

Security	H.234 V3	MPLS	VPN Innominate	DICA BlueCrypt	SafeCom Babylon
Algorithm	AES Software	AES Hardware	AES Hardware	AES Hardware	AES Hardware
Encryption Length	128 Bit	256 Bit	256 Bit	256 Bit	256 Bit
Encryption Management	Session Keys	Internet Key Exchange	Internet Key Exchange	DICA proprietary	Internet Key Exchange
Encryption Material	exposed in memory	exposed in memory	less secured	completely secured	less secured
Authentication	none	PSK, Certificates	PSK, Certificates	Master	PSK, Certificates
Transparency	no	no	yes	yes	yes
Man in the Middle possible	yes	yes	yes	no	yes
Rating	-	o	o	++	o
Concept					
Encryption	VPN	VPN	VPN	reference data	VPN
Application and Mediasupport	IP and ISDN Video	IP Data, Video, Voice	IP Data, Video	IP & ISDN Dat., Video, Voice, Analog Fax/Voice, GSM	IP & ISDN Dat., Video, Voice
Configuration logical	Softwareapplication	Hardware (Standard)	Hard- and Software	Hardware (proprietary)	Hard- and Software
Configuration physical	internal	external	external	external	external
Security Level	low, limited to video	middle, limited to IP	middle, limited to IP	high, compl. homogeneous	middle, not homogeneous
Rating	-	o	o	++	o
Application					
Plug & Play	yes	yes	no	yes	no
Complexity of Installation	low	high	high	low	high
Complexity of Maintenance & Usage	middle	middle	high	low	high
Locationflexibility	low	low	low	high	low
Operability in VC Room	middle	not necessary	not necessary	not necessary	not necessary
Administration	local	central	central, local	central, local	central, local
Rating	o	o	-	++	+
Costs					
Costs for 20 locations and 5 years	0,00 EUR excl. line	1.230.000,00 EUR incl. line	15.000,00 EUR excl. line	42.500,00 EUR excl. line	50.000,00 EUR excl. line
Costs Maintenance	middle	high	high	low	high
Costs Installation	low	high	high	low	high
Costs Connction (Rent)	not appropriate	high	not appropriate	not appropriate	not appropriate
Rating	++	-	+	++	+
Advantage					
	integrated in VC System	high bandwidths	conditional compatibility to Standard VPN solutions comparat. low costs ideal for HD video conferences	Plug & Play functionality custom adaption	conditional compatibility to Standard VPN solutions ideal for HD video conferences
	included in VC Pricing	ideal for connctions of big locations		net- and application comprehensive security	
				even for HD video conferences more than 10 Mbit/s	
Disadvantage					
	Incompatibilities among VC manufacturers	only for big headquarters	complex configuration	basic version for Video & Voice over IP	complex configuration
	very low encryption bandwidth no central management for heterogeneous environments	high costs insecure gateways	encryption of addressheader		encryption of addressheader
	quality and operation depends strongly on VC hardware	encryption optional, only with low bandwidth standard	limited to IP Communication		no homogeneous security level
Overall Evaluation	-	o	o	++	+