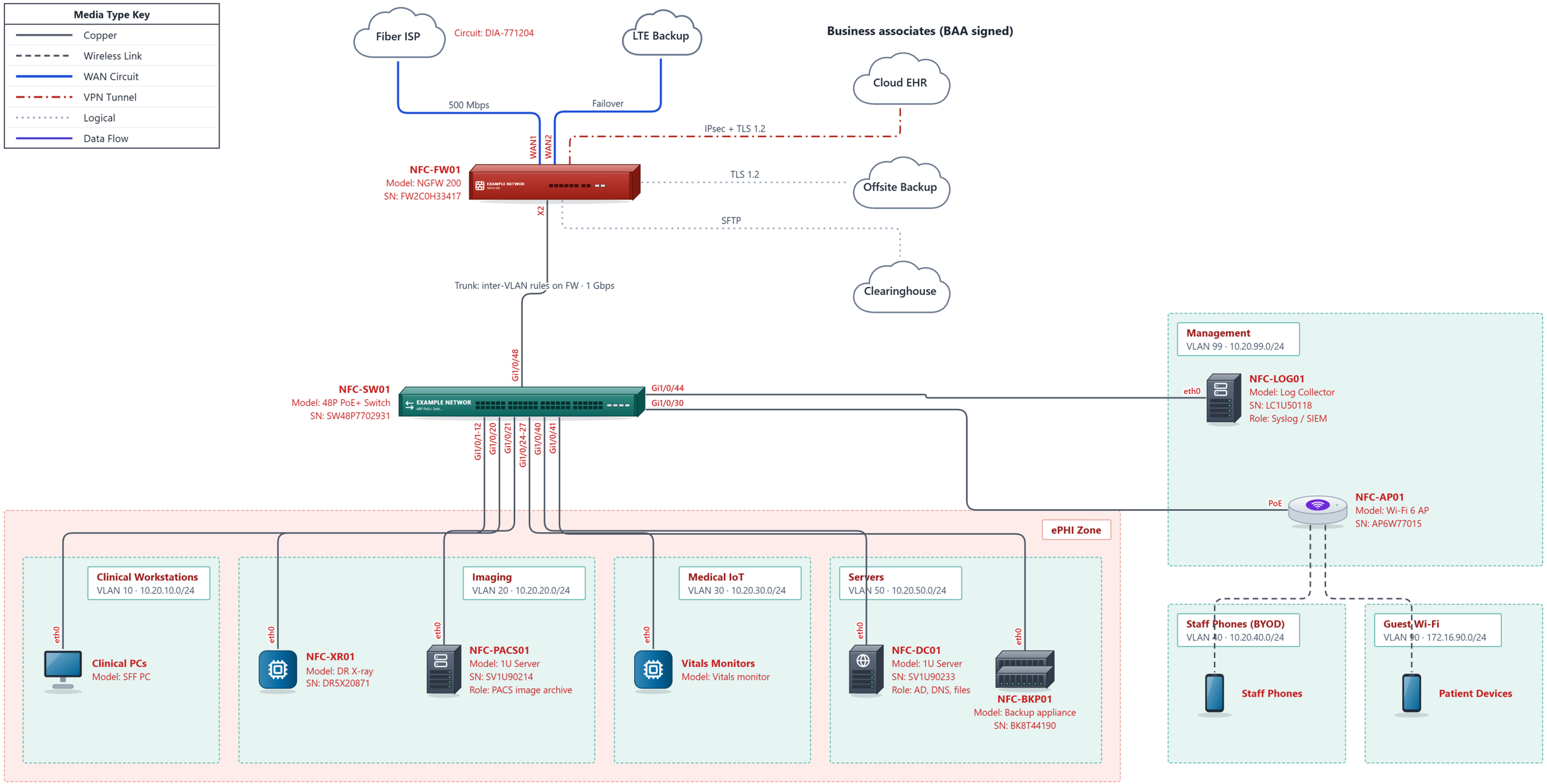
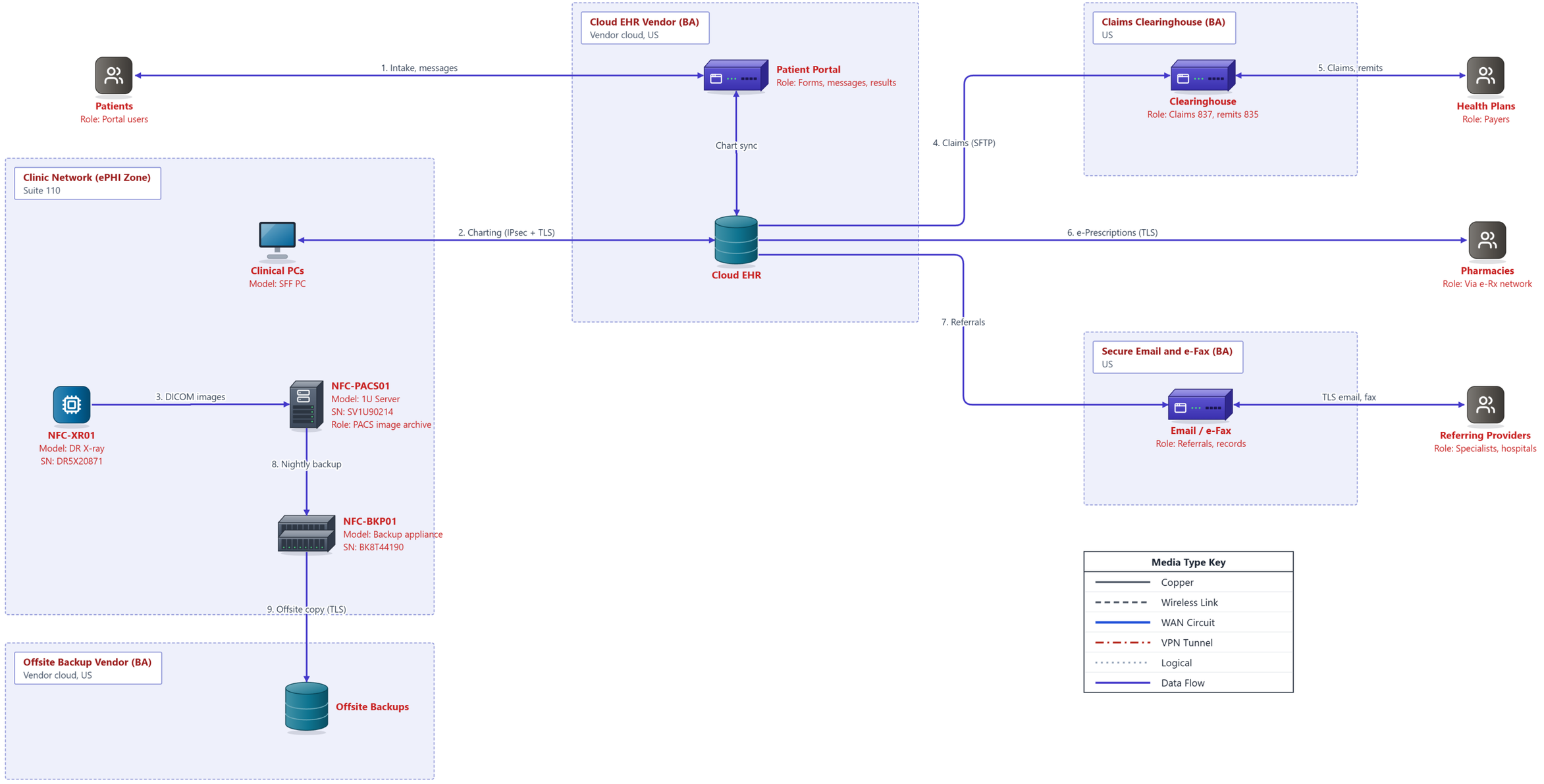


DOCUMENT **Northfield Family Clinic - HIPAA Network and ePHI Data Flow** Northfield Family Clinic · Suite 110, 400 Elm Street, Springfield	SHEET TITLE **Clinic Network**	VERSION 1.0	LAST CHANGED 2026-11-25	VERIFIED
		DRAWN BY	LAST EDITOR	APPROVED

SHEET 1 of 7



DOCUMENT **Northfield Family Clinic - HIPAA Network and ePHI Data Flow** Northfield Family Clinic · Suite 110, 400 Elm Street, Springfield	SHEET TITLE **ePHI Data Flow**	VERSION 1.0	LAST CHANGED 2026-11-25	VERIFIED	SHEET 2 of 7
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Device Inventory 21 devices

Hostname	Type	Vendor / model	Serial	Mgmt IP	Area	Location	Page
Fiber ISP	ISP / Carrier						Clinic Network
LTE Backup	Cellular / LTE						Clinic Network
Cloud EHR	Cloud Provider						Clinic Network
Offsite Backup	Cloud Provider						Clinic Network
Clearinghouse	Cloud Provider						Clinic Network
NFC-FW01	Firewall	Example Networks NGFW 200	FW2C0H33417	10.20.99.1		Network closet, wall rack U8	Clinic Network
NFC-SW01	Switch	Example Networks 48P PoE+ Switch	SW48P7702931	10.20.99.2		Network closet, wall rack U6	Clinic Network
Clinical PCs	Workstation	Example Systems SFF PC			Clinical Workstations		Clinic Network
NFC-XR01	Generic Device	Example Imaging DR X-ray	DR5X20871	10.20.20.21	Imaging	X-ray room	Clinic Network
NFC-PACS01	Server	Example Systems 1U Server	SV1U90214	10.20.20.10	Imaging	Network closet, wall rack U4	Clinic Network
Vitals Monitors	Generic Device	Example Medical Vitals monitor		10.20.30.11, 10.20.30.12, 10.20.30.13, 10.20.30.14	Medical IoT		Clinic Network
NFC-DC01	DC / DNS / DHCP	Example Systems 1U Server	SV1U90233	10.20.50.10	Servers	Network closet, wall rack U3	Clinic Network
NFC-BKP01	Storage / NAS	Example Systems Backup appliance	BK8T44190	10.20.50.20	Servers	Network closet, wall rack U2	Clinic Network
NFC-LOG01	Server	Example Systems Log Collector	LC1U50118	10.20.99.30	Management		Clinic Network
NFC-AP01	Wireless AP	Wi-Fi 6 AP	AP6W77015	10.20.99.10	Management		Clinic Network
Staff Phones	Mobile Device				Staff Phones (BYOD)		Clinic Network
Patient Devices	Mobile Device				Guest Wi-Fi		Clinic Network
Clinical PCs	Workstation	Example Systems SFF PC			Clinic Network (ePHI Zone)		ePHI Data Flow
NFC-XR01	Generic Device	Example Imaging DR X-ray	DR5X20871	10.20.20.21	Clinic Network (ePHI Zone)	X-ray room	ePHI Data Flow
NFC-PACS01	Server	Example Systems 1U Server	SV1U90214	10.20.20.10	Clinic Network (ePHI Zone)	Network closet, wall rack U4	ePHI Data Flow
NFC-BKP01	Storage / NAS	Example Systems Backup appliance	BK8T44190	10.20.50.20	Clinic Network (ePHI Zone)	Network closet, wall rack U2	ePHI Data Flow

Link / Cabling Schedule 16 links

Cable ID	End A	Interface	End B	Interface	Media	Speed	VLANs	Length	Test	Label / notes	Page
	Fiber ISP		NFC-FW01	WAN1	WAN Circuit	500 Mbps					Clinic Network
	LTE Backup		NFC-FW01	WAN2	WAN Circuit					Failover	Clinic Network
	NFC-FW01		Cloud EHR		VPN Tunnel					IPsec + TLS 1.2	Clinic Network
	NFC-FW01		Offsite Backup		Logical					TLS 1.2	Clinic Network
	NFC-FW01		Clearinghouse		Logical					SFTP	Clinic Network
NFC-C001	NFC-FW01	X2	NFC-SW01	Gi1/0/48	Copper	1 Gbps	10,20,30,40,50,90,99	1 m	Pass	Trunk: inter-VLAN rules on FW	Clinic Network
NFC-D101-112	NFC-SW01	Gi1/0/1-12	Clinical PCs	eth0	Copper		10		Pass		Clinic Network
NFC-D120	NFC-SW01	Gi1/0/20	NFC-XR01	eth0	Copper		20	22 m	Pass		Clinic Network
NFC-C010	NFC-SW01	Gi1/0/21	NFC-PACS01	eth0	Copper		20	2 m	Pass		Clinic Network
NFC-D124-127	NFC-SW01	Gi1/0/24-27	Vitals Monitors	eth0	Copper		30		Pass		Clinic Network
NFC-C011	NFC-SW01	Gi1/0/40	NFC-DC01	eth0	Copper		50	2 m	Pass		Clinic Network
NFC-C012	NFC-SW01	Gi1/0/41	NFC-BKP01	eth0	Copper		50	2 m	Pass		Clinic Network
NFC-C013	NFC-SW01	Gi1/0/44	NFC-LOG01	eth0	Copper		99	2 m	Pass		Clinic Network
NFC-D130	NFC-SW01	Gi1/0/30	NFC-AP01	PoE	Copper		40,90,99	31 m	Pass		Clinic Network
	NFC-AP01		Staff Phones		Wireless Link						Clinic Network
	NFC-AP01		Patient Devices		Wireless Link						Clinic Network

VLAN / Subnet Table 7 VLANs

VLAN	Name	Subnet	Gateway	DHCP scope / helper	Devices	Page
10	Clinical Workstations	10.20.10.0/24	10.20.10.1	NFC-FW01 (802.1X on ports)	1	Clinic Network
20	Imaging	10.20.20.0/24	10.20.20.1	Static	2	Clinic Network
30	Medical IoT	10.20.30.0/24	10.20.30.1	Static (allow-listed MACs)	1	Clinic Network
40	Staff Phones (BYOD)	10.20.40.0/24	10.20.40.1	NFC-FW01, internet only	1	Clinic Network
50	Servers	10.20.50.0/24	10.20.50.1	Static	2	Clinic Network
90	Guest Wi-Fi	172.16.90.0/24	172.16.90.1	NFC-FW01, client isolation	1	Clinic Network
99	Management	10.20.99.0/24	10.20.99.1	Static	2	Clinic Network

Data Flows 11 flows

From	To	Data	Class.	Sensitive data	Protocol / port	Encryption	Purpose	Page
Patients	Patient Portal (Cloud EHR Vendor (BA))	Intake forms, messages, results	Restricted	Health data	HTTPS 443	TLS 1.3	Patients send intake forms and read results	ePHI Data Flow
Patient Portal (Cloud EHR Vendor (BA))	Cloud EHR (Cloud EHR Vendor (BA))	Portal data	Restricted	Health data	Vendor internal	TLS 1.2	Portal reads and writes the chart	ePHI Data Flow
Clinical PCs (Clinic Network (ePHI Zone))	Cloud EHR (Cloud EHR Vendor (BA))	Chart notes, orders, schedules	Restricted	Health data	HTTPS 443 over IPsec	TLS 1.2	Clinicians document visits and place orders	ePHI Data Flow
NFC-XR01 (Clinic Network (ePHI Zone))	NFC-PACS01 (Clinic Network (ePHI Zone))	X-ray images	Restricted	Health data	DICOM TLS 2762	TLS 1.2	Store images from the X-ray room	ePHI Data Flow
Cloud EHR (Cloud EHR Vendor (BA))	Clearinghouse (Claims Clearinghouse (BA))	Claims (837)	Restricted	Health data	SFTP 22	SSH / SFTP	Bill health plans	ePHI Data Flow
Clearinghouse (Claims Clearinghouse (BA))	Health Plans	Claims and remittances (835)	Restricted	Health data	HTTPS / SFTP	TLS 1.2	Payment	ePHI Data Flow
Cloud EHR (Cloud EHR Vendor (BA))	Pharmacies	Prescriptions	Restricted	Health data	NCPDP SCRIPT over HTTPS	TLS 1.2	Treatment: send prescriptions to pharmacies	ePHI Data Flow
Cloud EHR (Cloud EHR Vendor (BA))	Email / e-Fax (Secure Email and e-Fax (BA))	Referral letters, records	Restricted	Health data	HTTPS 443	TLS 1.2	Treatment: referrals and records requests	ePHI Data Flow
Email / e-Fax (Secure Email and e-Fax (BA))	Referring Providers	Referrals, records	Restricted	Health data	TLS email, cloud fax	TLS 1.2	Treatment: referrals and records requests	ePHI Data Flow
NFC-PACS01 (Clinic Network (ePHI Zone))	NFC-BKP01 (Clinic Network (ePHI Zone))	Server images	Restricted	Health data	Backup agent 443	TLS 1.2	Local backup	ePHI Data Flow
NFC-BKP01 (Clinic Network (ePHI Zone))	Offsite Backups (Offsite Backup Vendor (BA))	Encrypted backup copies	Restricted	Health data	HTTPS 443	TLS 1.2	Contingency plan: offsite, immutable copies	ePHI Data Flow

Data Stores 4 stores

Data store	Stores	Class.	Sensitive data	Encrypted at rest	Kept for	Region	Owner	Boundary
NFC-BKP01	Nightly image backups of the PACS and file server	Restricted	Health data	Yes	30 daily, 12 monthly	Network closet	Clinic IT (MSP)	
NFC-BKP01	Nightly image backups of the PACS and file server	Restricted	Health data	Yes	30 daily, 12 monthly	Network closet	Clinic IT (MSP)	Clinic Network (ePHI Zone)
Cloud EHR	Charts, orders, results, claims history	Restricted	Health data	Yes	Per state medical records law	Vendor cloud, US	EHR vendor (BA)	Cloud EHR Vendor (BA)
Offsite Backups	Encrypted copies of NFC-BKP01	Restricted	Health data	Yes, customer-managed keys	1 year, 90-day immutable lock	Vendor cloud, US	Clinic IT (MSP)	Offsite Backup Vendor (BA)