The accredited security level of this system is: TOP SECRET//SI-GAMMA/TALENT KEYHOLE//ORCON/PROPIN/RELIDO/REL TO USA, FVEY *
TOP SECRETI/SI/(REL TO USA, FVEY

(U//FOUO) TURMOIL GALLANTWAVE

From WikiInfo

(U//FOUO) VALIANTSURF: TURMOIL GALLANTWAVE



(U//FOUO) The TURMOIL CIFT (Common Internet Encryption Technologies) Thrust's mission is to ensure that the GALLANTWAVE team's TURMOIL-related requirements are fulfilled. Two sub-projects under CIET are VALIANTSURF and GALLANTWAVE.

(ISI/SII/REL) GALLANTWAVE (GW) is a CES Mission Application hosted on TURMOIL that enables exploitation of target communications that employ Data Network Session Cipher (DNSC) technologies. The GALLANTWAVE mission application integrates with TURBULENCE-based solutions at the front end. After interacting with T5's LONGHAUL key recovery service via ISLANDTRANSPORT, it exploits the cipher at the front end, exposing the plain text to follow-on selection and collection.

BULLEUN.

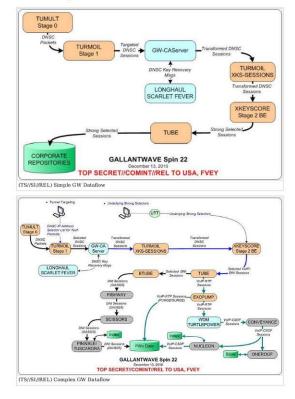
(S//SII/REL) Information revealing any capability NSA has to exploit a specific target's or company's implementation of encryption for GALLANTWAVE technologies is BULLRUN.

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GALLANTWAVE Detailed Description

(TS//SII/REL) GALLANTWAVE (GW) implements TML Stage 1 PPF graphs (1 per host) with dedicated instances of the TechPromote (GWAeg) and the PSPSeg (GWSeg). GW PPF graphs identify and promote DNSC packets that meet criteria specified in a Rules.cfg file. A TE GALLANTWAVE graph subsequently sessionizes the selected traffic, injects control-flow metadata, and forwards targeted DNSC Sessions to a GW mission-application hosted on a CA Server. The GWCAServer interacts with SCARLET FEVER (a CES LONGHAUL component) to transform those sessions for IP-addresses within an approved set of target IP-addresses. The GW-CAServer transformed sessions are sent to XKEYSCORE via a modified TURMOIL XKS-SESSIONS graph for session processing, strong-selection, and forwarding to follow-on processing systems and Corporate Repositories.

Data Flow Diagrams

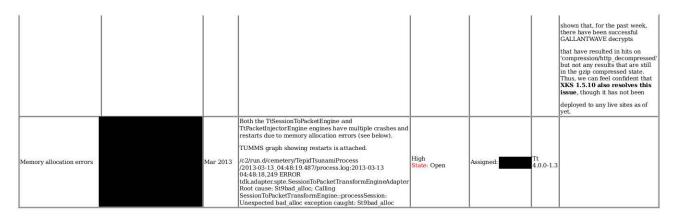


(U) Open GALLANTWAVE DRs

 $(U) \ Note: This \ table \ can \ be \ dynamically-edited \ (cells \ edited; rows \ added). \ Changes \ are \ saved \ to \ CIET/Gallantwave _DRs.$

Headline	DR Number (TU or TML)	Date Submitted	Description Version	Resolution/Status	Responsible component/project	TML version	Testing/Deployment notes
DnscPromotionFilterEngine is part of FsptProcess and should not be	X7I-T00054264	Apr 2013	The GwModule as delivered start the DnscPromotionFilterEngine as part of the FspfProcess. According to the TURMOIL Core team, no processes should be added to the FspfProcess, as this 'strictly forbidden'. Due to this configuration, we have observed a number of occurrences where the message queues for DnscPromotionFilter are not created, and this results in 100% loss of Dnsc misson for the affected Fspf.	Medium State: fixed	Assigned:	GW 4.0.0-3.0	Fixed with the release of GW 4.0.0-3.1 (MF#109912)
XKS HttpDemux Problem at DGO	DNCA Ops ticket 99481	Dec 2012	For several months, GW transformed sessions requiring http decompression and detunneling have been rendered useless by an XKS 1.5.7 deficiency			XKS 1.5.7	Submitted By: Adddate: 2013-03-28 15:05:06 Correction to the previous statement: tjse t3 does in fact have XKS 1.5.10 installed, and querying in XKEYSCORE has

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(U) Old GALLANTWAVE DRs

 \bullet see Old GALLANTWAVE DRs for closed, resolved, rejected etc DRs

• GW 3.1-3.1 uses UTT/Core SSC or Static Target files to target.

(U) GALLANTWAVE and NetDef Brief

Spin 12.1

(U//FOUO) Feathers

- GW 3.1-2.0 uses KEYCARD to target and has the SLIDETACKLE capability.
 GW 3.1-3.0 uses Core SSC and IPCollector to target and works at both U and NET Def sites

Spin 22

(U//FOUO) Support GALLANTWAVE Deployments (U//FOUO) Prototype Stage 1' Reinjection US131 TA1563

(U) RFCs

RFC Number (TU or TML)		Related DR(s)	Resolution/ Status	Date Submitted
2981	Instructions to change targeting file	None		week of 6 Dec 2010
3120	Instructions to change MHS Live targeting file	None		week of 17 Jan 2011

Spin 21

Stories

GALLANTWAVE
(U//FOUO) Feather Deliveries
(U//FOUO) Deploy/activate CA Servers to POLARSTARKEY
(U//FOUO) Interagency pairing (U//FOUO) GALLANTWAVE 3.0 Design

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