# Table of Contents

**Network-as-a-Service Runbook**

***Network Monitoring Reference Architecture***

**<NaaS Operator’s Name>**

**

*<Release Date>*

[Table of Contents 1](#_Toc40715421)

[Document Control 3](#_Toc40715422)

[About Design Template 4](#_Toc40715423)

[Document Purpose 4](#_Toc40715424)

[Executive Summary 4](#_Toc40715425)

[Introduction 5](#_Toc40715426)

[Section 1 5](#_Toc40715427)

[Section 2 5](#_Toc40715428)

[Section 3 5](#_Toc40715429)

[Annex A 6](#_Toc40715430)

# Document Control

- Revision Control sheet allows to maintain a record of changes made on the document.

|  |  |  |  |
| --- | --- | --- | --- |
| Version N° | Issue Date | Status | Reasons for Change |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |

Table 1. Revision History

# About Design Template

*After going through the Network Monitoring Architecture Module of the NaaS Runbook, the NaaS Operator has been enabled to establish its monitoring strategy, specify functional requirements for the network monitoring solution and define the implementation strategy.*

*This templates provides a simple format to document these decisions and communicate requirements to the overall NaaS Organization and potential vendors. Throughout discussions it can be updated as appropriate.*

*Once, the Template has been customized/filled out. This section can be deleted.*

# Executive Summary

*Brief summary of document content Text below can be re-used/adapted, providing specific details of the NaaS Operator Network Monitoring Solution.*

While operating the network, visibility into what’s happening in the network is critical to identify problems, apply timely network and service repair/restore actions, improve performance, plan capacity and perform billing to customer Operators.

This document specifies the Network Monitoring Architecture for the <NaaS Operator> network. It establishes the overall Network Monitoring Strategy, specifying network monitoring KPIs, parameters and alarm thresholds as well as the data collection strategy.

In addition, Functional Requirements and Implementation Strategy for the Network Monitoring System are specified.

# Introduction

*Write an introduction to document, that should contain:*

* *Architecture Overview*
* *Summary of Network Monitoring Strategy*
* *Summary of Implementation Strategy*

# Network Monitoring Strategy

## Network KPIs

*Establish network monitoring KPIs, parameters and thresholds based on Section 2.2 of the Runbook Module.*

*KPIs can be defined utilizing the KPI Specification Template in the Runbook repository while monitoring parameters can be derived through the Monitoring Parameters Definition Wizard.*

## Data Collection Strategy

*Based on Section 2.3 of the Runbook Module, define a data collection strategy including reporting intervals and elements to be monitored. Then through the use of the Wizard for Monitoring Technology & Protocol Selection and recommendations from Section 2.4 and 2.5 select network data sources and monitoring protocols & technologies to be implemented in the NaaS Network Monitoring Solution*

# Network Monitoring System Functional Requirements

*Based on recommendations from Section 3 of the Runbook Module, customize the Functional Requirements Template, using generic requirements and further complementing and editing them according to the network architecture and Strategy of the NaaS Operator*

# Implementation Strategy

## Topology & Infrastructure

*Based on Section 4.1.1 of the Runbook Module, define the topology that suits best to the NaaS Operator requirements. Add a Figure that shows the selected topology*

*Based on Section 4.1.2 of the Runbook Module establish what kind of connectivity for network monitoring will be utilized by each device in the network and create a Table or other means to register this specification.*

*Evaluate cloud vs on-premise implementation following recommendations from Section 4.1.3 of the Runbook Module. Write the result using the paragraph below:*

The Network Monitoring System will be implemented as a < Cloud / On-Premise > solution, complying with the following aspects:

*Specify interfaces to other systems following recommendations in Section 4.1.4 of the Runbook Module. Consider at least the following:*

* *Billing System*
* *Network Management Systems / Element Management Systems*
* *Cloud Services*
* *Virtualized Elements*
* *Cloud Platforms*

## Component Description

*Armed with the requirements in Previous sections, research vendors and available solutions. Then, assess against the defined architecture and requirements. Document the selected solution and update as required the sections above.*