



Leadingpoint

Gain Simple, Transparent Control of your Radio Access Networks with **NetCell**

The modern network operator cannot offer the operational efficiency (and leverage the reduced expenses) they need to perform at their best without a comprehensive solution to help enhance network operations in place. Leading Point's cutting-edge NetCell platform streamlines the troubleshooting process, ensuring optimal network performance and efficiency where every network element and system performs effectively.

With NetCell as part of their operational solutions, network operators can unlock the power and precision they need to manage multi-vendor Radio Access networks the way their business and their customers require.

NetCell at a Glance

The **NetCell** 2G/3G/4G and 5G monitoring and troubleshooting solution provides network operators with a comprehensive view of their Radio Access networks. It helps to enhance network operations, streamline troubleshooting processes, and improve overall network performance across the board. By minimizing the time needed to resolve issues, increasing operational efficiency, and optimizing operational expenses, it significantly improves the effectiveness of network elements and systems.

Operators globally rely on **NetCell** to effectively manage their multi-vendor Radio Access networks, simplifying control over mixed-technology networks and monitoring key performance indicators (KPIs). With its capability to visualize multi-vendor networks as a unified system and provide detailed performance analysis, operators can promptly identify the root causes of problems and proactively manage troubleshooting for network alarms.



Solving Business Challenges in Radio Access Networks with **NetCell**

Nothing is more valuable to a network operator in the current market space than a comprehensive, easy-to-deploy solution that helps them take charge of their network operations, reduce associated costs, and ensure the very best service to their end clients.

NetCell addresses the key business challenges faced by operators with multi-vendor networks in effectively visualizing and proactively managing their operations. All while never losing sight of the need for an excellent customer experience alongside it.

By overcoming these challenges, **NetCell** helps operators mitigate service issues such as network misconfigurations or faults, high operational expenses, dependency on fragmented assurance systems, and the inability to swiftly adapt to fluctuations in network usage and performance.

Do these pain points feel familiar?



Maintaining separate monitoring tools for multi-vendor

networks: Monitoring tools are typically designed for specific technology and network vendors and are often used by separate teams. This robs operators of a comprehensive, correlated view of service, application performance, and network resource performance across their networks.



Degraded performance across networks: Traditional network monitoring tools offer isolated, domain-specific KPIs, often addressing only a fraction of the overall network's performance. This can make fault detection, particularly across diverse areas, networks, and domains, exceedingly complex, time-consuming, and resource-intensive.



Limited Visibility on Dealers and Distributors: Mapping service issues to network events is challenging and necessitates the involvement of multiple specialized teams for a comprehensive resolution. When operators lack a direct correlation between alarms and the root cause of the faults, it means increased operational complexity and manual data analysis. What they need instead is a way to simplify and automate analytics.



Intense infrastructure resource workloads: The cost factor for service assurance is a significant challenge for many network operators. Encompassing not only the expense of the tools themselves but also the infrastructure resources and manpower required to manage the workload, these costs can soon add up, unless a streamlined, simplified overarching tool is on offer to them.

NetCell will address all these issues— and many more— in one simple, functional, and yet highly powerful platform.

Who is **NetCell** Designed For?

This simple, yet powerful, network monitoring and troubleshooting solution is specifically designed for the needs of CTOs, network operations teams, and engineers in the telco space. It offers invaluable network control and insight for network maintenance teams and radio frequency optimization teams across the telecoms industry.



What Does **NetCell** Do for Network Operators?

What does **NetCell's** solution offer to network operators and their business ecosystem?

1 **Detection of Service Failures and Network Performance Degradation**

NetCell continuously monitors 2G, 3G, 4G, and 5G-NSA (non-standalone) environments for any deviations from expected service levels and performance thresholds. It quickly identifies where services are failing or when network performance is degrading, alerting operators to take necessary actions to rectify the issues promptly. With this shift from reactive to proactive solutions, operators can enjoy a simplified maintenance cycle and deliver higher Quality of Service to their end clients.

2 **Identification of Root Causes**

When issues arise within the network, **NetCell** goes beyond just detecting them. It also seeks to identify the underlying root cause. Whether it's related to equipment malfunctions, configuration errors, or other factors, **NetCell** provides invaluable insight into what is causing the problem, allowing operators to address it promptly and effectively.



3 **Analysis of Radio Access Networks**

NetCell conducts in-depth analysis of Radio Access clusters, monitoring their performance patterns on an hourly, daily, and peak-hour basis. This analysis provides operators with comprehensive insights into how the network behaves over different time frames, allowing them to make informed decisions and choose the needed optimizations effortlessly.

4 Optimization of Network Performance

A strong, reliable, and above all robust network performance is a crucial service offering for the modern network operator. **NetCell** optimizes network performance by generating reports on traffic balance, site configuration comparison, and congestion traffic. These reports provide operators with valuable insights into how their network is performing and where optimizations can be made to enhance greater efficiency and effectiveness.

5 Visualization of Voice and Data Service Performance

Through its intuitive visualization tools, **NetCell** gives network operators a crystal-clear picture of their voice and data service performance, network quality, and throughput. This visual representation makes it easier for operators to understand the current state of their networks and easily identify areas that require attention or improvement.

6 Tracking Network Configurations and Faults

NetCell also keeps track of network configurations (through configuration management, or CM) and compares network element faults (called failure management, or FM) across assorted network elements. This tracking capability ensures operators can maintain consistency in their network configurations and quickly identify any discrepancies or faults that arise.

7 Utilization of GIS Mapping

With GIS mapping capabilities, **NetCell** seamlessly integrates network layers from different vendors. This integration enables operators to visualize the network topology in a geospatial context, making it easier to manage and maintain. Additionally, it facilitates the addition of new frequency bands, carriers, cell scrambling codes, and cell neighbors without disrupting network operations.



How **NetCell** Benefits Network Operators

How can a network operator know if **NetCell** is the right product for their needs? Here are just a few of the key benefits **NetCell** brings to the table for telecom operators.

✓ **Vendor Agnostic: NetCell** is vendor-agnostic, so operators are never locked to only one solution. Adhering to strict 3GPP standard protocols and interfaces, **NetCell** seamlessly integrates with major vendors such as Huawei, Nokia, and Ericsson. Operators can unlock flexibility in their equipment selection and vendor partnerships, without sacrificing interoperability or functionality.



✓ **Versatility Across Technologies: NetCell** doesn't just allow for vendor versatility, but also versatility in the underlying technology. Able to accommodate multiple generations of mobile technologies, including legacy 2G, 3G, 4G, and 5G networks, this comprehensive support ensures that operators can always manage and monitor their entire network infrastructure regardless of technological evolution.



✓ **Comprehensive Analysis and Troubleshooting: NetCell** allows for in-depth network and service performance analysis, tightly integrated with advanced troubleshooting tools for root cause analysis (RCA). Operators will receive actionable insights into their network behavior, enabling proactive identification and resolution of performance issues—before they become a problem.

✓ **Simplified Site Management: NetCell** streamlines operators site management processes by simplifying the implementation of new sites and updates. Operators can efficiently track information changes across the network, ensuring accurate and up-to-date configuration management for better operational efficiency.

- ✓ **Operational Efficiency and OPEX Optimization:** What's better than an efficient, optimized network? One with reduced OPEX needs as well! By automating complex network monitoring and management tasks, **NetCell** helps operators optimize their operational expenses. With less time and resources required for routine maintenance activities, operators can focus on strategic initiatives and service enhancements instead.
- ✓ **Faster Problem Resolution:** Swift problem resolution is the core of any business model. **NetCell** will vastly shorten the Mean Time To X (MTTx) cycle through correlated troubleshooting. By correlating data from multiple sources and analyzing it in real-time, operators can quickly identify and address network issues, minimizing service disruptions and customer impact.

The Power of Tailored Dashboards and Reporting

Further to these exciting features, **NetCell** offers the flexibility to tailor dashboards and performance reports to suit each operator's diverse technologies and network elements. **Netcell** works seamlessly with all interfaces within its supported mobile networks and protocols. Operators can customize their dashboards and reports to focus on specific technologies, network elements, or performance metrics— fully tailored to the unique needs of each operator.

Take, for example, **NetCell's** customized data aggregation reports. Tailored to each operator's specific requirements, operators can build reports based on criteria that matter to them, including time and date intervals for specific analysis periods, statistical parameters, network geographical regions (such as clusters), and specific KPIs.

With this versatile adaptability, operators are empowered to analyze their specified network performance trends for informed decision-making and simpler optimization efforts.



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Telcos ready to embrace everything **Sales Point's** platform has to offer their business can reach out to Leading Point's team today. Leading Point's helpful, experienced consultants will help design the perfect solution for any Telco business' needs.



Explore **NetCell** in Greater Depth

What functions can network operators using **NetCell** look forward to? Here is an overview of the key features that power **NetCell's** network management platform.



Customized Key Performance Indicators (KPIs)

NetCell empowers operators to individually tailor KPIs. This includes customizations such as adding, modifying, or removing KPIs across multiple networks and vendors. This flexibility ensures that operators can effortlessly align their performance metrics with their network requirements and business objectives. By taking control of the measured KPIs, operators will gain deeper insights into their network performance. Effectively measured and optimized performance against targeted goals is just a few clicks away.



Self-Optimized Networks (SON) Reporting

NetCell unlocks true network optimization through self-optimized network functionality (SON). This feature provides comprehensive insights into each technology and vendor the operator is using. In turn, **NetCell** facilitates easy tracking of network performance based on the operator's predefined criteria. Easily monitor aspects such as 4G balancing, PCI confusion, and congestion reports. When operators can leverage SON capabilities, they can proactively identify and address network performance issues, optimizing network efficiency and service quality.



GIS Mapping

NetCell also offers GIS mapping functionality, enabling spatial visualization in multi-vendor, multi-network environments. This supports data analysis and decision-making throughout the network planning, deployment, and optimization lifecycle. By visualizing network elements as a map, operators gain a clear understanding of their network topology, coverage areas, and optimization opportunities. GIS mapping provides valuable insights into the geographical factors that impact network performance and service delivery.



Enhanced Network Configuration Management

NetCell will strengthen network configuration management by taking control of the monitoring, importing, and distributing of configurations across the network infrastructure. This ensures that configurations are accurately maintained and that they are always aligned with operational requirements. By centrally managing configurations, operators can streamline their network operations, minimize configuration errors, and maintain strong network consistency and reliability.



Improved Fault Management

NetCell empowers operators with more effective fault management by tracking faults across their technologies and vendors. This means operators can identify, diagnose, and resolve network issues promptly. With the power of centralized fault tracking, operators gain visibility into network-wide issues. This means that timely remediation actions are easier than ever, ensuring network reliability, minimized service disruptions, and a seamless user experience.



Configuration Discrepancy Tracking

NetCell enables operators to compare and track network configuration discrepancies against reference anchor cell/site templates, making proactive detection of misconfigurations and optimized network performance a reality, not a dream. Operators can track configuration changes over time and identify potential root causes of service degradation to maintain network integrity and ensure optimal performance no matter what.



Comprehensive Reporting

NetCell offers pre-configured dashboards and KPIs specially tailored for 2G/3G/4G and 5G networks. These dashboards showcase essential network and service KPIs, fully customizable based on vendor, operation, technology, and cell-specific parameters. With a full picture of accessibility, mobility, integrity, availability, and utilization KPIs, operators can always access actionable insights into their network performance and overall service quality.


For network operators in need of an easy-to-deploy, intuitive, and yet powerful one-stop solution to their network management needs, **NetCell** is ready to get to work. It's time to redefine how the world approaches Radio Access network management. With Leading Point's expert team to help, network operators can look forward to simple, better, and more powerful network management functionality with **NetCell** today.

CONTACT US




Contact Our Team of Experts

For more information about our services and solutions or to reach out to us with any queries that you may have, please get in touch.




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