VALIANTSURF (VS): Capability Levels

VALIANTSURF Capability Level		Beneficiaries				
		CES & LONGHAUL	OTP & SSG	TOPIs	Link Access	CES
A	Key Recovery, no on-site decryption	X				
B	Key Recovery, **on-site SW Decryption , XKS SIGDEV**	X	X			
C	Key Recovery, on-site SW Decryption, XKS SIGDEV , **offsite processing of full take decrypt**	X	X	X		
D	Key Recovery, on-site SW Decryption, XKS SIGDEV , **on-site packet and session selection and forwarding of decrypt**	X	X	X	X	
E	Key Recovery, on-site **HW** Decryption, XKS SIGDEV , on-site packet and session selection and forwarding of decrypt	X	X	X	X	X

NOTE: bolded parts above represent added capability over prior level

VALIANTSURF (VS): Success Criteria

1. DNC (Data Network Cipher) target development performed using metadata

2. TURMOIL DNC targeting in place (via UTT & KEYCARD) and needed CASNs on cover

3. ITx connectivity between CES backend and CA Servers at site

4. CA Servers at site accessible, hardened, loaded and functioning

5. Pairing exists for the targeted DNC IP addresses

6. LONGHAUL is able to exploit the traffic

7. VS-compatible TURMOIL software loaded

8. XKS retrospective available for DNC plain text target development (i.e. determine selectors)

9. Bandwidth available and policy approves

10. Plain text selectors loaded in TURMOIL and XKS

11. Needed mission applications available in TURMOIL stage 1 prime

12. XKEYSCORE-Stage 2 functioning

13. CA Server with hardware acceleration in place with sufficient TU network configuration

VS Capability Level	Success Criteria Required												
	1	2	3	4	5	6	7	8	9	10	11	12	13
A	X	X	X	X	X	X							
B	X	X	X	X	X	X	X	X					
C	X	X	X	X	X	X	X	X	X				
D	X	X	X	X	X	X	X	X	X	X	X	X	
E	X	X	X	X	X	X	X	X	X	X	X	X	X

VALIANTSURF (VS): Current Capability Status

Site	VS Capability					VS Dependencies											13. CA HW	
	A	B	C	D	E	1. IP SIGDEV	2. TARGETTING	3. ITx	4. CA Server	5. Pairing	6. Exploitable	7. TML/VS	8. XKS Retro-spective	9. BW & Policy	10. P/T Selectors	11. Stage 1' Apps	11. XKS Stage2	CA Server	Cavium Included?
MUSC												18.1.7					1.5.5-146	IBM 3650	yes
XCUT												15.6.1					n/a	HP DL180	no
TEC												15.6.1					n/a	Dell 2950	no
MHS												13.1.6					1.5.5.234	Dell 2950	no
G1												3.1.6					1.5.5-14x	Dell 2950	no
G3												3.1.6					1.5.5-14x	Dell 2950	no
S 5G												17.1					n/a	Dell 2950	no
S BCH																	1.5.5-14x	Dell 2950	no
GH												18.1.6					1.5.5-145	IBM 3650	Eventually*
JCE 20G**																		IBM 3650	yes
240G (6/11)																		IBM 3650	yes
PSK Defensive (1/11)																		IBM 3650	Eventually*
Remaining Defensive (9 sites)																		IBM 3650	Eventually*

* Cavium cards still to be ordered for these sites
** JCE 20G is a dev system