

a document. Future of Continuous Delivery & Deployment @ Swisscom eviewDeviceBur MDS, MSRO event: function maybeRequestFiles www.bone.View.extent

/ YAT

warb, d**-this**, e=the

Menurlic.router.them

LatenTo(c.collecti

inn/1/r.over

, C. announceSe



Problem Statement

The challenge is to develop an autonomous network service capable of interpreting high-level intent and ensuring these requirements are continuously and automatically met, providing reliable service to our customers. Achieving the necessary end-to-end automation requires a framework that guarantees rapid and reliable delivery of updates through continuous delivery pipelines.



CNF Continuous Delivery Framework



Realtime & Continuous Feedback to Software Suppliers – Standardized Test Results



3

SW Supplier



CNF Continuous Delivery Framework further Evolution



Realtime & Continuous Feedback to Software Suppliers – Standardized Test Results



4 SW Supplier



CNF Continuous Testing





Design and Continuous Deployment

Swisscom aims to enhance the processes for designing, deploying, and operating network functions, including all Mobile Core applications that provide various services. Swisscom seeks to achieve a seamless and continuous process for managing applications, along with the necessary resources (PaaS).

Imperative pre-created design artifacts (actual state)



7



Instead of telling the system **how to do everything**, we tell system **what we want**, and **system figures out the best possible way** to make it happen.

- CNF receives the **intent** to move into an operational state **without step-by-step instructions**
- **Dynamic config assembly** based on **required resources** during runtime
- Inside \rightarrow out

System requests relevant information automatically from external sources

• Extend Kubernetes API to bring Kubernetes-native capabilities





1. Current State (not preferred)





