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Technology in Corrections

Challenges for the Future

Integrated Security Control Systems

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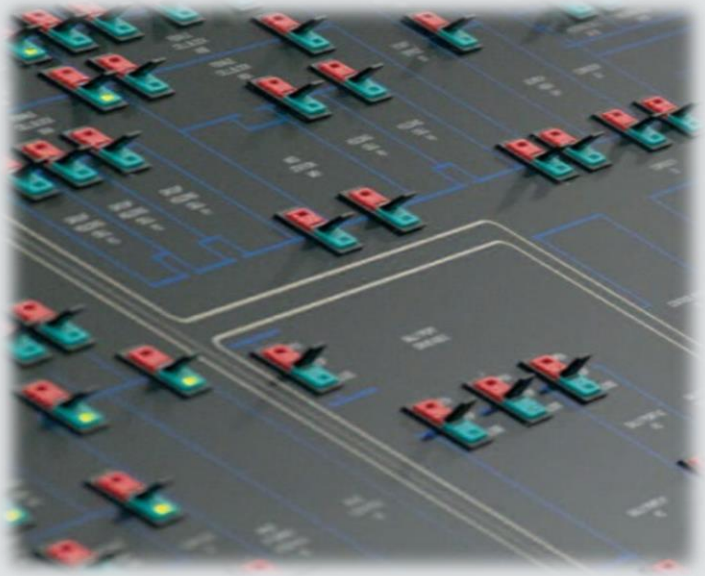
The Past

PLC Systems have been the norm for many years



- Proven very stable
- Various degrees of integration
- Move from hard panels to touch screen
- “IP” Capable products or services have been added as they have come available

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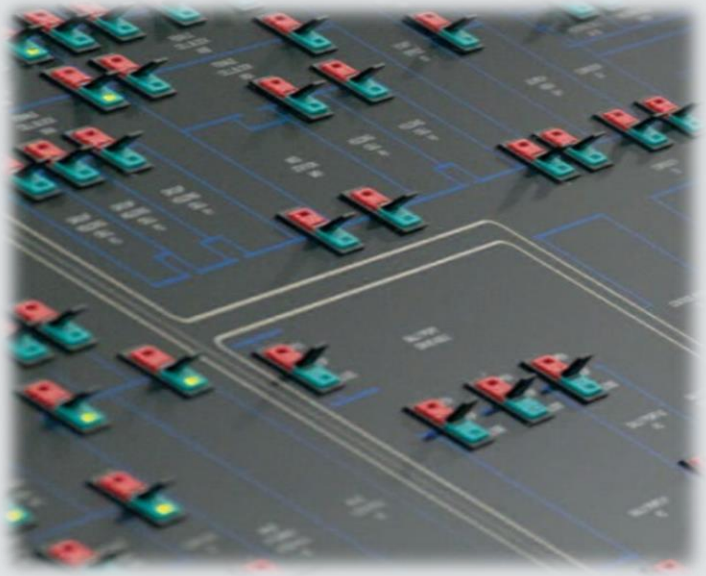
The Evolution

We see the Market moving to an “Unified Platform” as Facility Operators look to maximize products & services that are becoming available with the introduction of digital technology creating an Internet Protocol (IP) boom



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The Evolution

Cell / Day Room Infrastructure - range of IP capable product / services now available

- Camera
- Intercom / PA
- Water Control
- Lighting
- Access Control
- Lock Systems
- Video visitation

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The Evolution

IP Based product services into the Cell/Day Room/Facility

- Education programs
- Entertainment – TV / Movies
- Food Services [menu / ordering]
- Kiosk Services
- Medical
- Telephone
- Language Services
- Inmate Management Systems
- Guard Tour
- Judicial Video Conferencing

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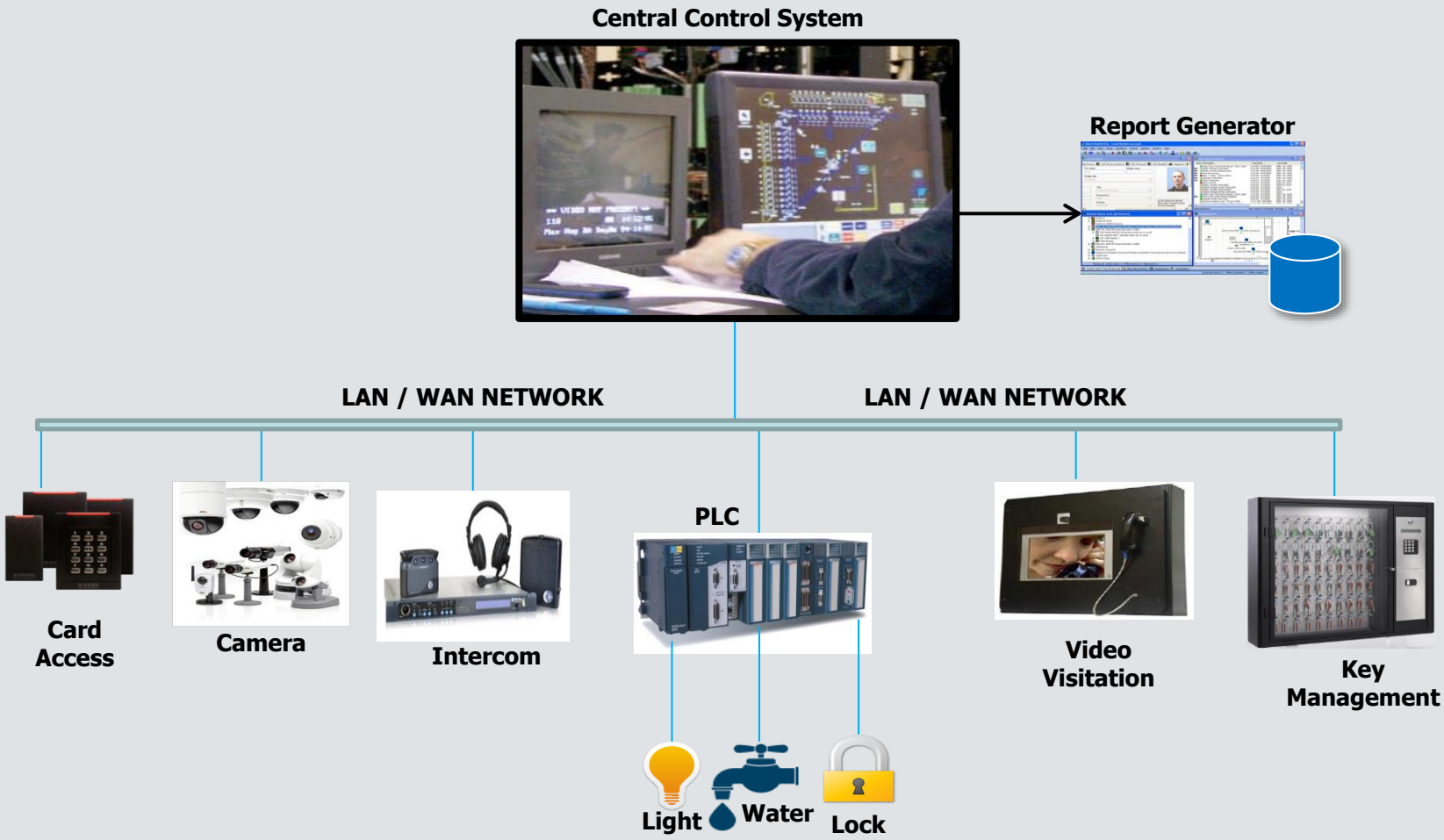
The Current State



The Current State

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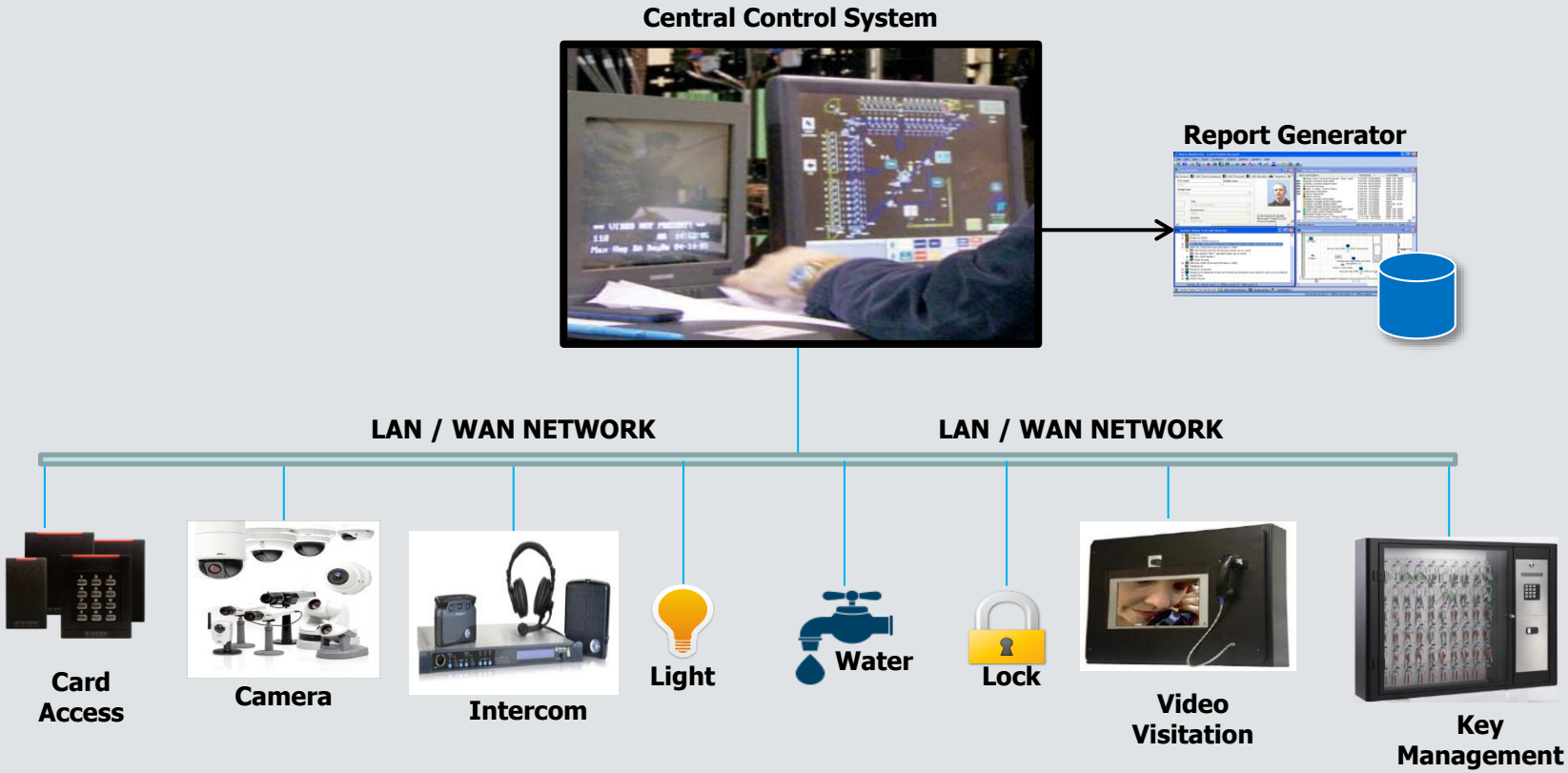
Future State



Have all end-point devices communicate directly over the network

Future State

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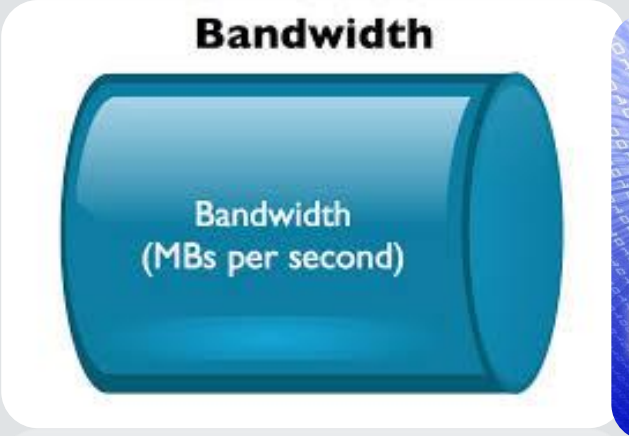
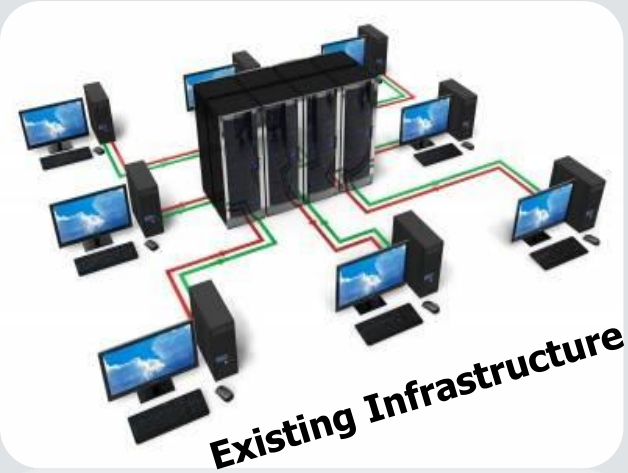
The Pitfalls





The Pitfalls

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The Pitfalls

- Uncertified components added to the network in past
- Technology added at different times - Unplanned Infrastructure
- New technology or software making current obsolete quicker
- Changes how a technology is taken to market
- Overwhelming data reporting

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The Challenges

Network Design

- Bandwidth considerations
- Power over Ethernet [POE] / UPS considerations
- Cabling [structured cable vs electrical cable]
- Network Backbone / Data Management Strategy
- Spike protection [e.g. lightening]
- Installation of IP technology into existing Facilities does not give the savings that new construction does

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The Challenge

"What standards govern your IP product?"

It is important for end-users to select products that have proven standards and use open communication rather than proprietary communication.

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The Challenges

Cultural Change

- Internal Resistance to change
- IT staff vs Physical Security staff
- Old systems / procedures are not let go
- Training requirements
- Different “look & feel”

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The Challenges

Cybersecurity / Internet of Things (“IoT”).

- Closed versus open network
- Use of wireless or blue tooth products in the detention environment
- Standardization across different products / software – Industry standards e.g. ONVIF, PSIA
- IP devices provide for the required encryption e.g. FIP 140-2

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The Opportunities

Infrastructure

- Cost Reduction – construction stage
- A system that is upgradable & scalable
- More complex & larger systems
- Consistent “look & feel” across multiple locations
- Improved quality & flexibility
- Mix and match components – contestable after market
- Enhanced maintenance features
- Ability to add new products / services at low cost

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The Opportunities

Operational – Using the technology

- Automate mundane operational tasks.
- Support the “operational philosophy” objectives
- Support custodial officers to spend time on tasks & programs that enhance the rehabilitation plan for the inmate[s]
- Use of technology by the inmate[s] to support their individual rehabilitation plan
- Reduce recidivism
- Lower operational & induction / training costs

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The Opportunities

On going use of the technology

- Program preventative maintenance
- Automate work orders / paperwork
- Focus staff on service items of most importance
- Improve communication between operational staff and maintenance staff
- Share maintenance information across institutions in real-time.
- Lower costs

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Summary

- Market has shifted in less than 10 years
- Now with IP locks a complete IP based system is now available
- Understand how the new Technology will benefit the organization
- Jurisdictions need to develop
  - Future System Plan / proofing
  - Infrastructure Plan
  - Security Plan
  - Standards / Configuration Requirements
  - Training Plan