uSON PM is an umbrella performance management and reporting solution for Mobile Network Operators. Besides Radio, Core and Transmission network support custom sources like IN, VAS, Fixed Network Equipment, CEM and many others are also supported.

Root cause analysis and network monitoring are made easier and simpler because of the enhanced reporting function with high correlation capability from various data sources such as Performance Management, Configuration Management, Planning Data, Call Trace, Fault Alarms, Planned Maintenance Work etc.

- **Real-time reporting.** The data is visible within ~12 minutes after the data is generated at OSS.
- **Hardware Efficiency.** uSON ETL platform ensures resource efficiency while lowering H/W costs.
- **Cloud support.** The tool can be run in a public or private cloud-based secure infrastructure to enjoy the benefits of virtualized implementation like centralized maintenance and superior scalability and low TCO.
- **Fast integration.** Off-the-shelf parsers and flexible ETL pipeline provide faster integration of your mobile network including PM, CM, Trace, xCDR, Plan Data.
- **Flexible Web-based User Interface.** SQL and programming skills not required. User can customize reports by selecting any counter, parameter, configuration attributes. Rich graphic and grid options makes the worst cell analysis much easier and faster. State of the art reporting engine allows operator to measure user quality perception by end-to-end KQI calculation.
- **Built-in 2D/3D Map Interface.** GIS allows enhanced visualization of network elements as well as visualization serving distance of each 2G/3G/4G cells.

P.I.WEB Benchmark results after swap
Configuration: 115,000 cells in the network

- Faster PM Data: 4 times quicker
- Less Hardware: 3 times cheaper

P.I. Works provides centralized mobile network performance and capacity management solutions.

P.I. Works solutions assure lower costs for managing the network. They allow the existing network to be used more efficiently, minimizing capital costs for capacity expansion.

P.I. Works helps to improve the mobile subscriber experience.

**Domains in Scope**
- Radio Network
- Core Network
- VAS Nodes
- IT Systems
- Transmission NW
- Fixed Network
- Wi-Fi Systems
- Small Cells & Femto

**Data Types**
- Performance Logs
- Call Trace
- Configuration Data
- PM Logs
- Ticketing System
- xDR Data
- Plan data
- External System
SON Solution
uSON is a centralized automated network optimization solution. Adaptive learning algorithms are coordinated centrally to manage improvements to complex heterogeneous networks. uSON yields best subscriber experience, increased data throughput, while minimizing OpEx and improving utilization of network equipment leading to CapEx reductions by deferral.

RAN Troubleshooting
uSON Inspection is an advanced, easy to use interface for in-depth examination of the access network with root-cause analysis functions. Mobility analysis, advanced GIS functions timing advance visualization, CM vs PM correlation features, golden parameter audits features allow operator improve their engineering efficiency while minimizing drive-test costs and customer complaints.

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KEY FEATURES

- Shared network feature is a fully virtualized solution with shared data store, back-end ETL platform and services. Provides full data privacy between operators with accurate, segregation aware KPI evaluations.
- Fast integration with a large library of built-in technology packages for a wide range of vendors of RAN, core, and transmission equipment.
- Unified KPIs across vendors and technologies.
- KPI alarm module catches the real problems by advanced filtering and conditioning options, including thresholding and trend alarms.
- Multi technology support for GSM, UMTS, CDMA, WiMAX, LTE, TD-LTE, LTE-Advanced.
- Small cell ready.
- Umbrella FM Integration with Netcool, TeMIP, Maximo etc.
- Pay as You Go model provides short lead time to productivity, low TCO without long term investment.

SINGLE SOLUTION FOR ALL YOUR NETWORK NEEDS

There are 3 components to P.I. Works’ uSON PM Architecture: uSON ETL Platform, DB server, and the web server. uSON ETL Platform collects data from all sources of statistics (RAN, Core, VAS, etc.), parses the data format (data parsing), processes them and loads to the database. P.I. Works tools use this database for all operations on network data.