



## NetCracker–NEC Wireless Broadband Solution

### End-to-End Solution Helps Mobile Operators Streamline Operations, Optimize Investments, and Monetize Wireless Broadband

The promise of wireless broadband brings new opportunities and challenges. The next generation of mobile infrastructure involving Femtocells, WiMAX, and LTE will be the foundation for delivering innovative services such as live broadcasts, rich media content, and multi-media gaming. It offers unprecedented opportunities to enter new markets, offer a diversity of services, and cost-effectively meet the bandwidth and quality needs of mass market and business customers.

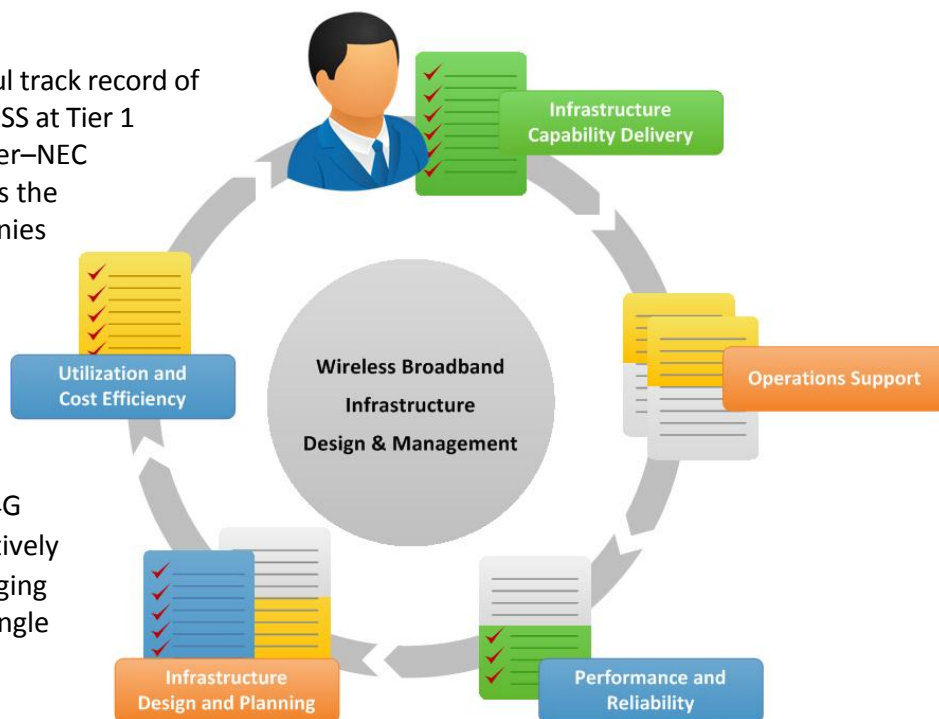
With these new opportunities come the challenges of rolling out the new infrastructure in the most cost-effective manner, operationalizing it quickly, and managing it optimally. These challenges can only be met when the hardware component of the infrastructure comes well-integrated with the Operations Support System (OSS) software for service management.

The NetCracker–NEC joint solution for Wireless Broadband is designed to deliver this key benefit to mobile operators. It brings about rapid monetization of the infrastructure (whether Network or IT) by enabling rapid deployment and provisioning of value-added services. NetCracker's decade-long experience enabling mobile operators to maximize their return on investment, combined with NEC's cutting-edge Femtocell, WiMAX, and LTE innovations, ensures that wireless broadband can become the foundation for growth for service providers around the world.

#### Customer Benefits

NetCracker and NEC have a successful track record of deploying proven Next-Generation OSS at Tier 1 operators worldwide. The NetCracker–NEC Wireless Broadband solution merges the domain expertise of the two companies and enables mobile operators to:

- Rapidly plan, design, and rollout Femtocell, WiMAX, and LTE
- Cost effectively operationalize, optimize, and manage networks from end to end
- Manage a seamless transition to 4G
- Introduce new services cost effectively
- Save on CapEx and OpEx by managing Network and IT domains from a single platform



### Wireless Infrastructure Design, Planning, and Deployment

The NetCracker–NEC Wireless Broadband solution enables the rapid rollout of infrastructure and services and addresses key elements of infrastructure deployment including:

- Wireless network design and planning (taking into account blind zone detection)
- Site rollout and network build-out
- Infrastructure and service migration

### Operationalize, Optimize, and Manage

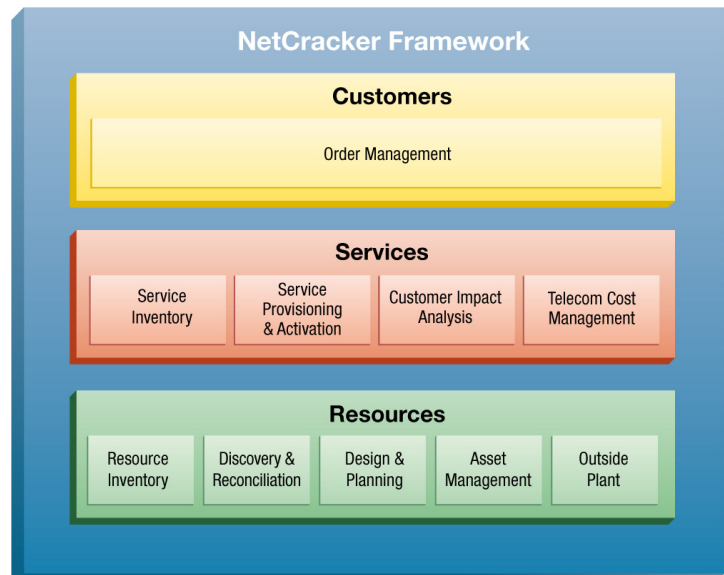
High-capacity, high-performance mobile networks will put new demands on activation, provisioning, and service management functions. The NetCracker–NEC Wireless Broadband solution has been designed with the complexity of these networks in mind and enables:

- Resource lifecycle management and network infrastructure change process management
- End-to-end fulfillment and provisioning
- Management across both Network and IT domains
- Flexible service management and service assurance
- Cost-effective rollout of new services and service bundles

### NetCracker’s Next-Generation Operations Support System

Next-generation OSS is the foundation for monetizing investments in the next-generation mobile infrastructure. A next-generation OSS — like NetCracker’s — must be able to activate, provision, and assure the infrastructure from Layers 1–7. It must be scalable and modular to provide the flexibility needed to add any new device — whether in the network or at home. And it must provide a full suite of capabilities from Order to Activation including:

- **Resource Inventory:**
  - Physical and logical network models
  - Wireless and mobile network and process models
  - IT infrastructure modeling
  - Data network/IP Address management
  - Capacity management for Network, IT, IT infrastructure, data centers, and software applications
- **Design & Planning:**
  - Site design and rollout
  - Reporting capabilities to support trend analysis of network growth and to gather resource usage statistics
- **Discovery & Reconciliation:**
  - Radio, Transport and Core Network management
  - Mediation dataflow



NetCracker product modules form part of a pre-integrated solution that can be extended with other pre-integrated NetCracker functionality for fulfillment, assurance, product, and service lifecycle management as well as IT network management.