

Lifecycle of MANOG Meta Backbone Maintenances



Contents

- Introduction
- Problem Statement
- Maintenance Lifecycle
- Issues and Improvements
- Call for Action

Introduction

Types of Backbone Networks: DC <-> DC, POP <-> DC, EDGE

Different networks

=

Different failure domains One maintenance can impact multiple networks

Problem Statement

Scale requires automation

Balance between availability, safety and downtime

Reliability of operations

Lifecycle: Without Failures





Lifecycle: With Failures (Scenario #1)



Lifecycle: With Failures (Scenario #2)



Commonly Observed Issues

Lack of standardization across and within vendors Categorizing maintenances: what is safe vs not safe Enabling systems to look into future state

How do we fix this?

Normalize vendor email formats

Front load initial noise

Policies on safety checks

It will take a village an INDUSTRY!!

Let's work together to standardize our maintenances

LinkedIn - Vendor Network Maintenance Notification Standardization - Working Group

APIs vs standardized email modeling

Revisit existing Internet draft

Maintenance Notification Improvements Using iCalendar



Want to help?

