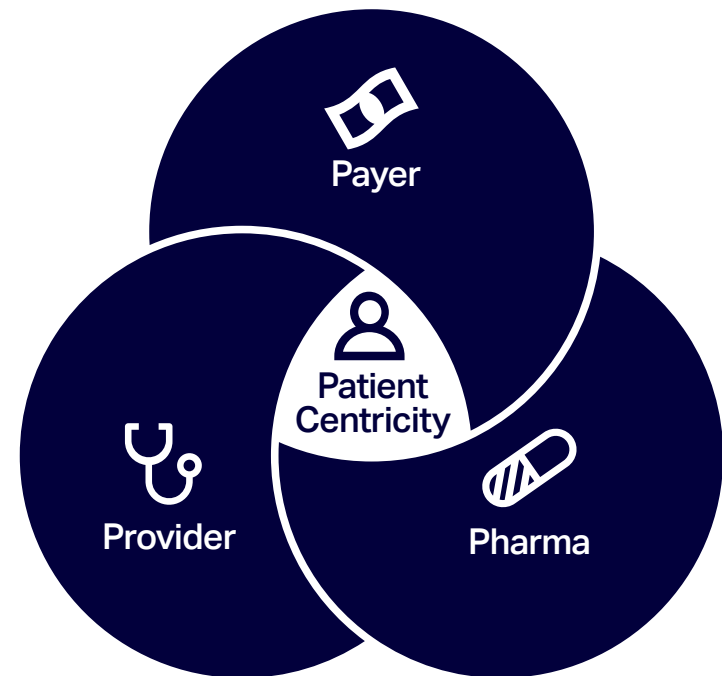
A person is holding a tablet computer, displaying a video call with a woman wearing glasses and a white lab coat. The person holding the tablet is wearing a blue long-sleeved shirt and a metal watch. The background is blurred, showing a kitchen area with a sink and a wooden cabinet.

Digitally Transformed Healthcare through Quality Software Delivery

Regardless of whether you are provider, payer, or pharmaceutical company, patient-centricity and improving the overall standard, transparency, and timely access to healthcare is paramount.

Information and digital technologies are the key enablers that help you transform, and ultimately improve your operational efficiency and increase patient satisfaction. Micro Focus Application Delivery solutions can play a central role in developing connected, reliable, and quality-driven services.



Forces such as new technologies, rising costs, changing consumer expectations and emerging market players are putting pressures on your industry to reimagine the traditional healthcare value chain.

Over the past several years, greater collaboration and innovation within and between all segments has shown dividends in mitigating risks, adapting to new models, and improving the overall patient experience—all while blocking external technology-driven disruptions.

Digital transformation is fundamental to helping you continuously reshape the value chain for success. A winning formula exploits software delivery to deliver connected and instant interactions that foster well-being, and also reduce administrative overhead and modernize legacy systems.

The possibilities for health-related technologies, such as paper-free processes, self-care and wellness tools, telehealth and e-visit services, alongside APIs for data interoperability, are endless. Software-based innovation and development continues to grow at a rapid pace to satisfy the expectation of seamless digital services. However, this creates new challenges for both IT and product development teams alike.



Foster Collaboration and Improvement

You may simply focus on delivering software faster. Success means focusing on how much value you can deliver at speed. Yet measuring value, especially as software portfolios grow in size, becomes increasingly difficult if there is a disconnect between the tools and teams that plan, build, deliver, and operate products. Without visibility across the process, duplicated effort and inefficient processes can undermine time to value.

Successful IT organizations focus on how much business value they can deliver at speed by connecting and measuring all of the end-to-end activities across their portfolios. Micro Focus helps organizations make sense of the data overload from islands of tools, to align strategy with execution. Our solutions help connect, map and visualize crucial aspects of the software delivery lifecycle, enabling teams to make work visible, uncover bottlenecks, provide governance, and ensure stakeholder alignment.



Micro Focus Application Delivery Solutions



Maintain Oversight and Governance

Healthcare regulations, such as FDA 21 CFR, GAMP5, SOX, HIPAA and Annex 11, demand a more stringent approach to recording and tracking all development activities. However, the main difficulty behind effective compliance and audit reporting is that the linkage between records is often hard to find. Weaving pieces of information into an audit report is a daunting task, especially if you rely on disconnected spreadsheets and paper trails.

Micro Focus solutions consolidate development data from different sources into a single repository so teams can achieve end-to-end traceability. From requirements to source code, test cases, test runs/results, defects, and executables; all information is inter-linked, and saved to a central repository. Our e-signature solution drives a paper-free yet fully traceable and auditable process where entities can be electronically signed after every human interaction, rejection or approval. Now you can save hours of effort and more efficiently provide evidence to auditors.



[Micro Focus ALM/Quality Center](#) and [Micro Focus ALM Octane](#) deliver end-to-end traceability and create your single source of quality and truth across software projects while [Micro Focus e-Signature](#) fulfills regulatory compliance needs within your lifecycle.

“We leverage the ALM audit trail and plan to use this for periodic review of our computer systems. Depending on the system criticality we are required to formally check our systems and documentation every 1-5 years. With ALM we can limit the audit log to just the fields that we need for this activity.”

—[Xellia Pharmaceuticals](#)

Manage the Quality of Things

Physical and virtual worlds are coming closer together as more and more objects become connected to the internet, enhancing our experiences and providing greater insight to make smarter healthcare decisions. As the worlds of pure software and Internet of Things (IoT) merge, software teams need to incorporate new testing strategies and capabilities to easily detect errors/bugs and manage overall quality risks. Micro Focus provides a whole new way to assess IoT quality with Quality of Things, a new test execution client specifically designed for the world of things.



[Micro Focus Quality of Things \(QoT\)](#) helps you conduct tests online/offline on a portable device, and test against IT or non-IT systems.

Deliver Quality Web and Mobile Applications

Patients and practitioners alike expect a superior user experience on an ever-increasing variety of smartphones, tablets, laptops and wearables—all running different operating systems and browsers. Test automation is crucial for continuous testing and ensuring fast delivery, but it comes with costs and complexities.

With a broad array of functional testing solutions, Micro Focus enables faster automation adoption through tools that fit a testing team's different personas and skills, and enables them to employ advanced capabilities such as artificial intelligence, machine learning, and predictive analytics. More importantly, teams have the freedom to access, control, and test web and mobile applications on any device, browser, or platform whenever and wherever needed, from on-premises to the cloud.



[Micro Focus UFT](#) solutions easily scale automation testing to build outstanding mobile and web applications.

“UFT One’s AI-based capabilities simplify the tough bits from test creation. I’ve known testers struggle for hours to interface with a particular visual element. AI takes all this away, and I can’t imagine spending more than a few minutes on the same thing. I call it ‘automagic’ as it really is!”

—[Independent Health](#)

Drive Interoperability through APIs

Partnerships are becoming the norm. In order for them to succeed, you need better interoperability between systems. Application Programming Interface (API) -enabled interaction points facilitate the seamless and secure exchange of information. Linking ecosystems of technologies and organizations, APIs allow you to monetize data, forge new partnerships, and open new channels for innovation.

Testing teams face several unique challenges when testing API implementations, from overall complexity due to limited access to testing resources. Micro Focus helps manage API testing without extensive coding, and removes the testing “wait time” that slows delivery.



[Micro Focus UFT One](#) increases test coverage from the user interface to the API while [Micro Focus Service Virtualization](#) simulates services and APIs to remove dependencies and bottlenecks.

Optimize Performance and Guarantee Accessibility

The pressure to deliver software quickly often leads teams to skip performance testing and release without complete verification and validation, only to pay the hefty price of failure in production. At a minimum, this may create poor user experiences, but more importantly it could delay access to critical health-related information or services.

High-performing teams adopt a proactive, continuous performance engineering approach that includes four key attributes: expansion of performance testing to new roles, tight integration into the CI/CD process, end-to-end performance analysis, and continuous improvement. When combined, these elements ensure teams can engineer performance early in the lifecycle through to the end-user experience.



[Micro Focus LoadRunner](#) solutions help you confidently test complex load, stress, and performance scenarios across legacy, web, and mobile applications while benefitting from shared capabilities.

“We can now perform full-spectrum performance testing [with LoadRunner] on all products and releases. This allows testers to focus on application functionality and support other corporate initiatives. It also means that IT personnel can eliminate potential production bottlenecks without increasing time to delivery or cost.”

—[Tufts Health Plan](#)

Enhance Security to Safeguard Consumer Trust

Healthcare providers have a responsibility to protect patients and their data, as well as the organization's own data and systems. Poor security can weaken consumer trust, and endanger patients' lives. Without incorporating strong security practices, development teams can accidentally accelerate the delivery of vulnerabilities to internal and external threats.

Detecting security issues in the early stages helps teams to avoid the high cost of remediating code late in the cycle. Micro Focus application security testing tools integrate static, dynamic and mobile application security testing with continuous monitoring for web apps in production.



[Micro Focus Fortify](#) products reduce the cost and time involved in securing applications while safeguarding customer data.

“Working with KJR and Micro Focus ensures we meet the highest global security standards available to always protect our patients' sensitive data.”

—[Doctors on Demand](#)

Summary

As you chart your course for better digital engagement and operations, you need a partner that understands the needs of highly regulated industries, demanding greater governance, auditability, and control over software delivery processes.

Micro Focus Application Development solutions have helped many healthcare organizations unleash the power of information and digital technologies to deliver better services and patient care.

Our established track record supports enterprises across numerous industries—including nine of the top 10 global health insurers and 10 of the top 10 global pharmaceuticals.

It's time to transform healthcare and make your digital future a reality.

