



# Making BYOD a Security Plus

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**Steve Hanna**

**Trusted Network Connect WG Co-Chair**

**Distinguished Engineer, Juniper Networks**



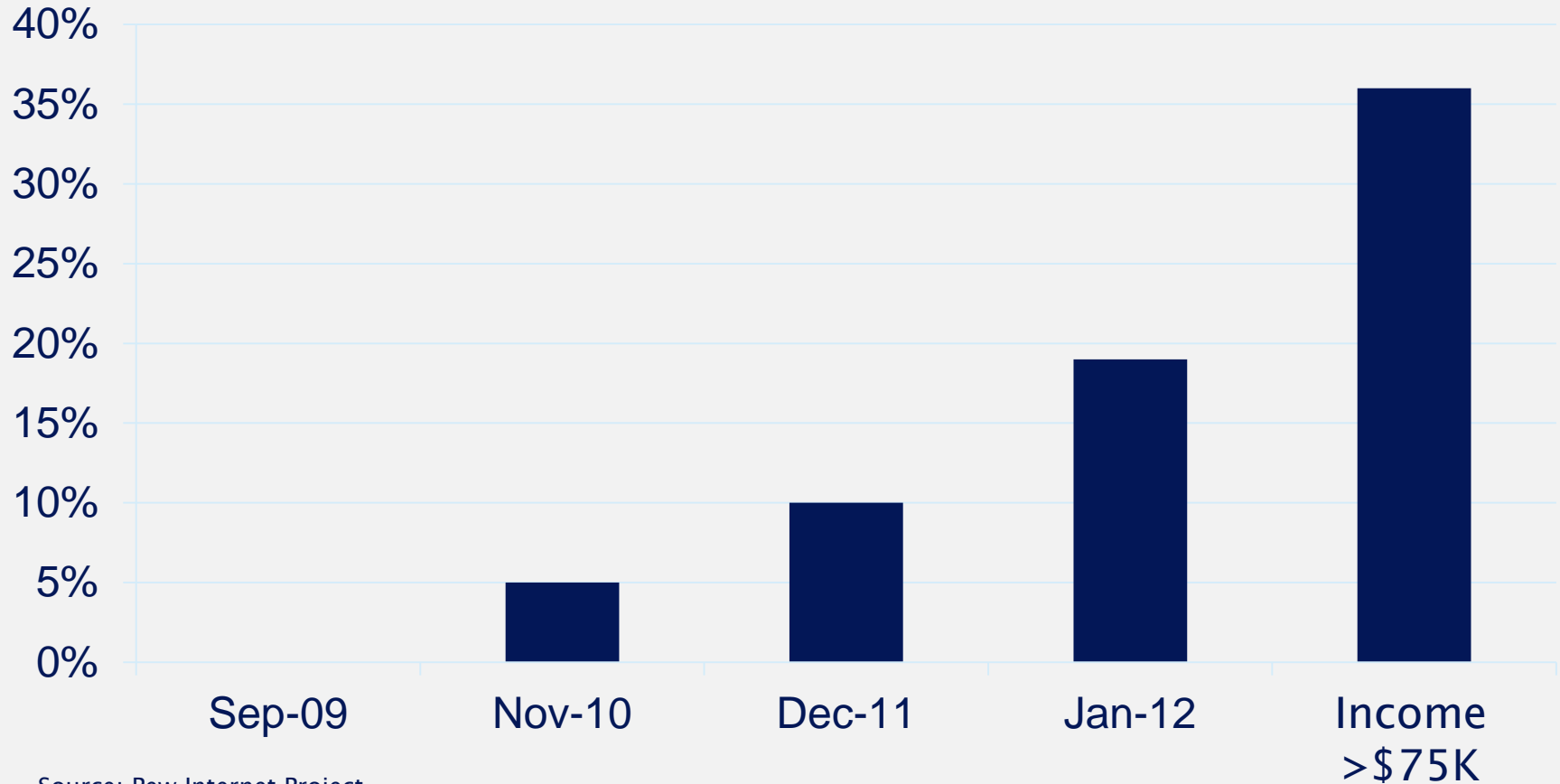
# BYOD Defined

**BYOD = Bring Your Own Device**



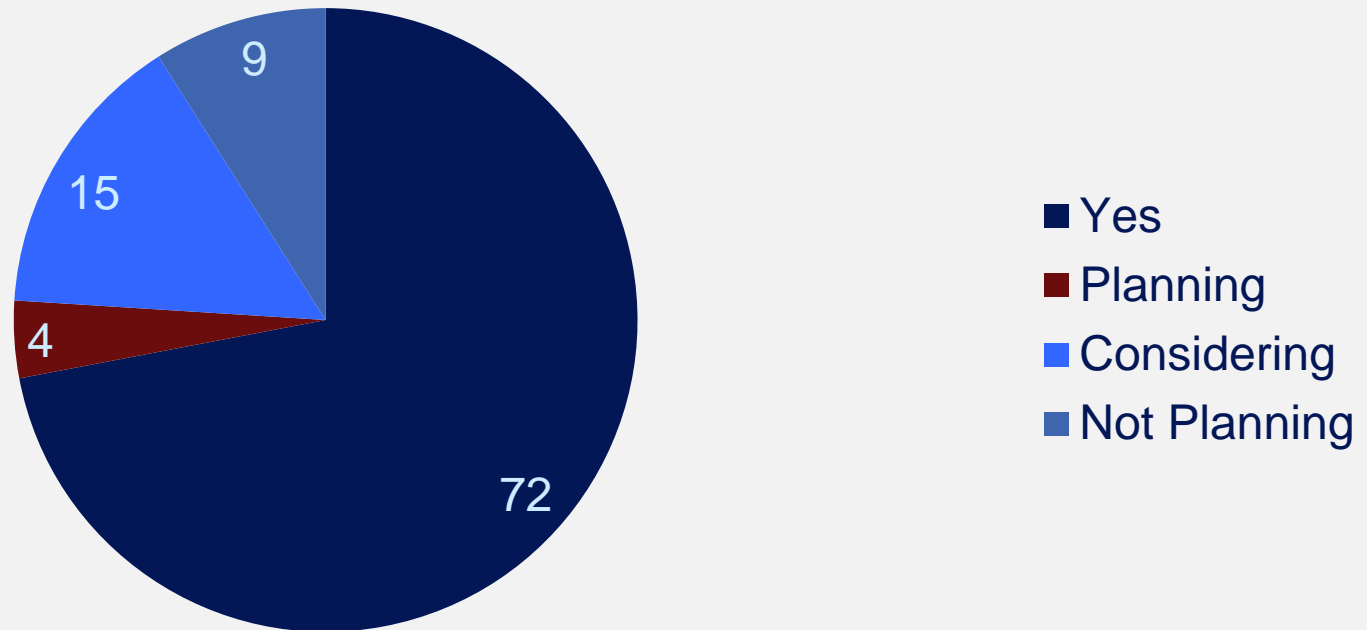
**BYOD = User-Owned Equipment That's Used for Work**

## Tablet Ownership among US Adults



Source: Pew Internet Project

## Support for Non-Managed Devices Accessing Corporate Resources



Source: Good Technology

## Pros

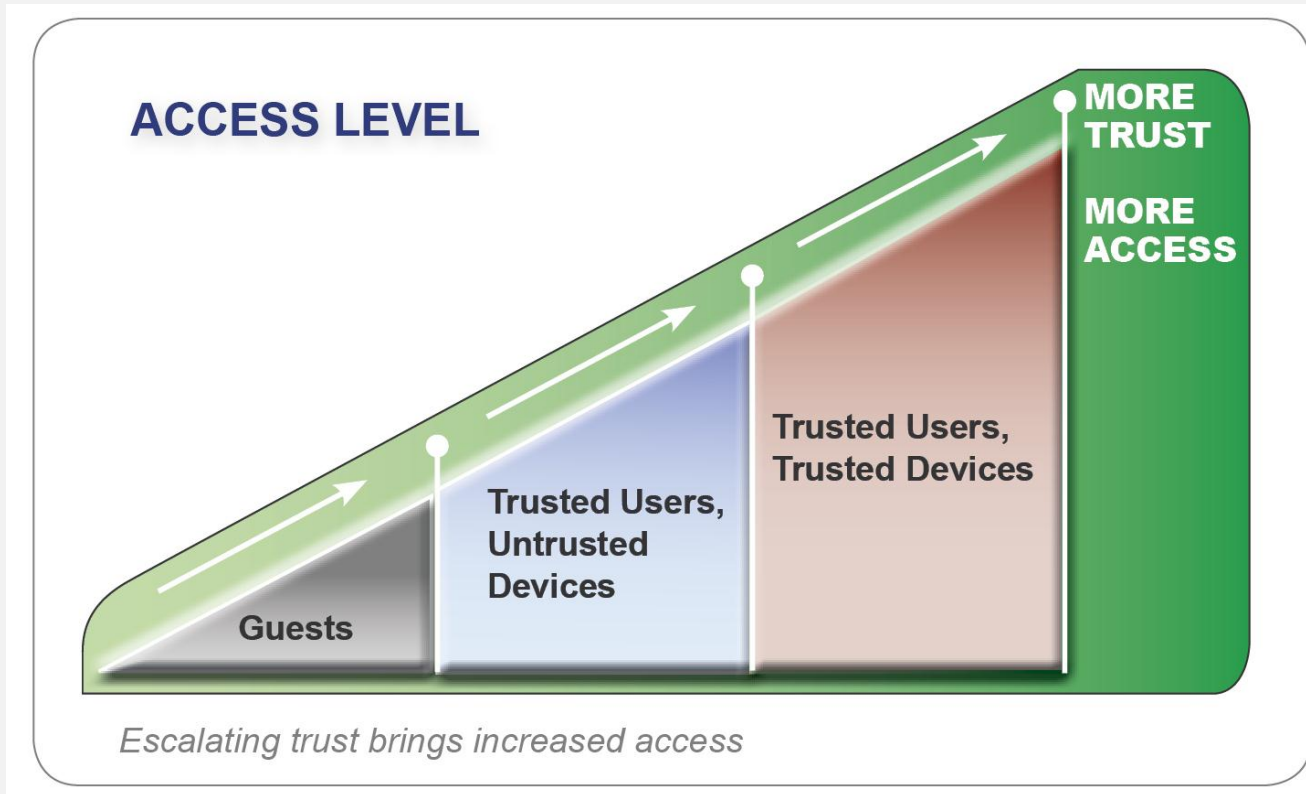
- **Higher Productivity**
- **Convenience**
- **Ease of Use**
- **Better Morale**
- **Corporate Cost Reduction**

## Cons

- **Security and Risk Concerns**
- **Regulatory and Policy Issues**
- **Support Costs**
- **Subsidy Costs**
- **Interoperability**

- **Uncontrolled Environment**
  - Higher Risk of Compromise
  - Legal and Regulatory Issues
- **Shared Equipment with Family**
- **Handling Equipment Loss**
- **Handling End of Employment**

## Control Access Based on Trust



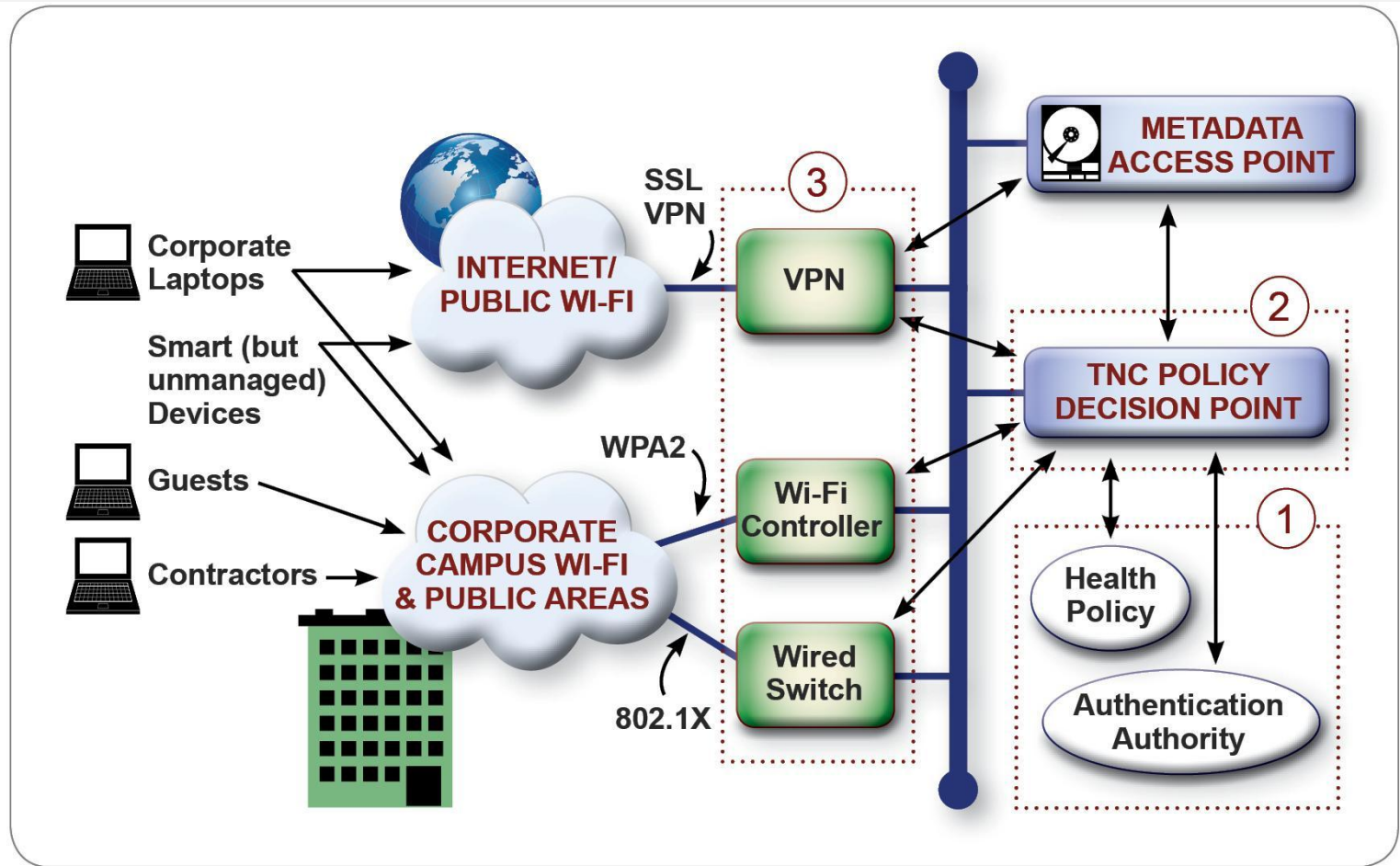
Source: TCG Mobile Security Architect's Guide



	<b>Users</b>	<b>Corporate Data Access</b>	<b>Corporate Data Storage</b>
<b>Guests</b>	Any	None	None
<b>Uncontrolled BYOD</b>	Employee Only (During Session)	Limited	None
<b>Controlled BYOD</b>	Employee Only (Permanent)	Broad But Sandboxed	Limited With Remote Wipe
<b>Controlled Corporate</b>	Employee Only (Permanent)	Broad With Data Leak Prevention	Broad With Data Encryption

- **Problem**
  - Support BYOD and mission-critical services on one network
    - Tablets, laptops, PCs, wireless projectors, interactive whiteboards, administrative applications, phones, physical security, etc.
- **Solution**
  - TCG's Trusted Network Connect architecture and standards
  - Authenticate users, identify and assess devices
  - Provide appropriate access based on all factors
  - Separate mission-critical services

# Implementing BYOD Controls



Source: TCG Mobile Security Architect's Guide

- **BYOD is here to stay!**
- **BYOD brings significant benefits and risks**
- **BYOD risks can be managed with proper tools and policies**
  - More Trust = More Access
  - Sandboxing and Mobile Device Management for Device Security
  - Trusted Network Connect (TNC) for Differentiated Access
- **BYOD is an executive-level priority**

- **TCG Mobile Security Architect's Guide**
- **Naperville School District Case Study**
- **TNC Operations Solutions Guides**
- **All Available from TCG Web Site**

<https://www.trustedcomputinggroup.org>