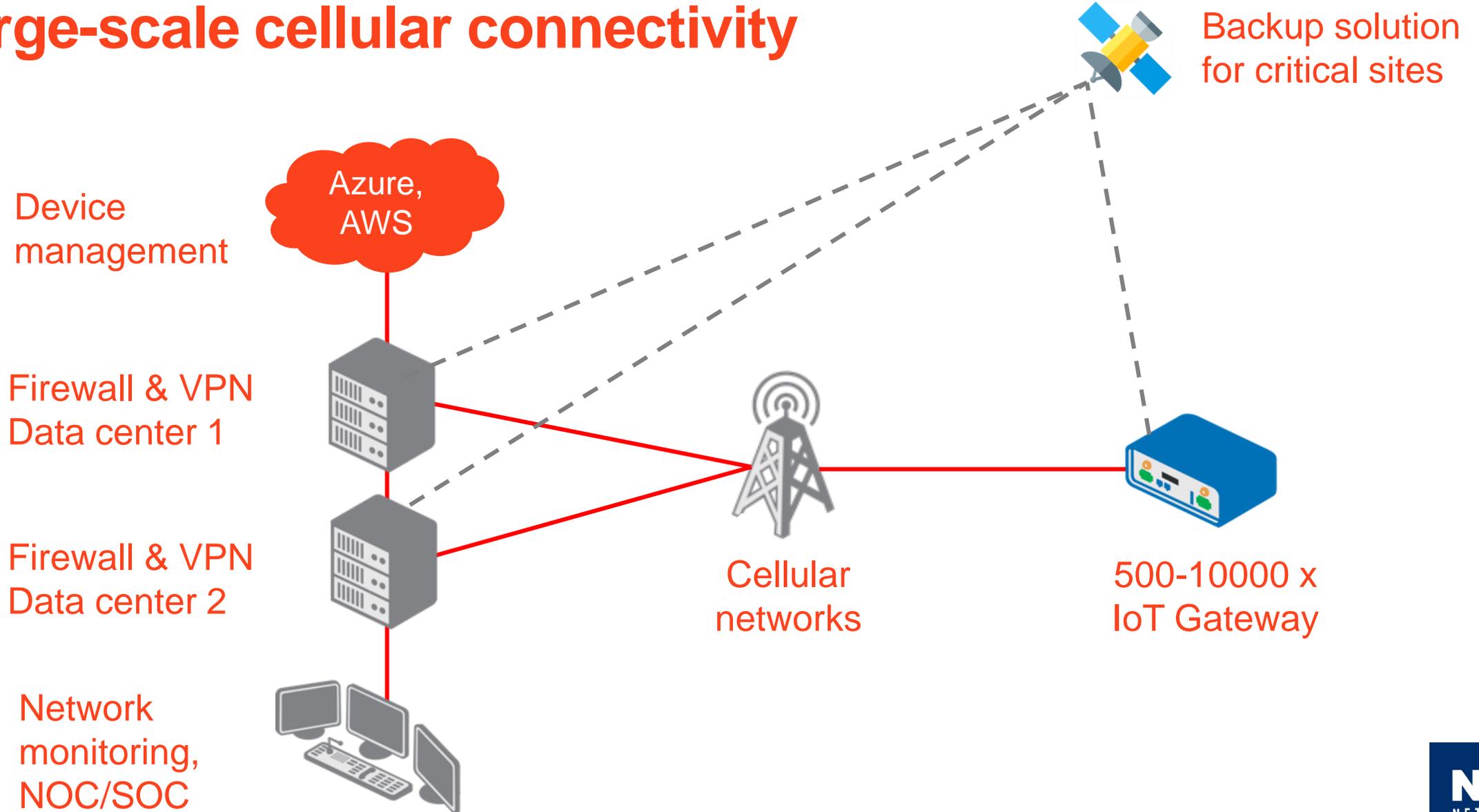
Securely deploying large-scale cellular SCADA connectivity with Energy DSOs

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Large-scale cellular connectivity

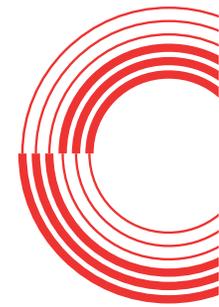


Grid trends

- Automation increasing everywhere in grids
- Volumes up, prices down
- IT departments taking control of IoT projects
- Result:
 - Huge cloud of edge devices
 - Build & operate with low OPEX per node
 - Must be secure

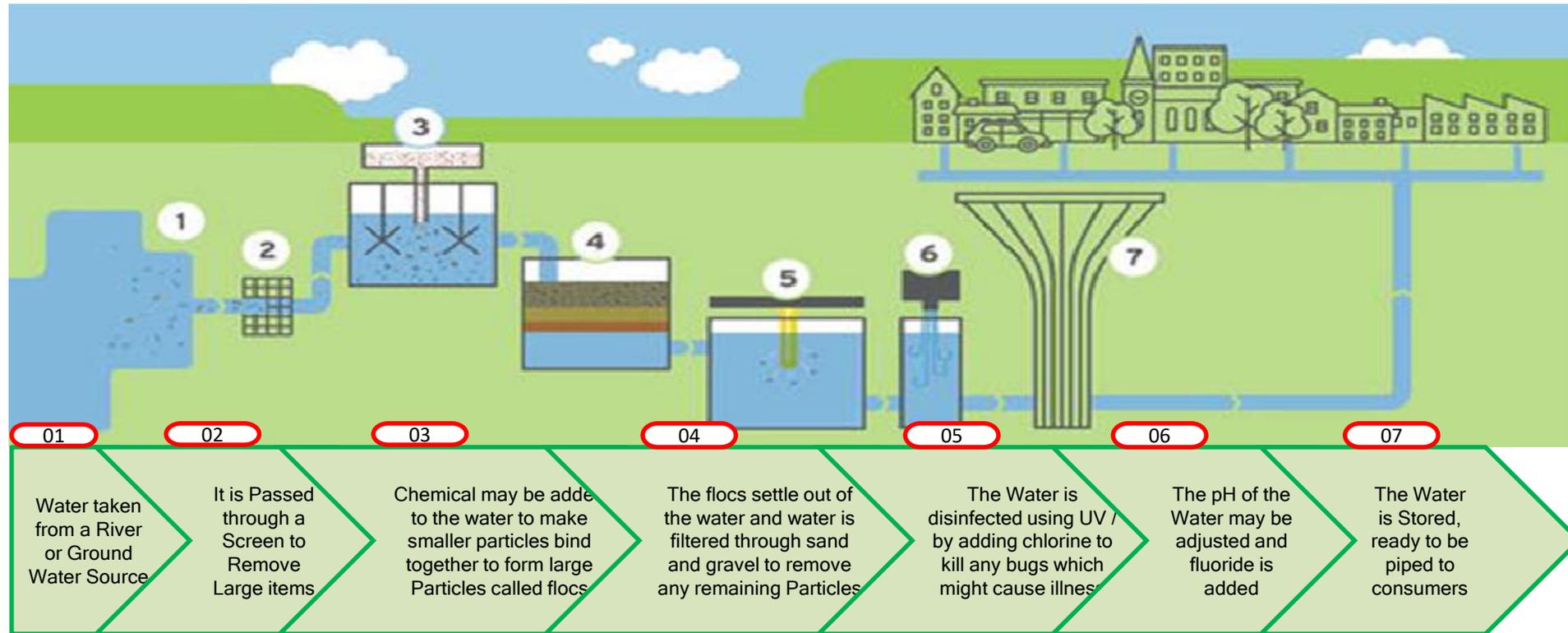
Lessons learned: Security & deployment

- Cybersecurity
 - Seek network simplicity to improve reliability
 - Firewall as VPN is the only viable VPN solution
 - Isolating from the internet is not a strategy; defence-in-depth is mandatory
 - Cloud security is critical for DSOs
 - Scrutinize the minute details of how your vendor establishes chain of trust in zero touch
- Deployment
 - You need Design Thinking to create fluid operations (physical & digital)
 - Device management automation & zero touch is the key tool



Cinia

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Specification Requirement:-

1. Redundant SCADA Server with Historian -Mitsubishi direct offering
2. Redundant Hot-Standby PLC System for WTP(Water Treatment plant) -Mitsubishi direct offering
3. Standalone PLC and HMI System for RWPH(Raw Water Pumping Station) -Mitsubishi direct offering
4. Redundant PLC System for CWP(Clear Water pump House) -Mitsubishi direct Offering
5. RTU on GPRS Based communication over DNP3 Protocol for OHSR(Over head Service Reservoir)-210nos
- Offering with help / product support from Advantech
1. RTU on GPRS Based communication over DNP3 Protocol for MBR(Membrane Bio Reactor Technology)-04nos
- Offering with help / product support from Advantech

Objectives:

- Process Automation Dept. in India formed in the Year -2014.
- Approval from various Govt. Sectors applied and successfully achieved.
- Tie up with various EPC's for the supply of Automation System

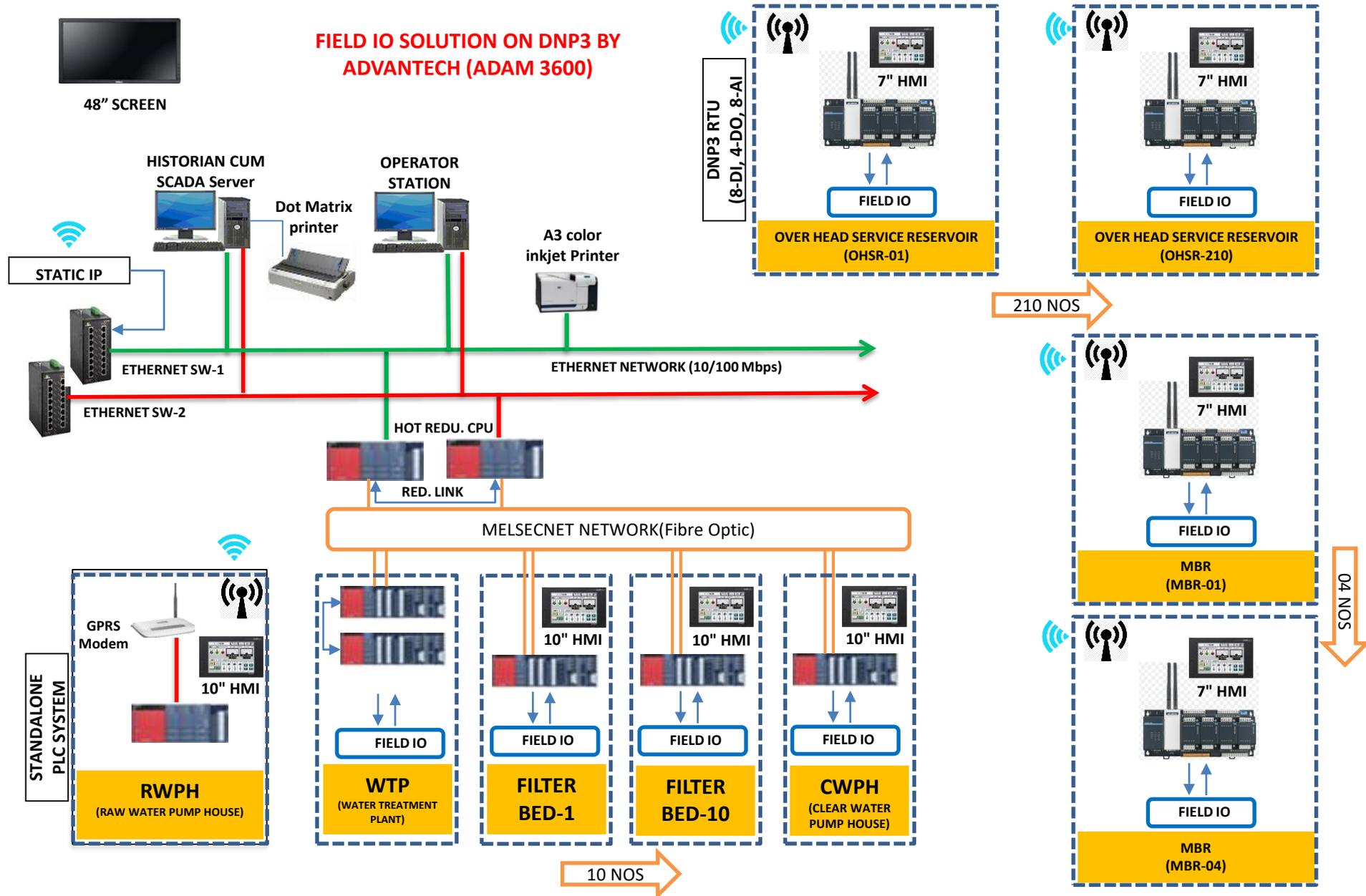
Offering:

Turnkey solutions: STIC (Supply, Test, Install & Commission)

- Concept, Design, Engineering , Manufacturing and Commissioning
 - Preparation of functional design specifications
 - Design, Configuration & Programming of PLC/DCS System
 - Design & Development SCADA & Interface configurations.
 - Electrical & Control Panels - Engineering, Assembly & Testing
 - Preparation of Detailed Drawings & Documentation.
 - Offer Factory Acceptance Tests
 - Installation , Commissioning & Site Acceptance Tests
 - Training , Maintenance Procedures for System
 - O&M Support



System Configuration



Co-Creating the Future of the IoT World

