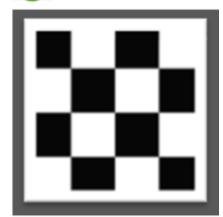
Checker





Checker is per circuit precheck and postcheck utility to be used when migrating circuits from one device to another, or when migrating a subset of circuits on a single device. Checker is launched from Jenkins and with a few parameters will log into the network device, check the provided circuits, and email a report with a summary table, per-circuit diff analysis, and a html file containing show command diffs. The initial release supports Juniper MX routers and up to 9 signature profiles covering various circuit types with planned support for future hardware and circuit types.

Checker was developed in Python, is version controlled in GitLab, launched from Jenkins, documented in Confluence, and utilizes a SQLite3 database to store information between precheck and postcheck runs. This Confluence page is divided into a user guide and development guide, feature requests and bug scrubs are listed at the end of the user guide,





Decision Tree What utility to use?



Circuit Level

- * Router level maintenance work
 - * Router wide snapshots
- * All circuits, all interfaces, all protocols
- * Circuit level precheck & postcheck
- * Migrating circuits between routers
- * Migration subset of circuits single router



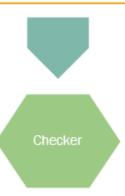
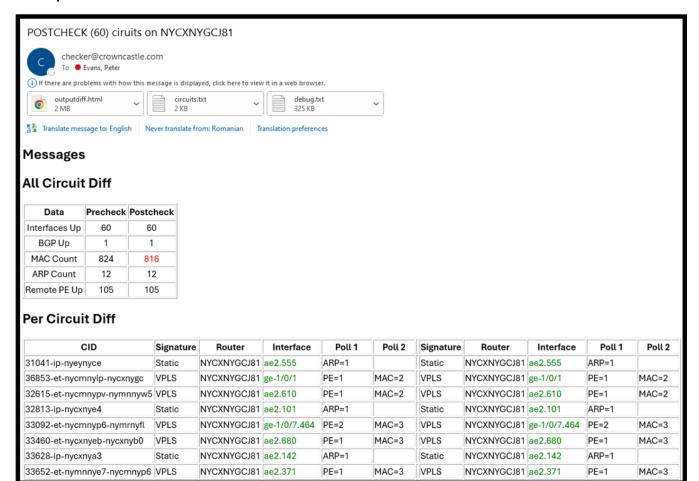


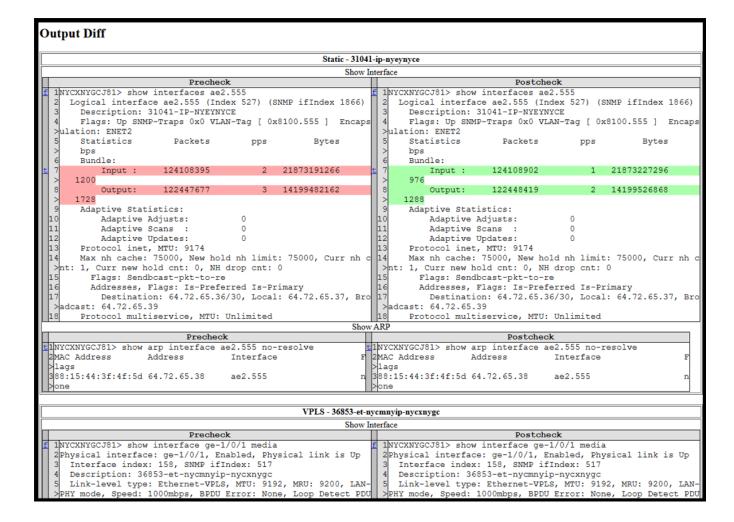
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Sample Email





Document Status

This Confluence page will be renewed twice per year to indicate the information within is up to date and accurate.

Date	Status
January 2025	Renewed
July 2025	
January 2026	
July 2026	
January 2027	
July 2027	

User Guide

Supported Services

Internet Services

Platform	Service	Handoff Type	Protocol	Interface Count
MX	BGP	Physical and Logical	BGP	1 Interface
MX	BGP IRB	Physical and Logical	BGP, VPLS	1 Interface

ſ	MX	Static	Physical and Logical	1 Interface	

Ethernet Services

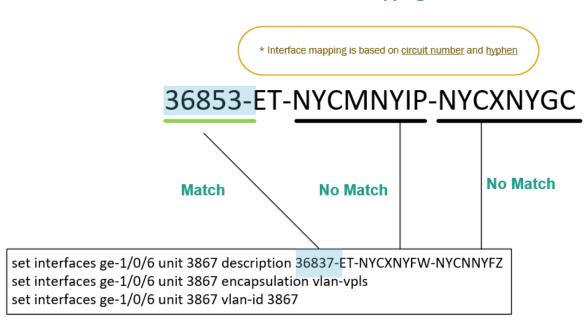
Platform	Service	Handoff Type	Protocol	Interface Count
MX	E-LINE Multi-Router	Physical and Logical	VPLS, L2VPN	1 Interface
MX	E-LAN Multi-Router	Physical and Logical	VPLS	1 Interface
MX	EVPL Multi-Router	Physical and Logical	VPLS, L2VPN	1 Interface

Hairpin Services

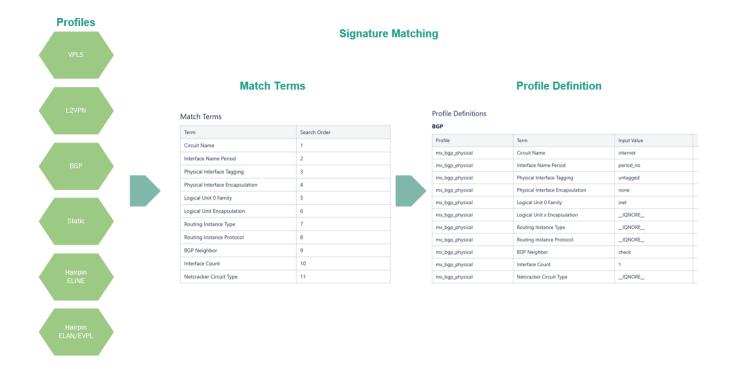
Platform	Service	ice Handoff Type		Interface Count
MX	E-LINE Single-router	Physical and Logical	VPLS	2 Interfaces
MX	E-LAN Single-Router	Physical and Logical	VPLS	1 Interface
MX	EVPL Single-Router	Physical and Logical	VPLS	1 Interface

Interface Mapping Logic

Interface Mapping

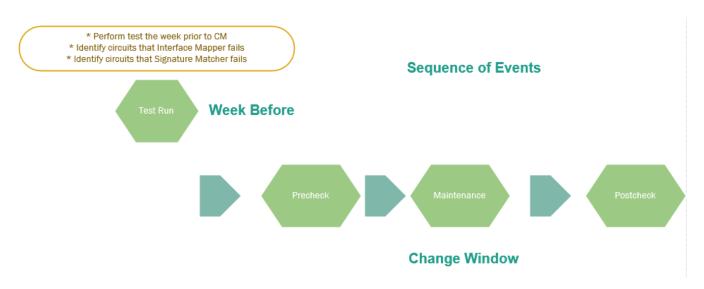


Signature Matching Logic



Instruction Guide

Process Flow



Test Run

1) Perform test run the week prior to change management window to identify circuits that failed on interface mapping or signature matching

Pre-Maintenance

1) Perform a precheck prior to starting maintenance window

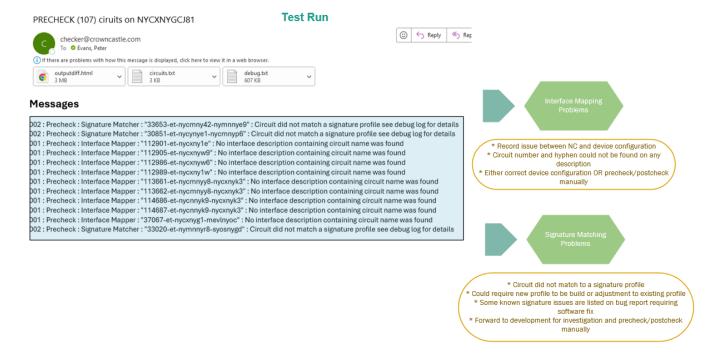
Maintenance

1) Perform maintenance work

Post-Maintenance

1) Perform a postcheck at conclusion of maintenance work

Test Run Execution

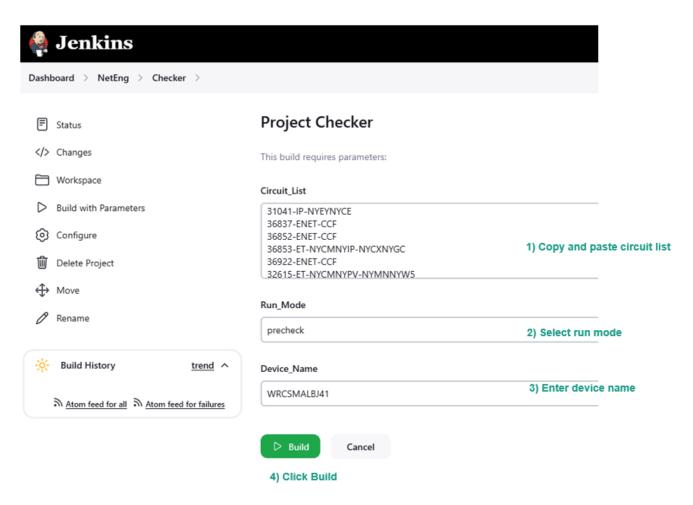


Step-by-Step Instructions

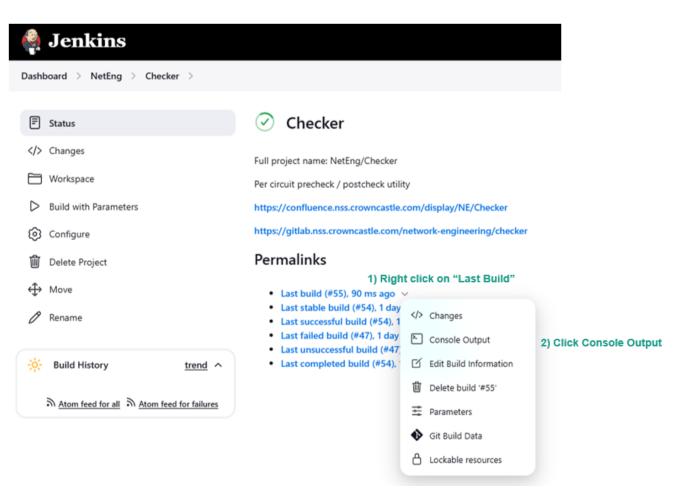
1) Click link to open Checker utility



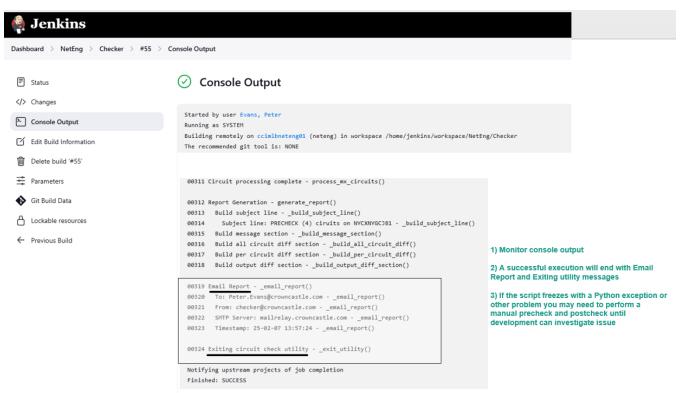
2) Enter circuit list, select run mode, enter device name, and click build



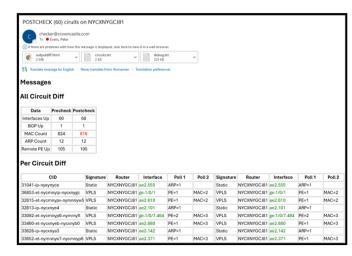
3) Open console output

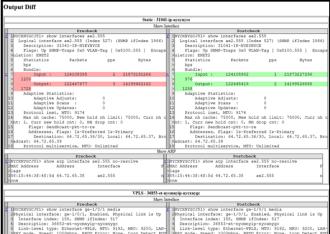


4) Monitor console output



- 6) The report will contain the following sections and information
 - All Circuit Diff Table
 - Per Circuit Diff Table
 - Attached Output Diff
 - Attached Circuit List
 - Attached Debug for troubleshooting





Bug List

Date	Stat us	Bug ID	Description
2/19 /2025	New	100	EVPL signature profile will not match EVPL circuit with a protect path
2/19/20 25	New	101	EVPL signature profile will not match when EVPL node is on same box with EVPL head and there is also remote EVPL nodes. Discovered Checker Review EA 02-14-2025 11-00-AM.
2/19/20 25	New	102	ELAN interface mapping will not map when ELAN is split out using VLAN's in aggregation stack passing over a single aggregation stack interface to MX
2/19/20 25	New	103	ELINE hairpin output diff is only showing interface 1
2/19/20 25	New	104	Poll data maybe incorrect if interface is in a deactivated routing instance
2/19 /2025	New	105	Utility will quit with Python exception if a IPB circuit is included in list. Discovered Checker Review AP 02-14-2025 11-20-AM
2/20 /2025	New	106	Circuit names with spaces are being broken into separate circuits only the first string is matching the remaining cause log messages

Feature Request

Date	Status	Request ID	Description				
2/19/2025	New	100	Add support for IPB				
2/19/2025	New	101	Add support for aggregation trunk				
2/19/2025	New	102	Add support for CPE trunk				
2/19/2025	New	103	Add support for customer NNI				

2/19/2025	New	104	Add support for BGP IRB VPLS
2/19/2025	New	105	Add support for OOB management circuit. Discovered Checker Review AP 02-14-2025 11-20-AM
2/19/2025	New	106	Add support for in-band CPE management circuit testing. Discovered Checker Review AP 02-14-2025 11-20-AM
2/20/2025	New	107	Add support for Sidera circuits ex. 10/LCRM/000069/OED. Discovered Checker Review AP 02-14-2025 11-20-AM
2/20/2025	New	108	Add support for TMO high/low interfaces using same circuit name. Discovered Checker Review AP 02-14-2025 11-20-AM
2/20/2025	New	109	Add support for Fibertech circuits ex. KRCEETHTP2NHV.00001. Discovered Checker Review AP 02-14-2025 11-20-AM

Development Guide

Supported Services - Detailed Overview

Internet Services

Platform	Category	Service Type	Router Count	Interface Count	Physical Interface	Protocol	Signature Profile	Polling Data
MX	Customer Circuit	BGP	n/a	1 Circuit to 1 Interface	Untagged	BGP	mx_bgp	Physical Interface Status
								BGP Neighbor State
MX	Customer Circuit	BGP	n/a	1 Circuit to 1 Interface	Tagged	BGP	mx_bgp	Logical Interface Status
								BGP Neighbor State
MX	Customer Circuit	BGP IRB	n/a	1 Circuit to 1 Interface	Untagged	BGP	mx_bgp_irb	Physical Interface Status
								BGP Neighbor State
MX	Customer Circuit	BGP IRB	n/a	1 Circuit to 1 Interface	Tagged	BGP	mx_bgp_irb	Logical Interface Status
								BGP Neighbor State
MX	Customer Circuit	Static	n/a	1 Circuit to 1 Interface	Untagged		mx_static	Physical Interface Status
								ARP Count
MX	Customer Circuit	Static	n/a	1 Circuit to 1 Interface	Tagged		mx_static	Logical Interface Status
								ARP Count

ELINE Services

Platform	Category	Service Type	Router Count	Interface Count	Physical Interface	Protocol	Signature Profile	Polling Data
MX	Customer Circuit	E-LINE	Multi Router	1 Circuit to 1 Interface	Untagged	VPLS	mx_vpls	Physical Interface Status
								MAC Count
								Number of Remote PE's Up
MX	Customer Circuit	E-LINE	Multi Router	1 Circuit to 1 Interface	Tagged	VPLS	mx_vpls	Logical Interface Status
								MAC Count
								Number of Remote PE's Up
MX	Customer Circuit	E-LINE	Multi Router	1 Circuit to 1 Interface	Untagged	L2VPN	mx_l2vpn	Physical Interface Status
								Number of Remote PE's Up
MX	Customer Circuit	E-LINE	Multi Router	1 Circuit to 1 Interface	Tagged	L2VPN	mx_l2vpn	Logical Interface Status
								Number of Remote PE's Up

ELAN Services

Platform	Category	Service Type	Router Count	Interface Count	Physical Interface	Protocol	Signature Profile	Polling Data
MX	Customer Circuit	E-LAN	Multi Router	1 Circuit to 1 Interface	Untagged	VPLS	mx_vpls	Physical Interface Status
								MAC Count

								Number of Remote PE's Up
MX	Customer Circuit	E-LAN	Multi Router	1 Circuit to 1 Interface	Tagged	VPLS	mx_vpls	Logical Interface Status
								MAC Count
								Number of Remote PE's Up

EVPL Services

Platform	Category	Service Type	Router Count	Circuit to Interface	Physical Interface	Protocol	Signature Profile	Polling Data
MX	Customer Circuit	EVPL	Multi Router	1 Circuit to 1 Interface	Untagged	VPLS	mx_vpls	Physical Interface Status
								MAC Count
								Number of Remote PE's Up
MX	Customer Circuit	EVPL	Multi Router	1 Circuit to 1 Interface	Tagged	VPLS	mx_vpls	Logical Interface Status
								MAC Count
								Number of Remote PE's Up

Hairpin Services

ELINE

Platform	Category	Service Type	Router Count	Interface Count	Physical Interface	Protocol	Signature Profile	Polling Data
MX	Customer Circuit	E-LINE	Single Router	1 Circuit to 2 Interfaces	Untagged	VPLS	mx_eline_hairpin	Physical Interface Status
								MAC Count
MX	Customer Circuit	E-LINE	Single Router	1 Circuit to 2 Interfaces	Tagged	VPLS	mx_eline_hairpin	Logical Interface Status
								MAC Count

ELAN

Platform	Category	Service Type	Router Count	Interface Count	Physical Interface	Protocol	Signature Profile	Polling Data
MX	Customer Circuit	E-LAN	Single Router	1 Circuit to 1 Interface	Untagged	VPLS	mx_elan_evpl_hairpin	Physical Interface Status
								MAC Count
MX	Customer Circuit	E-LAN	Single Router	1 Circuit to 1 Interface	Tagged	VPLS	mx_elan_evpl_hairpin	Logical Interface Status
								MAC Count

EVPL

Platform	Category	Service Type	Router Count	Interface Count	Physical Interface	Protocol	Signature Profile	Polling Data
MX	Customer Circuit	EVPL	Single Router	1 Circuit to 1 Interface	Untagged	VPLS	mx_elan_evpl_hairpin	Physical Interface Status
								MAC Count
MX	Customer Circuit	EVPL	Single Router	1 Circuit to 1 Interface	Tagged	VPLS	mx_elan_evpl_hairpin	Logical Interface Status
								MAC Count

Dependencies

SMTP Server	mailrelay.crowncastle.com
NSS Microservices	grpcui.nss.crowncastle.com:9090
Netcracker REST API	10.48.0.61
Neteng Server	ccimlbneteng01
Jenkins	jenkins.nss.crowncastle.com
Gitlab	gitlab.nss.crowncastle.com
Netcracker	
NE Automation Account	zccfautobot

Database Schema

Run Table

Table Column	Data Type
row_id	Primary Key
user_run_mode	String
user_email_address	String
user_circuit_list	JSON encoded list
device_name	String
device_model	String
time	String
date	String
mx_interface_polls_precheck	JSON encoded dictionary
mx_interface_polls_postcheck	JSON encoded dictionary

Circuit Table

Table Column	Data Type
row_id	Primary Key
run_table_row_id_last_precheck	Foreign key
run_table_row_id_last_postcheck	Foreign key
circuit_name	String
service_type_precheck	String
service_type_postcheck	String
device_name_precheck	String
device_name_postcheck	String
device_model_precheck	String
device_model_postcheck	String
mx_circuit_interfaces_precheck	JSON encoded dictionary
mx_circuit_interfaces_postcheck	JSON encoded dictionary
mx_bgp_neighbor_state_precheck	String
mx_bgp_show_neighbor_state_precheck	String
mx_bgp_neighbor_state_postcheck	String
mx_bgp_show_neighbor_state_postcheck	String
mx_bgp_irb_neighbor_state_precheck	String
mx_bgp_irb_show_neighbor_state_precheck	String
mx_bgp_irb_neighbor_state_postcheck	String
mx_bgp_irb_show_neighbor_state_postcheck	String
mx_static_arp_count_precheck	String
mx_static_show_arp_count_precheck	String
mx_static_arp_count_postcheck	String
mx_static_show_arp_count_postcheck	String
mx_vpls_number_remote_pe_up_precheck	String
mx_vpls_show_number_remote_pe_up_precheck	String

mx_vpls_number_remote_pe_up_postcheck	String
mx_vpls_show_number_remote_pe_up_postcheck	String
mx_vpls_mac_count_precheck	String
mx_vpls_show_mac_count_precheck	String
mx_vpls_mac_count_postcheck	String
mx_vpls_show_mac_count_postcheck	String
mx_l2vpn_number_remote_pe_up_precheck	String
mx_l2vpn_show_number_remote_pe_up_precheck	String
mx_l2vpn_number_remote_pe_up_postcheck	String
mx_l2vpn_show_number_remote_pe_up_postcheck	String
mx_hairpin_eline_mac_count_precheck	String
mx_hairpin_eline_show_mac_count_precheck	String
mx_hairpin_eline_mac_count_postcheck	String
mx_hairpin_eline_show_mac_count_postcheck	String
mx_hairpin_elan_evpl_mac_count_precheck	String
mx_hairpin_elan_evpl_show_mac_count_precheck	String
mx_hairpin_elan_evpl_mac_count_postcheck	String
mx_hairpin_elan_evpl_show_mac_count_postcheck	String

Signature Profiles

Profile Name	Search Order
mx_vpls_logical	1
mx_static_logical	2
mx_bgp_logical	3
mx_eline_hairpin	4
mx_elan_evpl_hairpin_logical	5
mx_l2vpn_logical	6
mx_bgp_irb_vpls_logical	7
mx_vpls_physical	8
mx_static_physical	9
mx_bgp_physical	10
mx_elan_evpl_hairpin_physical	11
mx_l2vpn_physical	12
mx_bgp_irb_vpls_physical	13

Match Terms

Term	Search Order
Circuit Name	1
Interface Name Period	2
Physical Interface Tagging	3

Physical Interface Encapsulation	4
Logical Unit 0 Family	5
Logical Unit Encapsulation	6
Routing Instance Type	7
Routing Instance Protocol	8
BGP Neighbor	9
Interface Count	10
Netcracker Circuit Type	11

Profile Definitions

BGP

Profile	Term	Input Value	Profile	Term	Input Value
mx_bgp_physical	Circuit Name	internet	mx_bgp_logical	Circuit Name	internet
mx_bgp_physical	Interface Name Period	period_no	mx_bgp_logical	Interface Name Period	period_yes
mx_bgp_physical	Physical Interface Tagging	untagged	mx_bgp_logical	Physical Interface Tagging	tagged
mx_bgp_physical	Physical Interface Encapsulation	none	mx_bgp_logical	Physical Interface Encapsulation	[flexible-ethernet-services,vlan-vpls]
mx_bgp_physical	Logical Unit 0 Family	inet	mx_bgp_logical	Logical Unit 0 Family	IQNORE
mx_bgp_physical	Logical Unit x Encapsulation	IQNORE	mx_bgp_logical	Logical Unit x Encapsulation	none
mx_bgp_physical	Routing Instance Type	IQNORE	mx_bgp_logical	Routing Instance Type	_IQNORE_
mx_bgp_physical	Routing Instance Protocol	IQNORE	mx_bgp_logical	Routing Instance Protocol	IQNORE
mx_bgp_physical	BGP Neighbor	check	mx_bgp_logical	BGP Neighbor Check	check
mx_bgp_physical	Interface Count	1	mx_bgp_logical	Interface Count	1
mx_bgp_physical	Netcracker Circuit Type	_IQNORE_	mx_bgp_logical	Netcracker Circuit Type	IQNORE

BGP IRB

Profile	Term	Input Value	Profile	Term	Input Value
mx_bgp_irb_vpls_physical	Circuit Name	internet	mx_bgp_irb_vpls_logi cal	Circuit Name	internet
mx_bgp_irb_vpls_physical	Physical Interface Tagging	untagged	mx_bgp_irb_vpls_logi cal	Physical Interface Tagging	tagged
mx_bgp_irb_vpls_physical	Physical Interface Encapsulation	ethernet- vpls	mx_bgp_irb_vpls_logi cal	Physical Interface Encapsulation	[flexible-ethernet-services,vlan-vpls]
mx_bgp_irb_vpls_physical	Logical Unit 0 Family	vpls	mx_bgp_irb_vpls_logi cal	Logical Unit 0 Family	IQNORE
mx_bgp_irb_vpls_physical	Logical Unit x Encapsulation	IQNORE	mx_bgp_irb_vpls_logi cal	Logical Unit x Encapsulation	vlan-vpls
mx_bgp_irb_vpls_physical	Routing Instance Type	IQNORE	mx_bgp_irb_vpls_logi cal	Routing Instance Type	IQNORE
mx_bgp_irb_vpls_physical	Routing Instance Protocol	IQNORE	mx_bgp_irb_vpls_logi cal	Routing Instance Protocol	IQNORE
mx_bgp_irb_vpls_physical	BGP Neighbor	IQNORE	mx_bgp_irb_vpls_logi cal	BGP Neighbor	IQNORE
mx_bgp_irb_vpls_physi cal	Interface Count	1	mx_bgp_irb_vpls_logi cal	Interface Count	1
mx_bgp_irb_vpls_physi cal	Netcracker Circuit Type	IQNORE	mx_bgp_irb_vpls_logi	Netcracker Circuit Type	IQNORE

Static

Profile	Term	Input Value	Profile	Term	Input Value
1 101110	101111	input value	1 101110	101111	input value

mx_static_physical	Circuit Name	internet	mx_static_logical	Circuit Name	internet
mx_static_physical	Physical Interface Tagging	untagged	mx_static_logical	Physical Interface Tagging	tagged
mx_static_physical	Physical Interface Encapsulation	none	mx_static_logical	Physical Interface Encapsulation	[flexible-ethernet-services]
mx_static_physical	Logical Unit 0 Family	inet	mx_static_logical	Logical Unit 0 Family	IQNORE
mx_static_physical	Logical Unit x Encapsulation	IQNORE	mx_static_logical	Logical Unit x Encapsulation	none
mx_static_physical	Routing Instance Type	IQNORE	mx_static_logical	Routing Instance Type	_IQNORE_
mx_static_physical	Routing Instance Protocol	IQNORE	mx_static_logical	Routing Instance Protocol	IQNORE
mx_static_physical	BGP Neighbor	IQNORE	mx_static_logical	BGP Neighbor	IQNORE
mx_static_physical	Interface Count	1	mx_static_logical	Interface Count	1
mx_static_physical	Netcracker Circuit Type	IQNORE	mx_static_logical	Netcracker Circuit Type	IQNORE

VPLS

Profile	Term	Input Value	Profile	Term	Input Value
mx_vpls_physical	Circuit Name	ethernet	mx_vpls_logical	Circuit Name	ethernet
mx_vpls_physical	Interface Name Period	period_no	mx_vpls_logical	Interface Name Period	period_yes
mx_vpls_physical	Physical Interface Tagging	untagged	mx_vpls_logical	Physical Interface Tagging	tagged
mx_vpls_physical	Physical Interface Encapsulation	ethernet-vpls	mx_vpls_logical	Physical Interface Encapsulation	[flexible-ethernet-services,vlan-vpls]
mx_vpls_physical	Logical Unit 0 Family	vpls	mx_vpls_logical	Logical Unit 0 Family	IQNORE
mx_vpls_physical	Logical Unit x Encapsulation	IQNORE	mx_vpls_logical	Logical Unit x Encapsulation	vlan-vpls
mx_vpls_physical	Routing Instance Type	vpls	mx_vpls_logical	Routing Instance Type	vpls
mx_vpls_physical	Routing Instance Protocol	vpls	mx_vpls_logical	Routing Instance Protocol	vpls
mx_vpls_physical	BGP Neighbor	IQNORE	mx_vpls_logical	BGP Neighbor	IQNORE
mx_vpls_physical	Interface Count	1	mx_vpls_logical	Interface Count	1
mx_vpls_physical	Netcracker Circuit Type	IQNORE	mx_vpls_logical	Netcracker Circuit Type	IQNORE

L2VPN

Profile	Term	Input Value	Profile	Term	Input Value
mx_l2vpn_physical	Circuit Name	ethernet	mx_l2vpn_logical	Circuit Name	ethernet
mx_l2vpn_physical	Physical Interface Tagging	untagged	mx_l2vpn_logical	Physical Interface Tagging	tagged
mx_l2vpn_physical	Physical Interface Encapsulation	ethernet-ccc	mx_l2vpn_logical	Physical Interface Encapsulation	[flexible-ethernet-services,vlan-ccc]
mx_l2vpn_physical	Logical Unit 0 Family	ccc	mx_l2vpn_logical	Logical Unit 0 Family	IQNORE
mx_l2vpn_physical	Logical Unit x Encapsulation	IQNORE	mx_l2vpn_logical	Logical Unit x Encapsulation	vlan-ccc
mx_l2vpn_physical	Routing Instance Type	l2vpn	mx_l2vpn_logical	Routing Instance Type	l2vpn
mx_l2vpn_physical	Routing Instance Protocol	l2vpn	mx_l2vpn_logical	Routing Instance Protocol	l2vpn
mx_l2vpn_physical	BGP Neighbor	IQNORE	mx_l2vpn_logical	BGP Neighbor	IQNORE
mx_l2vpn_physical	Interface Count	1	mx_l2vpn_logical	Interface Count	1
mx_l2vpn_physical	Netcracker Circuit Type	IQNORE	mx_l2vpn_logical	Netcracker Circuit Type	IQNORE

ELAN/EVPL Hairpin

Profile	Term	Input Value	Profile	Term	Input Value
mx_elan_evpl_hairpin_phy sical	Circuit Name	ethernet	mx_elan_evpl_hairpin_lo gical	Circuit Name	ethernet
mx_elan_evpl_hairpin_phy sical	Physical Interface Tagging	untagged	mx_elan_evpl_hairpin_lo gical	Physical Interface Tagging	tagged
mx_elan_evpl_hairpin_phy sical	Physical Interface Encapsulation	ethernet- vpls	mx_elan_evpl_hairpin_lo gical	Physical Interface Encapsulation	[flexible-ethernet-services,vlan-vpls]
mx_elan_evpl_hairpin_phy sical	Logical Unit 0 Family	vpls	mx_elan_evpl_hairpin_lo gical	Logical Unit 0 Family	IQNORE

mx_elan_evpl_hairpin_phy sical	Logical Unit x Encapsulation	_IQNORE	mx_elan_evpl_hairpin_lo gical	Logical Unit x Encapsulation	vlan-vpls
mx_elan_evpl_hairpin_phy sical	Routing Instance Type	vpls	mx_elan_evpl_hairpin_lo gical	Routing Instance Type	vpls
mx_elan_evpl_hairpin_phy sical	Routing Instance Protocol	none	mx_elan_evpl_hairpin_lo gical	Routing Instance Protocol	none
mx_elan_evpl_hairpin_phy sical	BGP Neighbor	_IQNORE	mx_elan_evpl_hairpin_lo gical	BGP Neighbor	IQNORE
mx_elan_evpl_hairpin_phy sical	Interface Count	1	mx_elan_evpl_hairpin_lo gical	Interface Count	1
mx_elan_evpl_hairpin_phy sical	Netcracker Circuit Type	elan, evpl	mx_elan_evpl_hairpin_lo gical	Netcracker Circuit Type	elan, evpl

ELINE Hairpin

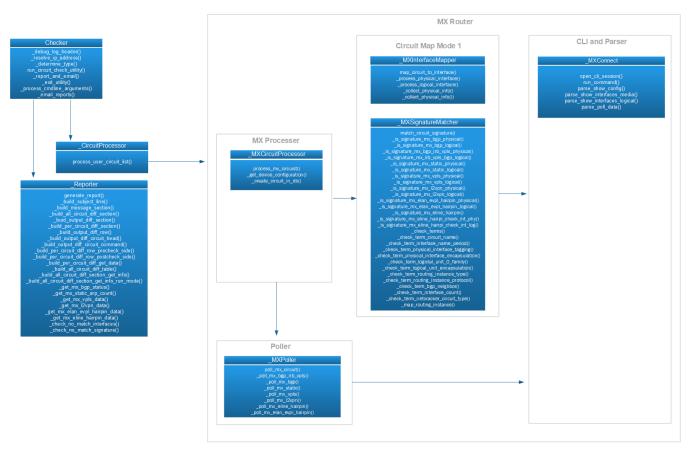
Profile	Term	Input Value
mx_eline_hairpin	Circuit Name	ethernet
mx_eline_hairpin	Physical Interface Tagging	untagged
mx_eline_hairpin	Physical Interface Encapsulation	ethernet-vpls
mx_eline_hairpin	Logical Unit 0 Family	vpls
mx_eline_hairpin	Logical Unit x Encapsulation	IQNORE
mx_eline_hairpin	Routing Instance Type	none
mx_eline_hairpin	Routing Instance Protocol	none
mx_eline_hairpin	BGP Neighbor	IQNORE
mx_eline_hairpin	Interface Count	2
mx_eline_hairpin	Netcracker Circuit Type	[eline]

Matcher Method Inputs

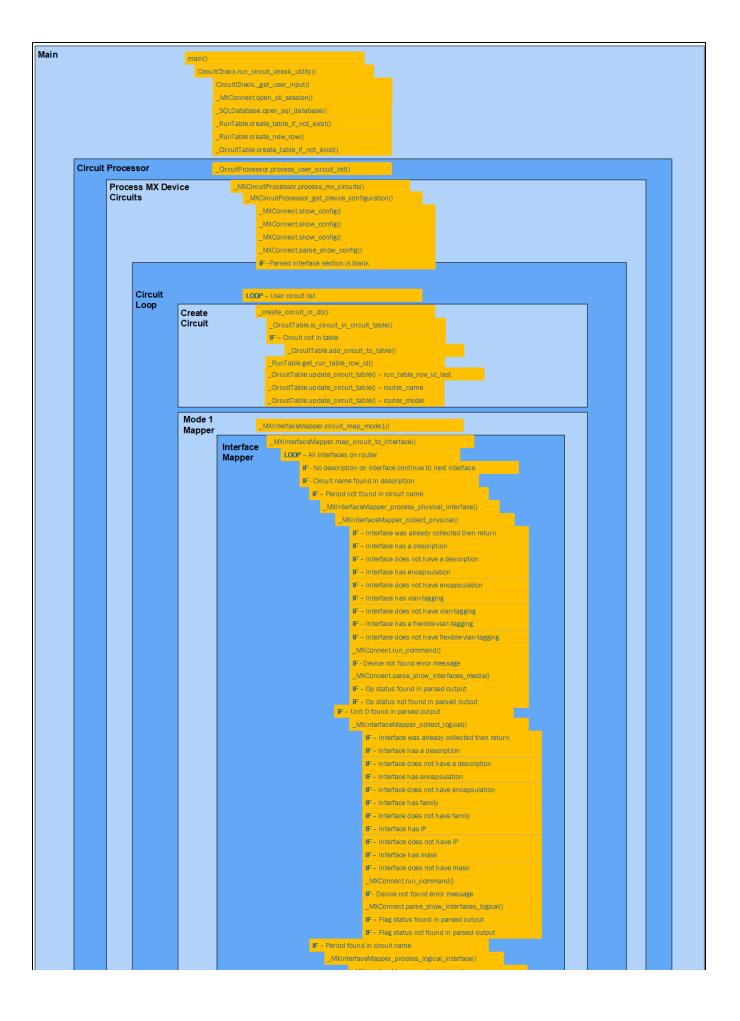
Diagrams

Class Layout and Structure



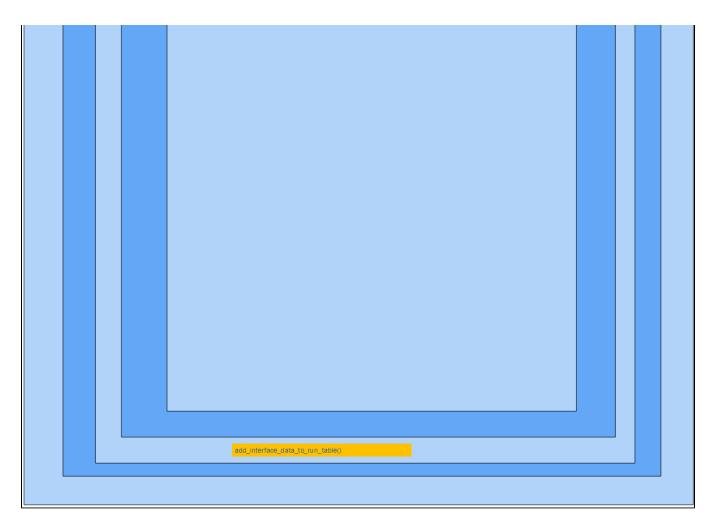


Code Sequencing and Flow









Location

All the Visio diagrams on this page can be found in the following file on sharepoint.

Checker Diagrams.vsdx