

# Openet Dynamic Context Router

To accommodate accelerating demand for bandwidth, operators are introducing additional policy, charging, Home Subscriber Server, authentication, roaming, subscriber information, and mobility management nodes. These nodes interact constantly to provide a coordinated set of functions that enable advanced network resource management and charging models.

The result is an complex “mesh” of connections between the various network elements. This presents operators with significant routing and routing management issues, which are further complicated when subscriber data is physically and geographically distributed. It becomes increasingly difficult to efficiently manage the traffic associated with these routing decisions—e.g. to ensure Diameter messages have robust overload controls—and maintain low latency session set-up times.

Openet Dynamic Context Router (DCR) is a high performance, context sensitive infrastructure appliance product that relieves policy, charging, profile and other network nodes of routing, traffic management, and load balancing tasks. Fully 3GPP compliant, DCR also provides a powerful ability to make dynamic routing decisions based on changing network context.

## INTELLIGENT ROUTING MADE SIMPLE

DCR is an appliance that enables an intelligent routing infrastructure with the capability to make real time routing decisions based on dynamic changes within the network. DCR provides robust and complex routing logic, supporting load balancing, Rx/Gx binding, and inter-network roaming. Sophisticated routing decisions can be made by enriching logic with dynamic network information. Changes to routing configuration can easily be made—making it adaptable to changing business needs—by enabling both predefined rules to be updated and new rules to be introduced.

## DESIGNED FOR HIGH PERFORMANCE

DCR provides operators a clear and robust strategy to achieve control plane scalability. It does this by removing routing, traffic management and load balancing tasks away from individual applications, and centralizing them in a single intelligent node. This both removes transaction overhead from diameter applications and simplifies capacity management decisions. DCR uses a multi-threaded load balancing architecture, designed to scale to handle thousands of transactions per second, with low latency. It combines these capabilities with comprehensive system statistics, queue management and alarm threshold management, to offer robust operations management. It supports automatic failover between diameter applications for high availability operations.

## SIMPLIFIES TRAFFIC MANAGEMENT

By providing a single interconnect point to multiple diameter applications and network elements, operators are afforded an opportunity to simplify diameter routing rules. With comprehensive support for next generation diameter applications, it facilitates topology hiding such that partner networks or diameter applications need only be aware of the DCR component without the complexity of the many-to-many relationship. For example, the addition of a new Policy Control and Charging Rules Function to the network becomes a relatively easy task, which does not require any network reconfiguration.

## A PROVEN FOCUS ON THE NETWORK EDGE.

Unlike many providers that support broad, bundled software suites, Openet remains strongly focused on network-edge solutions that extract increased business value from network activity. Combining highly specialized Solution Delivery engagements with our industry-leading event-processing and transaction management software platform, Openet enables today's service providers to rapidly introduce new services, while cost-effectively managing services already in market.

## OPENET PRODUCT SUITE

Across the globe, the world’s largest and most innovative service providers rely on Openet to enable new business models, decrease operating costs, and consolidate infrastructure in converged environments.

Openet’s comprehensive, integrated product portfolio delivers the highest levels of performance and scale, along with optimal configuration flexibility to support new data, content, and multimedia services. Openet integrates seamlessly on any network, ensuring high reliability and low latency while processing billions of daily transactions for the world’s largest communications service providers.

## THE OPENET FRAMEWORK

### Industry Leading Flexibility and Performance

All Openet products are built upon the Openet Framework, delivering unsurpassed event and transaction processing performance at tier one carrier-grade scale combined with unlimited flexibility over system and service configuration. By leveraging a common transactional platform, Openet ensures that all products maintain industry-leading performance and scale, and allows customers that deploy multiple Openet solutions to benefit from operational efficiencies realized through a common set of administration and configuration capabilities.

## SERVICE OPTIMIZATION SOFTWARE

Openet’s Service Optimization Software solutions—built upon the Openet Framework—extract maximum business value from the activity on service provider networks, activity that is continually increasing in both quantity and complexity. Our solutions accomplish this by allowing service providers to personalize and monetize services, and gain both visibility into, and control over service usage and network resources.

### Make the Most of Every Network and Customer

With Service Optimization Software, your organization can deploy new business models to increase revenue, streamline operations to lower costs, and gain greater customer insight—all by managing the activity and transactions produced by your network. As a result, you can introduce new services, pricing models, and promotions with greater customer focus to better improve adoption and grow average revenue per user (ARPU). What’s more, you can do so more cost-effectively, more quickly, and more profitably than ever before.

### A PARTNER TO LEADING SERVICE PROVIDERS WORLDWIDE.

Openet implementations include long-running engagements with the world’s leading service providers, including Verizon, AT&T, BT, and Orange.

