

## General Protocols Supported in SASE Release 3.0

Category	Protocol Title	Specification(s)	Version
<b>3GPP - UMTS</b>			
	3GPP R99 09-2000 RLP	3GPP TS 24.022 (v3.4.0)	Release 99 (Sep. 2000)
	3GPP R99 06-2001 FP	3GPP TS 25.425 (v3.4.0), 3GPP TS 25.427 (v3.7.0), 3GPP TS 25.435 (v3.7.0)	Release 99 (June 2001)
	3GPP R99 06-2001 NBAP	3GPP TS 25.433(V3.6.0)	Release 99 (June 2001)
	3GPP R99 06-2001 RANAP	3GPP TS 25.413 (v3.6.0)	Release 99 (June 2001)
	3GPP R99 06-2001 RNSAP	3GPP TS 25.423 (v3.6.0)	Release 99 (June 2001)
	3GPP R99 06-2001 RRC	3GPP TS 25.331 (v3.7.0)	Release 99 (June 2001)
	3GPP R99 03-2002 FP	3GPP TS 25.425 (v3.7.0), 3GPP TS 25.427 (v3.9.0), 3GPP TS 25.435 (v3.10.0)	Release 99 (March 2002)
	3GPP R99 03-2002 MAP	3GPP TS 29.002 (V3.12.0)	Release 99 (March 2002)
	3GPP R99 03-2002 NBAP	3GPP TS 25.433(V3.9.0)	Release 99 (Sep 2001)
	3GPP R99 03-2002 RANAP	3GPP TS 25.413 (v3.9.0)	Release 99 (March 2002)
	3GPP R99 03-2002 RNSAP	3GPP TS 25.423 (v3.9.0)	Release 99 (March 2002)
	3GPP R99 03-2002 RRC	3GPP TS 25.331 (v3.a.0)	Release 99 (March 2002)
	3GPP R99 06-2002 GTP	3GPP TS 29.060 (v3.d.0), 3GPP TS 12.15 (v7.6.0)	Release 99 (June 2002)
	3GPP R99 06-2002 IuUP	3GPP TS 25.415 (v3.b.0)	Release 99 (June 2002)
	3GPP R99 06-2002 NAS SS	3GPP TS 24.080 (v3.7.0)	Release 99 (June 2002)
	3GPP R99 06-2002 NBAP	3GPP TS 25.433(V3.10.0)	Release 99 (June 2002)
	3GPP R99 06-2002 RANAP	3GPP TS 25.413 (v3.10.0)	Release 99 (June 2002)
	3GPP R99 06-2002 RNSAP	3GPP TS 25.423 (v3.a.0)	Release 99 (June 2002)
	3GPP R99 06-2002 RRC	3GPP TS 25.331 (v3.b.0)	Release 99 (June 2002)
	3GPP R99 12-2002 NAS CC	3GPP TS 24.008 (v3.14.0)	Release 99 (Dec 2002)
	3GPP R99 12-2002 NAS GMM	3GPP TS 24.008 (v3.14.0)	Release 99 (Dec 2002)
	3GPP R99 12-2002 NAS MM	3GPP TS 24.008 (v3.14.0)	Release 99 (Dec 2002)
	3GPP R99 12-2002 NAS RR	3GPP TS 24.008 (v3.14.0), 3GPP TS 04.18 (v8.17.0)	Release 99 (Dec 2002)
	3GPP R99 12-2002 NAS SM	3GPP TS 24.008 (v3.14.0)	Release 99 (Dec 2002)
	3GPP R99 12-2002 RLC MAC	3GPP TS 25.321 (v3.14.0) 3GPP TS 25.322 (v3.13.0)	Release 99 (Dec 2002)
	3GPP R99 12-2002 RANAP	3GPP TS 25.413 (v3.12.0)	Release 99 (Dec. 2002)
	3GPP R99 12-2002 RRC	3GPP TS 25.331 (v3.d.0)	Release 99 (Dec 2002)
	3GPP R4 12-2002 IuUP	3GPP TS 25.415 (v4.7.0)	Release 99 (Dec 2002)
	3GPP R4 06-2003 NAS CC	3GPP TS 24.008 (v4.11.0)	Release 4 (June 2003)
	3GPP R4 06-2003 NAS GMM	3GPP TS 24.008 (v4.11.0)	Release 4 (June 2003)
	3GPP R4 06-2003 NAS MM	3GPP TS 24.008 (v4.11.0)	Release 4 (June 2003)
	3GPP R4 06-2003 NAS RR	3GPP TS 24.008 (v4.11.0), 3GPP TS 44.018 (v4.15.0)	Release 4 (June 2003)
	3GPP R4 06-2003 NAS SM	3GPP TS 24.008 (v4.11.0)	Release 4 (June 2003)
	3GPP R4 06-2002 NAS SMS	3GPP TS 24.011 (v4.1.1)	Release 4 (June 2002)
	3GPP R4 06-2003 RANAP	3GPP TS 25.413 (v4.9.0)	Release 4 (June 2003)
	3GPP R4 06-2003 NBAP	3GPP TS 25.433(V4.9.0)	Release 4 (June 2003)
	3GPP R4 CAP	3GPP TS 29.078 (V4.0.0)	Release 4 (March 2001)
	GPRS 3GPP R4 BSSGP	3GPP TS 48.018 (V4.5.0)	Release 4 (May 2002)
	GPRS 3GPP R4 SNDCP	3GPP TS 44.065(V4.2.0)	Release 4 (March 2002)
	GPRS 3GPP R4 LLC	3GPP TS 44.064(V4.3.0)	Release 4 (March 2002)
	GPRS 3GPP R4 NS	3GPP TS 48.016(V4.3.0) ITU-T Q.922 Q.933A	Release 4 (July 2003)
	GPRS 3GPP R4 TOM	3GPP TS 44.064 LLC(V4.3.0)	Release 4 (March 2002)
	3GPP R5 06-2003 FP	3GPP TS 25.425 (v5.5.0), 3GPP TS 25.427 (v5.1.0), 3GPP TS 25.435 (v5.5.0)	Release 5 (June 2003)
	3GPP R5 06-2003 RLC MAC	3GPP TS 25.321 (v5.5.0) 3GPP TS 25.322 (v5.5.0)	Release 5 (June 2003)


## General Protocols Supported in SASE Release 3.0

Category	Protocol Title	Specification(s)	Version
<b>ETSI</b>			
	GPRS SMG31 NS_T1	ETSI TS 101 299 ANSI T1.618-1991 (R2003)	v8.0.1 (May 2002)
	GPRS SMG31 BSSAP+	ETSI TS 101 346 BSSAP+	v7.5.0
<b>IEEE</b>			
	IEEE 802.3	IEEE 802.3	2000
<b>IETF/RFC</b>			
	IPv4	RFC 791	RFC 791 (Sep. 1981)
	PPP	RFC 1661	RFC 1661 (July 1994)
	MIP	RFC2002, 3024, 3025, CDG IOS 4.2 (A.S0017-0)	Ver 2.0
	RADIUS	RFC2865(RADIUS), RFC2867, RFC2868, RFC2869	RFC 2865 (June 2000)
	RADIUS Accounting	RFC2866(RADIUS Accounting), RFC2867, RFC2868, RFC2869	RFC 2866 (June 2000)
	TCP	RFC 793,RFC 1323,RFC 2018,RFC 2385	RFC 793 (Sep 1981)
	UDP	RFC 768	RFC 768 (Sep 1981)
	ICMP	RFC 792	RFC 792 (Sep 1981)
	MIPinIP	RFC 2004	RFC 2004 (Oct 1996)
	IPinIP	RFC 2003	RFC 2003 (Oct 1996)
	GRE	RFC 1701/1702	RFC 1701 (Oct 1994)
	DNS	RFC 1035	RFC 1035 (Nov 1987)
	Interactive Mail Access protocol version 2	RFC 1176	RFC 1176 (Aug 1990)
	The TFTP Protocol (Revision 2)	RFC 1350	RFC 1350 (July 1992)
	LDAP	RFC 1777	RFC 1777 (March 1995)
	Post Office Protocol Vers. 3	RFC 1939	RFC 1939 (May 1996)
	DHCP	RFC 2131	RFC 2131 (March 1997)
	HTTP	RFC 2616	RFC 2616 (June 1999)
	L2TP	RFC 791	RFC 2661 (Aug. 1999)
	SMTP	RFC 2821	RFC 2821 (April 2001)
	Telnet	RFC 854	RFC 854 (May. 1983)
	File Transfer Protocol	RFC 959	RFC 959 (Oct 1985)
	NNTP	RFC 977	RFC 977 (Feb 1986)
<b>ITU/ITU-T</b>			
	ITU White book MTN	Q.707	1993
	ITU White book MTP2	Q.703	1993
	ITU White book MTP3	Q.704	1993
	ITU White Book SCCP	Q.713	Mar. 2001
	ITU White book SCMG	Q.713	1993
	ITU White book SNM	Q.704	1993
	ITU-T ALCAP	Q.2630.1	Dec-99
	ITU-T MTP3b	Q.2210, Q.704	1996.7
	ITU-T SSCOP SSCF	Q.2110, Q.2140	1996
	ITU 2000 ISUP	Q.763	2000
	ITU BICC	Q.1901	July-01
	ITU_2002_GCP	H248.1(V2), RFC2234(ABNF)	May-02
	ITU B-ISUP	Q.2763	December-99
	ATM	I.361,I.610,I.630	I.610 (Feb 1999)
	ITU-T I.363.5 Type 5 AAL	I.363.5	I.363.5 (Aug 1996)
	ITU-T I.366.2 Type 2 AAL SSCS	I.366.2	I.366.2 (Nov 2000)

## General Protocols Supported in SASE Release 3.0

Category	Protocol Title	Specification(s)	Version
<b>JAPAN TTC</b>			
	MTN (TTC)	JT-Q.707	April-92
	MTP3b (TTC)	JT-Q.704	April-92
	SCCP (TTC)	Q.713	1996
	SCMG (TTC)	Q.713	1993
	SNM (TTC)	JT-Q704	1993
<b>RFC</b>			
<b>WAPFORUM</b>			
	MMS WAP V1.1	MMS WAP V1.1	MMS-ENC-v1_1(20021030)

 New added protocols since SASE Release 1.1

 Revision is updated and backward compatible with SASE Release 1.1