

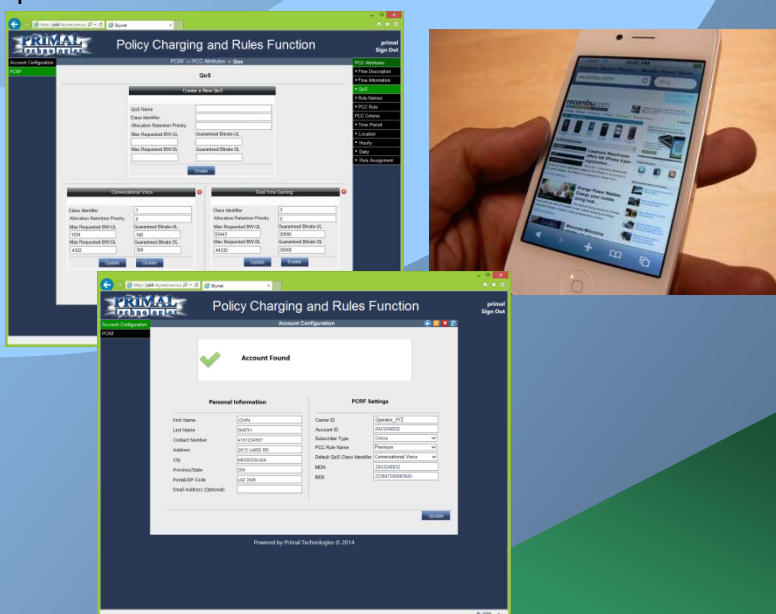
## Policy and Charging Rules Function (PCRF)

Wireless operators are increasingly rolling out more expansive rate plan bundles including Voice, Text, MMS, Data, Roaming and Email plans together with a variety of Smart phones to further differentiate themselves to attract and retain subscribers.

As the number of subscribers using Smart phones continues to increase, together with the popular introduction of inexpensive data rate plans, demand for data usage will continue to grow rapidly. To keep pace with this data traffic growth, carriers will continue to build out their network, deploy newer technologies and place more importance on policy management mechanisms to maintain a sufficient level of network data access and integrity, especially during high traffic periods.

Primal Technologies' PCRF supports a variety of policies to allow the wireless operator to manage and control the data usage across their wireless network, thereby ensuring fair and equitable access to the network for their subscribers.

Primal Technologies can provides 3GPP DIAMETER policy management together with one or more other Primal Open Services Platform (OSP) advanced wireless services on an efficient number of hardware platforms.



## PCRF Features

- 3GPP PCRF 29.212 Gx interface Support
- IP / URL address and port traffic flow descriptions
- QoS Uplink and Downlink controls
- Tiered policy service control
- Hourly and Daily threshold fair usage triggers (downlink, uplink, or both) and different IP traffic types
- Date/Time and Day of Week/Time based PCC Rules
- Community QoS template
- Location-based QoS Assignment
- External SPR Integration (DIAMETER, LDAP, SQL, Web/XML)
- Integration with 3<sup>rd</sup> Party OCS over Sy interface
- SMS and/or Session Redirection to Alert page when policy threshold encountered
- Network Congestion Control mechanisms including "On-the-fly" Precedence, QoS Assignment, or Percent Scaling of Uplink rate, Downlink rate, or both
- Complements Primal MMS Server used for peer-to-peer messaging and content downloads
- Works together with Primal OCS for enhanced policy control based on bucket size and usage

## Skylight / Skynet Integration

- Create QoS template for subscriber data management policy definition
- Provisioning of Daily / Monthly Policy Management threshold, actions
- View / and Auto/Manual Reset subscriber policy threshold status
- At a glance view of current data network usage (e.g. granted last hour, granted this hour)
- Daily and Monthly reports on subscriber data usage and policy trigger activity