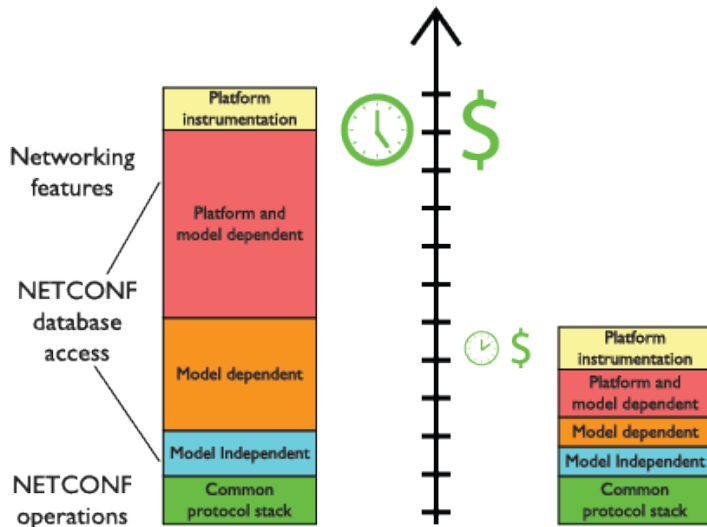# YumaWorks
Automating the Internet

YumaProSDK

High Performance Network Management Server and Development Tools

Reduce Your Time to Market and Development Costs

Time and cost without YumaPro SDK

Time and cost with YumaPro SDK

YumaPro SDK is a multi-protocol development kit that provides a cost-effective model-driven solution for advanced SDN management plane capabilities:

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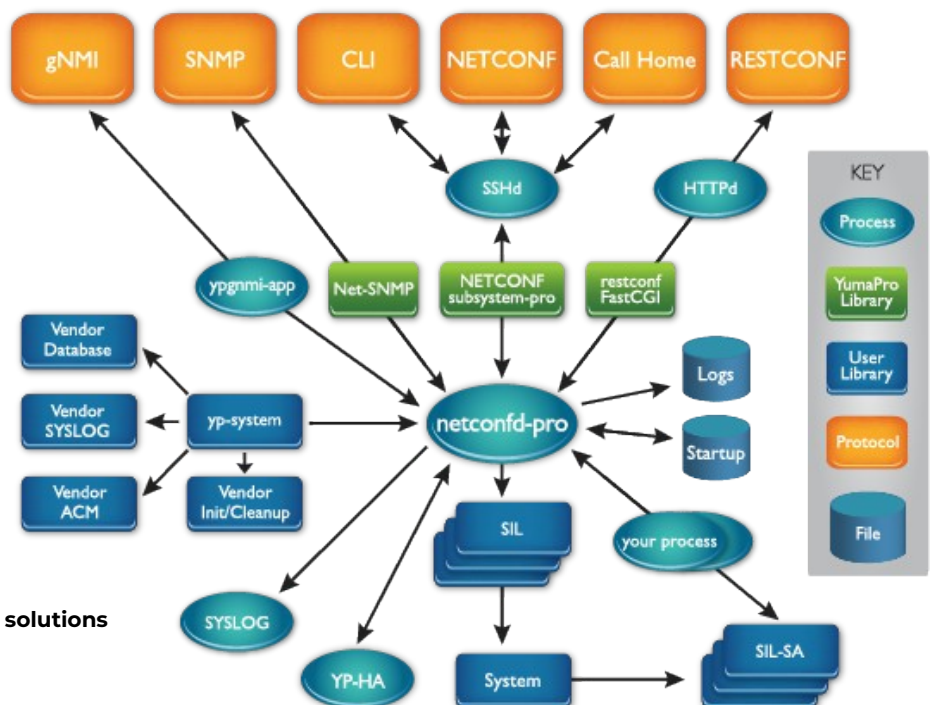- **automation and a rich set of features reduce development costs and time to market**

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 your engineers can focus on their area of expertise – your device instrumentation.

Multi-protocol, Distributed Architecture, Modular & Flexible APIs

YumaPro SDK is designed to adapt to your achitecture:

- **modular multi-protocol design allows you to select only the protocols you need to meet the requirements of your customers**
- **highest performance server available**
- **distributed architecture to optimize the processing power of your system**
- **supports standard security, access control and syslog services**
- **standards compliant with optimizations and extended features**
- **integrates with your legacy management solutions**
- **royalty free licensing**

YumaPro SDK is a full feature development kit with support:

Feature	YumaPro SDK	ConfD Basic	Open Yuma	libnetconf
Technical Support Available	✔	✔	✗	✗
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	✔	✔	✗	✗

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

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