

# Thoth Nile Release Planning

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## Overview

Project Name	Enter the name of the project
Target Release Name	Nile
Project Lifecycle State	Incubation

## Scope

This project aims to build **machine-Learning models** and **tools** that can be used by Telcos (typically by the operations team in Telcos). Each of these models aims to solve single problem within a particular category.

## Requirements

Category	Jira Reference	Description
Model	<a href="https://jira.anuket.io/browse/THOTH-28">https://jira.anuket.io/browse/THOTH-28</a>	Ongoing: Data Mining Based Log Analysis Methods <a href="#">Yichen Li</a>
Tools	<ol style="list-style-type: none"><li>1. <a href="https://jira.anuket.io/browse/THOTH-29">https://jira.anuket.io/browse/THOTH-29</a></li><li>2. <a href="https://jira.anuket.io/browse/THOTH-25">https://jira.anuket.io/browse/THOTH-25</a></li><li>3. <a href="https://jira.anuket.io/browse/THOTH-26">https://jira.anuket.io/browse/THOTH-26</a></li></ol>	<ol style="list-style-type: none"><li>1. NICIP platform (gitlab) <a href="#">Yan Yang Lei Huang</a></li><li>2. Improve AlgoSelector Tool. (<a href="#">Sridhar Rao</a> )</li><li>3. Timeseries Dataset Analysis tool. (<a href="#">Sridhar Rao</a> )</li></ol>
Framework	<ol style="list-style-type: none"><li>1. <a href="https://jira.anuket.io/browse/THOTH-30">https://jira.anuket.io/browse/THOTH-30</a></li><li>2. <a href="https://jira.anuket.io/browse/THOTH-27">https://jira.anuket.io/browse/THOTH-27</a></li></ol>	<ol style="list-style-type: none"><li>1. Collaboration with Mindspore <a href="#">Lei Huang</a></li><li>2. Kubeflow with Models of AlgoSelector (<a href="#">Sridhar Rao Rohit Singh Rathaur</a> )</li></ol>
Research	<a href="https://jira.anuket.io/browse/THOTH-24">https://jira.anuket.io/browse/THOTH-24</a>	NICIP research paper <a href="#">Lei Huang</a>
NICIP	<a href="https://jira.anuket.io/browse/THOTH-17">https://jira.anuket.io/browse/THOTH-17</a>	<ol style="list-style-type: none"><li>1. Collect network intelligence scenario requirements from operators, publish network intelligence scenarios and research reports in collaboration with ITU-T 13 project <a href="#">Beth Cohen Mehmet Toy Lei Huang</a> @Joao</li><li>2. Publish at least one network intelligence scenario competition problem on NICIP platform <a href="#">Lei Huang</a></li><li>3. Publish at least one open network operation and maintenance data set on the network intelligent collaborative innovation project platform <a href="#">Lei Huang</a></li><li>4. Create NICIP project specific page on LFN website(like 5G BP), and publicize project through Webinar and other meeting, including LFN DTF, ONES,etc. <a href="#">Lei Huang</a></li><li>5. Jointly promote R&amp;D with external open source communities such as LF AI <a href="#">Lei Huang</a></li></ol>

# Release Artifacts

Name	Description	Format (Container, Compressed File, etc.)
ML-Models	Data Mining Based Log Analysis	Jupyter Notebook, Python Script
Tools	Algoselector, TS-Dataset Analysis Tool.	Jupyter Notebook, Python Script
Research Studies	AI/ML problems in NFV, OSS Frameworks AI/ML & Kubernetes in NFV	.md files and/or pdf files.
ML-Framework	Upstream ML framework project	Integration Code.

# Architecture

## High level architecture diagram

Insert diagram or link.

## Internal Dependencies

None

## External Dependencies

None

# Test and Verification

Describe how the project will be tested and verified.

# Risks

List any risks and a plan to mitigate each risk.

Risk Description	Mitigation Plan
Developers	Interns
Testbed	Request for Intel POD-18