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	Doc	uments show	that the N.S.A. has	s been wagir	ig a war aga	ainst encrypt	ion using a t	pattery o	f methods t	hat include	working			
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BULLRI	JN Col – Brief	fing Sheet												
Introduc	tion													
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1. The a	ability to explo	it targets'	encrypted con	nmunicat	ions is ex	dremely f	ragile	P	enetrating	Target Defe	ences is t	he code-crac	king g	group
and is o	ften enabled	through se	ensitive ECI pr	rogramme	es. The n	leed to ta	ke			n's Governn s, or GCH0		munications		
			that capability	-		-			leadquarter	3, 01 00110	×.			
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		e to the se	ensitivity or fra	gility of th	ne exploi	tation								
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2 In rec	ent vears the	re has hee	en an aggress	ive effort	lead by	NSA to r	nake	Ir	2000 the	NSAmou	ntod a fu	ul scalo offort	to pr	000000
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	-		e new capabilit	-		• •	ו					ned the capat		0
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access.														

4. To achieve this, NSA has introduced the BULLRUN Col to protect our abilities to defeat the encryption used in network communication technologies. This covers both the "fact of" a capability against a specific technology and resulting decrypts (which may be either plaintext or metadata (events). GCHQ is also introducing BULLRUN. (CSEC, DSD and GCSB are expected to do likewise.)

Control Authority

5. The BULLRUN Col is owned by for Penetrating Target Defences (PTD). Authority to manage the Col is delegated to (currently

and arrest (arrest, currently arrest).

BULLRUN Sensitivity and Coverage

6. It is imperative to protect the fact that GCHQ, NSA and their Sigint partners have capabilities against specific network security technologies as well as the number and scope of successes. These capabilities are among the Sigint community's most fragile, and the inadvertent disclosure of the simple "fact of" could alert the adversary and result in immediate loss of the capability. Consequently, any admission of "fact of" a capability to defeat encryption used in specific network communication technologies or disclosure of details relating to that capability must be protected by the BULLRUN COI and restricted to those specifically indoctrinated for BULLRUN. The various types of security covered by BULLRUN include, but are not limited to, TLS/SSL, https (e.g. webmail), SSH, encrypted chat, VPNs and encrypted VOIP. The specific instances of these technologies that can be exploited will be published in a separate Annexe (available to BULLRUN indoctrinated staff).

7. In addition to the specific technologies that GCHQ or its Sigint partners are able to exploit, the methods used to achieve the exploitation must also be protected. These include support from other organisations, both internal and external to GCHQ. Access to BULLRUN does NOT imply any "need-to-know" the details of sources and methods used to achieve exploitation and, in general, there will be NO "need-to-know". Requests for access to information on sources and methods should be sent to OPC-SEC; if considered appropriate, this access may require clearance for certain ECIs.

8. BULLRUN material, data, and details must be protected with the use of the BULLRUN Col and be marked with the label "BULLRUN," in addition to the required privacy marking and other descriptors. Use of the BULLRUN marking is restricted to GCHQ and its Sigint 2nd Parties.

Access and Security

9. Requests for access to the Col must be sponsored by a GC8 or above and must be accompanied by a business case outlining the "need-to-know". Access for contractors will be limited and will require a strong business case; such requests should be discussed with the Col Authority's delegates before submission. Requests for access are to be sent by email to PTDAccesses.

10. Knowledge of BULLRUN information and access to the BULLRUN Col will only be granted to indoctrinated individuals.

11. It is the responsibility of sponsors (or their successors) to notify when an individual no longer require access to BULLRUN.

Handling Procedures

The full extent of the N.S.A.'s decoding capabilities is known only to a limited group of top analysts from the N.S.A. and its counterparts in Britain, Canada, Australia and New Zealand (the so-called Five Eyes group). Only they are cleared for the Bullrun program, the successor to one called Manassas — both names of American Civil War battles. The corresponding counterencryption program at GCHQ is Edgehill, named for the first battle of the English Civil War.

The agency has circumvented or cracked much of the encryption that guards global commerce and banking systems, protects sensitive data like trade secrets and medical records, and automatically secures basic Internet communications, including the e-mails, Web searches, Internet chats and phone calls of millions of Americans and others around the world.

Unlike some classified information that can be parceled out on a strict "need to know" basis, the Bullrun program is so secret that, in general, there will be no need to know.

Only a small cadre of contractors were allowed to join Bullrun. It does not appear that Edward J. Snowden had access, but he managed to gain access to dozens of classified documents mentioning Bullrun.

12. Owners of BULLRUN materials are responsible for correctly marking the information and for ensuring that it is handled according to guidelines for protecting classified or COI information.	
13. Reports derived from BULLRUN material shall not reveal (or imply) that the source data was decrypted. The network communication technology that carried the communication should not be revealed.	
14. Further dissemination, other than in product reports, of any data or information derived from BULLRUN data must be thoroughly justified and receive prior approval from	
15. All questions or concerns regarding BULLRUN material and information should be directed to EXERCISE .	
Protective Marking Guidance	
The following offers some guidance on Protective Markings (PM) for BULLRUN material. Questions regarding PMs can be directed to the Col Authority's delegates.	
At SECRET STRAP1 COMINT AUSCANZUKUS EYES :	AUSCANZUKUS EYES stands for Australia, Canada, New Zealand, United Kingdom and United States, i.e.
The fact that GCHQ has unspecified capabilities against network security technologies eg TLS/SSL, HTTPS, SSH, VPNs, IPSec. NB capability does not necessarily equate to decryption capability.	Five Eyes.
At TOP SECRET STRAP1 COMINT AUSCANZUKUS EYES :	
The fact that GCHQ or its 2nd Party partners has some capability against the encryption used in a class or type of network communications technology. For example, VPNs, IPSec, TSL/SSL, HTTPS, SSH, encrypted chat, encrypted VoIP.	
At TOP SECRET STRAP2 COMINT BULLRUN AUSCANZUKUS EYES :	
The fact that GCHQ or a 2nd Party partner has a capability against a specific encrypted network security technology – see Annexe for details. (At a minimum, specific capabilities may be protected by additional ECIs and restriction on "Eyes".)	
The fact that GCHQ or its partners exploits specific encrypted network communications – see Annexe for details. (At a minimum, specific capabilities may be protected by additional ECIs and restriction on "Eyes".)	
Decrypts (plaintext or derived events / metadata) obtained from BULLRUN capabilities. (At a minimum, specific capabilities may be protected by additional restriction on "Eyes" and, in a few cases, additional ECIs.)	
GLOSSARY	
(U) HTTPS – HTTP traffic secured inside an SSL/TLS session, indicated by the https:// URL, commonly using TCP port 443	
(U) IPSEC IPSec, or IP Security, is the Internet Engineering Task Force (IETF) standard for layer 3 real-time communication security. IPSec allows two hosts (or two gateways) to establish a secure connection, sometimes called a tunnel. All traffic is protected at the network layer.	

(U) SSH – Secure Shell. A common protocol used for secure remote computer access	
(U) SSL – Secure Sockets Layer. Commonly used to provide secure network communication. Widely used on the internet to provide secure web browsing, webmail, instant messaging, electronic commerce, etc.	
(U) TLS – Transport Layer Security. The follow-on to SSL, SSLv3 and TLSv1.(are nearly identical.)
(U) VoIP – Voice over Internet Protocol. A general term for the using IP networks to make voice phone calls. The application layer protocol can be standards-based (e.g., H.323, SIP), or proprietary (e.g., Skype).	
(U) VPN – Virtual Private Network. A private network that makes use of the public telecommunications infrastructure, maintaining privacy via the use of a tunneling protocol and security procedures that typically include encryption. Common protocols include IPSEC and PPTP.	