(U) There is More Than One Way to QUANTUM



| //SI//REL | | | | DEVELOY |
|------------------|---|-------------------|-------------|--|
| 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 any other means) |
| QUANTUMBOT | Takes control of idle IRC bots Finds computers belonging to botnets, and hijacks the command and control channel | 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//RE |