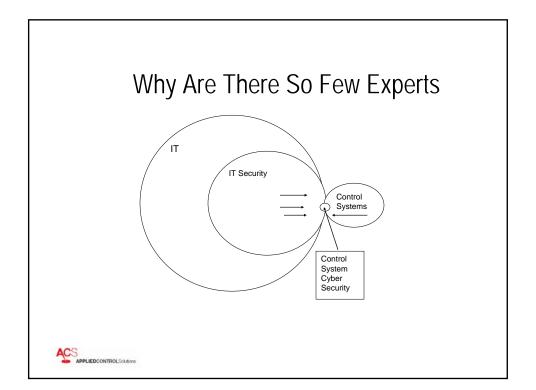


Myths

- Using Windows and TCP/IP makes it IT
- External, malicious threats are the biggest concerns
- Firewalls make you secure
- VPNs make you secure
- Encryption makes you secure
- IDSs can identify control system attacks
- Messaging can be one-way
- Field devices can't be hacked
- You are secure if hackers can't get in
- · More and better widgets can solve security problems
- ...



Generational Issues with Control Systems

- Legacy equipment
 - Security agnostic
 - Vulnerabilities backfit and security often turned off
 - Will be around for at least another 5 years
- New equipment
 - Vulnerabilities designed in
 - Will become pervasive in about 5 years for the next 15-20 years
- Future equipment
 - Security and performance part of initial design criteria
 - Probably about 20 years away before pervasive

