

Solution Brief

At its core, Policy Control is about optimizing the management of the service providers' network assets to ensure the expected end-user experience for consumers.

Effective policy control is the key for communication service providers that are looking to profitably manage the explosive growth in data traffic while creating a profitable services segmentation offering and the best possible user experience.

Ensuring fair usage and allocating bandwidth based on a combination of subscriber and service criteria is essential but challenging in a highly volatile multi-vendor environment shaped by constant need to update market offerings, introduce new services and technology.

PolicyZone from DigitalRoute® is a leading edge Policy and Charging Control solution for 3GPP and non-3GPP environments.

PolicyZone is designed to meet the most stringent requirements on scalability, availability and flexibility.



Cost Efficiency - Minimized overlap with existing infrastructure through modular and high performance architecture. Combined PCRF function with Online Mediation.

Flexibility - Rule handling based on any parameter e.g. network type, location zone, service, customer profile and usage level.

Independence - Network and vendor independent interfaces towards all external systems.



Bandwidth Boost



Location Based QoS



Application Specific Traffic Steering



Tier Based QoS



Manage Network Congestion



Roaming Access Control



Parental Control



Billshock Prevention



Flexibility - the key to success

A key requirement for Policy and Charging Control is flexibility. Standards are constantly evolving and the diversity of network interaction as well as the construction of policies requires a solution that can rapidly adapt to changing conditions and environments.

PolicyZone configuration is performed in an easy to use web GUI and the database model is integrated with an open workflow engine enabling rapid adaptation of the deployed solution.

PolicyZone is fully vendor independent and supports integration via standard or proprietary policy control protocols including Diameter applications (e.g. Rx and Gx).

The modular design and the availability of a development toolkit (DTK) forms an open interface framework that gives users of PolicyZone full control over the implementation.

Cost Efficiency

The modular architecture of PolicyZone enable service providers to optimize the re-use of existing infrastructure components and avoid functional overlaps.

Existing Online Charging Systems and databases can be integrated as an alternative or complement to the profile repository in PolicyZone.

Use Cases

PolicyZone is designed to address a wide range of use cases to enable and control services including:

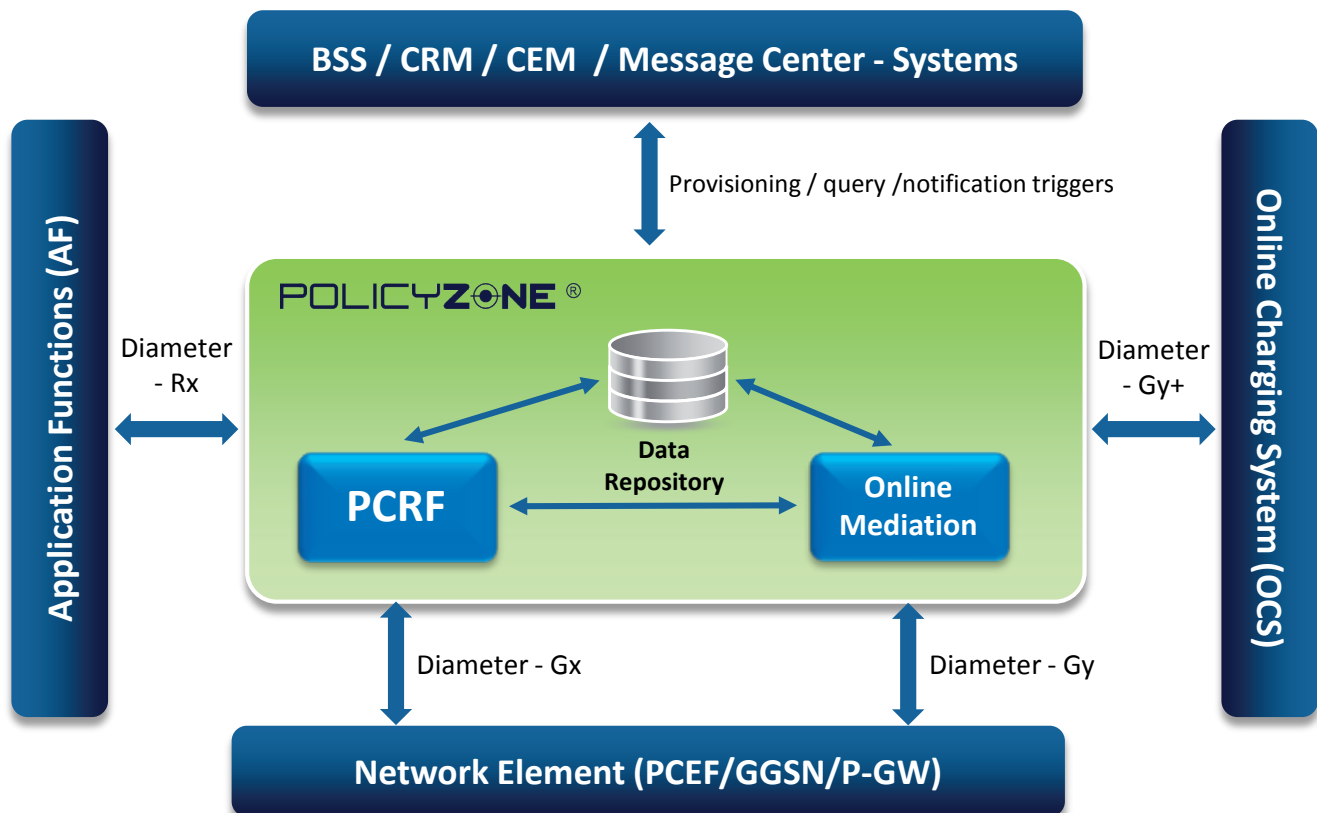
- Application-specific traffic steering
- Time limited bandwidth boost
- Bills shock prevention
- Manage core- and access network congestion
- Fair usage (volume threshold)
- Location based QoS
- Online Charging
- Parental control
- Roaming Access control
- Shared usage (multiple SIM-cards)
- Subscriber Tier based QoS

PolicyZone is configurable in runtime to support additional use cases that is required in the customer solution.

Carrier Grade Performance

PolicyZone is built on the same platform as the carrier grade MediationZone® from DigitalRoute.

Policy transactions in PolicyZone are handled by a high-performance, high-availability workflow engine that provides unlimited scalability through a distributed execution environment.



3GPP deployment example

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