



800MHz Emergency Communications Radio System Update

September 5, 2017



Strategic Priorities

- Devote leadership & resources necessary to ensure and sustain exemplary Public Safety functions
- Instill excellent customer service as an organizational value, expectation and outcome



History

- Conducted independent needs assessments in 2000/2001
 - Inadequate radio coverage
 - Lack of interoperability
 - Age and Life Expectancy of the current system and technologies
- Consultants conclusions a regional system would increase service and save money



History

- Formed Governance Structure
 - York/James City County Administrators
 - Sheriff of York County
 - Police Chief of James City
 - York/James City County Fire Chiefs
 - Purchasing Agent (York County)
 - York/James City County Attorney's
 - Chief Financial Officer York
 - Ad HOC Members

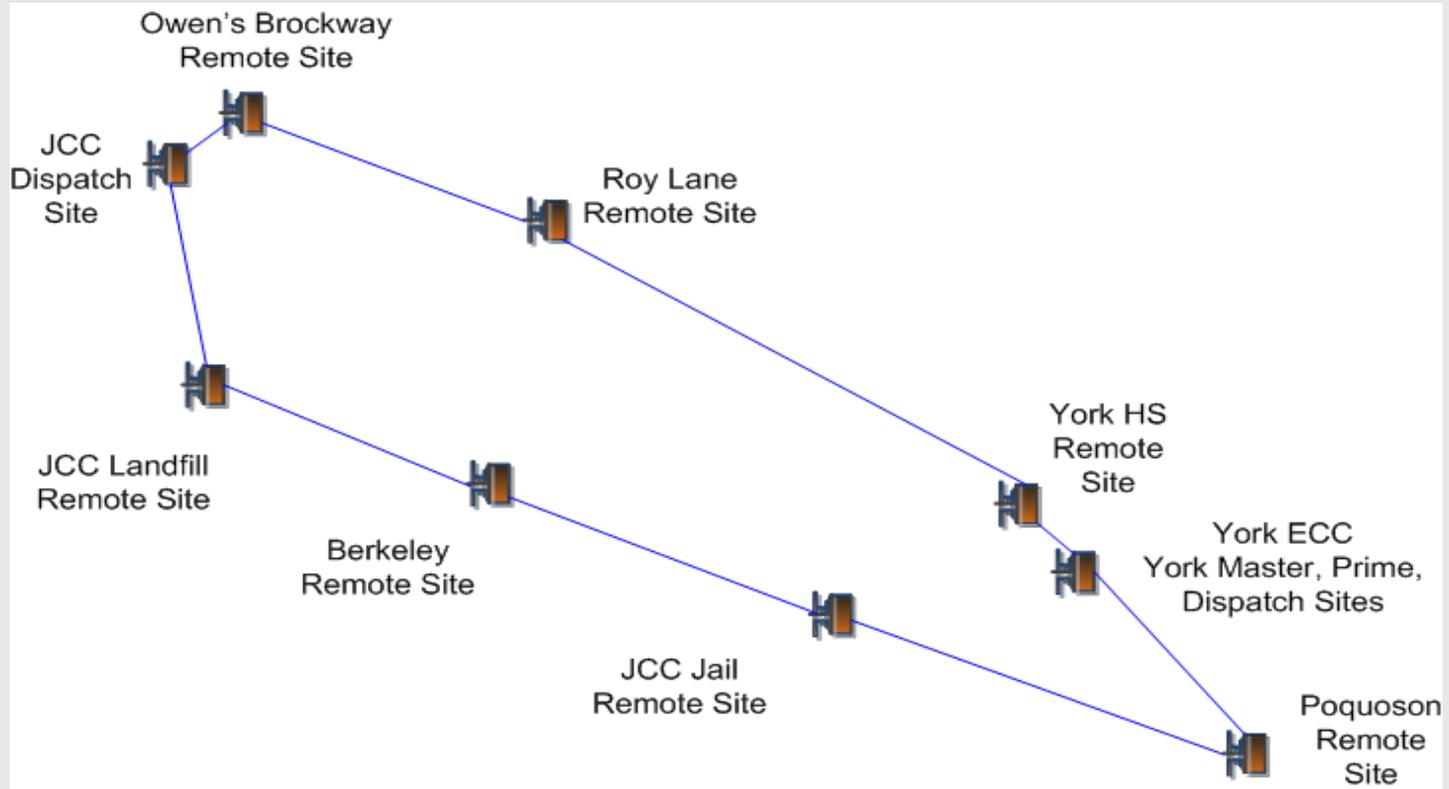


History

- Formed a regional purchasing cooperative
- Issued Request for Proposal
- Existing System 2004
- Gloucester added 2010



York / James City



Tenants

- City of Williamsburg
 - Police, Fire, & Public Works
- City of Poquoson
 - Police, Fire and Schools
- College of William and Mary
 - Public Safety and Student Services
- Colonial Williamsburg Foundation
- Eastern State Hospital
- Kingsmill Security
- United States Coast Guard
- National Park Service



Gloucester/JCC/York Expansion

- York & JCC needed a master site/software upgrade.
- Gloucester was suffering inadequate radio coverage
 - Lack of regional interoperability
 - Antiquated technology
 - Lack of radio channel capacity
 - High costs of systems replacement

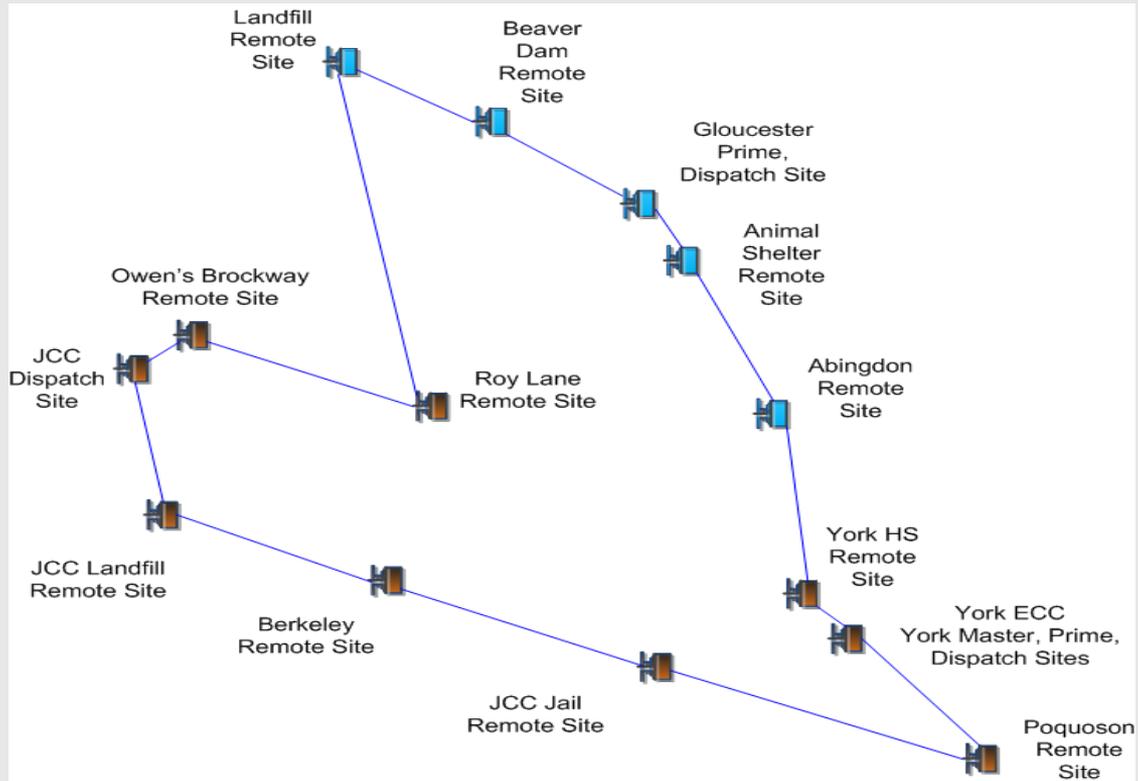


Advantages of Adding Gloucester

- By adding Gloucester to the system
- Improved coverage
- Improved interoperability
- Improved redundancy
- Sharing regional switch
- Allowed \$1.1M Upgrade
- Allows Gloucester to pay 20% of maintenance costs of the switch
- Joined 2010



York / James City County / Gloucester



Lifecycle Management Plan

- Software Refresh & Enhancements
- Conventional System Replacements
- RF Network Replacements
- Mobile & Portable Replacements
- Mobile Data Terminal Refresh
- Power Systems
- Civil Components
- Maintenance



Suffolk / Isle of Wight Integration

- Suffolk has just completed an upgrade to their system.
- Isle of Wight is in the process of deploying communications system that will use Suffolk's switch.

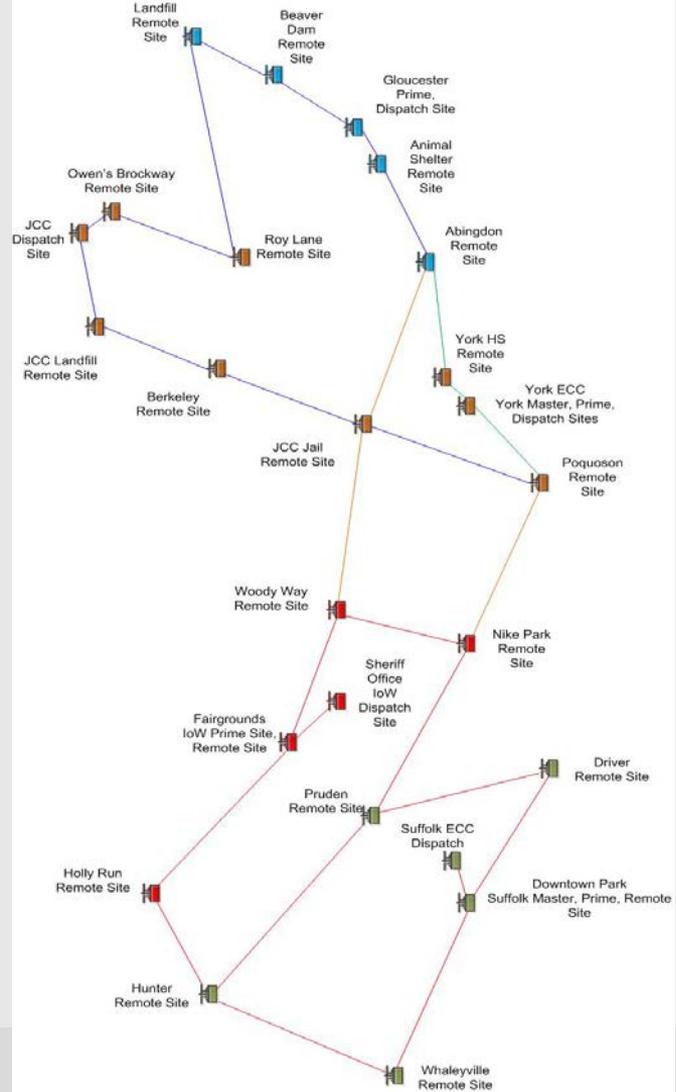


Suffolk / Isle of Wight Integration

- This will provide enhanced radio coverage/interoperability for both Suffolk/Isle of Wight
- The final phase of the upgrade will be linking Suffolk/Isle of Wight switch to York/JCC/Gloucester switch to provide geo diverse backup



York James City County Gloucester Suffolk Isle of Wight



Legend

Site System

- York County Site
- Gloucester County Site
- City of Suffolk Site
- IoW County Site

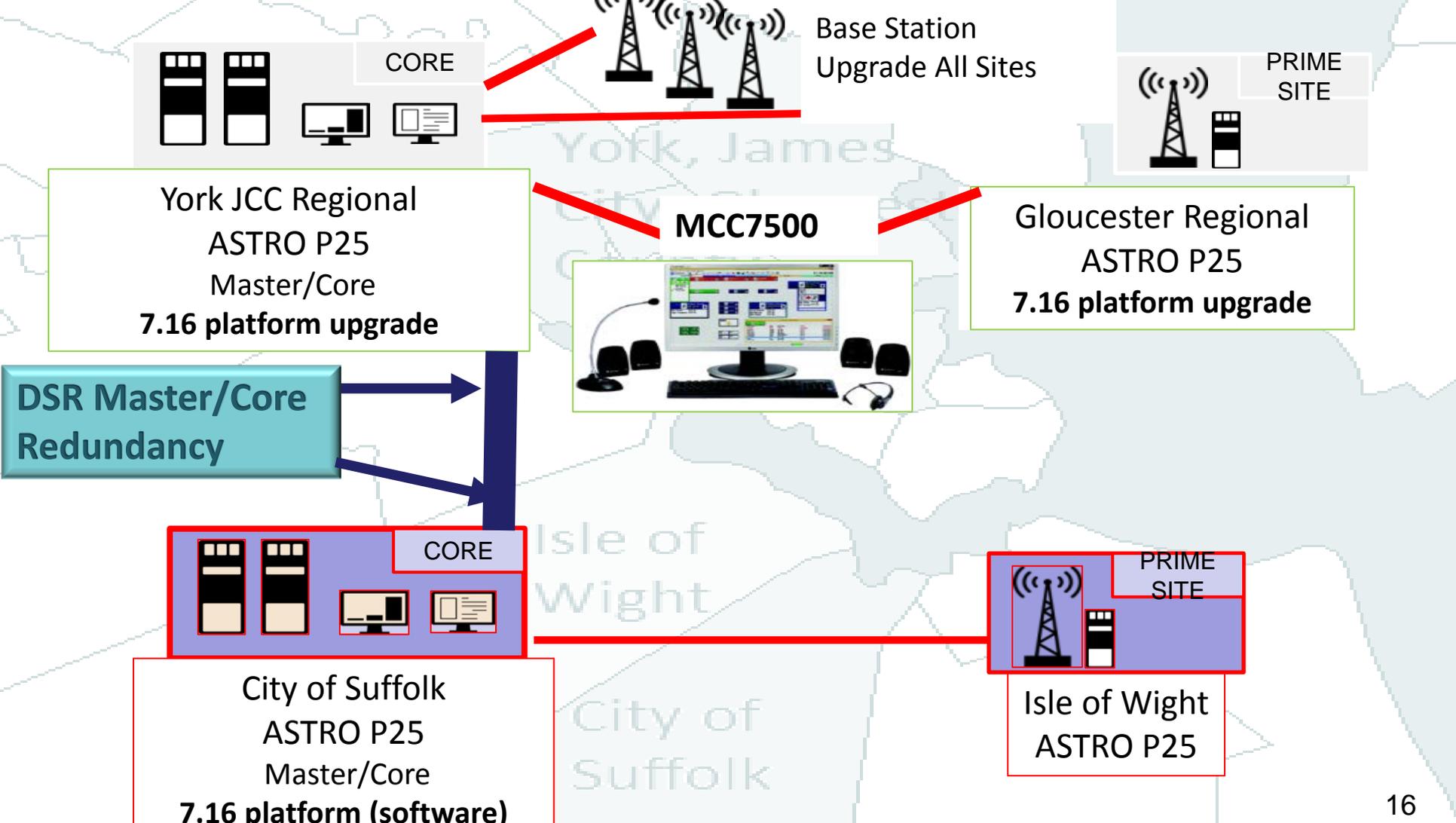
Connection Types

- Ceragon MW Hop
- MNI SONET Ring
- MNI SONET with Ethernet (MX Radios)
- MNI Ethernet only

Lifecycle Management Plan Phase 1

- York County
\$4,735,849
- James City County
\$4,735,849
- Gloucester County
\$1,021,115
- **TOTAL**
\$10,492,813





Motorola Equipment Staging August 2017





INNOVATE

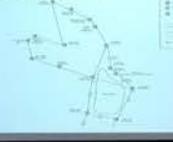
**WE HELP PEOPLE
BE THEIR BEST**







Design Overview





MOTOROLA SOLUTIONS

James City County

Suffolk

UNIVERSITY OF VIRGINIA



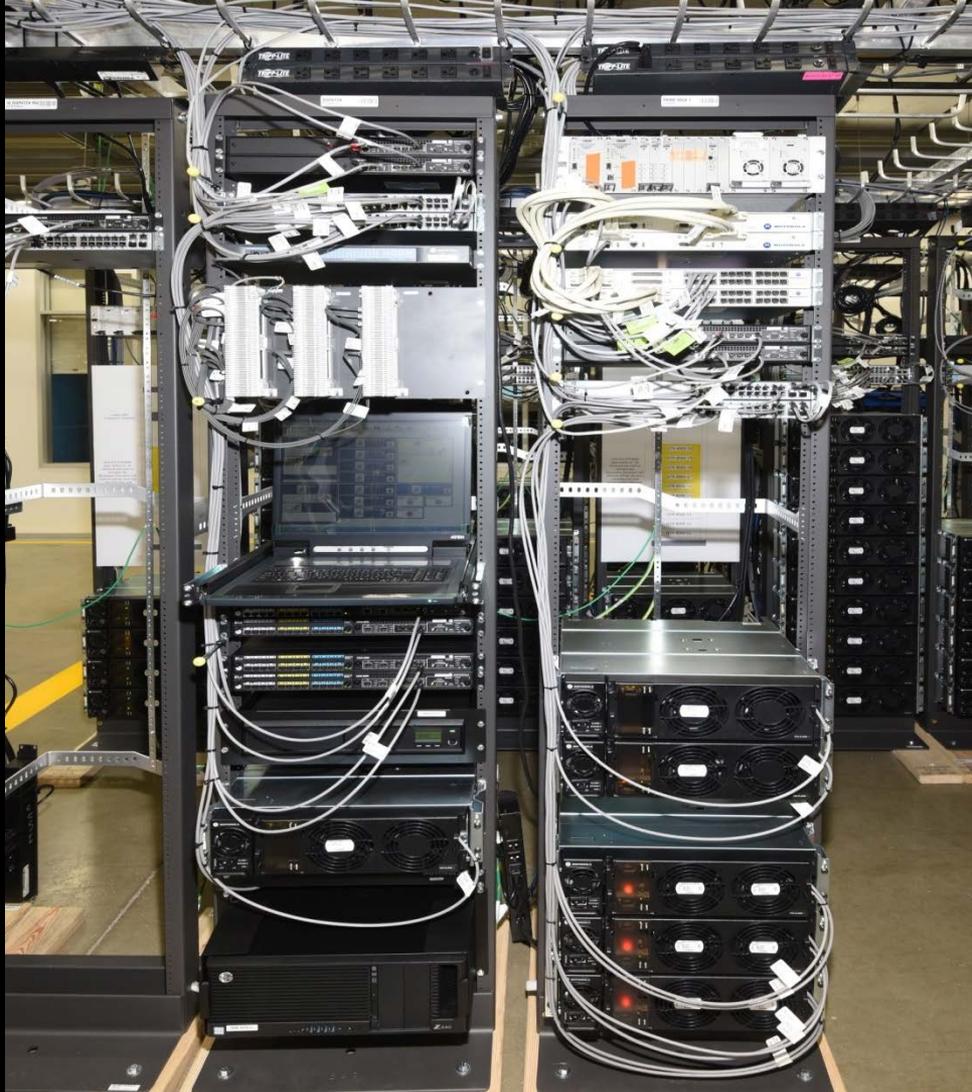
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v of Suffolk

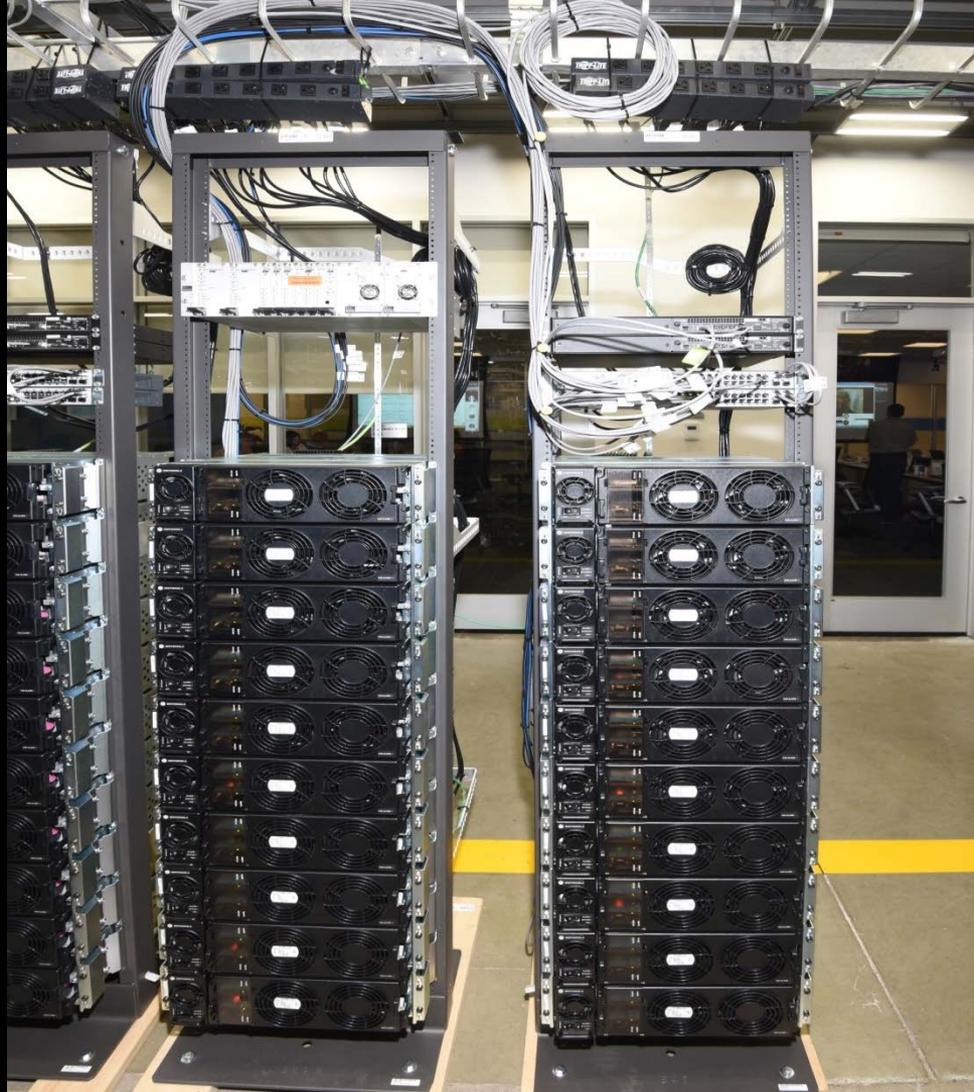




Motorola Solution
Partner Core

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P350E-E
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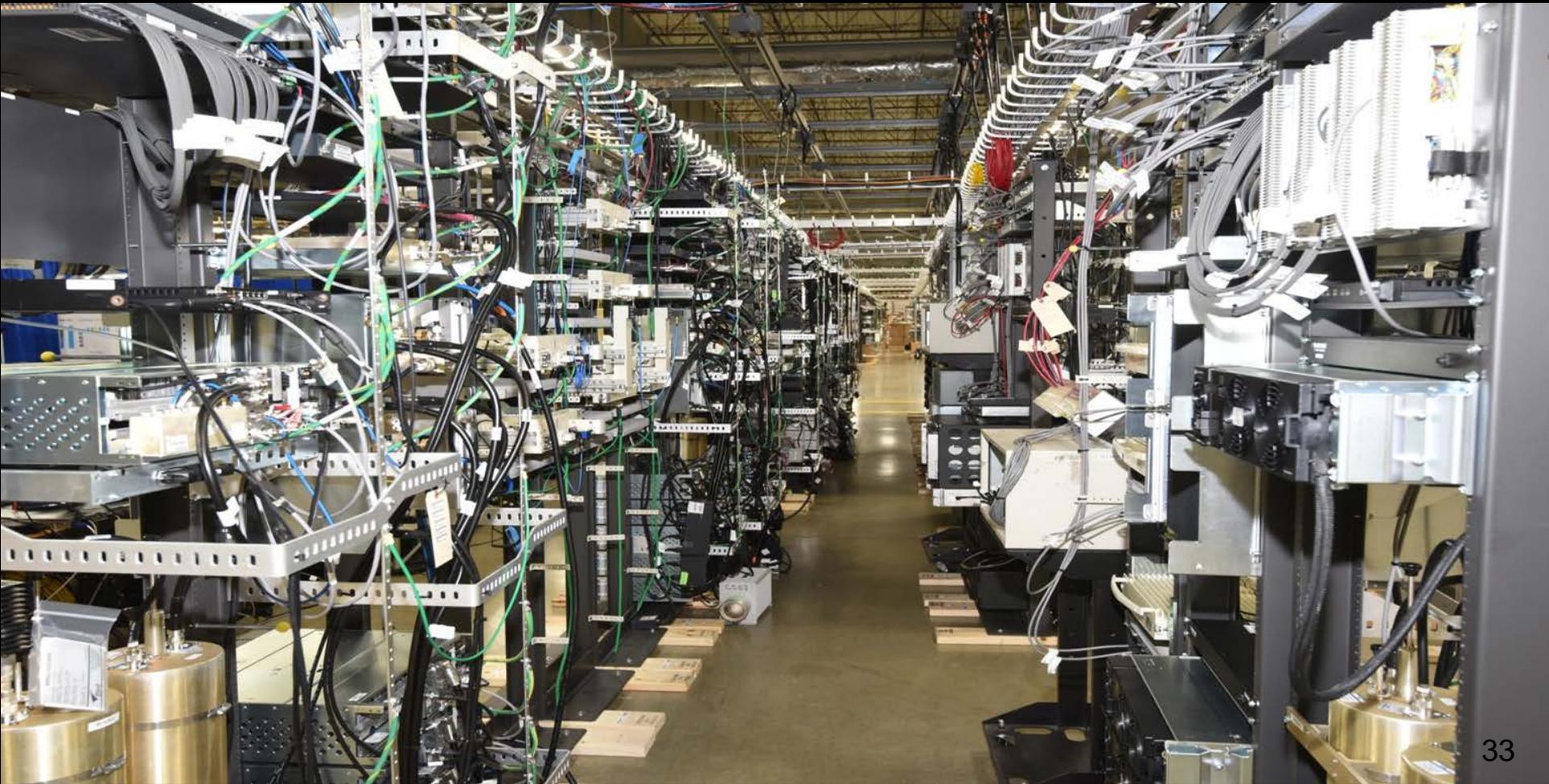






Yott.ECC
Console
Operator
Positions
10-17











EXIT

