CIRT Playbook Battle Card: GSPBC-1000 - Impact - Data Encrypted For Impact - Ransomware

(P) Preparation	(I) Identification	(C) Containment
 Patch asset vulnerabilities Perform routine inspections of controls/weapons Examine file shares for loose/open privileges Maintain Antivirus/EDR application updates Create network segmentation Log traffic between network segments Incorporate threat intelligence Incorporate deception technology Perform routine inspections of asset backups Validate proper functionality Confirm backups are free of malware Establish ability to pay ransoms w/cryptocurrency Obtain decryption keys for ransomware variants Confirm cybersecurity insurance coverages Conduct ransomware simulations Conduct user awareness training Conduct response training (this PBC) 	 Monitor for: a. Ransomware notes/messages b. Unusual file extensions or malicious extensions c. User reports of files being corrupt or not readable d. Emails with suspicious attachments e. Unusual DNS traffic f. High velocity renaming of files g. CPU spikes on file sharing systems h. Unusual userland executable binaries i. Anomalous network connections on hosts j. Firewall denies to well known file sharing ports k. Network connections to known C2 and exploit kit locations l. Use of TOR or I2P Investigate and clear ALL alerts of possible ransomware a. IDS/IPS b. Antivirus/EDR c. Threat intelligence d. Deception technology 	 Deny Disrupt Degrade Deceive Destroy Observe -> Orient -> Decide -> Act Locate and isolate the assets responsible for encrypting files Isolate impacted files sharing systems Close the attack vector Fortify non-impacted file sharing systems Fortify non-impacted critical assets Issue perimeter enforcement for known threat actor locations Deploy EDR hunter/killer agents and terminate offending processes
(E) Eradication	(R) Recovery	(L) Lessons/Opportunities
 Close the attack vector Patch asset vulnerabilities Re-image impacted assets Inspect all assets for IOC consistent with the attack profile Inspect user activity for IOC consistent with the attack profile Inspect backups for IOC consistent with the attack profile PRIOR to systems recovery Implement newly obtained threat signatures 	 Restore to the RPO within the RTO Restore from known clean backups Address collateral damage 	 Perform routine cyber hygiene due diligence Engage external cybersecurity-as-a-service professionals Avoid opening email and attachments from unfamiliar senders Avoid opening email attachments from senders that do not normally include attachments Notes: Report cybercrime: https://www.ic3.gov/default.aspx Paying ransoms is discouraged but should be a contingency available to executives (SEE Preparation #12)