

Two licenses are offered as part of the Cisco 7600 GGSN Router. These licenses are broken down into Basic and Premium feature sets. The table below shows how features are allocated to each license type.

**Table 1.** Cisco 7600 GGSN Router Feature Matrix

Category/Feature	Basic	Premium
<b>APN</b>		
Basic APN handling	X	X
Non-transparent access mode	X	X
PCO handling	X	X
Transparent access mode	X	X
Static Address allocation	X	X
GGSN Anonymous Access	X	X
GTP director	X	X
Virtual APNs	X	X
Session Idle Timeout configurable per APN	X	X
Multiple APN per VRF	X	X
Real APN selection using RADIUS		X
<b>Availability</b>		
7600 NSF/SSO	X	X
GTP session redundancy dual chassis	X	X
PSD support		X
<b>Charging</b>		
GTP'v0 R98	X	X
GTP'R98	X	X
CG reconnect over UDP	X	X
R99 Charging and R97/R98 Charging	X	X
Charging Profiles	X	X
Charging Profile selection via RADIUS	X	X
eGGSN: Diameter CLCI support		X
eGGSN: Enhanced G-CDR content		X
Switch back to Primary CG	X	X
Time Trigger for G-CDR generation	X	X
RAT and PLMN id triggering		X
<b>Addressing</b>		
External DHCP address allocation	X	X
IP Address Hold Back Timer		X
<b>GTP</b>		
GTPv0 R97	X	X

Category/Feature	Basic	Premium
Dynamic Echo Timer	X	X
GTPv0 R98	X	X
Support of GTPv1 and GTPv0	X	X
<b>Inter-working</b>		
2.5G/3G Interworking (Intersystem RA, QOS Mapping)	X	X
<b>Load-Balancing</b>		
GTP Server Load Balancing	X	X
APN aware load balancing	X	X
IMSI stickiness	X	X
<b>Management</b>		
SNMP MIB support	X	X
Trap rate limiting	X	X
Maintenance Mode	X	X
Per-APN and per-SGSN Performance Metrics	X	X
<b>Performance/Scalability</b>		
CEF switching	X	X
GGSN VRF Capacity increase	X	X
Support of MWAM 1GB	X	X
<b>Platform</b>		
SUP32 support for 7600	X	X
SUP720 support for 7600	X	X
IPSec Support	X	X
<b>Policy Enforcement/ QOS</b>		
IMS Support		X
<b>QoS</b>		
Basic QoS support	X	X
QOS UMTS 4 Classes of Services	X	X
Call Admission Control		X
Per-PDP Policing		X
<b>RADIUS/AAA</b>		
RADIUS Authentication and Accounting	X	X
3GPP vendor specific attributes	X	X
Class attribute support	X	X
RADIUS Accounting Interim-Update	X	X
RADIUS packet of disconnect	X	X
Wait for Accounting Response	X	X

Category/Feature	Basic	Premium
Accounting in transparent mode	X	X
Per secondary PDP accounting	X	X
Session-Idle timeout attribute support	X	X
Configurable RADIUS Attributes User-Name and Acct-Session-Id	X	X
AAA Troubleshooting and Management Enhancements	X	X
<b>Routing</b>		
Route Aggregation	X	X
Network behind mobile		X
Route probe	X	X
Overlapping IP address support in VRF	X	X
<b>Security</b>		
Blocking of Foreign MSs		X
IP address duplication protection		X
IP address protection		X
ACL per APN	X	X
Redirect All MS traffic	X	X
Gn support in a VRF	X	X
Multiple Trusted PLMN ID	X	X
<b>Subscriber/PPP/PDP</b>		
PPP Regeneration		X
PPP Regeneration/L2TP Tunneling (Overlapping IP included)		X
HSDPA support		X
Multiple PDP activation on same APN protection	X	X
<b>VPN</b>		
APN linked VRF/VPN	X	X