



# (U) There is More Than One Way to QUANTUM

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Name	Description	Inception Date	Status	Operational Success
<b>CNE</b>				
QUANTUMINSERT	<ul style="list-style-type: none"> <li>Man-on-the-Side technique</li> <li>Briefly hi-jacks connections to a terrorist website</li> <li>Re-directs the target to a TAO server (FOXACID) for implantation</li> </ul>	2005	Operational	<b>Highly Successful</b> (In 2010, 300 TAO implants were deployed via QUANTUMINSERT to targets that were un-exploitable by any other means)
QUANTUMBOT	<ul style="list-style-type: none"> <li>Takes control of idle IRC bots</li> <li>Finds computers belonging to botnets, and hijacks the command and control channel</li> </ul>	Aug 2007	Operational	<b>Highly Successful</b> (over 140,000 bots co-opted)
QUANTUMBISCUIT	<ul style="list-style-type: none"> <li>Enhances QUANTUMINSERT's man-on-the-side technique of exploitation</li> <li>Motivated by the need to QI targets that are behind large proxies, lack predictable source addresses, and have insufficient unique web activity.</li> </ul>	Dec 2007	Operational	<b>Limited success at NSAW</b> due to high latency on passive access (GCHQ uses technique for 80% of CNE accesses)
QUANTUMDNS	<ul style="list-style-type: none"> <li>DNS injection/redirection based off of A Record queries.</li> <li>Targets single hosts or caching name servers.</li> </ul>	Dec 2008	Operational	<b>Successful</b> (High priority CCI target exploited)
QUANTUMHAND	Exploits the computer of a target who uses Facebook	Oct 2010	Operational	<b>Successful</b>
QUANTUMPHANTOM	Hijacks any IP on QUANTUMable passive coverage to use as covert infrastructure.	Oct 2010	Live Tested	N/A
<b>CNA</b>				
QUANTUMSKY	Denies access to a webpage through RST packet spoofing.	2004	Operational	<b>Successful</b>
QUANTUMCOPPER	File download/upload disruption and corruption.	Dec 2008	Live Tested	N/A
<b>CND</b>				
QUANTUMSMACKDOWN	Prevents target from downloading implants to DoD computers while capturing malicious payload for analysis.	Oct 2010	Live Tested	N/A

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