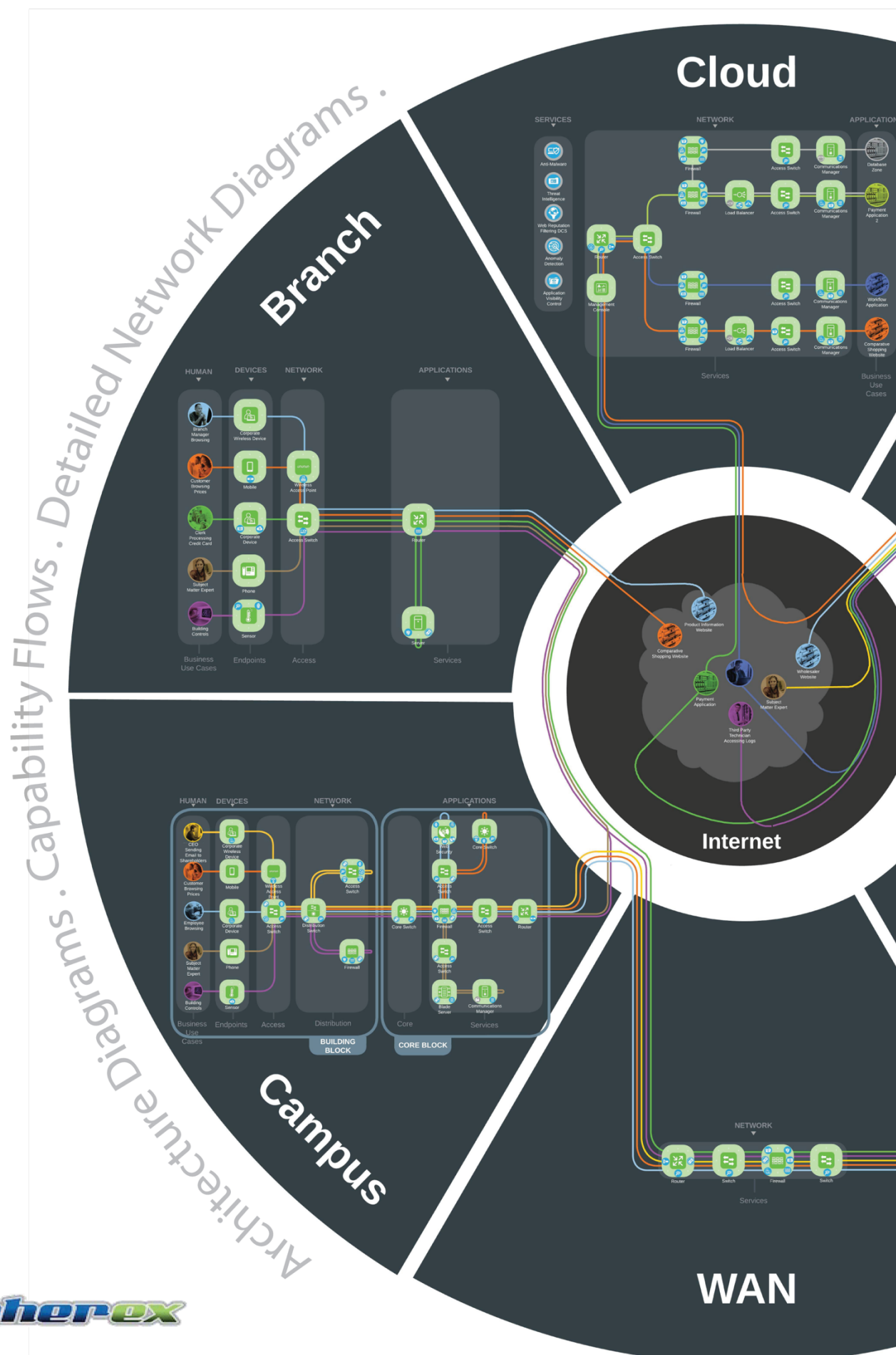


Network Documentation as a Service



INTRODUCTION

This document outlines the requirements and objectives for creating comprehensive network documentation. This documentation will serve as a single source of truth for all relevant information related to the current network infrastructure, including hardware, software, and configurations. The main objective of this project is to ensure that accurate and up-to-date information is readily available to all stakeholders, including network administrators, developers, and support teams. This will enable a more efficient and effective management of the network, improve troubleshooting and problem resolution, and support future planning and growth.

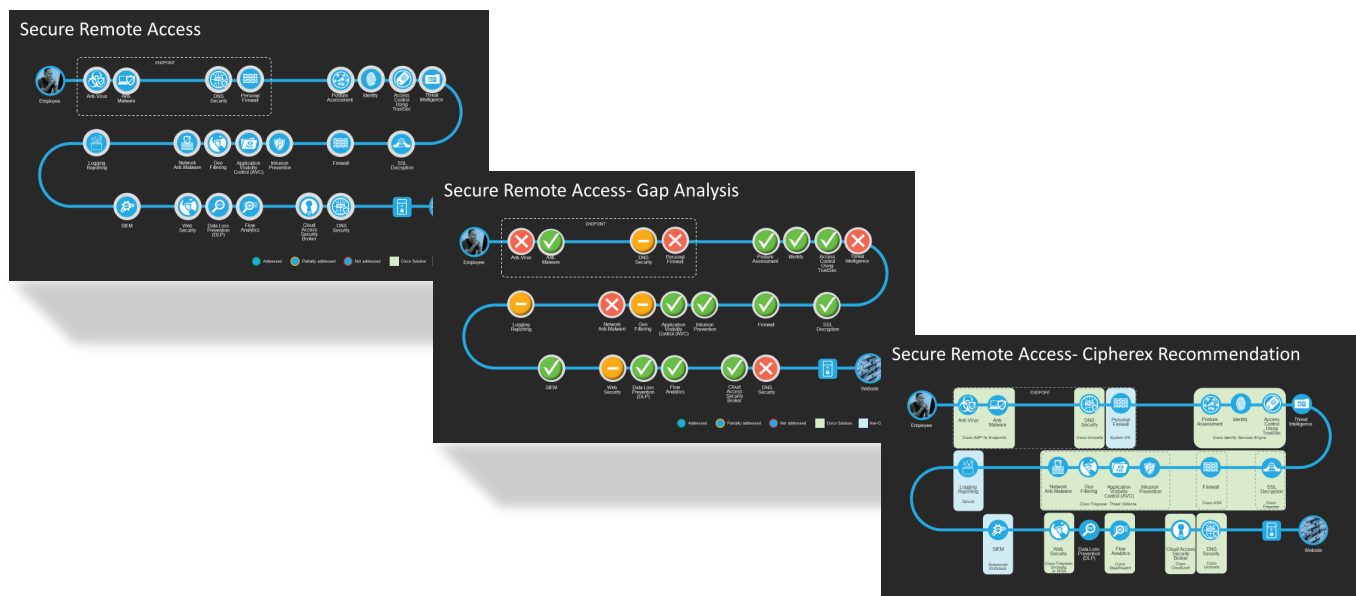
Comprehensive and accurate documentation is necessary to address these common business requirements.

- Cyber Insurance
- Sarbanes Oxley
- PCI (Payment Card Industry) Compliance
- HIPAA Compliance

The service will cover all aspects of network documentation, from the initial assessment and analysis of the current network environment to the development and implementation of a sustainable documentation process.

DOCUMENTATION

CipherEx documentation services for your network infrastructure can include one or a selection of the following elements: Capability Flows, Architecture Diagrams, Detailed Network Diagrams, infrastructure hardware and software inventories. The choice of element(s) will depend on the specific needs and requirements of your organization and stakeholders. These can be customized to best suit their requirements. The documentation will be developed using industry-standard tools and techniques. Ongoing documentation services will include regularly reviewed and updated work products to ensure accuracy and relevance. This is best achieved when integrated into your current project and change management workflows.



CAPABILITY FLOWS

The Capability Flows provide an overview of the different security features and functions that can be used to protect the application data and related assets including firewalls, intrusion prevention systems (IPS), VPNs (Virtual Private Network), and access control. The Capability Flows highlight the interconnections between the different security components and how they work together to provide a comprehensive and integrated security solution. By using Capability Flows, organizations can better understand the security capabilities available to them and how they can be leveraged to support their specific security requirements and risk reduction needs.

Workshops will cover:

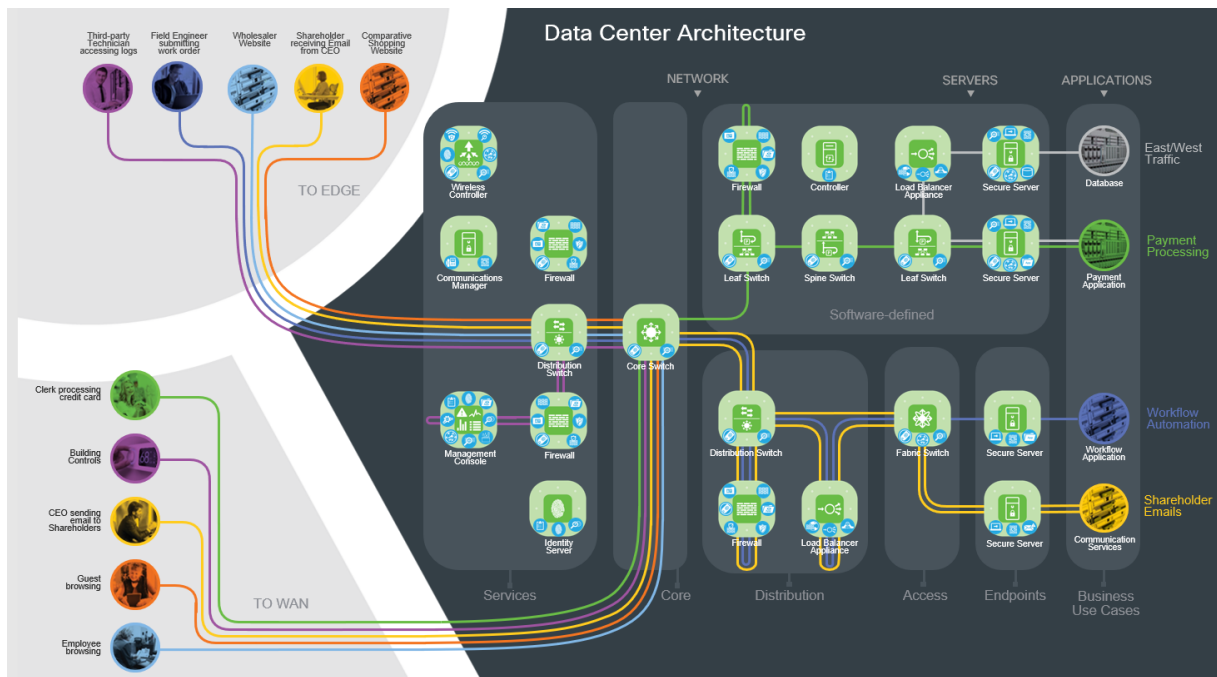
- Bringing together business, application, and network owners to collaborate together
- Identification of business goals
- Definition of business flows or use cases to determine system capabilities
- Establishment of success criteria
- Identification of risks, threats, and related policies



ARCHITECTURE DIAGRAMS

An Architecture Diagram is a visual representation of the network infrastructure that shows how the different components of the network are organized and how they interact with each other. This diagram provides a high-level view of the combined application flows across the network. The security capabilities implemented on each of the network components, such as routers, switches, firewalls, and intrusion prevention systems (IPS), and how they fit into the overall security architecture and resulting network design. CipherEx creates architecture diagrams based on the Cisco SAFE (Secure Architecture Framework) framework, which provides best practices and guidelines for designing and implementing a secure network infrastructure.

Having an architecture diagram is important because it provides a clear and concise overview of the network security elements which are essential for proper management and troubleshooting. The diagram can also be used to identify potential security risks and vulnerabilities and to support planning and decision-making related to upgrades and changes. Additionally, having a visual representation of where security capabilities are implemented within your network can help to improve communication and collaboration between different stakeholders, including network administrators, developers, and support teams. Overall, an architecture diagram is a valuable tool for ensuring the security and stability of the network, and for supporting the efficient and effective management of your environment.

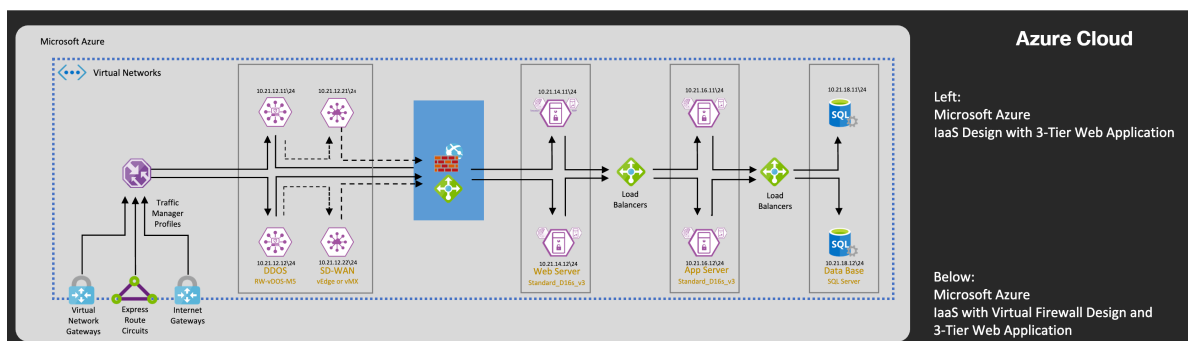
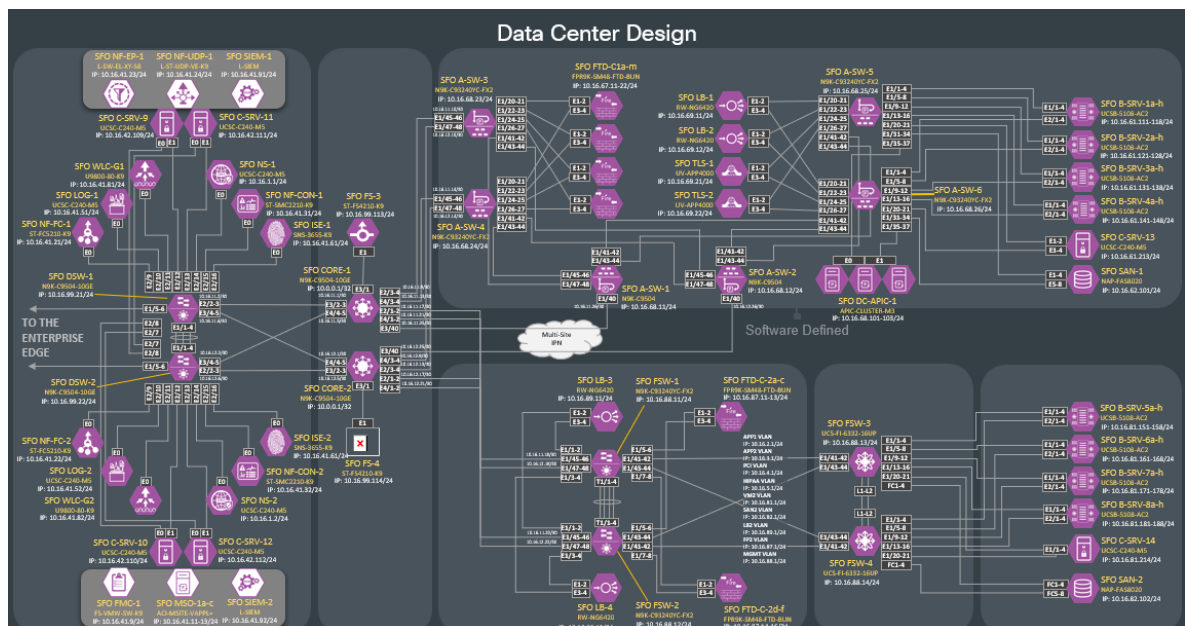


DETAILED NETWORK DIAGRAMS

A Detailed Network Diagram is a comprehensive representation of the network infrastructure that includes all relevant details about the hardware, software, and configurations of the network components. This diagram typically includes information such as device type, IP address, software version, and connections between devices. The Detailed Network Diagram provides a more in-depth view of the network compared to a high-level architecture diagram.

Having a Detailed Network Diagram is important because it serves as a single source of truth for all relevant information related to the network infrastructure. This information is crucial for effective network management and troubleshooting, as well as for planning and decision-making related to network upgrades and changes. The Detailed Network Diagram can be used to quickly identify the location of specific devices and connections within the network and to verify that their configuration is consistent with the documented information. It can also be used as a reference during network audits and security assessments to verify compliance with internal policies and regulations.

A Detailed Network Diagram is an essential tool for ensuring the stability and reliability of the network and for improving the efficiency and effectiveness of network management and maintenance. Having accurate and up-to-date information about the network infrastructure can help to minimize downtime, improve troubleshooting and problem resolution, and support future planning and growth.



IMPLEMENTATION

CipherEx has a dual-phase approach to implementing a network design:

- Information Gathering (may include workshops)
- Documentation Creation

INFORMATION GATHERING PHASE

The information gathering phase is a critical step in creating a detailed network diagram, as it lays the foundation for creating an accurate and comprehensive representation of the network infrastructure. By gathering accurate and up-to-date information, you can ensure that the detailed network diagram reflects the actual network environment and supports effective network management and maintenance.

1. Collect existing documentation: Review any existing network documentation, such as network diagrams, device configurations, and network scans.
2. Interview stakeholders: Interview network administrators, developers, and other stakeholders to gather information about the network infrastructure and configurations. This information can provide valuable insight into the network environment and help to ensure that the information collected accurately reflects the network.
3. Review device configurations: Review the configurations of the network devices to gather information about the specific configurations of each device and the flow of data between devices. This information can be used to create a detailed representation of the network.
4. Deploy tools if needed to perform infrastructure discovery and configuration collection if none exist.
5. Verify information: Verify the accuracy of the information collected during the information gathering phase. Check for any discrepancies and make any necessary updates to ensure that the information is accurate and up to date.

DOCUMENTATION CREATION PHASE

CipherEx will create documents based on approved tools and file formats

1. Select a diagramming tool that meets your needs and requirements, such as Microsoft Visio, Lucidchart, or PowerPoint.
2. We will create detailed diagrams and have them peer reviewed for accuracy
3. Get approval of completion for each site or flow
4. Diagram next site or location

Documentation as an ongoing service includes regular monthly meetings to gather any new change information. Integrating CipherEx into your regular change management and project management processes will help ensure your documentation is never out of date!

For more information and to sign up for CipherEx Network Documentation as a Service, please contact us at the information listed below. We look forward to hearing from you.

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