

## Table of Contents – Carrier IP Telephony

	<b>Page No.</b>
<b>Executive Summary</b>	
Significant Changes .....	1
Overview .....	1
Definitions .....	3
Vendor Product Maps .....	8
Methodology .....	10
<b>Worldwide Tables (Mfg. Revenue, Licenses/Channels/Sessions and/or Units, Mfg. ASP)</b>	
Table 1: Worldwide Carrier IP Telephony Market – Total (Softswitch + Media Gateway + SBC + VAS + IMS Core + Legacy MSC).....	1
Table 2: Worldwide Carrier IP Telephony Market – Wireline (Softswitch + Media Gateway + SBC + VAS + IMS Core).....	3
Table 3: Worldwide Carrier IP Telephony Market – Wireless (Softswitch + Media Gateway + SBC + VAS + IMS Core).....	5
Table 4: Worldwide Carrier IP Telephony Market – VoLTE (SBC + VAS + IMS Core).....	7
Table 5: Worldwide Carrier IP Telephony Market – VoLTE by Non-NFV and NFV (SBC + VAS + IMS Core).....	8
Table 6: Worldwide Softswitch Market – Total.....	12
Table 7: Worldwide Softswitch Market – Wireline .....	13
Table 8: Worldwide Softswitch Market – Wireline – Subscriber Licenses by Application .....	14
Table 9: Worldwide Softswitch Market – Wireless .....	15
Table 10: Worldwide Softswitch Market – Wireless – Licenses Shipments by Application .....	16
Table 11: Worldwide Media Gateway Market – Total .....	17
Table 12: Worldwide Media Gateway Market – Wireline .....	18
Table 13: Worldwide Media Gateway Market – Wireless .....	19
Table 14: Worldwide Media Gateway Market – Wireless – Channel Shipments by Application .....	20
Table 15: Worldwide Session Border Controller Market – Total .....	21
Table 16: Worldwide Session Border Controller Market – Wireline.....	22
Table 17: Worldwide Session Border Controller Market – Wireless (VoLTE) by Non-NFV and NFV.....	23
Table 18: Worldwide Voice Application Server Market – Total .....	24
Table 19: Worldwide Voice Application Server Market – Wireline.....	25
Table 20: Worldwide Voice Application Server Market – Wireless (VoLTE) by Non-NFV and NFV.....	27
Table 21: Worldwide IMS Core Market – Total.....	28
Table 22: Worldwide IMS Core Market – Wireline .....	31
Table 23: Worldwide IMS Core Market –Wireless (VoLTE) by Non-NFV and NFV (CSCF + HSS) .....	32
Table 24: Regional Carrier IP Telephony Market – Wireline & Wireless – Licenses .....	36
Table 25: Regional Softswitch Market – Wireline & Wireless – Licenses .....	38
Table 26: Regional Media Gateway Market – Wireline & Wireless – Channels.....	40
Table 27: Regional Session Border Controller Market – Wireline & Wireless (VoLTE) – Sessions .....	42
Table 28: Regional Voice Application Server Market – Wireline & Wireless (VoLTE) – Licenses .....	44
Table 29: Regional IMS Core Market – Wireline & Wireless (VoLTE) – Licenses.....	46
<b>Vendor Tables</b>	
<b>Carrier IP Telephony Market – Total (SS + MGW + SBC + VAS + IMS Core + Legacy MSC)</b>	
Worldwide – Total – Mfg. Revenue .....	48
<b>Carrier IP Telephony Market – Wireline (SS + MGW + SBC + VAS + IMS Core)</b>	
Worldwide – Total – Mfg. Revenue .....	49

## Table of Contents – Carrier IP Telephony

	<b>Page No.</b>
<b>Carrier IP Telephony Market – Wireless (SS + MGW + SBC + VAS + IMS Core)</b>	
Worldwide – Total – Mfg. Revenue .....	50
<b>Carrier IP Telephony Market – VoLTE (SBC + VAS + IMS Core)</b>	
Worldwide – Total – Mfg. Revenue .....	51
<b>Carrier IP Telephony Market – VoLTE by Non-NFV and NFV (SBC + VAS + IMS Core)</b>	
Worldwide – Total – Mfg. Revenue, Licenses, Mfg. License ASP .....	52
Worldwide – Non-NFV – Mfg. Revenue, Licenses, Mfg. License ASP .....	55
Worldwide – NFV – Mfg. Revenue, Licenses, Mfg. License ASP .....	58
<b>Softswitch (SS) – TOTAL (Wireline + Wireless)</b>	
Worldwide – Total – Mfg. Revenue, Licenses, Mfg. License ASP .....	61
<b>Softswitch – Wireline</b>	
Worldwide – Total – Mfg. Revenue, Units, Mfg. Unit ASP, Licenses, Mfg. License ASP .....	64
Worldwide – Subscriber Licenses – Mfg. Revenue, Licenses, Mfg. License ASP .....	69
Worldwide – Trunk Licenses – Mfg. Revenue, Licenses, Mfg. License ASP .....	72
<b>Softswitch – Wireless</b>	
Worldwide – Total – Mfg. Revenue, Licenses, Mfg. License ASP .....	75
Worldwide – Subscriber Licenses – Mfg. Revenue, Licenses, Mfg. License ASP .....	78
Worldwide – Trunk Licenses – Mfg. Revenue, Licenses, Mfg. License ASP .....	81
<b>Softswitch– Regions</b>	
North America (NA) – Total – Licenses .....	84
Europe, Middle East, Africa (EMEA) – Total – Licenses .....	85
Asia Pacific (AP) – Total – Licenses .....	86
Caribbean and Latin America (CALA) – Total – Licenses .....	87
North America (NA) – Wireline – Licenses .....	88
Europe, Middle East, Africa (EMEA) – Wireline – Licenses .....	89
Asia Pacific (AP) – Wireline – Licenses .....	90
Caribbean and Latin America (CALA) – Wireline – Licenses .....	91
North America (NA) – Wireless – Licenses .....	92
Europe, Middle East, Africa (EMEA) – Wireless – Licenses .....	93
Asia Pacific (AP) – Wireless – Licenses .....	94
Caribbean and Latin America (CALA) – Wireless – Licenses .....	95
<b>Media Gateway (MGW) – TOTAL (Wireline + Wireless)</b>	
Worldwide – Total – Mfg. Revenue, Channels, Mfg. Channel ASP .....	96
<b>Media Gateway – Wireline</b>	
Worldwide – Total – Mfg. Revenue, Channels, Mfg. Channel ASP .....	99
<b>Media Gateway – Wireless</b>	
Worldwide – Total – Mfg. Revenue, Channels, Mfg. Channel ASP .....	102

## Table of Contents – Carrier IP Telephony

	<b>Page No.</b>
<b>Media Gateway – Regions</b>	
North America (NA) – Total – Channels .....	105
Europe, Middle East, Africa (EMEA) – Total – Channels .....	106
Asia Pacific (AP) – Total – Channels .....	107
Caribbean and Latin America (CALA) – Total – Channels .....	108
North America (NA) – Wireline – Channels .....	109
Europe, Middle East, Africa (EMEA) – Wireline – Channels .....	110
Asia Pacific (AP) – Wireline – Channels .....	111
Caribbean and Latin America (CALA) – Wireline – Channels .....	112
North America (NA) – Wireless – Channels .....	113
Europe, Middle East, Africa (EMEA) – Wireless – Channels .....	114
Asia Pacific (AP) – Wireless – Channels .....	115
Caribbean and Latin America (CALA) – Wireless – Channels .....	116
<b>Session Border Controller (SBC) – Total (Wireline + Wireless)</b>	
Worldwide – Mfg. Revenue, Sessions, Mfg. Session ASP .....	117
<b>Session Border Controller – Wireline</b>	
Worldwide – Total – Mfg. Revenue, Sessions, Mfg. Session ASP .....	120
Worldwide – Service Provider – Mfg. Revenue, Sessions, Mfg. Session ASP .....	123
Worldwide – Enterprise – Mfg. Revenue, Sessions, Mfg. Session ASP .....	126
<b>Session Border Controller – Wireless (VoLTE)</b>	
Worldwide – Total – Mfg. Revenue, Sessions, Mfg. Session ASP .....	129
Worldwide – Non-NFV – Mfg. Revenue, Sessions, Mfg. Session ASP .....	132
Worldwide – NFV – Mfg. Revenue, Sessions, Mfg. Session ASP .....	135
<b>Session Border Controller – Regions</b>	
North America (NA) – Total – Sessions .....	138
Europe, Middle East, Africa (EMEA) – Total – Sessions .....	139
Asia Pacific (AP) – Total – Sessions .....	140
Caribbean and Latin America (CALA) – Total – Sessions .....	141
North America (NA) – Wireline – Sessions .....	142
Europe, Middle East, Africa (EMEA) – Wireline – Sessions .....	143
Asia Pacific (AP) – Wireline – Sessions .....	144
Caribbean and Latin America (CALA) – Wireline – Sessions .....	145
North America (NA) – Wireless – Sessions .....	146
Europe, Middle East, Africa (EMEA) – Wireless – Sessions .....	147
Asia Pacific (AP) – Wireless – Sessions .....	148
Caribbean and Latin America (CALA) – Wireless – Sessions .....	149
<b>Voice Application Server (VAS) – Total (Wireline + Wireless)</b>	
Worldwide – Total – Mfg. Revenue, Licenses, Mfg. License ASP .....	150
<b>Voice Application Server – Wireline</b>	
Worldwide – Total – Mfg. Revenue, Licenses, Mfg. License ASP .....	153
Worldwide – Subscriber – Total – Mfg. Revenue, Licenses, Mfg. License ASP .....	156
Worldwide – Subscriber – Residential Voice – Mfg. Revenue, Licenses, Mfg. License ASP .....	159
Worldwide – Subscriber – Business Voice – Mfg. Revenue, Licenses, Mfg. License ASP .....	162
Worldwide – Subscriber – IP Business Trunks – Mfg. Revenue, Licenses, Mfg. License ASP .....	165
Worldwide – Network Session – Mfg. Revenue, Licenses, Mfg. License ASP .....	168

## Table of Contents – Carrier IP Telephony

	<b>Page No.</b>
<b>Voice Application Server – Wireless (VoLTE)</b>	
Worldwide – Total – Mfg. Revenue, Licenses, Mfg. License ASP .....	171
Worldwide – Non-NFV – Mfg. Revenue, Licenses, Mfg. License ASP .....	174
Worldwide – NFV – Mfg. Revenue, Licenses, Mfg. License ASP .....	177
<b>Voice Application Server – Regions</b>	
North America (NA) – Total – Licenses .....	180
Europe, Middle East, Africa (EMEA) – Total – Licenses .....	181
Asia Pacific (AP) – Total – Licenses .....	182
Caribbean and Latin America (CALA) – Total – Licenses .....	183
North America (NA) – Wireline – Licenses .....	184
Europe, Middle East, Africa (EMEA) – Wireline – Licenses .....	185
Asia Pacific (AP) – Wireline – Licenses .....	186
Caribbean and Latin America (CALA) – Wireline – Licenses .....	187
North America (NA) – Wireless – Licenses .....	188
Europe, Middle East, Africa (EMEA) – Wireless – Licenses .....	189
Asia Pacific (AP) – Wireless – Licenses .....	190
Caribbean and Latin America (CALA) – Wireless – Licenses .....	191
<b>IMS Core – Total (Wireline + Wireless)</b>	
Worldwide – Total – Mfg. Revenue, Licenses, Mfg. License ASP .....	192
<b>IMS Core – Wireline (CSCF + HSS)</b>	
Worldwide – Total – Mfg. Revenue, Licenses, Mfg. License ASP .....	195
<b>IMS Core – Wireless (VoLTE) (CSCF + HSS)</b>	
Worldwide – Total – Mfg. Revenue, Licenses, Mfg. License ASP .....	198
Worldwide – Non-NFV – Mfg. Revenue, Licenses, Mfg. License ASP .....	201
Worldwide – NFV – Mfg. Revenue, Licenses, Mfg. License ASP .....	204
<b>IMS Core – Regions</b>	
North America (NA) – Total – Licenses .....	207
Europe, Middle East, Africa (EMEA) – Total – Licenses .....	208
Asia Pacific (AP) – Total – Licenses .....	209
Caribbean and Latin America (CALA) – Total – Licenses .....	210
North America (NA) – Wireline – Licenses .....	211
Europe, Middle East, Africa (EMEA) – Wireline – Licenses .....	212
Asia Pacific (AP) – Wireline – Licenses .....	213
Caribbean and Latin America (CALA) – Wireline – Licenses .....	214
North America (NA) – Wireless – Licenses .....	215
Europe, Middle East, Africa (EMEA) – Wireless – Licenses .....	216
Asia Pacific (AP) – Wireless – Licenses .....	217
Caribbean and Latin America (CALA) – Wireless – Licenses .....	218
<b>IMS Core – Call Session Control Function (CSCF) (Wireline + Wireless)</b>	
Worldwide – Total – Mfg. Revenue, Licenses, Mfg. License ASP .....	219
<b>IMS Core – Call Session Control Function (CSCF) – Wireline</b>	
Worldwide – Total – Mfg. Revenue, Licenses, Mfg. License ASP .....	222

## Table of Contents – Carrier IP Telephony

	<b>Page No.</b>
<b>IMS Core – Call Session Control Function (CSCF) – Wireless (VoLTE)</b>	
Worldwide – Total – Mfg. Revenue, Licenses, Mfg. License ASP .....	225
Worldwide – Non-NFV – Mfg. Revenue, Licenses, Mfg. License ASP .....	228
Worldwide – NFV – Mfg. Revenue, Licenses, Mfg. License ASP .....	231
<b>IMS Core – Home Subscriber Server (HSS) (Wireline + Wireless)</b>	
Worldwide – Total – Mfg. Revenue, Licenses, Mfg. License ASP .....	234
<b>IMS Core – Home Subscriber Server (HSS) – Wireline</b>	
Worldwide – Total – Mfg. Revenue, Licenses, Mfg. License ASP .....	237
<b>IMS Core – Home Subscriber Server (HSS) – Wireless (VoLTE)</b>	
Worldwide – Total – Mfg. Revenue, Licenses, Mfg. License ASP .....	240
Worldwide – Non-NFV – Mfg. Revenue, Licenses, Mfg. License ASP .....	243
Worldwide – NFV – Mfg. Revenue, Licenses, Mfg. License ASP .....	246
<b>Legacy Mobile Switching Center (MSC) – Wireless</b>	
Worldwide – Total – Mfg. Revenue .....	249