YumaWorks
Automating the Internet

YumaProSDK Basic

High Performance Network Management Server and Development Tools

Reduce Your Research and Prototype Time

Networking features

NETCONF database access

NETCONF operations

Platform instrumentation

Platform and model dependent

Model dependent

Model Independent

Common protocol stack
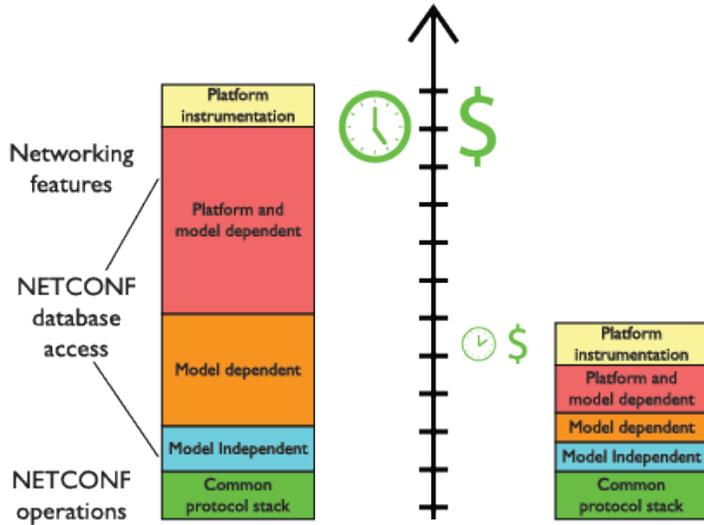
Time and cost without YumaPro SDK

Time and cost with YumaPro SDK

YumaPro SDK Basic is a NETCONF/YANG development kit that provides a cost-effective model-driven solution for advanced SDN management plane capabilities:

- **full YANG data modeling support**
- **complete NETCONF and Call Home protocol support**
- **high performance transaction engine**
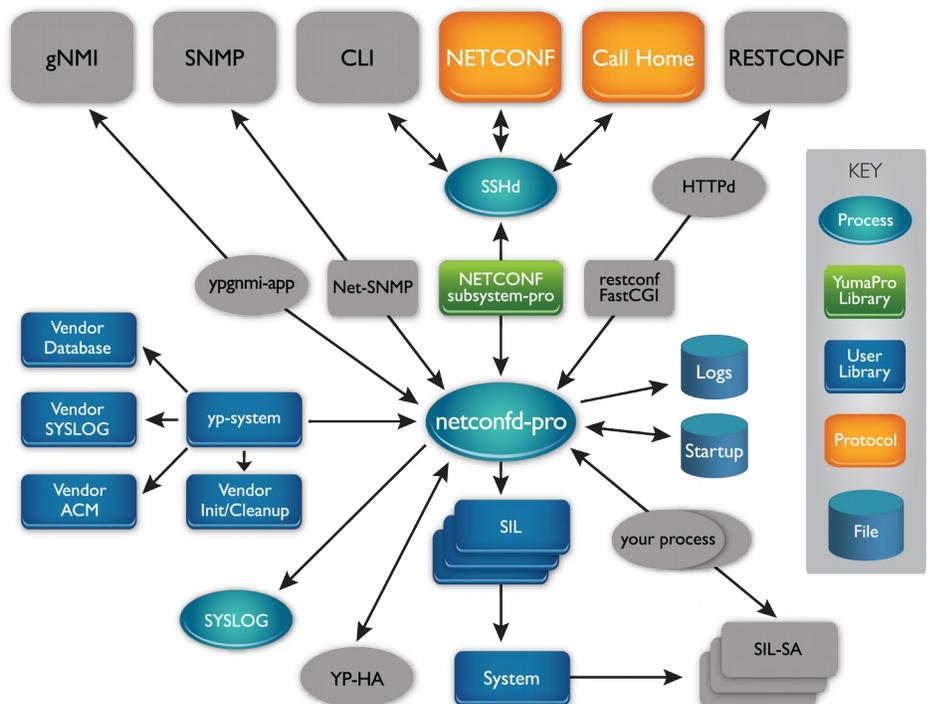- **automation and a rich set of features reduce development time**

YumaWorks is a driving force in the network management standards bodies ensuring the SDK is kept up to date.
Use the tools developed by our experts, so you can focus on your area of expertise – your device's instrumentation.

Full NETCONF and Call Home driven by YANG, with Modular & Flexible APIs

YumaPro SDK Basic is comprised of a subset of YumaPro SDK's features and tools

- **Modular architecture designed for easy integration with your system**
- **highest performance server available**
- **supports standard security, access control and syslog services**
- **standards compliant with optimizations and extended features**
- **integrates with your legacy management solutions**
- **licensing options available with YumaPro SDK**

gNMI | SNMP | CLI | NETCONF | Call Home | RESTCONF

SSHd | HTTPd

ypgnmi-app | Net-SNMP | NETCONF subsystem-pro | restconf FastCGI

Vendor Database

Vendor SYSLOG

Vendor ACM

yp-system

Vendor Init/Cleanup

netconfd-pro

Logs | Startup

SIL

your process

SYSLOG

YP-HA | System | SIL-SA

KEY

Process | YumaPro Library | User Library | Protocol | File

YumaPro SDK Basic is a full feature NETCONF/YANG development kit with community support:

Feature Comparison

Feature	YumaPro SDK Basic	ConfD Basic	Open Yuma	YumaPro SDK
YANG The standard network management modeling language	✔	✔	✔	✔
NETCONF The transaction oriented protocol to transport YANG data	✔	✔	✔	✔
RESTCONF IETF standard protocol to transport YANG data in HTTPS. YumaPro SDK implementation includes extensions for transactions	✘	✘	✘	✔
gNMI Google Remote Procedure Call (gRPC) Network Management Interface (gNMI) allows gNMI clients to access YumaPro's server – requires additional yp-gnmi package	✘	✘	✘	✔
SNMP IETF standard Simple Network Management Protocol supporting GET, GET-NEXT, GET-BULK and Notifications, with master and sub-agent functionality	✘	✘	✘	✔
Call Home IETF standard Call Home provides secure remote configuration through firewalls	✔	✘	✘	✔
NETCONF Access Control Model (NACM) The IETF standard to control user access to YANG data	✔	✔	✔	✔
Crypt hash Used to store passwords securely	✔	✔	✘	✔
NETCONF notifications Standard notification of events	✔	✔	✔	✔
Syslog Output of log messages to standard or vendor syslog with logrotate	✔	✔	✘	✔
High Availability Automated server crash recovery restart using a 1:N Active/Standby model	✘	✔	✘	✔
Distributed Asynchronous Instrumentation Enables distributed instrumentation, e.g. line cards	✘	✔	✘	✔
XPath (XML Path Language) Advanced retrieval filtering	✔	✔	✔	✔
Embedded Server CLI Embedded version of yangcli-pro Command Line Interface	✘	✘	✘	✔
Advanced System Integration Easy customization and integration with standard databases and legacy management systems	✔	✔	✘	✔
Paid Technical Support Available	✘	✘	✘	✔

For transaction performance comparisons visit: https://www.yumaworks.com/features/performance/

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