



PureLoad

A flexible test solution for applications and networks

PureLoad is a versatile test solution for applications and networks, providing powerful performance test capabilities that enable application and service testing from the perspective of client applications.

A Comprehensive Application to Evaluate Performance and Drive Development

PureLoad is ideal for testing IP-based applications in mobile networks and CDNs. It enables MNOs and content providers to evaluate service performance and to support continuous development and DevOps deployment programmes.

PureLoad supports functional testing from the perspective of a single UE and can also scale to millions.

It's ideal for validating both specific, complex – scenarios, as well as extreme load testing to model real performance at scale.

With PureLoad, tests are simple to automate, and the same test case implementations can be used for automation of functional verification, for light or heavy traffic performance tests, and for network monitoring of service chains in the production network.

PureLoad also delivers detailed statistics and reporting and offers the ability to automate testing for CI/CD set-ups.

Key features

- Full-stack client simulation
- Scalable load and performance validation
- Optimised for RCS, mobile streaming, and other IP services
- HTTP/HTTPS, SIP, Diameter simulation
- Active monitoring in live networks
- Continuous testing and DevOps optimised

Key benefits

- Scale from single use cases to high traffic volumes
- Test from the perspective of individual UEs and subscribers
- Validate services with realistic payload
- Enhance network rollout and operations
- Automate and integrate with DevOps
- Clear presentation of reports and results
- Flexible license models



Use Cases:

- Messaging, RCS and IMS Testing**
 Easily test IMS, RCS, RBM, MaaP and messaging systems, backed by rich SIP, MSRP, HTTP and Diameter capabilities.
 Simulate user behaviour and high-volume throughput for both P2P and A2P messaging.
- CDN and Streaming Services**
 Simulate better customer experiences by easily simulating streaming services across different networks and devices – from XDSL, FTTH, GPRS, EDGE, UMTS, LTE and 5G SA / NSA.
- CEX**
 Enhance customer experience by modelling different performance parameters and criteria, end-to-end.
- Cloud-native**
 PureLoad is optimised for virtual environments and can be licensed through several simple software models.

Specifications

- PureLoad supports an extensive range of protocols:**
 - IPv4 and IPv6
 - HTTP/1.1
 - HTTP/2
 - Asynchronous HTTP
 - Web Sockets
 - Telnet
 - SSH
 - File Transfer Program (FTP)
 - Network Utility (echo, Ping, DNS etc.)
 - Directory Server (LDAP)
 - Database (JDBC)
 - Mail (IMAP, POP3, SMTP)
 - SMS (SMPP)
 - SIP
 - MSRP
 - Generic Bootstrapping Architecture (GBA) Ua and Ub
 - Radius
 - Diameter (Rf, Rx, Gx, Gy, Zh, Zx, SWx, SWm, S6a/S6d, S6b, Sh, Sd)
 - RTP/RTSP/RTMP
 - HTTP Streaming, HLS (Apple), HSS (Microsoft), HDS (Adobe) and DASH (MPEG)

Simulate your subscriber base, using realistic content

PureLoad offers a full-stack implementation and realistic simulation of a real subscriber base for key applications, with real content, of varying payloads, for each user.

It also enables different sessions to be established, modelling what subscribers really do.

It can scale to extend to 10 million and more unique IP addresses. In live networks, this enables traffic to reach 500,000 HTTP/S transactions per second, with 250,000 new TCP connections/second.

Operated from an intuitive GUI, new test cases and schedules can be designed, executed, and analysed. Easily compare one scenario or test-run with another. PureLoad is the ideal solution for the continuous emulation of complex service scenarios, supporting rollout and in-service validation and assurance.