

FMEA Spreadsheet Template

System / Product / Process	FMEA ID	Revision
HealthNetwork		Intern Supervisor
Subsystem / Product / Process (if applicable)	Party Responsible	Approved By
HNetConnect, HNetExchange, HNetPay	HelthNetwork Support	
Team		
Cybersecurity Intern Team		

Failure Mode and Effects Analysis (FMEA)

ID+B 10: M21	System / Item / Process Step	Function	Potential Failure Mode	Effects of Failure	Severity	Causes	Occurrence	Current Controls
#	Name, ID number, etc.	Primary function	How could the system / item / process potentially fail?	Consequential impact on other systems, departments, etc.		All contributing factors		Prevention
1	Epic EHR Windows Server	Transmits patient data and provides assistance with	Malware and power outages	Could cause loss of human life due to inability to access clinicak	10		4	
2	Radiology PACS System	For storing and retrieving images from processes such as MRIS and	Storing and retrieving images	Could cause radiology to not be able to upload images delaying	10		4	
3	Laboratory Information System	Lab orders and processing	Lab order and processing	Could result in inability to test and share results	8		3	
4	Financial Systems	Patient billing and payment processing. Stores PII DSS	Patient billing and payment processing	Inability to generate or process bills	5		4	
5	CrowdStrike Falcon (EDR Protection	Endpoint protection is implemented on all endpoints (847)	Power outage, network connectivity issue, and threat actor	Inability to manage endpoints and detect malicious	6		3	

6	Palo alto PA-33220 Firewalls	Endpoint protection is implemented on all endpoints (847)	Power outage/ Turned off by threat actor	Inability to ensure malicious traffic does not reach web application	8		3	
7	Active Directory 2019 with Azure AD Connect	Service used in authentication and access controls.	Turned off by threat actor/ Power outage	Inability to authentication users wanting to access	8		4	
8	Loadbalancers	Distributes traffic across various web applications like MvChart.	Power outages, threat actor	Inability to distribute traffic over the network leading to denial	6		5	
9	23 Servers	Servers are used for hosting web applications, databases, and	Power outages, threat actor	inability to how applications and data processing	8		3	
10	Rapid7 (Vulnerability Scanner)	Scans multiple IT assets for vulnerabilities	Turned off by threat actor/ power outage	Inability to scan vulnerabilities on multiple systems	7		3	
11	Databases	Stores information or various web applications	Power outage, disabled by threat actor	Inability to retrieve payments, mail, or some	8		3	
12	Log servers	Logs transactions from various web applications	Threat actor/ Power Outage	Inability to account for changes made within various	5		3	
13	Splunk	Also SOC to view centralized logs from various web applications	Threat actor/ Power Outage	Inability to view logs possibly leading to threat actors evading	5		4	
14	Patient Health Information	Used by web applications to provide patient info for hospitals	Threat actor/ Power Outage	Loss of availability, integrity, or confidentiality of data	10		3	

