# Network Sketcher

This platform that helps make network design and configuration management faster, more accurate, and easier.
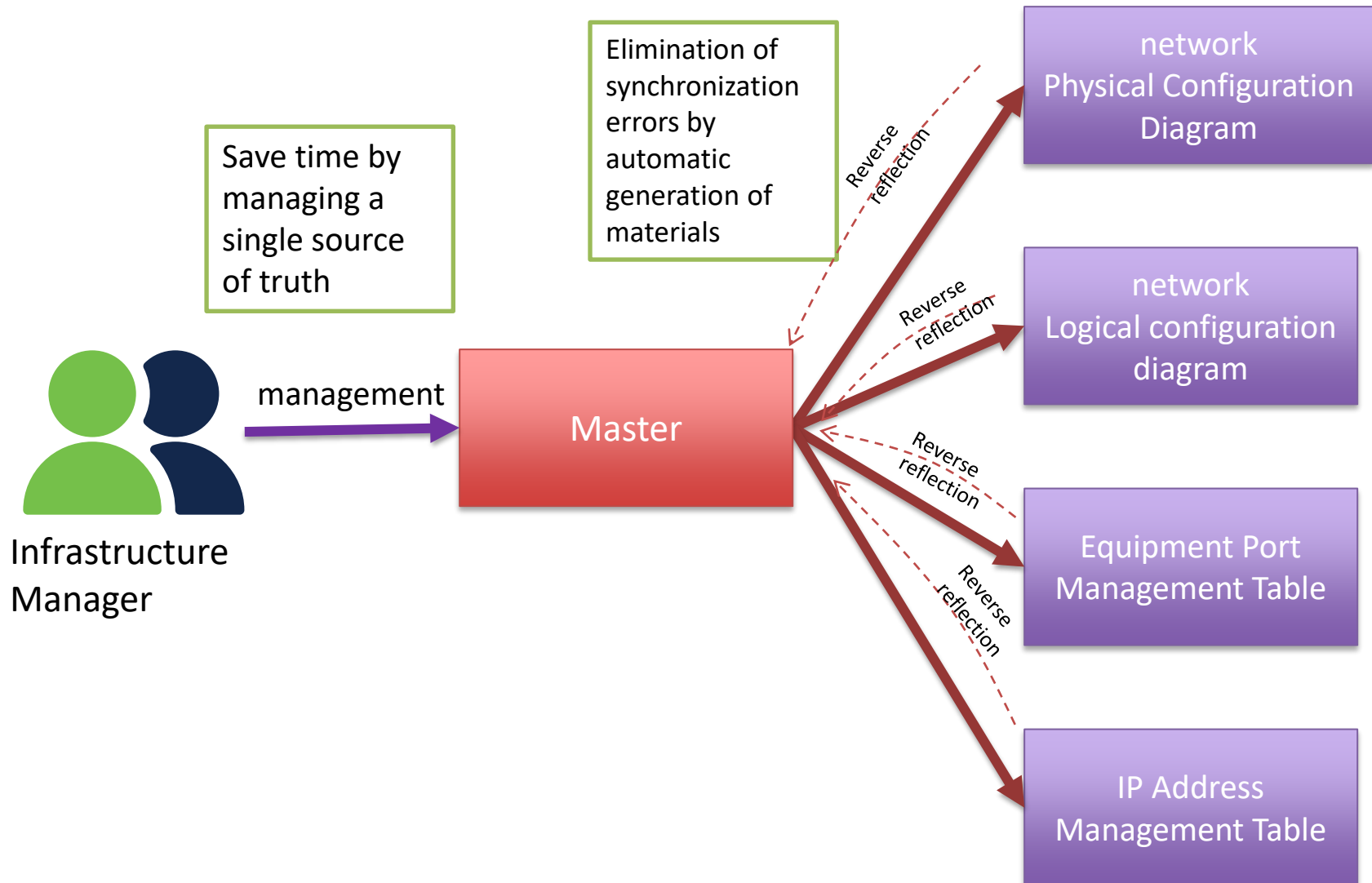
concept

Challenge: Asynchronously decentralizing network configuration management materials

Network configuration management requires a large physical and logical configuration diagram, a port management table, and an IP address management sheet. Currently, the effects of increased work time due to individual maintenance and failures due to synchronization errors between materials are becoming constant.
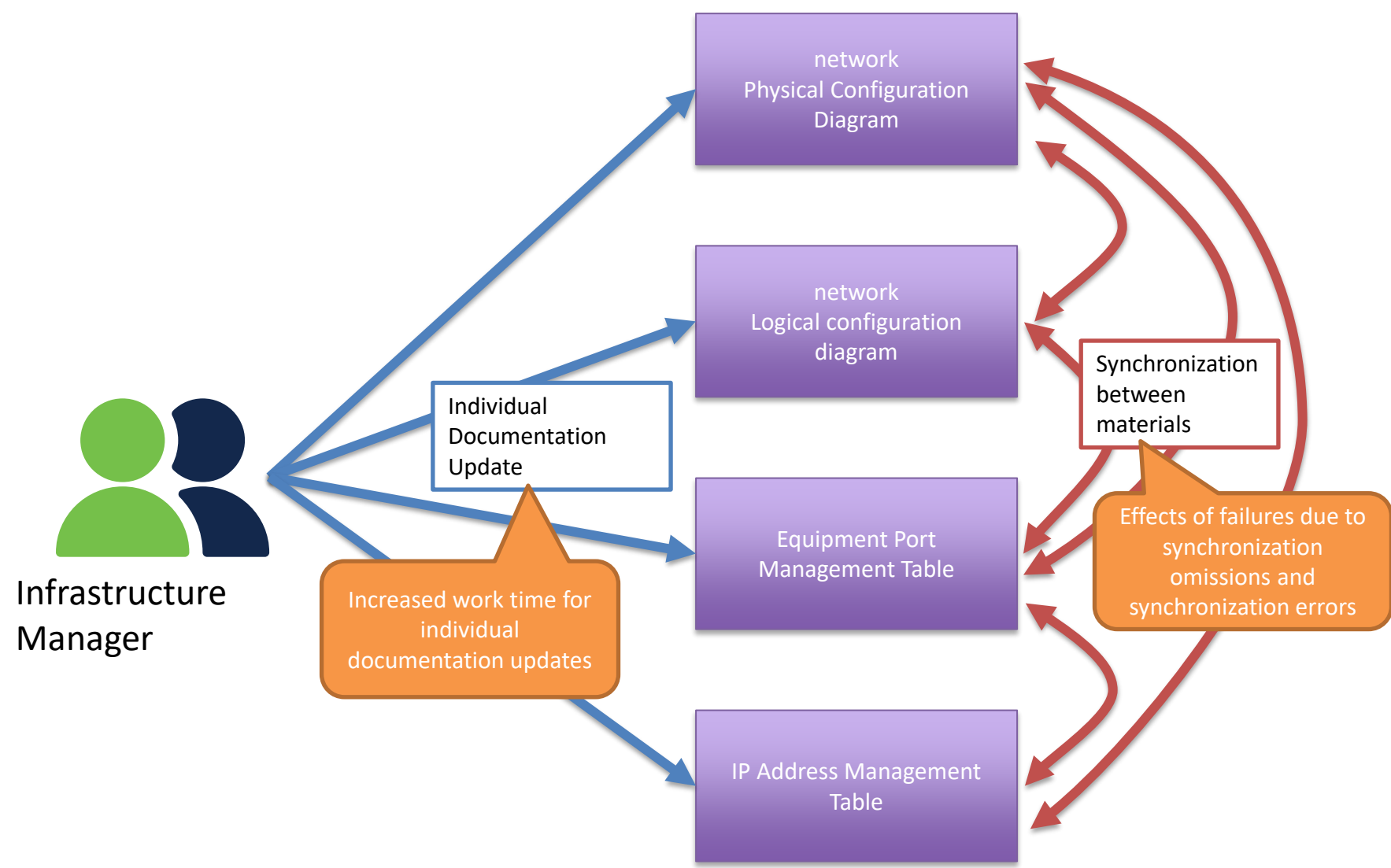
Concept 1: Aggregating network configuration information

As a solution strategy, by preparing a master table constituting the network and changing the policy to generate each management document from the master table, you can aim to reduce work time and eliminate synchronization errors between documents.

Elimination of synchronization errors by automatic generation of materials

Save time by managing a single source of truth

Infrastructure Manager

management

Master

Reverse reflection

network Physical Configuration Diagram

Reverse reflection

network Logical configuration diagram

Reverse reflection

Equipment Port Management Table

Reverse reflection

IP Address Management Table

Concept 2: Creating master data from rough sketches

The first step in handling NS DX is to create master data, which is the biggest hurdle. To dramatically improve the efficiency of this process, we provide a function that automatically generates EXCEL master data from PPT rough sketches.
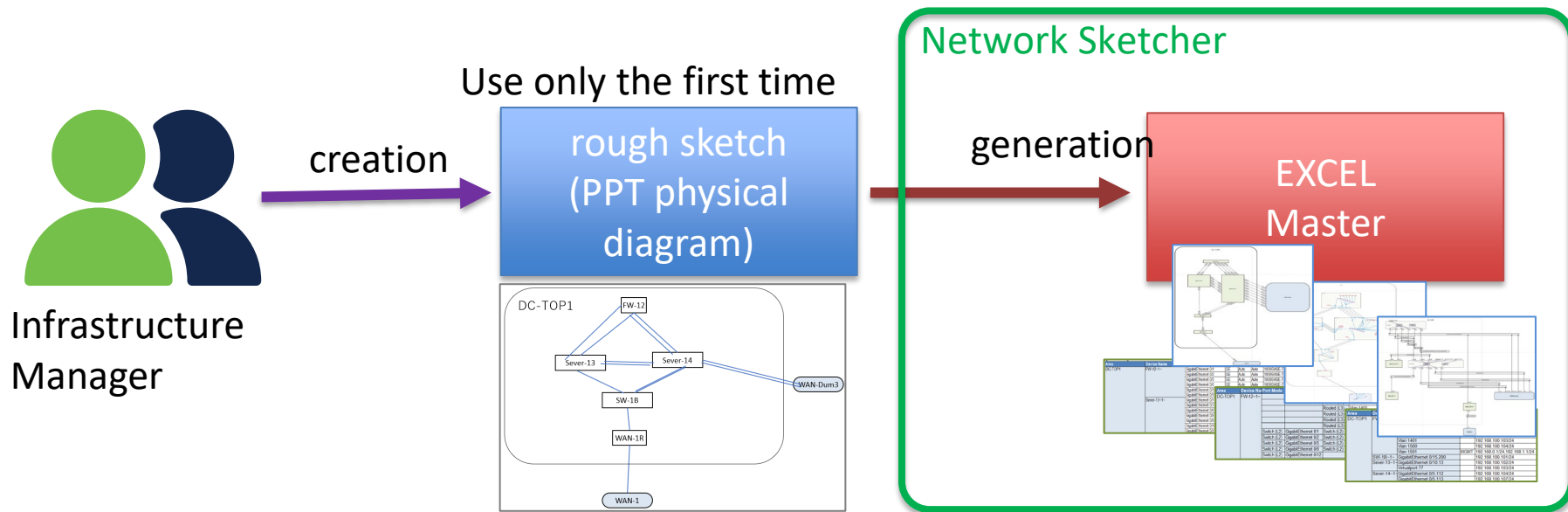
Concept 3: Durable MS Office format configuration material

Since all the configuration materials are in MS Office format, even if the tool becomes unavailable for some reason, subsequent maintenance is possible. This minimizes the hurdles and risks of starting to use the tool from a sustainability perspective.

Unavailability of tools and master data does not affect the quality of other materials

EXCEL Master

PowerPoint

network Physical Configuration Diagram
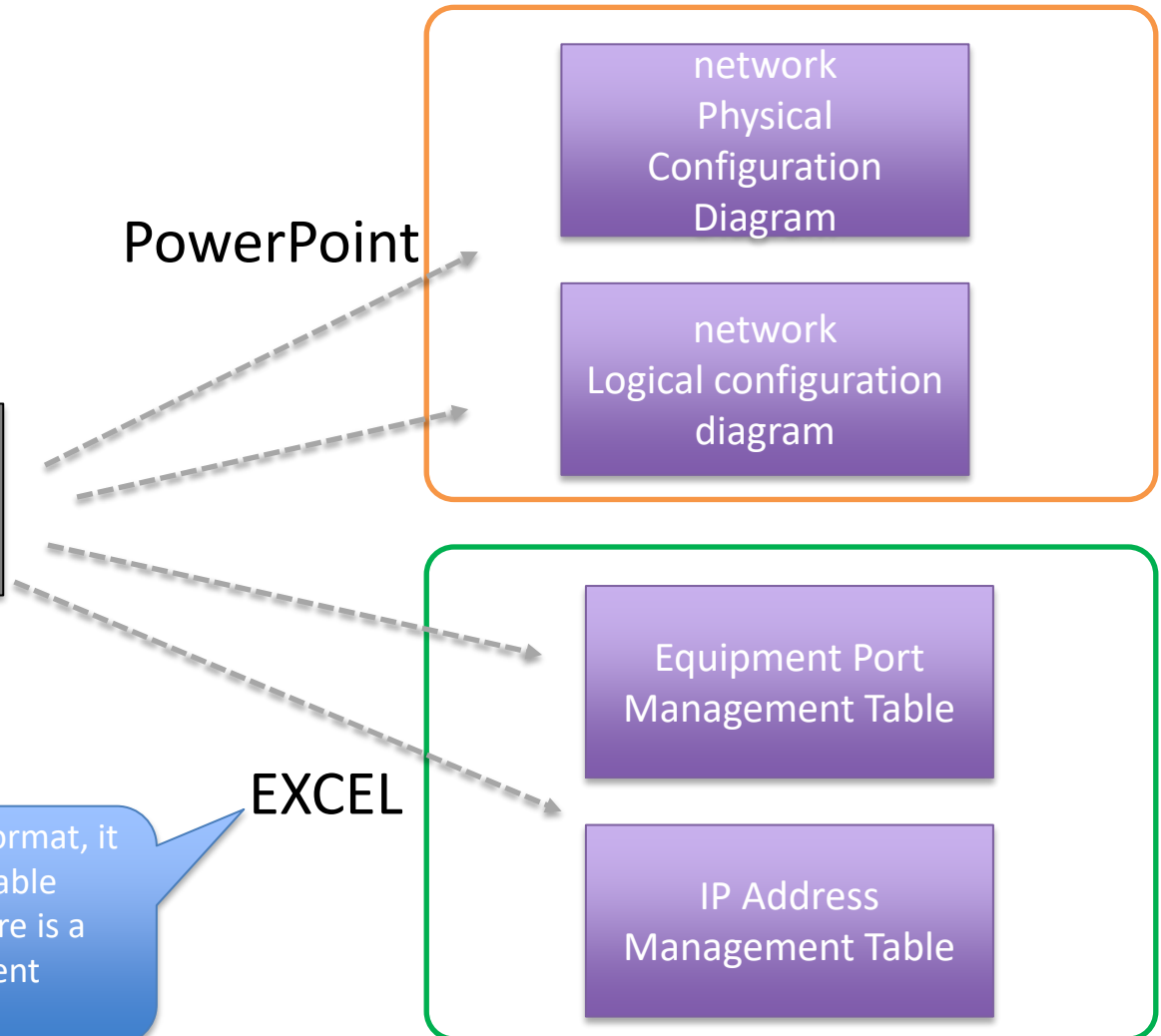
network Logical configuration diagram

EXCEL

Since it is an MS Office format, it is easy to ensure sustainable management even if there is a change in the management system, etc.

Equipment Port Management Table

IP Address Management Table

Network Sketcher realizes these concepts

Network Sketcher is a new-age network design platform that integrates network configuration aggregation and automatic network diagram generation.
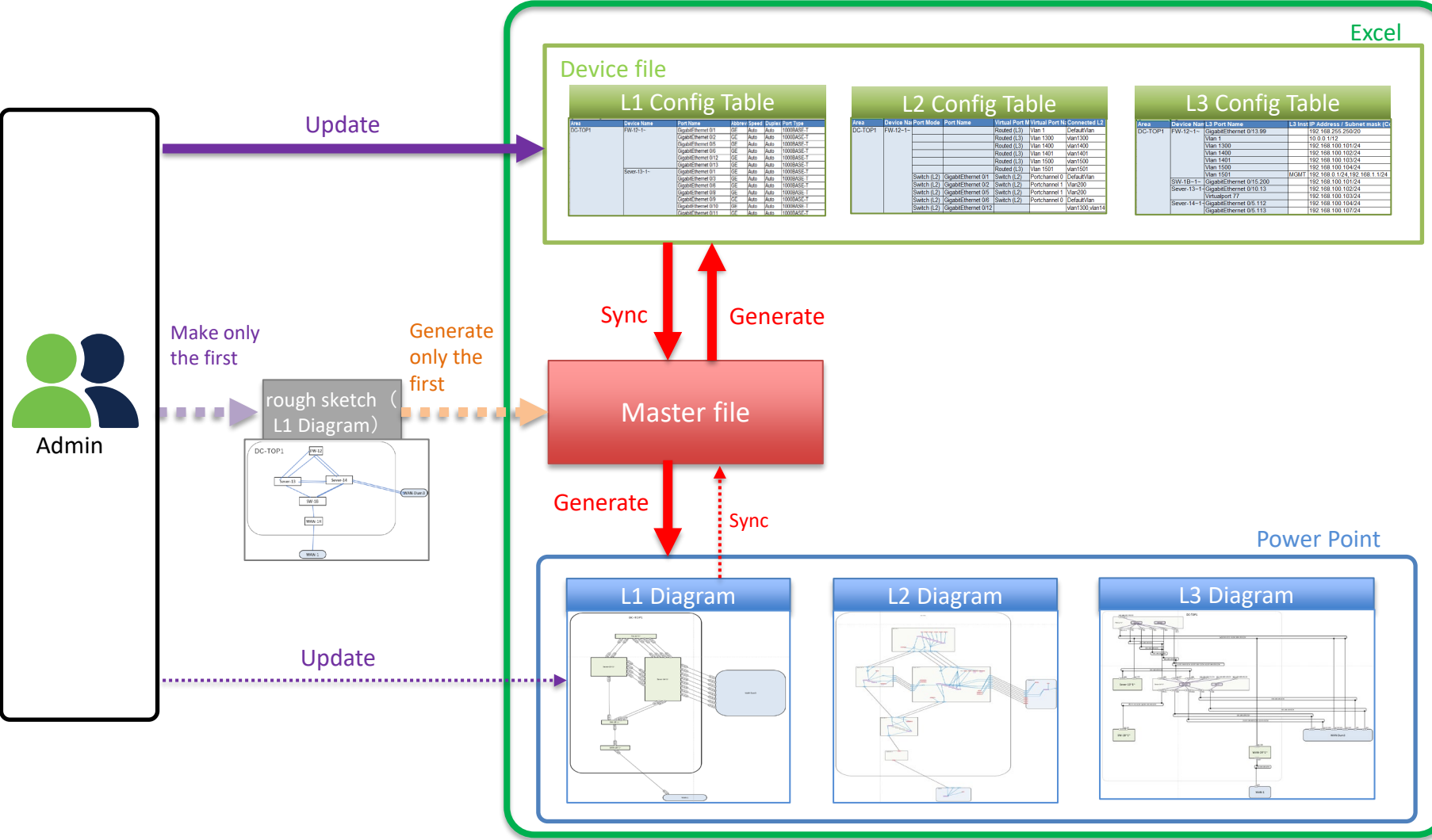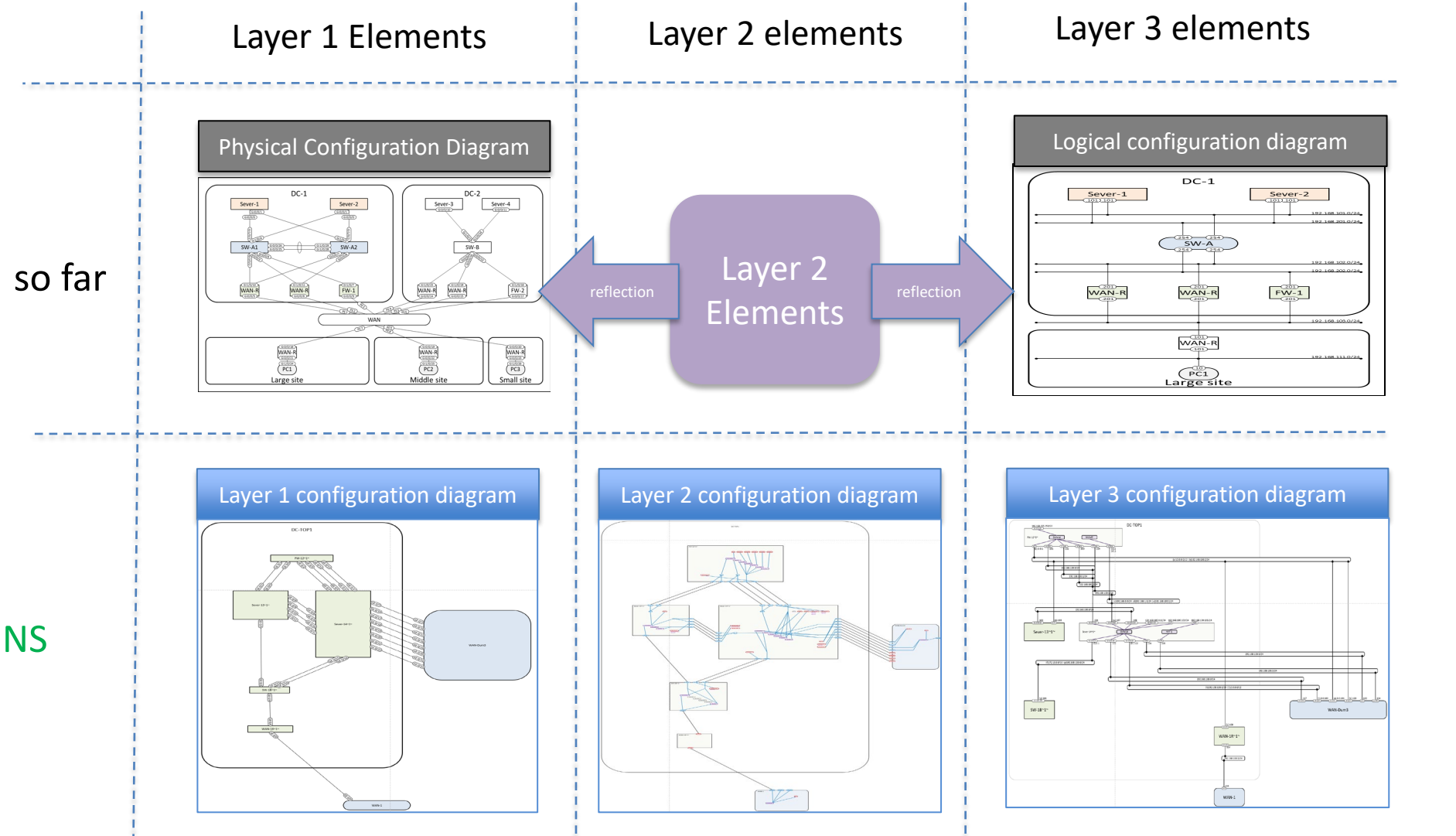
feature

1. Standardization of Layer 2 configuration diagrams
2. Synchronizing updates between layers
3. Delivered in a secure, stand-alone format
4. Easy-to-operate GUI (quick panel method)

Feature 1: Standardization of Layer 2 configuration diagrams

So far, two types of diagrams have been created: a physical diagram and a logical diagram. NS is divided into three parts: Layer 1 configuration diagram, Layer 2 configuration diagram, and Layer 3 configuration diagram.
This allows you to more accurately illustrate the network configuration information.

Layer 1 Elements　　　　Layer 2 elements　　　　Layer 3 elements

so far

Physical Configuration Diagram

Layer 2 Elements

reflection　　reflection

Logical configuration diagram

NS

Layer 1 configuration diagram

Layer 2 configuration diagram

Layer 3 configuration diagram

Feature 2: Synchronization of updates between layers

Updates made between the Port Management Table (L1 Configuration Table), L2 Segment Management Table (L2 Configuration Table), and IP Address Management Table (L3 Configuration Table) are automatically reflected in other management tables and configuration diagrams. Since the configuration diagram is generated based on the information in the management table, the notation of the configuration diagram can also be reflected.

Layer 1 configuration diagram

Layer 2 configuration diagram

Layer 3 configuration diagram

Updates to management tables are reflected in each configuration diagram.

Layer 1 Configuration Table

Layer 2 Configuration Table

Layer 3 Configuration Table

You don't have to make the same changes to other layer diagrams
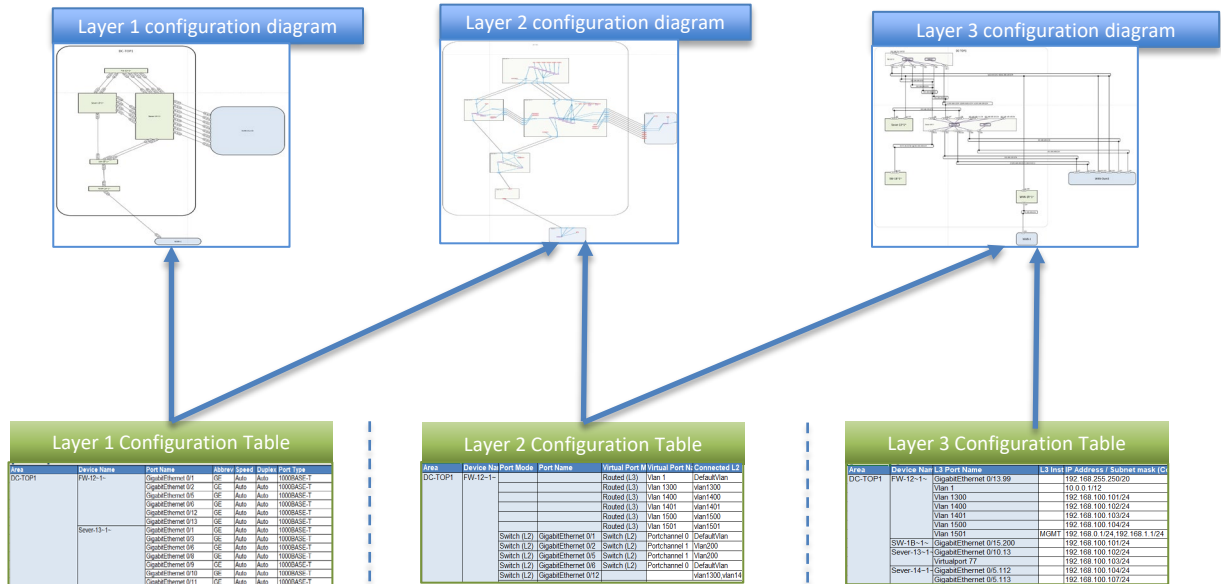
Physical IF, Host, Area, Wire connection changes

Auto-propagation

Auto-propagation

* Physical connection, host name, and area name are changed in the L1 configuration diagram.

Virtual IF Changing the

Auto-propagation

Feature 3: Secure stand-alone format

NS is a stand-alone format that does not require external communication. Therefore, the risk of information leakage due to handling highly confidential information is minimized.

Do not communicate

Secure

Network Sketcher

Data storage

Does not have a data storage area
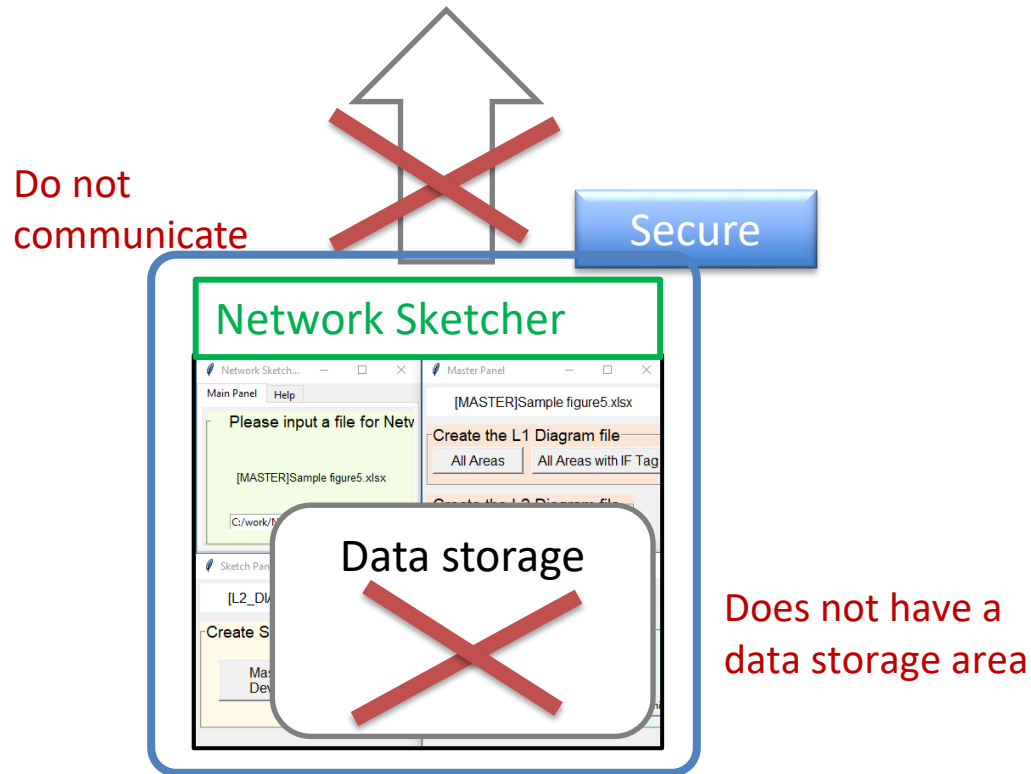
* Temporary data files are created and deleted by NS processing.

Feature 4: Easy-to-operate GUI (quick panel method)

NS uses a unique GUI (Quick Panel Method). In this method, the input file is displayed with an actionable panel, and the action displays a panel in which further actions are possible. This allows you to perform the intended operation efficiently.

Network Sketcher

Main

Network Sketcher DX < Cisco Internal Use Only >

Main Panel | Help

Please input a file for Network Sketcher

drag and drop here (*.pptx;*.xlsx)

Browse ... | Submit

Master Panel

Master Panel

[MASTER]Sample figure5.xlsx

Create the L1 Diagram file

All Areas | All Areas with IF Tag | Per Area | Per Area with IF Tag

Create the L2 Diagram file

Per Area | Per Device

Create the L3 Diagram file

Per Area

Export to the Device file

Device file

Sketch panel

Sketch Panel

Sample figure5.pptx

Create Starter set

Master file
Device file

Update to the Master file

drag and drop here ([MASTER]*.xlsx)

Browse ... | Submit

Device Panel

Device Panel

[DEVICE]Updated Sample figure5.xlsx

Update to the Master file

drag and drop here ([MASTER]*.xlsx)

Browse ... | Submit