CIRT Playbook Battle Card: GSPBC-1000 - Impact - Data Encrypted For Impact - Ransomware		
(P) Preparation	(I) Identification	(C) Containment
(P) Preparation 1. Patch asset vulnerabilities 2. Perform routine inspections of controls/weapons 3. Confirm backups are free of malware 4. Establish ability to pay ransoms w/cryptocurrency 5. Obtain decryption keys for ransomware variants 6. Confirm cybersecurity insurance coverages 7. Conduct ransomware simulations 8. Conduct phishing simulations 9. Conduct user awareness training 10. Conduct response training (this PBC) 11. Examine file shares for loose/open privileges 12. Maintain Antivirus/EDR application updates 13. Create network segmentation 14. Log traffic between network segments 15. Incorporate threat intelligence 16. Incorporate deception technology	(I) Identification 1. Monitor for: a. Ransomware notes/messages b. Unusual file extensions or maliciousextensions c. User reports of files being corrupt or notreadable 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 sharingports k. Network connections to known C2 and exploit kit locations I. Use of TOR or I2P 2. Investigate and clear ALL alerts of possible ransomware a. IDS/IPS b. Antivirus/EDR	(C) Containment 1. Inventory (enumerate & assess) 2. Detect Deny Disrupt Degrade Deceive Destroy 3. Observe -> Orient -> Decide -> Act 4. Locate and isolate the assets responsible for encrypting files 5. Isolate impacted file sharing systems 6. Close the attack vector 7. Fortify non-impacted file sharing systems 8. Fortify non-impacted critical assets 9. Issue perimeter enforcement for known threat actor locations 10. Deploy EDR hunter/killer agents and terminate offending processes
17. Perform routine inspections of asset backups18. Validate proper functionality	c. Threat intelligence d. Deception technology	
(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 providers and response professionals Avoid opening email and attachments from unfamiliar senders Avoid opening email attachments from senders that do not normally include attachments References: MITRE ATT&CK Technique T1486: https://attack.mitre.org/techniques/T1486/ Paying ransoms is discouraged but should be a contingency available to executives (SEE Preparation #12)

Resources:

- → GuardSight GSVSOC Incident Response Plan: https://github.com/guardsight/gsvsoc_cybersecurity-incident-response-plan
- → IT Disaster Recovery Planning: https://www.ready.gov/it-disaster-recovery-plan
- → Report Cybercrime: https://www.ic3.gov/Home/FAQ

