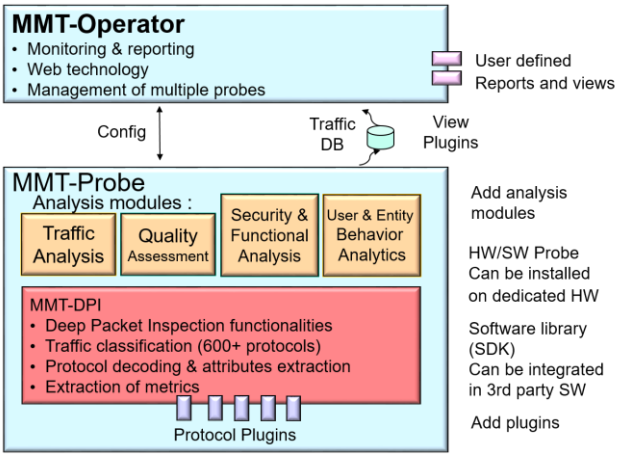
montimage
embrace reliability

montimage
monitoring tool

MMT (Montimage Monitoring Tool) is a monitoring solution that combines data capture, filtering and storage, events extraction and statistics collection, and, traffic analysis and reporting providing, network, application, flow and user level visibility. Through its real-time and historical views, MMT facilitates network performance monitoring and operation troubleshooting. With its advanced rules engine, MMT can correlate network and application events in order to detect performance, operational, and security incidents. An easy-to use customizable graphical user interface makes MMT suitable for different user needs.

Solution Overview

MMT is composed of four complementary, yet independent, main modules. **MMT-DPI** is the core packet processing module that analyses network traffic using Deep Packet and Flow Inspection (DPI/DFI) techniques to extract hundreds of network and application based events, measure network and per-application QoS/QoE parameters and KPIs. It is powered with plugin architecture for the addition of new protocols or structured messages and public API for integration in third party probes. **MMT-Security** is an advanced rule engine that analyses and correlates network and application events to detect performance, operational and security incidents. It is powered with self-learning capabilities to derive the baseline network and application parameters for dynamic threshold based analysis. **MMT-Probe** is a main application that captures packets, makes them available to MMT-DPI and MMT-Security, and receives resulting values (extracted metadata or statistics) to be used for creating and forwarding reports to MMT-Operator. **MMT-Operator** collects and aggregates extracted data, generates network and application statistics, and presents them via a graphical user interface. MMT-Operator is customizable; the user can define new statistics to be collected and configure new views or customize a large list of predefined ones. With its generic connector, MMT-Operator can be integrated with third party traffic probes.



MMT Features

- **Granular traffic analysis** capabilities through the ability to extract a wide range of network and application based traffic parameters and events (RTT, jitter, loss, HTTP response time, VoIP MOS, Video QoE, etc.)
- **Application classification** making possible the detection of applications using non-standard port numbers like P2P applications.
- **Powerful rule engine** that allows the detection of the occurrence of complex sequence of events that conventional monitoring does not detect. This can be used for example to monitor the access control policy (authorized users are authenticated prior to using a critical business application), for anomaly or attacks detection (excessive login attempts on the application server), advanced performance monitoring (identification of VoIP calls with QoS parameters exceeding acceptable quality thresholds), etc.
- **Configurable reports:** MMT traffic reports and charts are 100% configurable. The user can edit pre-configured reports and create new ones. Different chart types and graphs can be used including (pie, bars, XYcharts, Stacked area charts, sequence charts, tables, hierarchical tables, etc.).
- **Per application reports:** MMT is capable of decoding and analysing the message exchange of more than 150 widely used application protocols (HTTP, POP, SMTP, etc.). This gives a possibility to create application based reports. This can be useful for example to monitor the response time of an HTTP server, the variation over time of the quality of VoIP calls, or to draw the message exchange sequence with a business application.
- **Multi-platform solution:** MMT is available on Windows and Linux based distributions. It can be installed as software on commodity hardware or optimized for integration in dedicated probes.
- **Modular solution:** MMT is a modular solution composed of four components, MMT-DPI for the traffic processing and data decoding, MMT-Security for rules analysis, MMT-Probe for capturing traffic and generating reports, and MMT-Operator for the data aggregation, correlation and visualisation. It is possible to integrate MMT-DPI and MMT-Security in third party traffic probes and to connect MMT-Operator with existing systems.
- **High bandwidth analysis:** MMT can be deployed standard or dedicated computing systems. For instance, on a Raspberry Pi for low bandwidth traffic or multi-core servers (bandwidths of 10Gbps or more) using its parallelisation techniques (traffic splitting, DPDK…).
- **Monitoring virtualized environments:** MMT can also be deployed in highly distributed virtualized environments, such as OpenStack, SDN/NFV-based 5G network solutions, for performance and security analysis.

Contact information

Partnership plan:

Integration of MMT modules with your system

Demo request:

Send an email to contact@montimage.com

Highlights

Performance and operation monitoring

Network and application usage statistics

Application centric monitoring with Deep Packet/Flow Inspection and events extraction

Real-time and history reporting

Customizable views and creation of user defined reports

Multi-platform, modular solution

Integration with third party probes

Low or high-bandwidth traffic monitoring

Monitoring of virtualized environments