

Table of Contents – Carrier IP Telephony

	Page No.
Executive Summary	
Significant Changes	1
Overview	1
Definitions	4
Vendor Product Maps	8
Methodology	10
Worldwide Tables (Mfg. Revenue, Licenses/Channels/Sessions and/or Units, Mfg. ASP)	
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
Vendor Tables	
Carrier IP Telephony Market – Total (SS + MGW + SBC + VAS + IMS Core + Legacy MSC)	
Worldwide – Total – Mfg. Revenue	48
Carrier IP Telephony Market – Wireline (SS + MGW + SBC + VAS + IMS Core)	
Worldwide – Total – Mfg. Revenue	49

Table of Contents – Carrier IP Telephony

	Page No.
Carrier IP Telephony Market – Wireless (SS + MGW + SBC + VAS + IMS Core)	
Worldwide – Total – Mfg. Revenue	50
Carrier IP Telephony Market – VoLTE (SBC + VAS + IMS Core)	
Worldwide – Total – Mfg. Revenue	51
Carrier IP Telephony Market – VoLTE by Non-NFV and NFV (SBC + VAS + IMS Core)	
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
Softswitch (SS) – TOTAL (Wireline + Wireless)	
Worldwide – Total – Mfg. Revenue, Licenses, Mfg. License ASP	61
Softswitch – Wireline	
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
Softswitch – Wireless	
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
Softswitch– Regions	
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
Media Gateway (MGW) – TOTAL (Wireline + Wireless)	
Worldwide – Total – Mfg. Revenue, Channels, Mfg. Channel ASP	96
Media Gateway – Wireline	
Worldwide – Total – Mfg. Revenue, Channels, Mfg. Channel ASP	99
Media Gateway – Wireless	
Worldwide – Total – Mfg. Revenue, Channels, Mfg. Channel ASP	102

Table of Contents – Carrier IP Telephony

	Page No.
Media Gateway – Regions	
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
Session Border Controller (SBC) – Total (Wireline + Wireless)	
Worldwide – Mfg. Revenue, Sessions, Mfg. Session ASP	117
Session Border Controller – Wireline	
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
Session Border Controller – Wireless (VoLTE)	
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
Session Border Controller – Regions	
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
Voice Application Server (VAS) – Total (Wireline + Wireless)	
Worldwide – Total – Mfg. Revenue, Licenses, Mfg. License ASP	150
Voice Application Server – Wireline	
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

	Page No.
Voice Application Server – Wireless (VoLTE)	
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
Voice Application Server – Regions	
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
IMS Core – Total (Wireline + Wireless)	
Worldwide – Total – Mfg. Revenue, Licenses, Mfg. License ASP	192
IMS Core – Wireline (CSCF + HSS)	
Worldwide – Total – Mfg. Revenue, Licenses, Mfg. License ASP	195
IMS Core – Wireless (VoLTE) (CSCF + HSS)	
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
IMS Core – Regions	
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
IMS Core – Call Session Control Function (CSCF) (Wireline + Wireless)	
Worldwide – Total – Mfg. Revenue, Licenses, Mfg. License ASP	219
IMS Core – Call Session Control Function (CSCF) – Wireline	
Worldwide – Total – Mfg. Revenue, Licenses, Mfg. License ASP	222

Table of Contents – Carrier IP Telephony

	Page No.
IMS Core – Call Session Control Function (CSCF) – Wireless (VoLTE)	
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
IMS Core – Home Subscriber Server (HSS) (Wireline + Wireless)	
Worldwide – Total – Mfg. Revenue, Licenses, Mfg. License ASP	234
IMS Core – Home Subscriber Server (HSS) – Wireline	
Worldwide – Total – Mfg. Revenue, Licenses, Mfg. License ASP	237
IMS Core – Home Subscriber Server (HSS) – Wireless (VoLTE)	
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
Legacy Mobile Switching Center (MSC) – Wireless	
Worldwide – Total – Mfg. Revenue	249