Accelerate into IoT networking

Step 1: Simplify and expand IT’s control

- Did you realize that you can’t manage your business or your IoT devices from the same control center? Let’s change that.

- Contextual in control

- Recommended solution

  - Extended Enterprise

  **Benefits:** Expand IT reach beyond the traditional enterprise network. Use Cisco’s latest intent-based networking technologies and ruggedized network devices to power policy-based automation, service assurance, and security.

- Did you know?

  - By 2020, 46% of network devices will be machine-to-machine (M2M)/IoT.

  - Attackers can infect 100,000 IoT devices in 24 hours.

  - Automation can save 61% in network operating costs.

  - Network monitoring is in the top three resource-intensive activities.


  - Source: Internal TCO analysis with large enterprise customer.


- Something to consider

  - You can increase operational efficiencies, security, and service levels by bringing industrial, IoT, and outdoor environments into the IT fold.

  - Identifying different device types and categories (sensors, cameras, machines) can facilitate network segmentation and prevent threats from propagating.

  - By centralizing management, IT can simplify deployment and operations of the ruggedized IoT network across the extended enterprise.

  - The critical factor for these environments is availability of the network and related business processes. Without visibility, IT and your business are driving blind.

- Recommended solutions

  - **Extended Enterprise**

    - **Benefits:** Expand IT reach beyond the traditional enterprise network. Use Cisco’s latest intent-based networking technologies and ruggedized network devices to power policy-based automation, service assurance, and security.

  - **ISE integration with Cisco Industrial Network Director**

    - **Benefits:** Enhance visibility and access control for devices that are typically not under IT control. Set up the network for policy-based segmentation to minimize the IoT attack surface.

  - **DNA Center with automation and extended SD-Access**

    - **Benefits:** Deploy centralized segmentation and policy management beyond the traditional corporate network to the extended enterprise. Increase operational efficiency and reduce exposure to threats.

- **DNA Advantage and Implement Service**

  - **Benefits:** Get proactive troubleshooting to prevent issues before service levels are impacted.

- Find out more

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Step 2: Enhance IoT security

- Did you know that 80% of network breaches happen from the inside? Let’s change that.

- Contextual in control

- Recommended solution

  - **Cisco Industrial Network Director**

  - **Benefits:** Enhance visibility and access control for devices that are typically not under IT control. Set up the network for policy-based segmentation to minimize the IoT attack surface.

- Did you know?

  - The installed base of IoT endpoints will reach over 36 billion units by end of 2021.*

- Something to consider

  - You can increase operational efficiencies, security, and service levels by bringing industrial, IoT, and outdoor environments into the IT fold.

  - Identifying different device types and categories (sensors, cameras, machines) can facilitate network segmentation and prevent threats from propagating.

  - By centralizing management, IT can simplify deployment and operations of the ruggedized IoT network across the extended enterprise.

  - The critical factor for these environments is availability of the network and related business processes. Without visibility, IT and your business are driving blind.

- Recommended solutions

  - **DNA Center with assurance**

    - **Benefits:** Get proactive troubleshooting to prevent issues before service levels are impacted.

  - **DNA Center advise and implement service**

    - **Benefits:** Get proactive troubleshooting to prevent issues before service levels are impacted.

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Step 3: Automate at scale

- Did you know that 80% of network breaches happen from the inside? Let’s change that.

- Contextual in control

- Recommended solution

  - **Cisco DNA Advantage and Implement Service**

    - **Benefits:** Get proactive troubleshooting to prevent issues before service levels are impacted.

- Did you know?

  - The installed base of IoT endpoints will reach over 36 billion units by end of 2021.*

- Something to consider

  - You can increase operational efficiencies, security, and service levels by bringing industrial, IoT, and outdoor environments into the IT fold.

  - Identifying different device types and categories (sensors, cameras, machines) can facilitate network segmentation and prevent threats from propagating.

  - By centralizing management, IT can simplify deployment and operations of the ruggedized IoT network across the extended enterprise.

  - The critical factor for these environments is availability of the network and related business processes. Without visibility, IT and your business are driving blind.

- Recommended solutions

  - **DNA Advantage and Implement Service**

    - **Benefits:** Get proactive troubleshooting to prevent issues before service levels are impacted.

- Find out more

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Step 4: Increase visibility and assurance

- Did you know that 80% of network breaches happen from the inside? Let’s change that.

- Contextual in control

- Recommended solution

  - **DNA Center with assurance**

    - **Benefits:** Get proactive troubleshooting to prevent issues before service levels are impacted.

- Did you know?

  - The installed base of IoT endpoints will reach over 36 billion units by end of 2021.*

- Something to consider

  - You can increase operational efficiencies, security, and service levels by bringing industrial, IoT, and outdoor environments into the IT fold.

  - Identifying different device types and categories (sensors, cameras, machines) can facilitate network segmentation and prevent threats from propagating.

  - By centralizing management, IT can simplify deployment and operations of the ruggedized IoT network across the extended enterprise.

  - The critical factor for these environments is availability of the network and related business processes. Without visibility, IT and your business are driving blind.

- Recommended solutions

  - **DNA Center with assurance**

    - **Benefits:** Get proactive troubleshooting to prevent issues before service levels are impacted.

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Transform to an intent-based network with Cisco DNA