# Welcome!

- Thank you for joining today's webinar: **OpenADR and Its Impact on Building Control Systems**
- If you have a question please use the question box located on the right side of your screen.
- Questions for our speaker will be addressed at the end of the presentation.
- This webinar will be recorded for future playback.

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# Today's Speakers

- **Anno Scholten,** C.E.M, C.D.S.M, is President of Connexx Energy, a leading developer of applications and solutions that connect Smart Building with the Smart Grid. Anno has spent the last 25 years driving innovation in smart building systems and smart grid technologies.

- **Jim Boch,** Principal Electrical Engineer, Jim joined IPKeys with 30 years of industry experience with Fortune 500 companies. Jim has experience in the electrical power distribution, lighting and information technology sectors. He has assumed progressively greater responsibilities from project engineer to national product sector manager.

- **Allen Jones,** is an independent consultant specializing in the interaction between facilities and the Smart Grid. He has almost ten years of experience working on Smart Grid related topics. He serves on several national and international Smart Grid-related committees and also serves as an adviser to the BACnet Smart Grid Working. Group.

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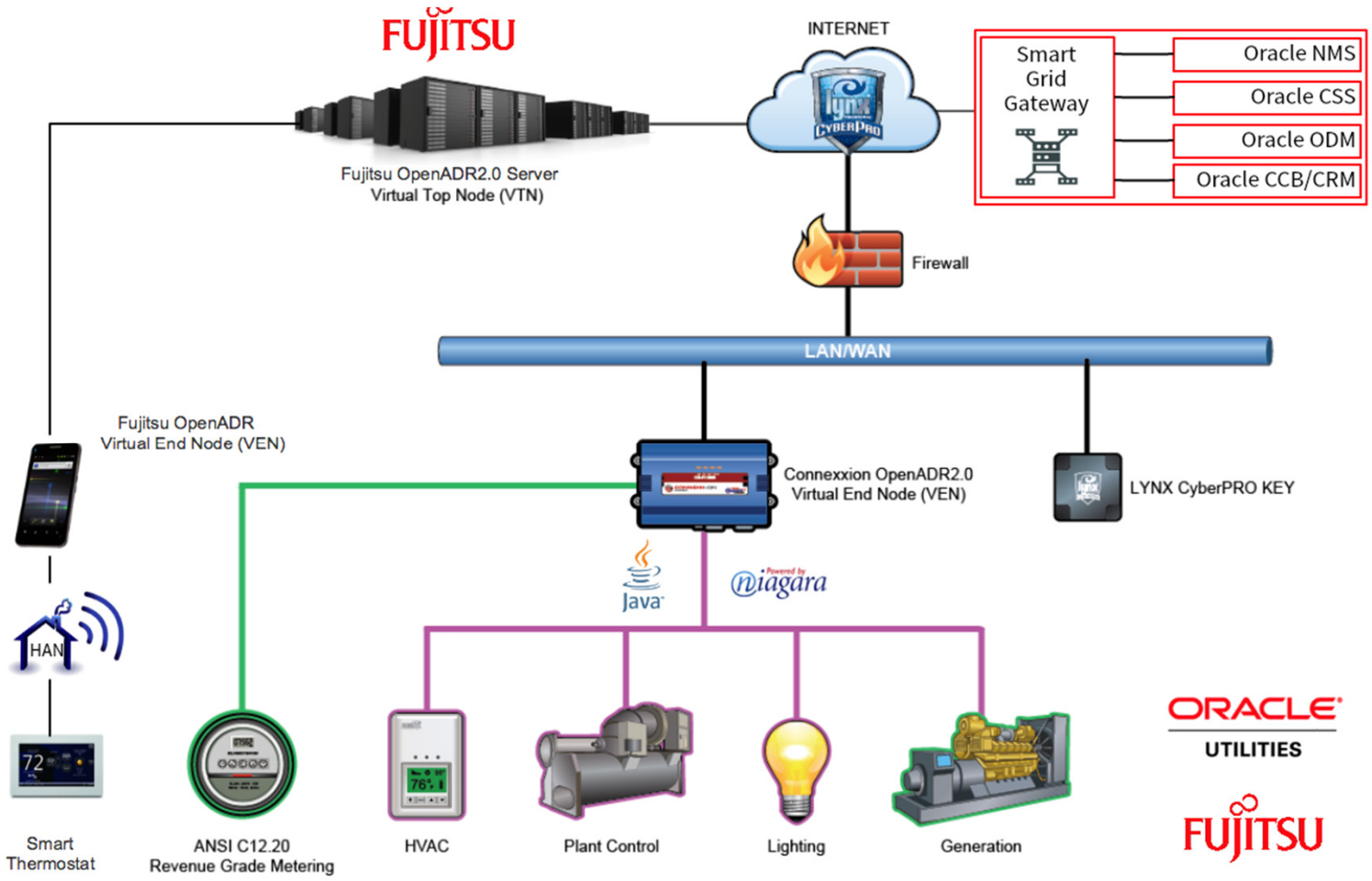
CONNEXX ENERGY

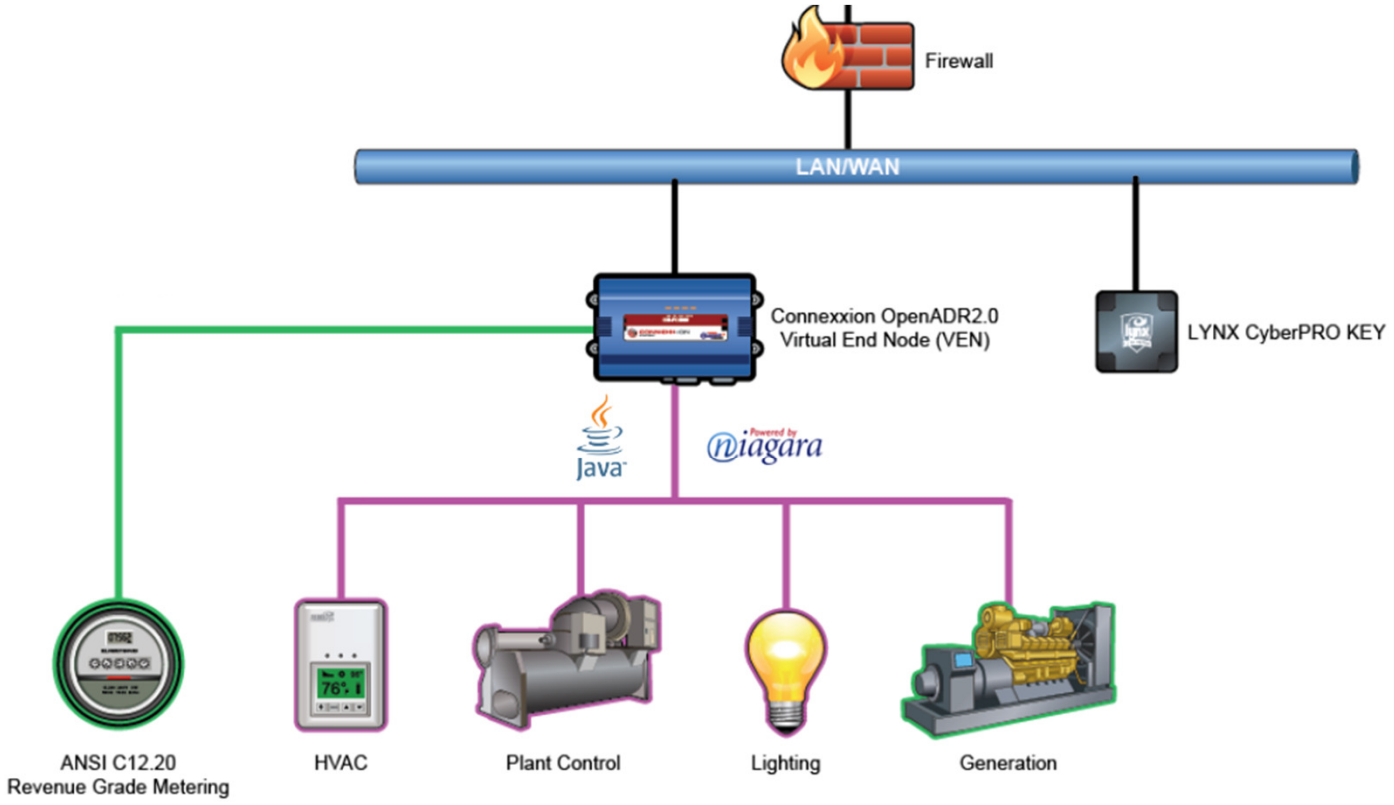
# OpenADR Impact on Building Control Systems

# Fully Integrated OpenADR




CONNEXX ENERGY

# OpenADR Integrated into Building Control Systems




CONNEXX ENERGY

# Impact is driven by ADR user needs

- Demand Response Strategies
  - Flexibility
  - Extensibility
  - User Control
  - Return to Normal
- Security
  - Remote Management
  - Auditing
- Measurement and Verification (M&V)
  - Real-time
  - Playback
  - Settlement

CONNEXX ENERGY

# Demand Response Strategies

CONNEXX ENERGY

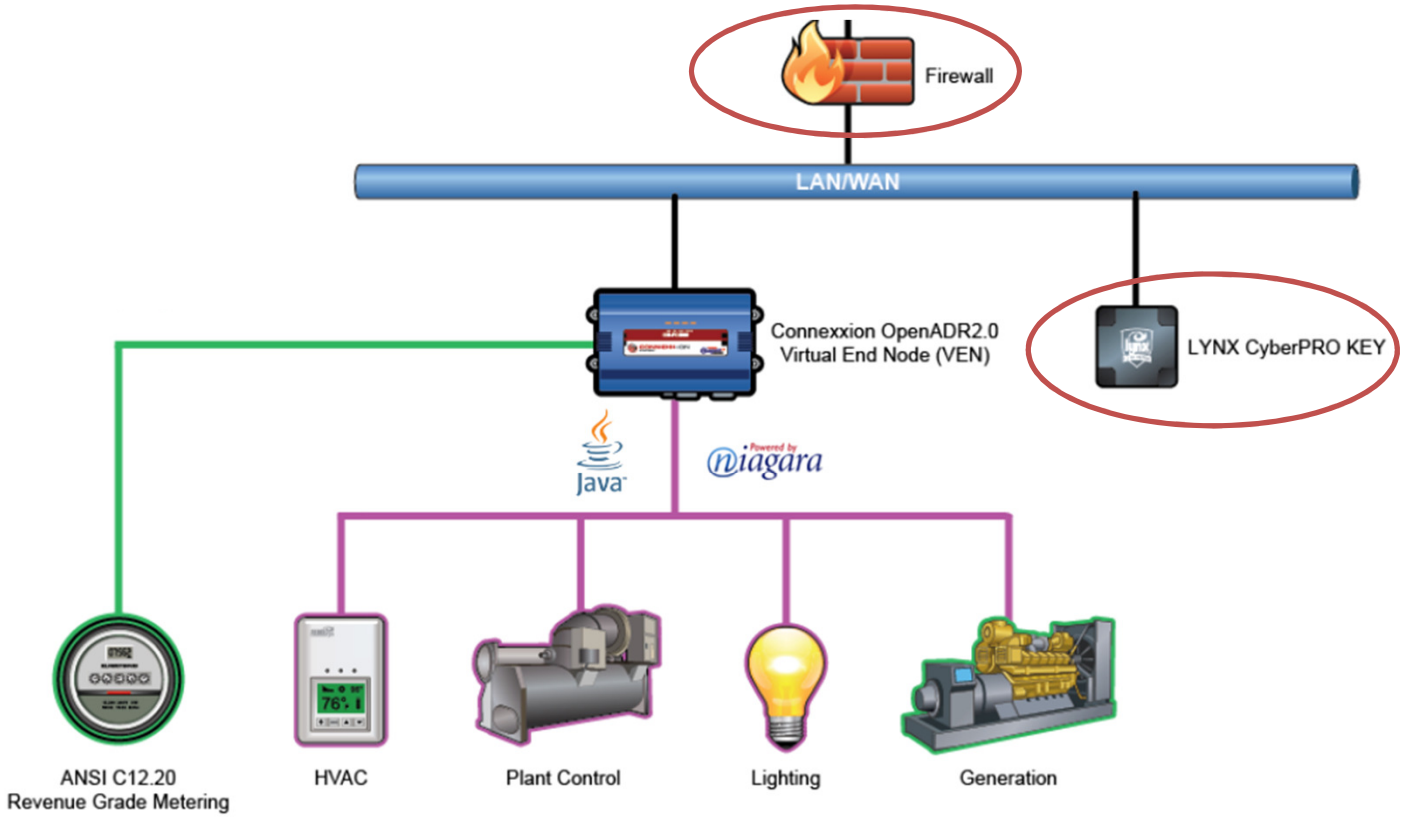
# Flexibility

# Extensibility

# User Control

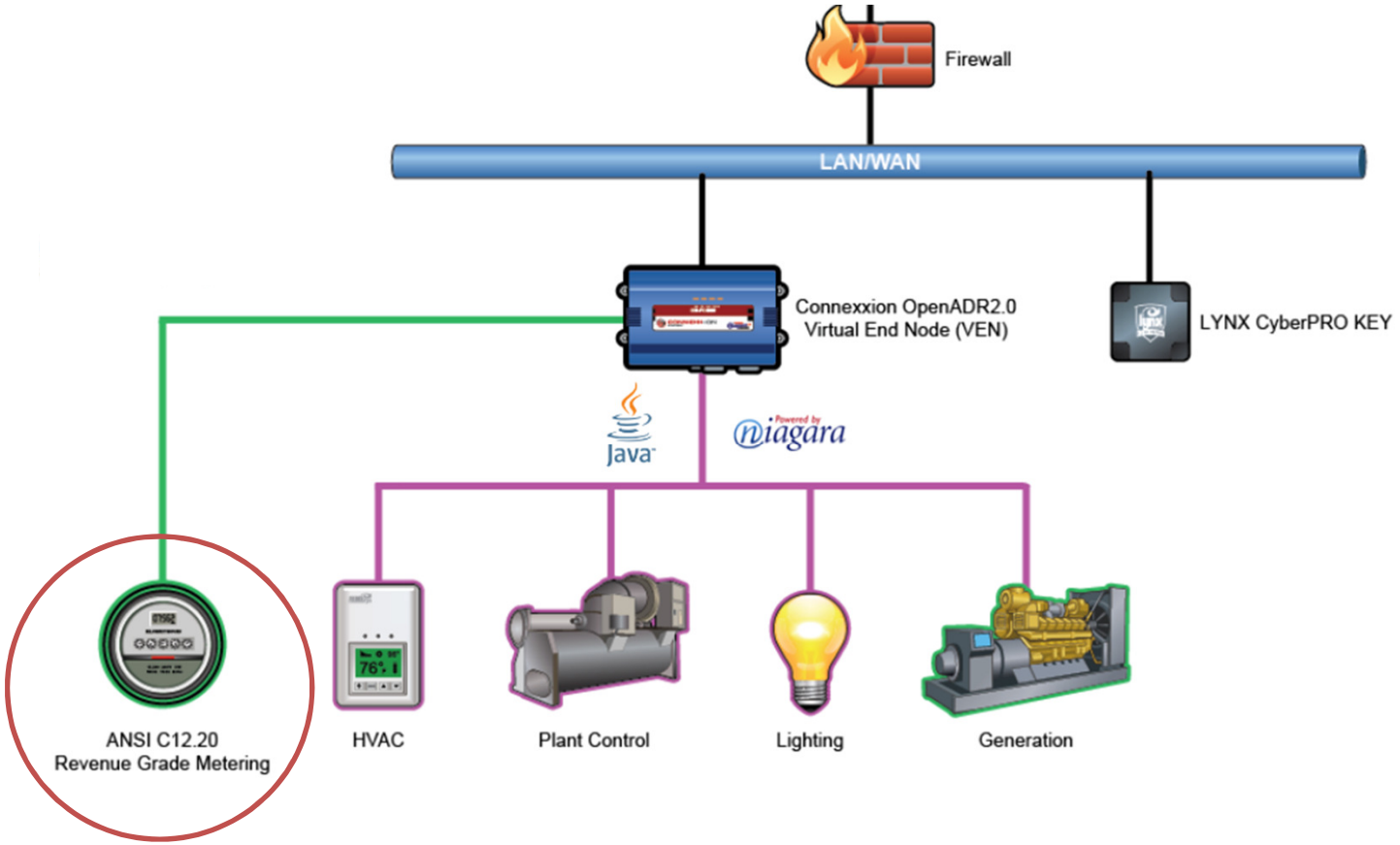
# Return to Normal

# Security



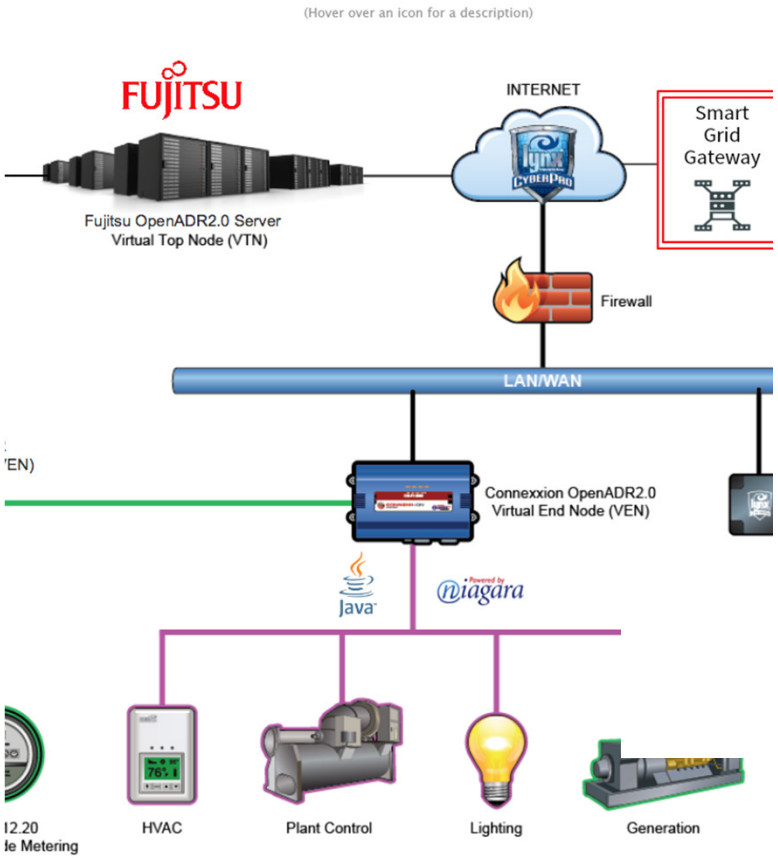

CONNEXX ENERGY

# Measurement & Verification




CONNEXX ENERGY

# OpenADR Impact on Building Control Systems




- Flexibility
- Extensibility
- User control
- Security
- M&V

CONNEXX ENERGY

Anno Scholten

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# THANK YOU