Thoth Orinoco Release Planning

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Overview

Project Name	Enter the name of the project
Target Release Name	Orinoco
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	ex. https://jira.anuket.io/browse/THOTH-28	Sridhar Rao TBA
Tools		1. NICIP platform operation (gitlab) Lei Huang 2. Improve AlgoSelector Tool.Sridhar Rao 3. Timeseries Dataset Analysis tool. Sridhar Rao 4. Data Anonymozation Tool. Yichen Li TBD
Framework		1. Continue collaboration with Mindspore Lei Huang 2. Kubeflow with Models of AlgoSelector Sridhar Rao Rohit Singh Rathaur
Research		NICIP research paper with ITU-T 13 Lei Huang
NICIP		1. Collect network intelligence scenario requirements from operators, publish network intelligence scenarios and research reports in collaboration with ITU-T 13 project Beth Cohen Lei Huang @Joao 2. Publish at least one network intelligence scenario competition problem on NICIP platform, include NFV log analysis scenario,etc. Lei Huang 3. Publish at least one open network operation and maintenance data set on the network intelligent collaborative innovation project platform Lei Huang 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. Lei Huang 5. Jointly promote R&D with external open source communities such as LF AI Lei Huang

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