

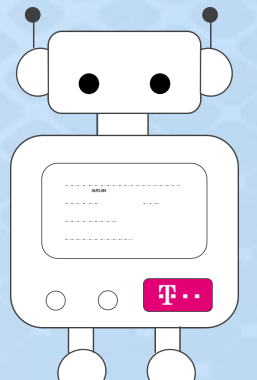


itential
Intelligent Network Automation

AUTLAN

The Automation Journey of a Next Generation Service Provider

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Agenda

- Goals
- Overall Approach
- Software Upgrade Use Case
- Demo
- CI/CD Overview
- Next Steps



Today → Tomorrow

Current State

Configuration, maintenance and lifecycle activities performed manually

Time consuming and error prone processes

High demands on network engineering and operations teams

Excessive out of hours working patterns



Future State

Complete automation of maintenance, lifecycle and configuration activities

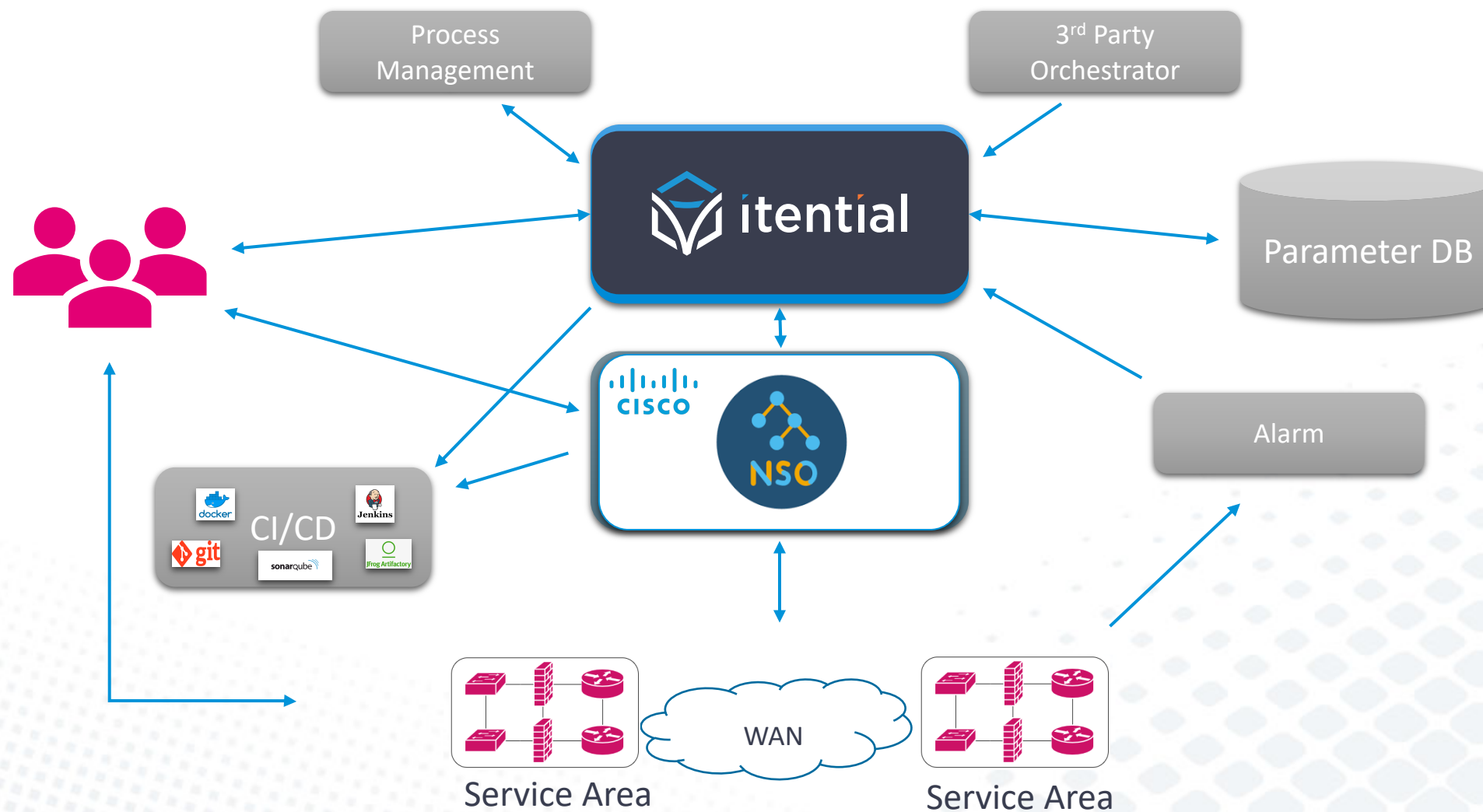
Simplified and improved operational processes through automation

Use flexible and extensible automation tools to build all future solutions

Introduce quality and efficiency throughout the process



Target Architecture



General Approach

"Quick Wins"

- Choose use cases that demonstrate the biggest value quickly & easily
- Software Upgrade – switches in 2 specific service areas

Software Development Best Practices

- Collaboration across ALL teams: DT Ops & Engineering, Cisco, Itential
- Agile methodology to deliver best solution
- Modular development - common models & reusable workflows
- CI/CD with Test automation

Operational Ease of Use

- Critical control over all Network Changes
- Summary & Post-Mortem reports with clear errors and warnings
- Implicit AAA integration for device and applications



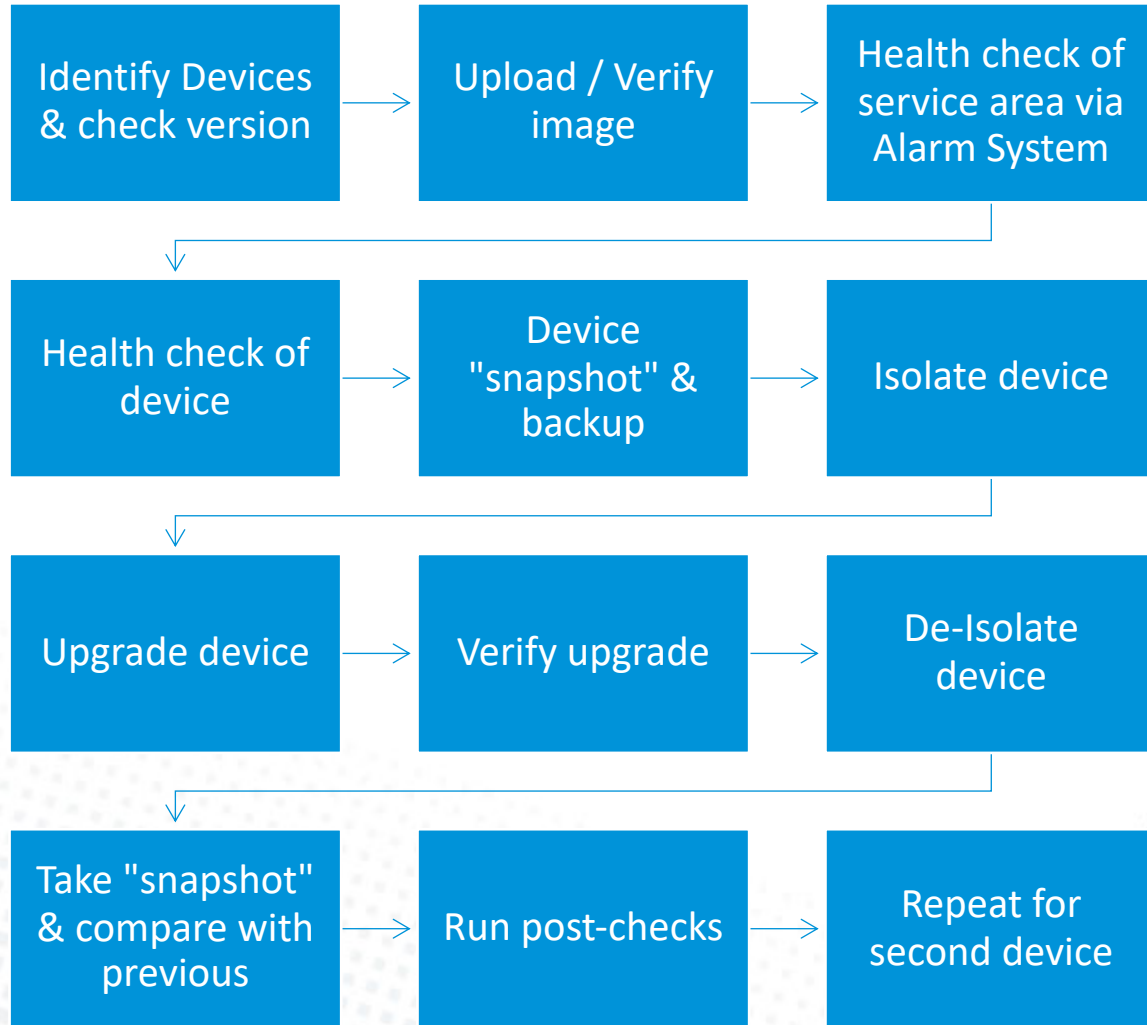
Typical Software Upgrade Process



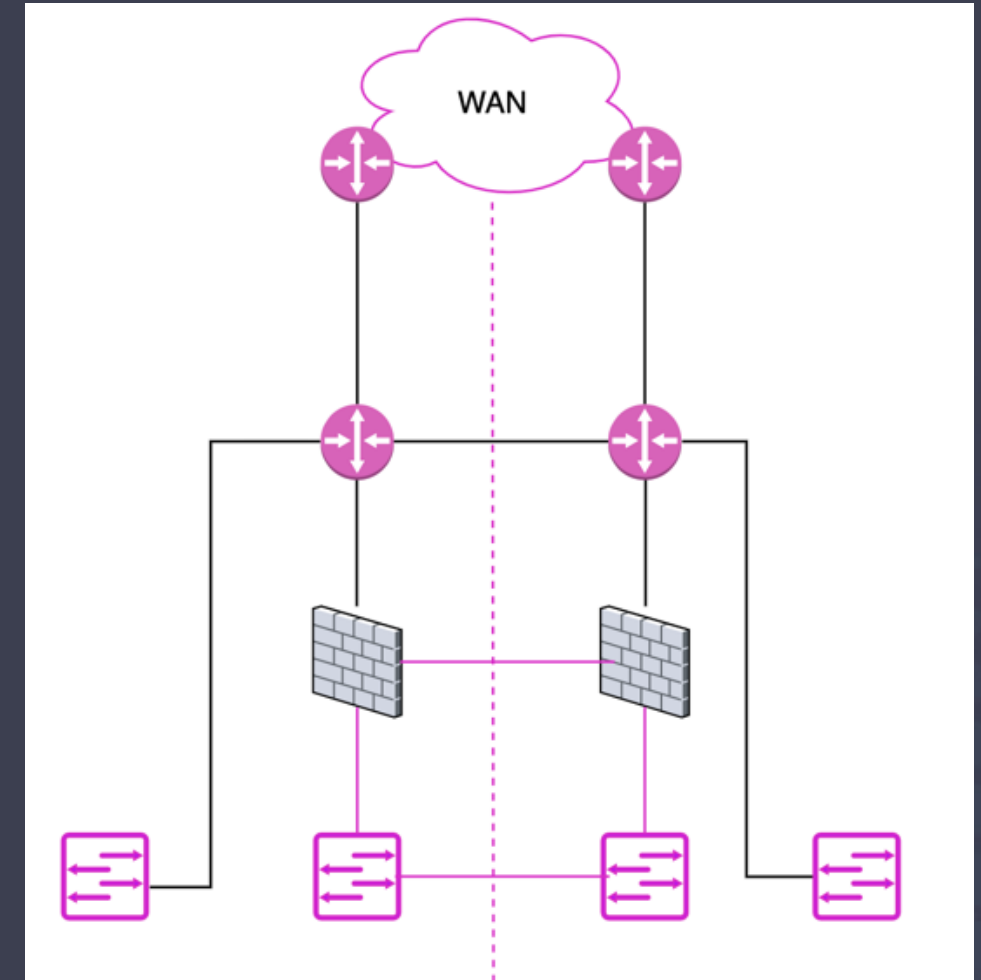
* Source of data based on previous Itential software upgrade deployments



DT Software Upgrade

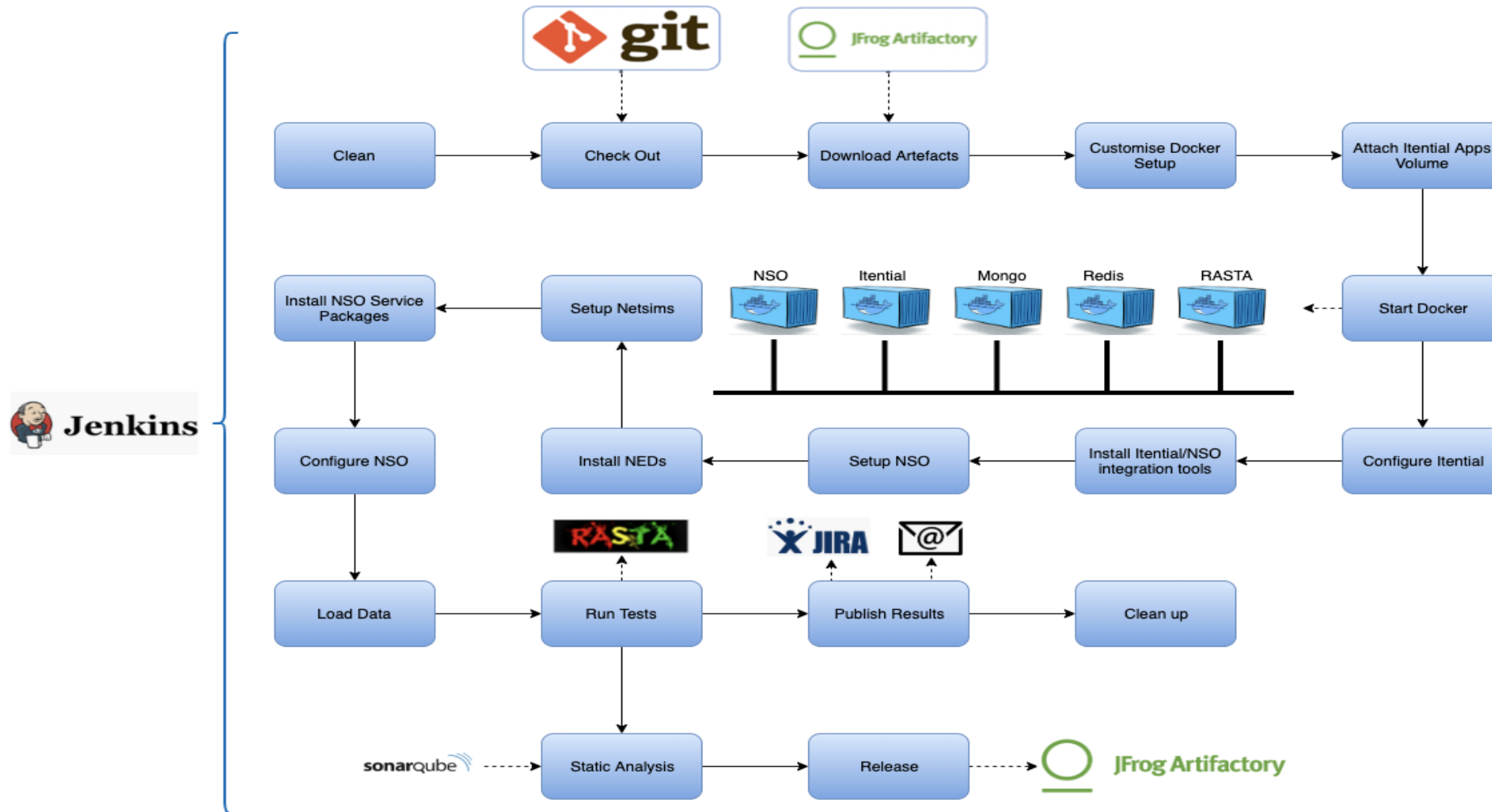


Example M2M Service Area Topology



Demo

CI/CD Pipeline



Next Steps

Roll out software upgrade use case to production

Complete CI/CD process

Implement generic connectivity use cases

Software upgrade of other devices

Zero Touch device onboarding & provisioning

Integrations to additional systems for true "end to end" automation





Thank You

