

# Networking Development

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Networking Development

## Networking Development

Networks, Computing And Storage Form The Key Elements Of The Infrastructure For All Manner Of Communications, As New Technologies And Innovations Are Introduced, With Continuous Growth And Transformation Ushered By Mobile, Cloud And Social Media.☒☒

Veryx Has Experience Working With Industry Leaders To Provide Professional Services And Support For Outsourced Product Development, Development Of Specific Modules, Quality Assurance And Automation, Using A Combination Third-Party And Veryx Tools.☒



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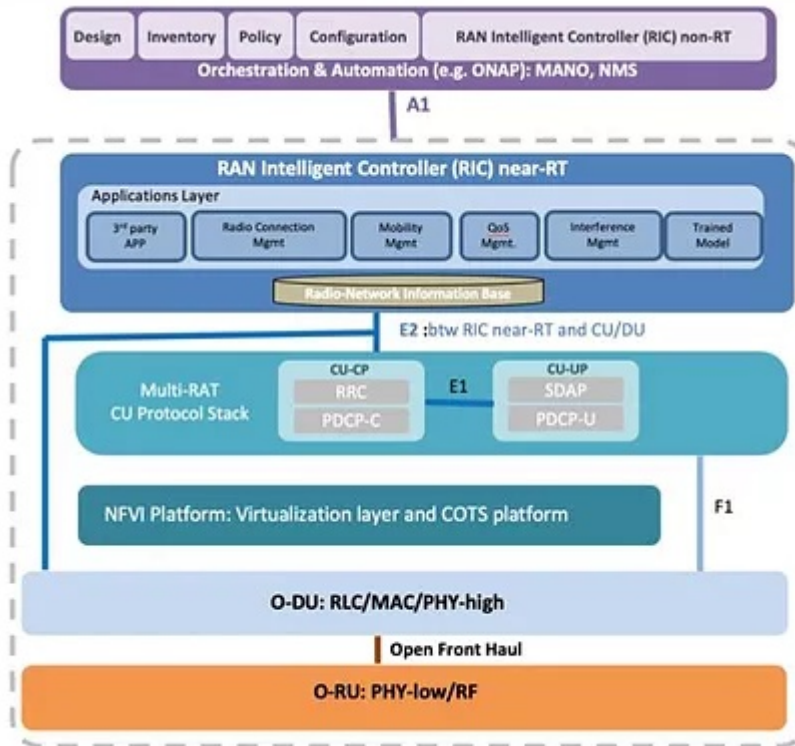
The Fifth Generation Of Mobile Wireless Communications Technology Is 5G Is Here. 5G Promises Lower Latency, Faster Speeds And Greater Load Capacity By Using Shorter, Higher-Frequency Bands Of The Radio Spectrum.☒

Veryx Partners With Network Equipment Vendors And Telcos To Take Them Closer To Their 5G Ambition In Two Primary Areas: Development And Automation. With Deep Engineering And Product Design Expertise, Coupled With Our Vast Experience In Communications And Product Engineering Services, We Innovate And Generate Unique Experiences For Our Customers.

5G Software Development (Core And Ran)☒

The Design And Development Of The Next Generation Of Networks Requires Knowledge And☒ Expertise In Using Cloud-Native Approach, With Microservices And Container-Ready Architecture☒ And Support

For High-Performance Virtual Network Functions (Vnf). Software Define Network (Sdn) Enables Configuration, Optimization And Control From Centralized Location Or Aggregation Points For The Underlying 5G Infrastructure.



O-Ran Architecture (Source: <https://www.o-ran.org/>)

Veryx 5G Development Services Cover Radio Access Network (Ran) Intelligent Controller, Fcaps And Oam. Veryx Has Expertise And Know How To Build Next Generation 5G Networks Having Microservices And Container Ready Architecture Which Run On High Performance Vnfs. Veryx Xapps Development Services For Nrt-Ric (Near-Real Time Ran Intelligent Controller), Is Aligned With O-Ran Specifications And Serves As A Critical Component In Enabling Open And Virtualized Ran.

Veryx Also Offers Support In Enabling Oran Management Plane With Netconf/Yang And Rest Application Programming Interfaces (Apis).

## Devops

Telcos Have A Lot To Gain From Adopting Devops Practices In The Era Of 5G. Devops Is Used To Optimize A Software Delivery Cycle, Including Everything From Feature Development To Operations Across Disciplines (Development, Customer Engagement And Operations) Through To Continuous Delivery (Cd)

Practices. Both Cd And Lean Management Practices Bind Together Continuous Integration, Delivery, Release And Deployment Activities Across Teams And Stakeholders. Devops Helps In Improving The Time To Market, Reliability And Quality.☒

Veryx Has Rich Automation Experience Which Comes From The Product Development Experience☒ Of Various Automation Tools For Network Equipment Manufactures And Service Providers. Veryx Team Helps In Automating And Implementing Lean Process For Successful Implementation☒ Of Ci/ Cd.☒

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## Software Development

Next Generation Communication Technologies Such As 5G, Cloud And Edge Computing Are Driving Innovations Across Domains To Enhance Customer Experience, Optimize Network Management

Veryx Software Development Services Enable Its Customers To Rapidly Introduce Innovative Products In The Market. Veryx Services Cover The Complete Software Lifecycle, Starting With Requirement Definition, Software Design And Development, Software Validation And Deployment That Include Software Upgrades And Enhancements.☒☒

## Firmware Software Development☒

Veryx Expertise In Agile Firmware Development Include Development Of Network Protocol Stacks☒ For A Wide Range Of Real-Time Operating Systems, Re-Engineering Of Existing Software Or☒ Open-Source To Adapt To Various Operating Systems And Chipsets, Development Of Middleware☒ Components And Building Software Prototypes.☒☒☒

☒Our Offering Ensures Optimal Product Development End-To-End – From Concept To Customer☒ Delivery. We Have A Team Of Experienced Engineers, Who Ensure Efficient Designs, High☒ Performing Software, Re-Usable And Maintainable Code Using Agile Development Methods.☒☒

## Full Stack Development

State Of The Art Web Technologies Present Unlimited Opportunities For Transforming Simple Ideas Into Appealing Business Solutions. But With Changes Pertaining To Web Technologies Occurring At Rapid Pace, Engineering Teams Find It Challenging To Keep Pace With Those Technologies And Aligning Web Development With These Technologies.☒

Veryx Has In-Depth Experience In Web-Design, Ui And Development Using Java, Php, Javascript, .Net,

Etc. As Well As Relational And Non-Relational Backend Databases. These Applications Could Be Developed For Cloud-Based Platforms.

### Mobile Application Development

Veryx Designs And Develops Mobile Application For Ios And Android Platforms. These Could Extensions To Other Application Front-Ends Or Standalone Applications Specifically Developed For Mobile Environments.

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### Software Testing

At Veryx, We Understand Importance Of Quality Assurance And How It Impacts Product Success. Our Testing Services Cover All Aspects Of Quality Assurance Right From Strategy Definition, Test Execution, Regression And Last But Not The Least, Automating The Whole Testing Process. Having Developed And Sold Veryx Testing Solutions And Related Services For Close To Two Decades, We Understand The Nitty-Gritty Involved In Quality Assurance Process And How Effort And Cost Can Be Optimized For This Process.

Veryx Has Experience In Testing For A Broad Range Of Networking Technologies Ranging From Layer- 2 Testing, Ip Switch Testing, Carrier Ethernet Testing, Data Center Testing, Industrial Ethernet Switch Testing, Mobile Backhaul Testing, Sd-Wan Testing, Wifi 6 Testing And Time Synchronization (Ptp & Sync) Testing. We Can Also Test Various Management Interface Like Cli, Web Ui, Netconf/ Yang And Snmp.

Veryx Also Specializes In Testing Of Nms And Ems Which Includes Testing Of Fault Management, Configuration Management , Performance Management Etc.

### Quick Tests

Network Equipment Manufacturers Who Have Uncertain Or Short-Term Testing Requirements But Need A Quick Turnaround, Find Themselves In A Position Of Being Unable To Commit To Higher Investments. Also Independent Third-Party Assessments Can Prove To Be Cumbersome.

Veryx Quick-Test Services Provide Fast Turnaround Times For Single Cycle Test Verification Requirements. By Leveraging On Its Standardized Test Infrastructure, A Ready-To-Use Exhaustive Library Of Tests, A Well-Equipped Test Lab And An Expert Testing Team, Customers Are Assured Of Quick Results At Lower Budgets.



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### Test Automation

Veryx Introduced One Of The Very Earliest Automated Testing Frameworks, With Key Innovations On Flexibility, Analysis And Convenience. With Continued Innovation, The [Attest](#) Framework Is Used By Over 80 Companies Worldwide For Their Conformance, Functional And System Testing Needs.

Veryx Test Automation Builds On This Expertise, Offering Customers The Ability To Design Their Automation Architecture In A Manner Suited To Their Testing, While Optimizing On Existing Features And Flexibility. With A Database Of Over 25,000 Test Cases, Veryx Is A Proven, Trusted And Customer-Focused Partner Helping Customers To Quickly Implement Their Automation Environment.

Veryx Provides A Flexible Range Of Options:

- Automated tests developed on Veryx [ATTEST](#) – a flexible and intuitively user-friendly framework
- Automated test development on customers' existing proprietary or third-party test frameworks like [Robot](#) framework, [Pytest](#) and [Selenium](#)
- Migration of test framework and test suites from existing platforms to ATTEST-based framework
- Integration with a wide variety of third-party traffic generators and related tools including [Veryx SAMTEST](#) and [Veryx PktBlaster](#)
- Integration with customer equipment
- Test case scripting in Tcl/Tk, Perl, Python etc.

All These Options Can Be Tailored To Specific Customer Requirements Through Various Delivery And Engagement Models Based On Customer Needs.

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### Devops

To Stay Competitive In Today's Business World, Organizations Need To Move Swiftly. Software Delivery Has Transformed From Fragmented Approach (Development, Testing And Operations Performed By Different Teams In Silos) To A Continuous Approach (Development, Testing, Operations And Maintenance Happening In Tandem By A Closely Knit, Collaborative Team).

Veryx Devops Services Help Deliver The Required Agility And Efficiency With Continuous Integration/Continuous Delivery (Ci/Cd) And Allied Capabilities.

Common Use Cases Include Cloud-Native And Mobile Applications, Application Integration, And Modernization And Multi-Cloud Management.

We Offer Devops Solutions And Services Across The Lifecycle From Assessment To Implementation To Operations, Addressing Diverse Customer Needs, Using The Veryx Devops Framework Which Helps Jumpstart The Ci/Cd Implementation:

Strategy:

We Help You Discover The Benefits From Technology Advances That Drive Continuous Delivery.

Implementation:

We Implement, Integrate And Run The Tools Necessary For Supporting Continuous Delivery And Devops.

Complementary Capabilities:

We Provide Additional Capabilities To Extend Beyond Devops For Faster Delivery Of It-Based Solutions, Including:

- Agile: Iterative and incremental development
- Cloud: Workload management on demand
- Security: Greater resilience and fewer threats
- Testing: Automated test techniques

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