



FRINX UniConfig Data Sheet

Product Overview

The purpose of FRINX UniConfig is to manage the intent or the desired configuration of physical and virtual networking devices through a single network API. In addition, UniConfig enables device and network wide transactions with rollback and snapshots so that the network will always remain in a well-defined state without leftovers from failed configuration attempts. UniConfig enables users to communicate with their network infrastructure via four options:

- Via “*Execute & read*” API - Providing access to CLI via unstructured data over SSH and Telnet (available for all devices in our open source device library)
- Via “*Translation units*” API - Leveraging an OpenConfig API with the help of our open source device library (requires translation units - available in our open-source device library)
- Via “*UniConfig native*” - Leveraging existing vendor YANG models that are native to the connected devices (requires YANG models provided by network device vendors)
- Via “*UniConfig native CLI*” - Leveraging YANG models derived from the CLI structure of network devices (requires YANG models based on CLI structure of network devices)

FRINX UniConfig can be used as a standalone solution or as a part of FRINX Machine, our workflow automation solution.

Features & Benefits

Feature	Benefit
REST API	All RPCs and data structures available via REST API and CRUD operations
Model-driven	YANG data models are used for device abstraction, CLI can be translated in YANG and vice versa

Intent-based	Automates configuration updates and changes based on customer intent
Client libraries	Client libraries available in Java, Python and Go
Open-source device library	Based on open source library of device drivers
State-aware	Awareness of network configuration state
Reconciliation	Reads and stores device configurations and provides programmatic access for CRUD operations
Network-wide transactions	Provides transaction capabilities across one or multiple network devices

Product Architecture

FRINX UniConfig uses a layered design where the functionality of the upper layers depends on the functionality of the layer underneath. Each layer thus provides a higher level of abstraction from the network elements. Applications are allowed to utilize any of the layers in the system. UniConfig consists of the following three layers (from top to bottom):

- Uniconfig layer (Uniconfig Node Manager with datastore and RESTCONF API)
- Unified layer (Unified mount point with translation units)
- Southbound layer (NETCONF mount point, CLI mount point with translation units)

The UniConfig data store contains structured data described by YANG models. There are two separate datastores, the config data store which contains the intended state of the network and the operational data store that contains the actual state of the network.

YANG based on device CLI



Any vendor YANG model



OpenConfig translated to CLI & NETCONF



Execute & Read - Raw CLI access via Telnet & SSH



FRINX UniConfig Architecture

Ordering information

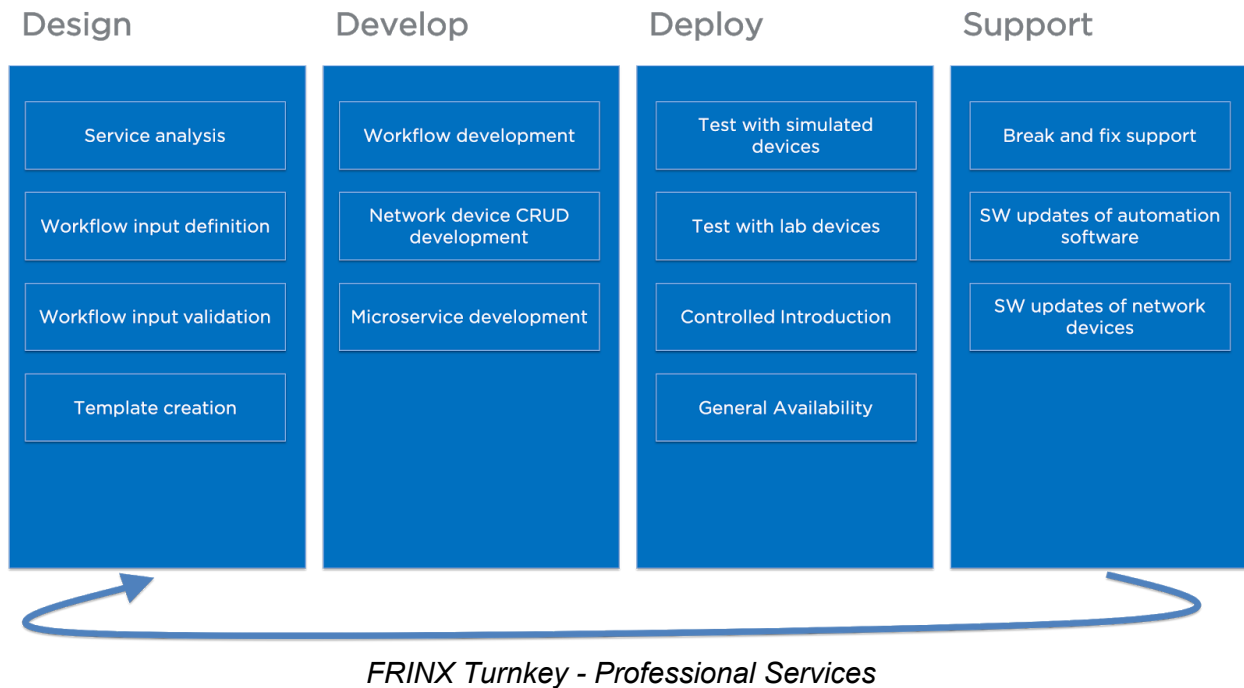
FRINX UniConfig is metered based on the number of devices under control.

- UniConfig network control engine license based on number of devices under control

High Availability functionality is included in the license. Access to our open-source device driver library is included in the license. A volume discount exists for ordering multiple license packs.

FRINX Turnkey Solution

Successful execution of automation projects is as much about people and process as it is about tools and solutions such as FRINX Machine. Based on our experience from working with great customers and partners, we have created a solution practice that supports you during all execution phases of automation projects. We will support you and augment your teams in the design, implementation, deployment and operations phases of your project and help you execute on time and within budget.



About FRINX

FRINX builds software that enables customers to create automated, repeatable, digital processes to build, grow and operate their digital communication infrastructure. Enterprise and service provider customers are choosing FRINX products and solutions to automate cloud assets, branch offices, core, edge and access networks. The goal of automation is to provide programmatic interfaces to customers (internal or external), to save time and resources in deploying infrastructure changes and to provide a cost effective basis for adding new functionality in the infrastructure. FRINX provides software that enables low-code workflow design and operation, analytics to support machine learning and intent based infrastructure control to integrate devices and services from many networking vendors. FRINX solutions are operated and deployed by industry leaders like Facebook, SoftBank, Vodafone and other Global Fortune 500 companies to support their automation needs. FRINX is a privately held company with offices in Bratislava, Slovakia and New York, NY.

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