



## NetCracker Infrastructure Solutions

### Accelerating Infrastructure Monetization

Communication Service Providers (CSPs) are actively pursuing ways to deploy new products and services in a cost-effective manner while using a common core and access infrastructure. In addition to NetCracker's Product and Services Industry Solutions, NetCracker Infrastructure Solutions are now available. The Infrastructure Solutions provide out-of-the-box tools for managing access and aggregation networks for multiple types of technologies and architectures.

NetCracker Infrastructure Solutions are a pre-configured assembly of data models and business processes designed and built capitalizing on NetCracker's worldwide implementation experience. Our Industry Solutions are built on top of the NetCracker Framework and Product Modules.

#### Infrastructure Challenges

##### Challenges

- Rapid roll-out of new services
- Rapid network evolution
- Co-existence of legacy and NGN
- Multi-vendor equipment and solutions
- Customized in-house support approach

##### Requirements

- Flexible configurations and data models that can be shared
- Low-cost integration
- Recognized process framework
- Ability to include legacy environment and services

#### Solution Description

NetCracker Infrastructure Industry Solutions support the following technologies and architectures:

- FTTx / xPON / Active Ethernet
  - Fiber to the Home
  - Fiber to the Building
  - Fiber to the MTU/MDU
  - Fiber to the Cabinet
  - Fiber to the Curb
  - Fiber to the Neighborhood
- PON
  - BPON
  - EPON
  - GPON

- xDSL
  - ADSL
  - ADSL2
  - ADSL2+
  - VDSL
  - VDSL2
- HFC
  - Metro Ethernet

#### The Offer

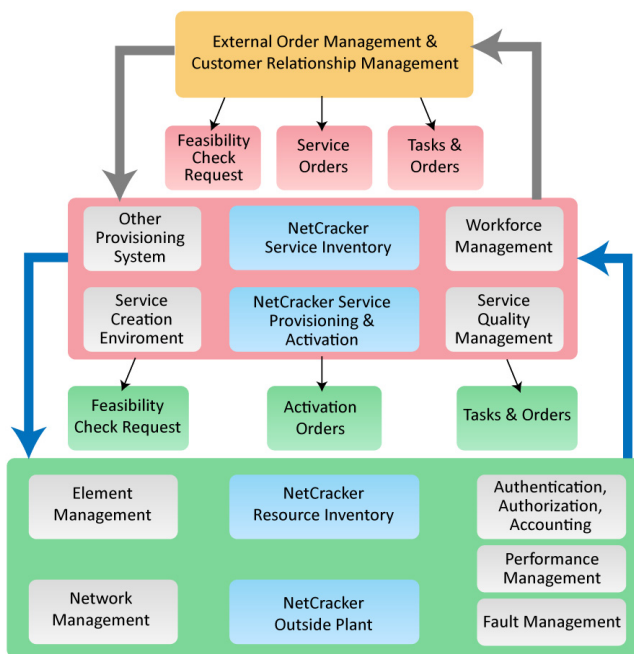
NetCracker Infrastructure Solutions provide functionality at the Service and Resource Levels that enables:

- Resource feasibility check
- Configuration and activation of resource-facing services
- Physical and logical resource inventory
- Resource management capability including capacity management and number management
- Integration points (API) with external Customer, Service, and Resource Level Management systems for building a complete end-to-end OSS environment

NetCracker Infrastructure Solutions are an assembly of pre-configured data models and business processes built on top of the following NetCracker Product Modules:

- **Service Inventory**
  - Service Catalog
  - Service Instance Repository

- **Service Provisioning & Activation**
  - Resource Provisioning and Service Activation
- **Resource Inventory**
  - Inside Plant Management
  - Capacity Management
  - Number Management
- **Outside Plant**
  - Outside Plant Management
  - Integration with GIS



## Benefits

Our Infrastructure Solutions are based on NetCracker's industry-proven software and implementation expertise, and include three components that are critical for achieving CSP business objectives:

- **Software:** proven, highly scalable, best-of-breed software that includes service and resource management for network and IT infrastructure, and IMS/SDP enablement
- **Professional Services:** an experienced solution delivery team to help with all phases of an OSS transformation project
- **Expertise:** subject matter experts who have deep experience with OSS, CSP environments and technologies, and NetCracker software

Specifically, the NetCracker Solutions are based on:

- Comprehensive Functional Capabilities in resource management enabling:
  - Centralized management of current network configurations
  - Support for fulfillment
  - Physical and logical inventories
  - Extended capacity and number management capabilities
  - A vast technological domain spanning access and aggregation network technologies (xDSL, FTTx/xPON, HFC, Metro Ethernet)
- Architectural Design
  - A layered solution with a distinction between the Resource Layer providing network data and the Service Layer providing inventory of the resource-facing services as well as their configuration and activation
- Solution Composition
  - A pre-configured assembly of data models and business processes designed on the solid foundation of NetCracker's implementation experience and built on top of the NetCracker Product Modules

## Standard Features of NetCracker Industry Solutions

- Product and Service Catalog templates
- Technology models for resources
- Device Library equipment templates with basic configuration rules
- Ordering templates for new, change, disconnect, supplemental, in-flight order changes and jeopardy/escalation/fallout management
- Service configuration, service activation flows
- Analytic reports
- Best practices for solution implementation
- Use cases