

# MCx Network Architecture

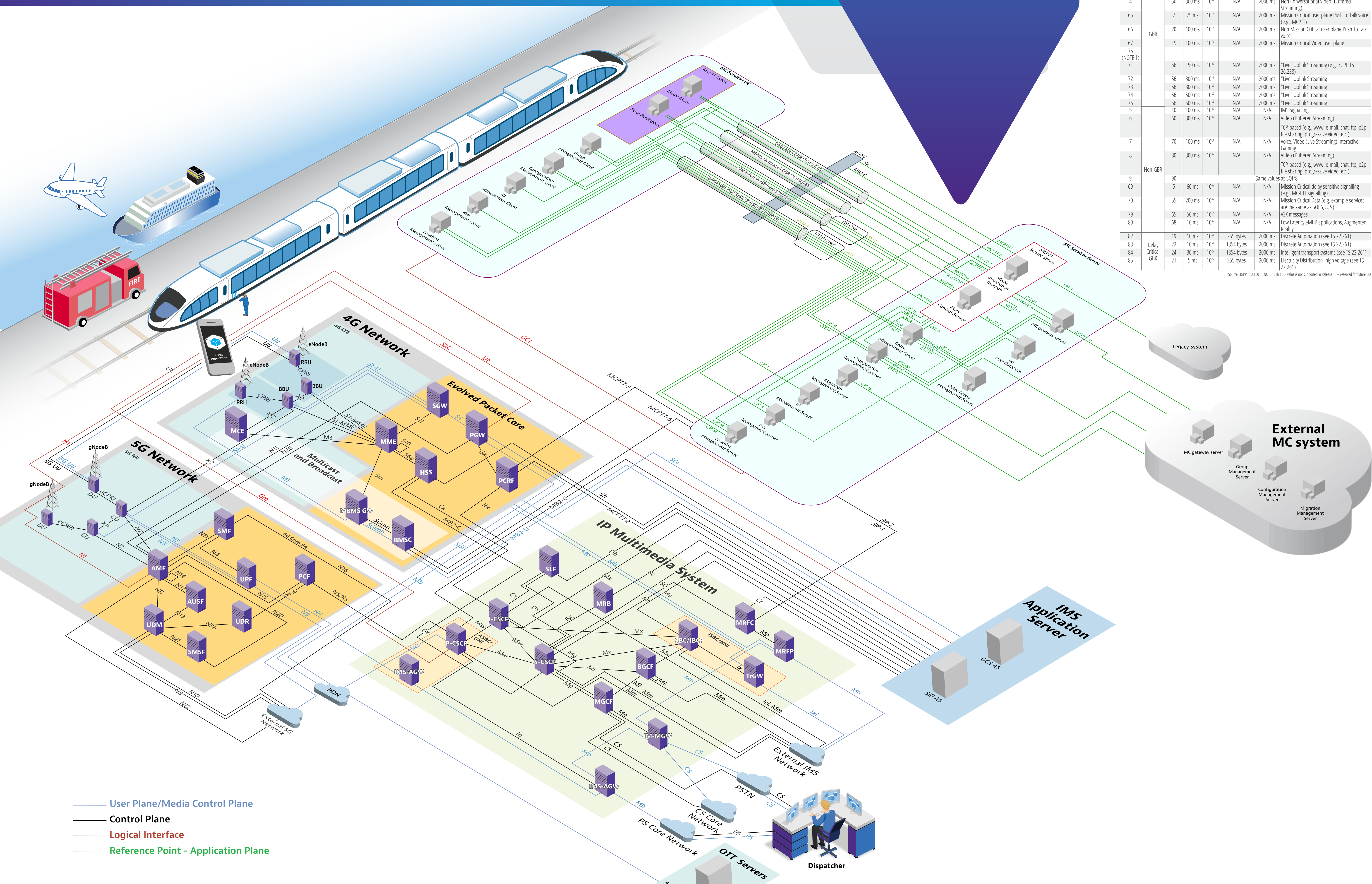
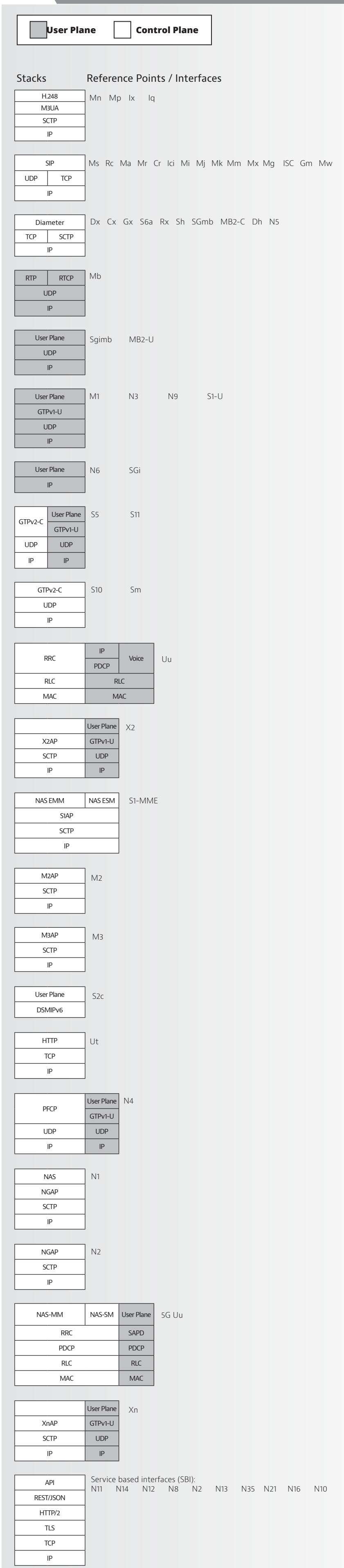


## 5GS PDU CONNECTIVITY SERVICE AND SESSION

SQI Value	Resource Type	Default Priority Level	Packet Delay Budget	Packet Error Rate	Default Maximum Data Burst Volume	Default Awaiting Window	Example Services
1		20	100 ms	10 <sup>-3</sup>	N/A	2000 ms	Conversational Voice
2		40	150 ms	10 <sup>-3</sup>	N/A	2000 ms	Conversational Video (Live Streaming)
3	(NOTE 1)	30	50 ms	10 <sup>-3</sup>	N/A	2000 ms	Real Time Gaming, V2X messages, Electricity distribution medium voltage, Process automation monitoring
4		50	300 ms	10 <sup>-4</sup>	N/A	2000 ms	Non Conversational Video (Buffered Streaming)
65		7	75 ms	10 <sup>-3</sup>	N/A	2000 ms	Mission Critical user plane Push To Talk voice (e.g., MCPPT)
66	GBR	20	100 ms	10 <sup>-3</sup>	N/A	2000 ms	Non Mission Critical user plane Push To Talk voice
67		15	100 ms	10 <sup>-3</sup>	N/A	2000 ms	Mission Critical Video user plane
75	(NOTE 1)	56	150 ms	10 <sup>-4</sup>	N/A	2000 ms	"Live" Uplink Streaming (e.g. 3GPP TS 26.238)
72		56	300 ms	10 <sup>-4</sup>	N/A	2000 ms	"Live" Uplink Streaming
73		56	300 ms	10 <sup>-4</sup>	N/A	2000 ms	"Live" Uplink Streaming
74		56	500 ms	10 <sup>-4</sup>	N/A	2000 ms	"Live" Uplink Streaming
76		56	500 ms	10 <sup>-4</sup>	N/A	2000 ms	"Live" Uplink Streaming
5		10	100 ms	10 <sup>-4</sup>	N/A	N/A	IMS Signalling
6		60	300 ms	10 <sup>-4</sup>	N/A	N/A	Video (Buffered Streaming)
7		70	100 ms	10 <sup>-3</sup>	N/A	N/A	TCP-based (e.g., www, e-mail, chat, ftp, p2p file sharing, progressive video, etc.)
8		80	300 ms	10 <sup>-4</sup>	N/A	N/A	Voice, Video (Live Streaming) Interactive Gaming
9	Non-GBR	90					TCP-based (e.g., www, e-mail, chat, ftp, p2p file sharing, progressive video, etc.)
69		5	60 ms	10 <sup>-4</sup>	N/A	N/A	Same values as SQI 8
70		55	200 ms	10 <sup>-4</sup>	N/A	N/A	Mission Critical delay sensitive signalling (e.g., MC-PTT signalling)
79		65	50 ms	10 <sup>-2</sup>	N/A	N/A	Mission Critical Data (e.g. example services are the same as SQI 6, 8, 9)
80		68	10 ms	10 <sup>-2</sup>	N/A	N/A	V2X messages
82		19	10 ms	10 <sup>-4</sup>	255 bytes	2000 ms	Discrete Automation (see TS 22.261)
83	Delay Critical	22	10 ms	10 <sup>-4</sup>	1354 bytes	2000 ms	Discrete Automation (see TS 22.261)
84	Critical GBR	74	30 ms	10 <sup>-3</sup>	1354 bytes	2000 ms	Intelligent transport systems (see TS 22.261)
85		21	5 ms	10 <sup>-3</sup>	255 bytes	2000 ms	Electricity Distribution-high voltage (see TS 22.261)

Source: 3GPP TS 23.501 NOTE 1: This SQI value is not supported in Release 15 - reserved for future use

## REFERENCE POINT PROTOCOL STACKS



- User Plane/Media Control Plane
- Control Plane
- Logical Interface
- Reference Point - Application Plane

For more information, please visit [viavisolutions.com/MCx](http://viavisolutions.com/MCx) or contact us at [Sales.MCx@viavisolutions.com](mailto:Sales.MCx@viavisolutions.com)