(U) There is More Than One Way to QUANTUM



Name	Description	Inception Date	Status	Operational Success
	CNE			
QUANTUMINSERT	Man-on-the-Side technique Briefly hi-jacks connections to a terrorist website Re-directs the target to a TAO server (FOXACID) for implantation	2005	Operational	Highly Successful (In 2010, 300 TAO implants were deployed via QUANTUMINSERT to targets that were un-exploitable by an other means)
QUANTUMBOT	Takes control of idle IRC bots Finds computers belonging to botnets, and hijacks the command and control channel Takes control of idle IRC bots	Aug 2007	Operational	Highly Successful (over 140,000 bots co-opted)
QUANTUMBISCUIT	 Enhances QUANTUMINSERT's man-on-the-side technique of exploitation Motivated by the need to QI targets that are behind large proxies, lack predictable source addresses, and have insufficient unique web activity. 	Dec 2007	Operational	Limited success at NSAW due to high latency on passive access (GCHQ uses technique for 80% of CNE accesses)
QUANTUMDNS	DNS injection/redirection based off of A Record queries. Targets single hosts or caching name servers.	Dec 2008	Operational	Successful (High priority CCI target exploited)
QUANTUMHAND	Exploits the computer of a target who uses Facebook	Oct 2010	Operational	Successful
QUANTUMPHANTOM	Hijacks any IP on QUANTUMable passive coverage to use as covert infrastructure.	Oct 2010	Live Tested	N/A
	CNA			
QUANTUMSKY	Denies access to a webpage through RST packet spoofing.	2004	Operational	Successful
QUANTUMCOPPER	File download/upload disruption and corruption.	Dec 2008	Live Tested	N/A
	CND			
QUANTUMSMACKDOWN	Pevents target from downloading implants to DoD computers while capturing malicious payload for analysis.	Oct 2010	Live Tested	N/A TS//SI//F