VeSion

Cloud-Based One System Platform

Bringing VeSion to the Network

VeSion integrates RF, Fiber, MPEG, Ethernet Monitoring, PNM, Sweep, Maintenance and Fulfillment solutions into "One" cloud-based platform. Results can be accessed anywhere, anytime and at any location.

Platform Highlights

- Flexible distributed architecture for easy expansion, increased reliability, and reduced system down time
- Secured IP connection for access from any location with Internet connection via Android and iOS mobile devices, web access or VeEX portable test sets
- Email, SMS, SNMP, Syslog notifications
- Interfaces with VeEX portable test sets to enable Sweep, Ingress and Digital Signal measurements for complete single person Return Path troubleshooting

Key Features

- Monitor RF (Return and Forward), MPEG, Ethernet, Fiber and PNM (Return and Forward)
- True Return Path QAM analyzer and tracer with Bursty QAM Demodulator
- Upstream testing qualification and troubleshooting
- Workflow, configuration, asset and test-data management, data enrichment and mapping
- Web, tablet or field meter access
- High resolution true non-interfering 5 to 1.8 GHz downstream sweep system with Manual and Automatic Gain & Slope Offsets
- Dark or Active Fiber Monitor to alert for changes on fiber including loss, microbend, reflectance or breaks
- On-demand Optical Fiber Testing: OTDR, VFL, OLS and OPM
- Geographic Information System (GIS)
- Continous monitoring and alarm reporting simplifies SLA management

Introduction

With the evolution of Cable networks, many services are now carried over them. Therefore the demand to maintain a high level of reliable services has increased significantly. To achieve this goal, an MSO's network maintenance staff seeks two important things:

- First, preventive network maintenance to detect plant issues before it becomes significant enough to impact subscribers.
- Second, correlate an identified issue to the physical location of the trouble source, which reduces troubleshooting and problem resolution time.

Further, to reduce OPEX and enhance subscriber experience, the network maintenance and fulfillment teams also need to make sure that the job is done right the first time. This reduces truck rolls and delivers reliable services to subscribers, ultimately increasing average revenue per user (ARPU) and retention.

With several test and measurement, monitoring and asset management systems available today, it is an additional challenge for MSO's to maintain these tools separately - keeping field meters up to-date, workflow and asset management and providing field technicians training.

Introduction *cont'd*

To address MSO challenges, VeEX's VeSion cloud-based one system platform, is the next step in innovation. It integrates VeEX's Preventive RF Monitoring (Return and Forward), Fiber, MPEG, Ethernet, Advanced DOCSIS Monitoring, DOCSIS Burst Demodulation, Sweep, PNM, Workflow and Asset Management systems all under one umbrella. This provides MSO's complete network visibility (VeSion) and reduces unnecessary Truck Rolls by alerting key personnel via SMS and/or emails to alarm conditions and location. In addition, VeSion links directly with an MSO's billing system, allowing them to pin-point the exact location of the DOCSIS cable modem problem.

With the one system platform, maintenance is easy and secure while reducing the effort to maintain several separate systems by MSO NOC teams. Integrated with the VeSion R300 server, it is the perfect workforce management tool to keep devices up-to-date in the field. Using the Internet, or mobile applications to VeSion, access to all of your results can be made anywhere, anytime and at any location.

VeSion reduces network troubleshooting and problem resolution time, thereby reducing operational expenses (OpEx):

- RF (Return and Forward)
- MPEG Monitoring (RF and Ethernet, Encryption detection, ETR 101 290)
- PNM (Return and Forward)
- Fiber monitoring can be maximize with upto 128 port high density Optical Switch
- Local On-demand testing for OTDR, OLS, OPM, and VFL
- Advanced Upstream Burst Demodulation and QAM analysis (Levels, MER, Un-Equalized MER, Codeword Errors and Group Delay)
- Carrier Class Ethernet testing and monitoring
- Sweep (Return and Forward)
- Workflow, configuration, Asset and Test-Data Management, Dispatch and Data enrichment system
- Supports GIS designed to capture, store, manipulate, analyze and manage geographic data

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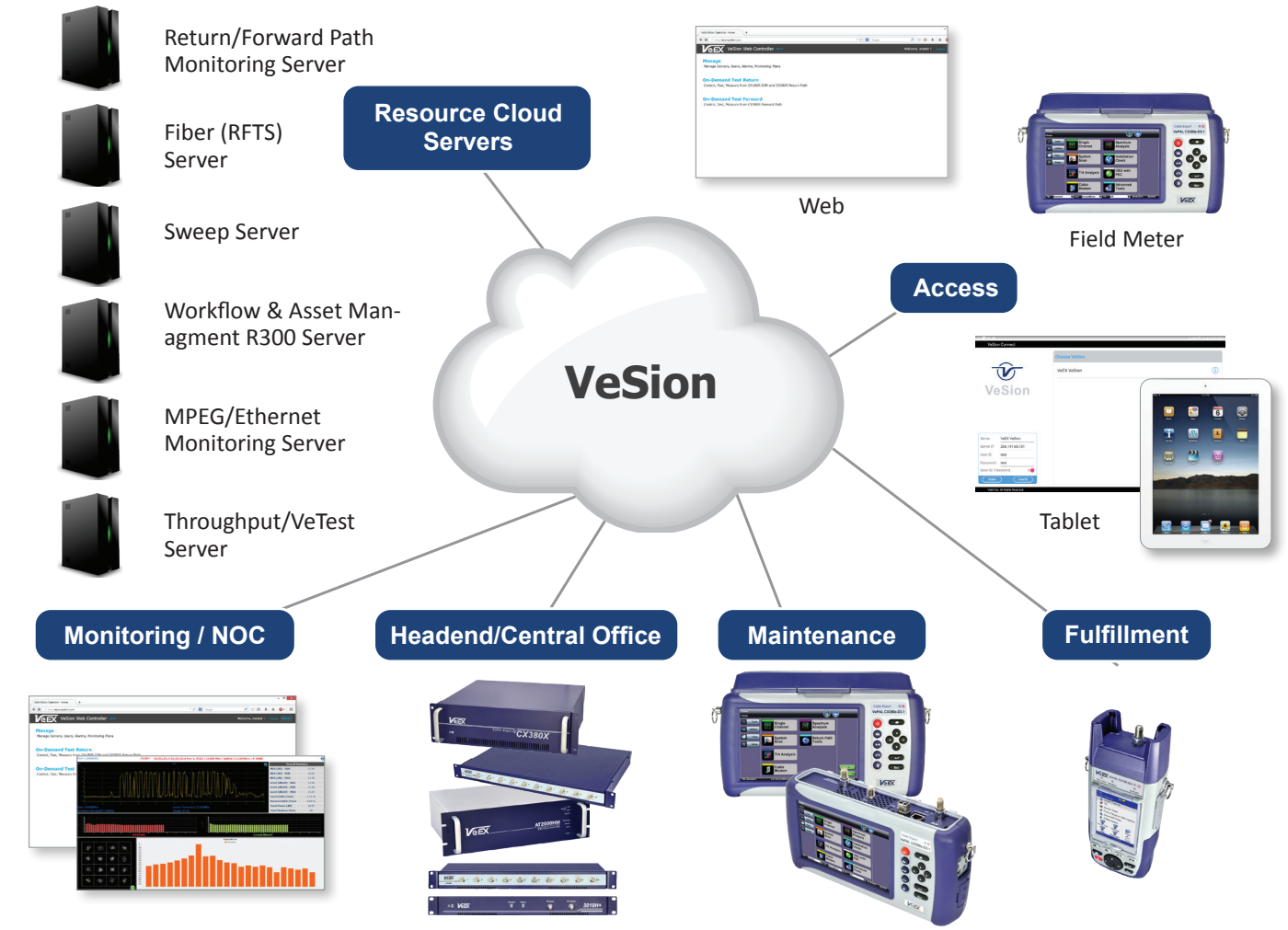

Results from anywhere, anytime, at any location

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