


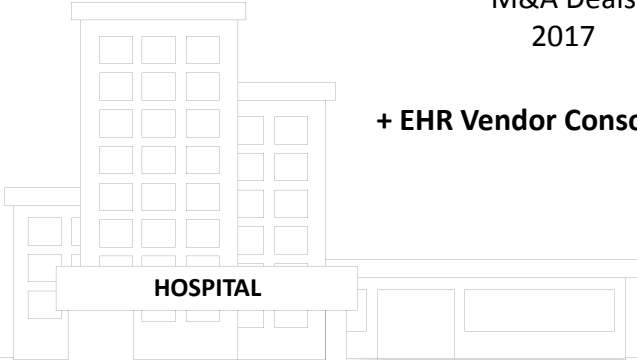

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Patient & Employee Record Retention Strategies When Systems Get Replaced

Shannon Larkin
October 9, 2018



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967
M&A Deals
2017


+ EHR Vendor Consolidation

HOSPITAL

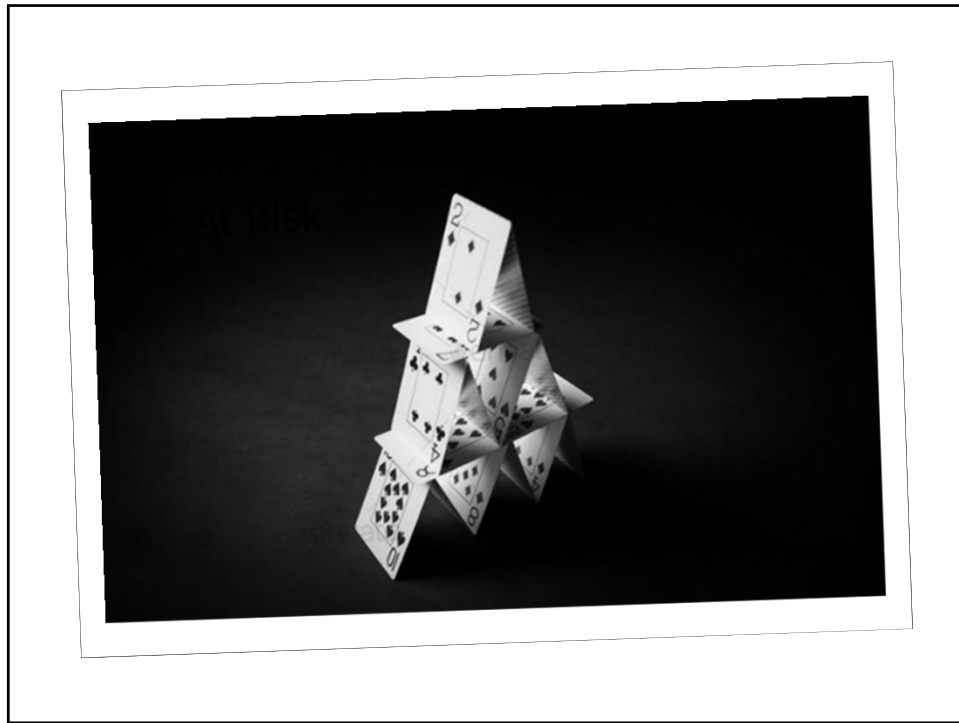
Source: PwC US Health Services
Deals Insights Year-end 2016

2

The Market is Consolidating



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2013 = 153 Exabytes
2020 = 2314 Exabytes

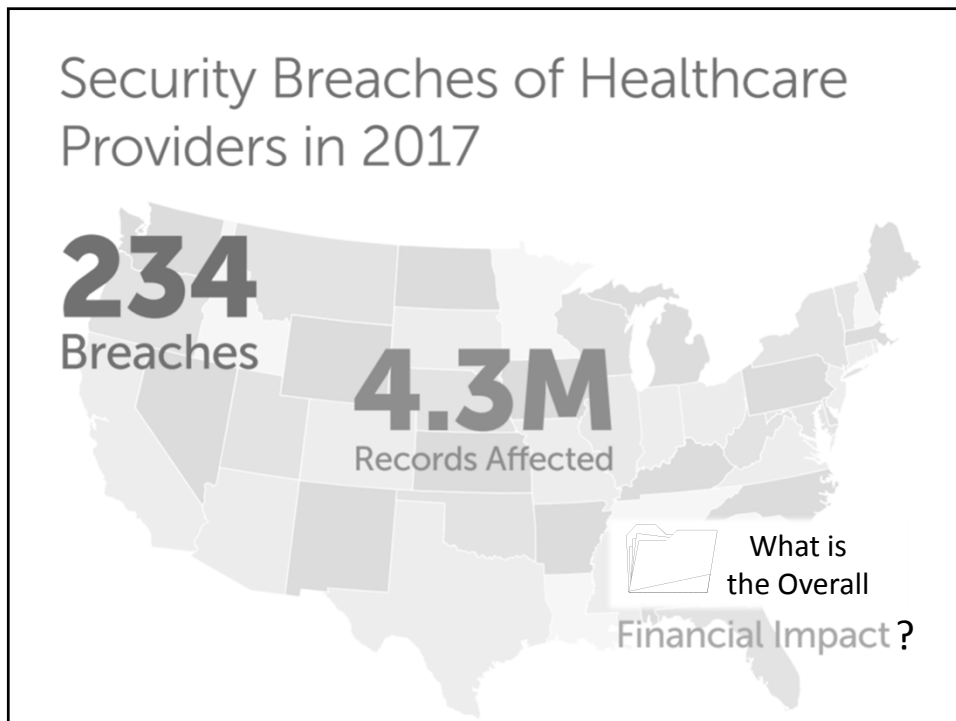
G = 10 Exabytes

Data Volume, Variety & Velocity:
It's sort of a big deal



A stylized graphic illustration of a hospital building at night. The building is white with a grid of windows. A large, bright crescent moon is in the upper left, and numerous small stars are scattered across the dark sky. A large, white, glowing circle is on the ground in front of the building. The overall scene is set against a dark background.

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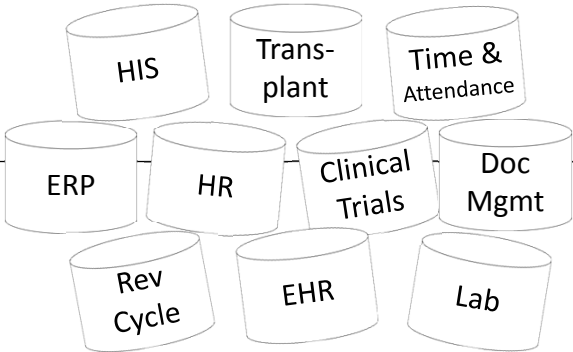


Types of Security Risks



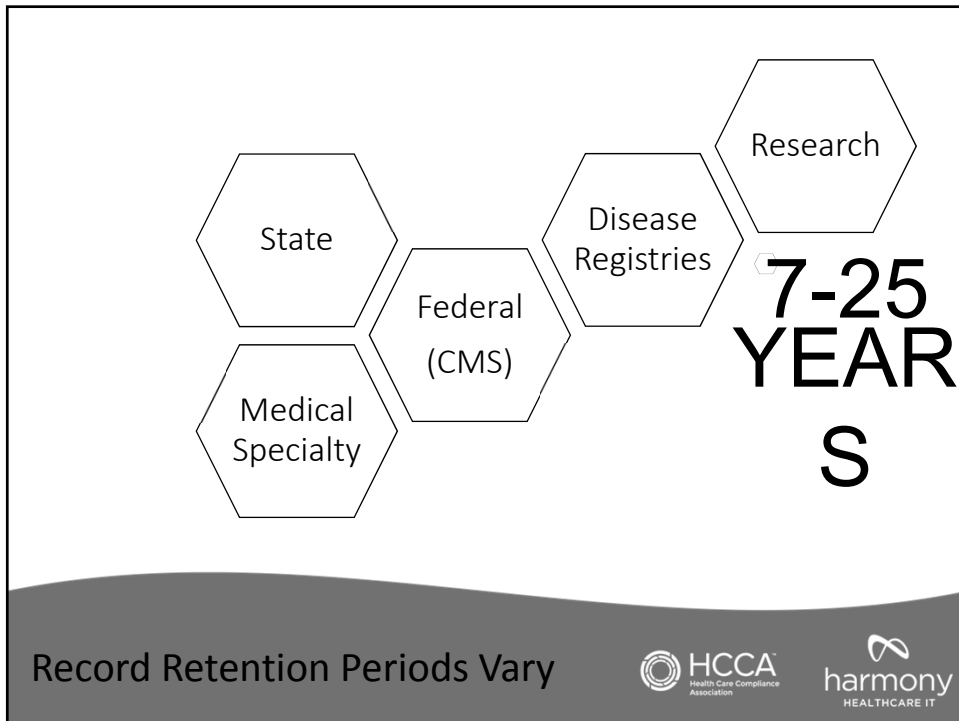
Outdated Systems & Too Many Data Silos

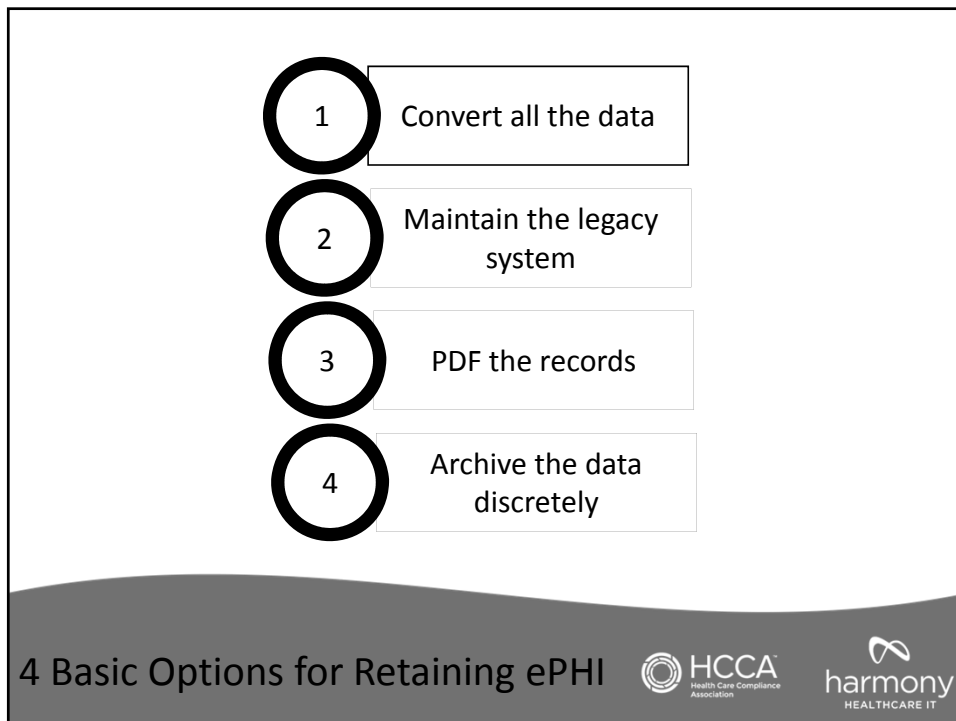
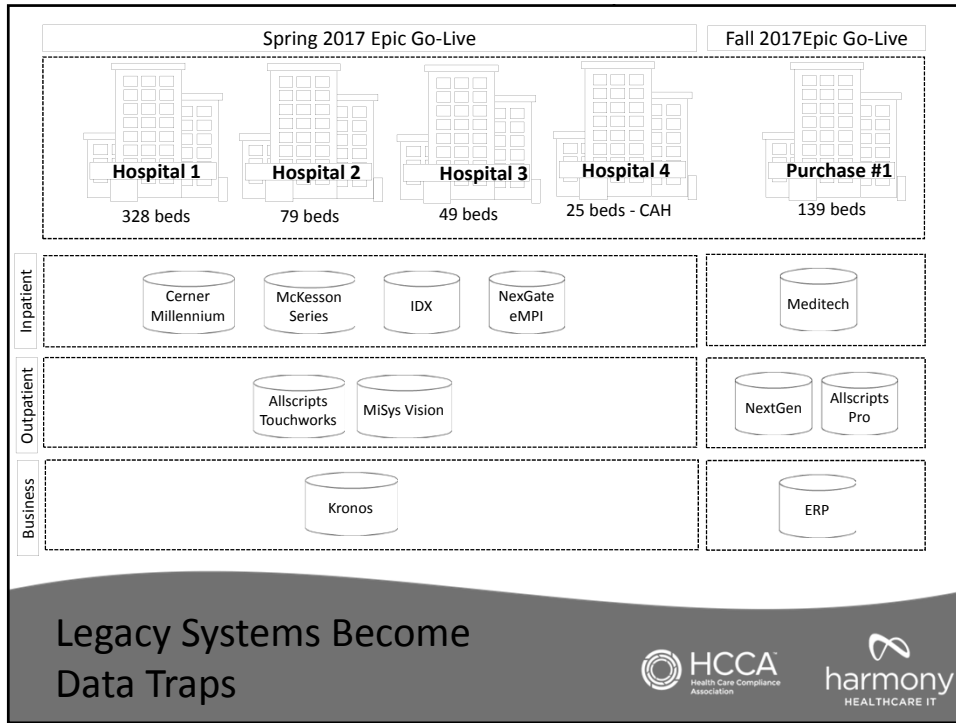
- Third-Party Hacking
- Ransomware
- Phishing Attacks
- Employee Errors
- Insider User Threats
- Vendor Mistakes




The diagram illustrates ten data silos as cylinders arranged in three rows. The top row contains HIS, Transplant, and Time & Attendance. The middle row contains ERP, HR, Clinical Trials, and Doc Mgmt. The bottom row contains Rev Cycle, EHR, and Lab.








	PROS	CONS
1 Convert all the Data	XXXXXX? <ul style="list-style-type: none">All records stored together	<ul style="list-style-type: none">High cost and complexityTimeframesData mapping/integrity



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3 PDF the Records	<ul style="list-style-type: none"> May entail less time/cost than discrete data conversion or archiving 	<ul style="list-style-type: none"> Buries data in multi-page files User access tracking/audit is less reliable, if available Query/analytics compromised



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4 Archive the Data Discretely	<ul style="list-style-type: none"> Consolidation of legacy data silos Easy data access/sort/filter/query Less system maintenance cost Secure, compliant record storage 	<ul style="list-style-type: none"> Some up-front costs for legacy data extraction and migration





Preserve
vital information
to improve lives

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HIM Clinical RCM Legal HR

Data when, where and
how it's needed

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EMPI	MRN	Acct./Visk/Encr #	Last Name	First Name	Middle Initial	Date of Birth	Last 3 of SSN	Source
	034460	034460	DONNELLY	NANCY	L	11/28/1962	###-##-#999	Physicians Clinic
	053492	2 of 2	DONNELLY	NANCY	L	11/28/1962	###-##-#999	CPSI
	122684	122684	DONNELLY	NANCY	L	11/28/1962	###-##-#999	NextGen

Sample Patient Search

NANCY L. DONNELLY | F | 11/28/1962 | 53 yrs | MRN: 122684 | Account: (All)

Account #: 122684 Address 1: 50670 FARMINGDALE DR Address 2:
 City: GRANGER State: IN Home Phone: (574) 555-1211 Cell Phone: (574) 555-1211
 Marital Status: M Ins Type: BBA PCP: HAVENBURG STEPH Referring Doctor: YETTA PAUL T
 Running Balance: \$34.00 SSN: ###-##-#999

Start Date	Brand Name	Generic Name	Dose	Intake	Provider
06/08/2010	AMARYL	GLIMEPRIDE	1 mg	take 1 tablet (1MG) by ORAL route every day	Jane Smith, MD
06/08/2010	BISAC-EVAC	BISACODYL	5 mg	take 2 tablet (10MG) by ORAL route every day	Jane Smith, MD
06/08/2010	COUMADIN	WARFARIN SODIUM	4 mg	take 1 tablet (4MG) by ORAL route every day	Jane Smith, MD
06/08/2010	COZAAR	LOSARTAN POTASSIUM	100 mg	take 1 tablet (100MG) by ORAL route every day	Jane Smith, MD
06/08/2010	LANOXIN	DIGOXIN	125 mcg	take 1 tablet (125MCG) by ORAL route every day	Jane Smith, MD
06/08/2010	LASIX	FUROSEMIDE	40 mg	take 1 tablet (40MG) by ORAL route every day	Jane Smith, MD
06/08/2010	NORVASC	AMLODIPINE BESYLATE	10 mg	take 1 tablet (10MG) by ORAL route every day	Jane Smith, MD
06/08/2010	TYLENOL	ACETAMINOPHEN	325 mg	take 2 tablet (650MG) by ORAL route every 4 hours	Jane Smith, MD
06/08/2010	VICODIN	HYDROCODONE BITIACETAMINOPHEN	500 mg	1/2 tab po q 2hr pm	Jane Smith, MD
11/18/2009	OMEGA 3-6-9	FISH OIL/FAT NO 8HRB COMB 137	1,200 mg	2 tablets PO qd	Jane Smith, MD

Sample Discrete Data Element Display

HEALTHDATA ARCHIVER | DEMO USER

NANCY L. DONNELLY | F | 11/28/1962 | 53 yrs | MRN: 122684 | Account: (All)

Account #: 122684 | Address 1: 50670 FARMINGDALE DR | Address 2: | City: GRANGER | State: IN | Home Phone: (574) 555-1211 | Cell Phone: (574) 555-1211 | Marital Status: M | Ins Type: BBA | PCP: HAVENBURG STEPH | Referring Doctor: YETTA PAUL T | Running Balance: \$34.00 | SSN: ###-##-9999

Problems	Date	Description	Provider
Appointments	03/27/2010	Lab Results	Jane R Smith, MD
Insurance	03/27/2010	X-ray	William P Jones, MD
Procedure History	03/27/2010	X-ray	William P Jones, MD
Allergies	03/27/2010	X-ray	William P Jones, MD
Vaccinations	03/27/2010	Radiology Results	William P Jones, MD
Medications	03/27/2010	Call Notes	William P Jones, MD
Vitals	02/24/2010	Drivers License	
Scanned Documents	01/15/2009	Insurance-Card	
Financial History	04/15/2009	Growth Chart - Yearly (kg)	
Transaction Posting (\$)	12/30/1982	Growth Chart - Yearly (lbs)	
	12/30/1982	Growth Chart - Monthly (kg)	
	12/01/1965		

Member Name: I M Sample
 Member ID: R99999999
 Enrollment Code: 104
 Effective Date: 01/01/2008
 Plan: 610239
 RxCN: FERFX
 RxCN: 65006500

Sample Scanned Documents

HEALTHDATA ARCHIVER | DEMO USER

NANCY L. DONNELLY | F | 11/28/1962 | 53 yrs | MRN: 122684 | Account: (All)

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Print

- Problems
- Appointments
- Insurance
- Procedure History
- Allergies
- Vaccinations
- Medications
- Vitals
- Scanned Documents
- Financial History
- Transaction Posting (\$)

Options

- Select All
- Filtered
- Documents

NANCY DONNELLY | F | 11/28/1962
 MRN: 122684 | Account: (All)
 NextGen System | 7/27/16 6:48 PM

Demographics:
 Account #: 122684 | Address 1: 50670 FARMINGDALE DR | Address 2: | City: GRANGER | State: IN | Home Phone: (574) 555-1211 | Cell Phone: (574) 555-1211 | Marital Status: M | Ins Type: BBA | PCP: HAVENBURG STEPH | Referring Doctor: YETTA PAUL T | Running Balance: \$34.00 | SSN: ###-##-9999

Problems

Start Date	End Date	ICD9	Description	Physician
06/10/2009		272.4	Hypertension	Tina P. Johnson, MD
06/10/2009		401.9	Hypertension	Tina P. Johnson, MD
02/09/2007		434.91	Stroke	Tina P. Johnson, MD

Appointments

Date	Time	Location	Reason	Provider	Status	Comments
10/21/2010	4:15pm	NSC	Flu like symptoms	Jane R Smith, MD	Attended	Patient called in and would like to be seen for flu like symptoms
03/22/2010	2:15pm	NSC	Annual physical	Jane R Smith, MD	Attended	This is an appointment for an annual physical
03/21/2010	9:15am	NSC	This is an appointment for an annual physical	Jane R Smith, MD	No Show	

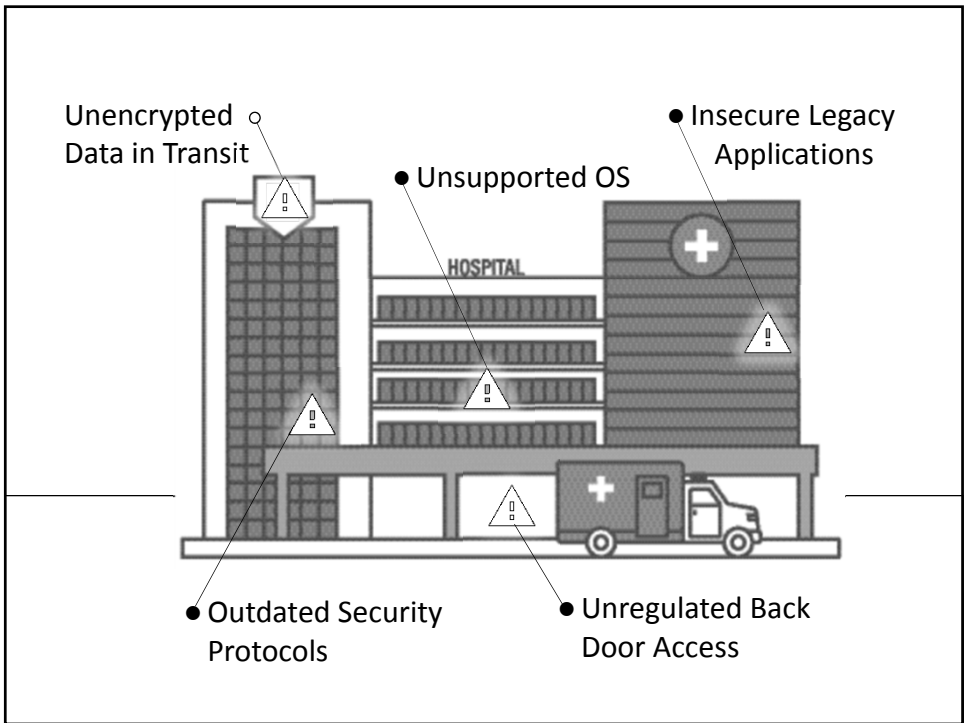
Sample Record Display/Print

Legacy Data Management
Supports a Strong Cybersecurity Defense



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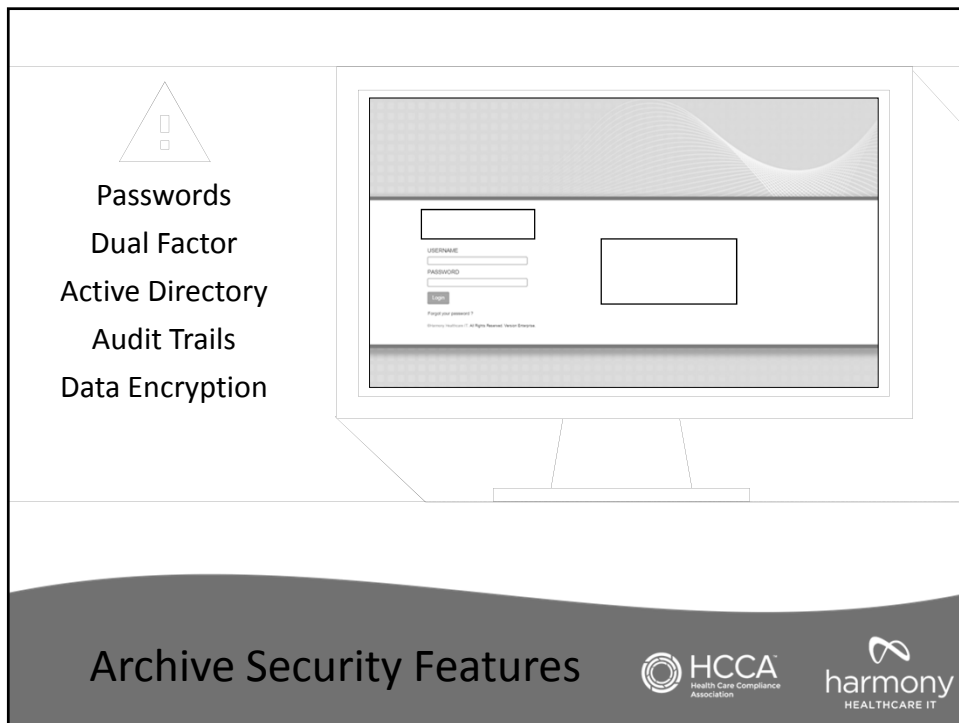




ONE Compromise
Opens the Door
to Disaster/Breach

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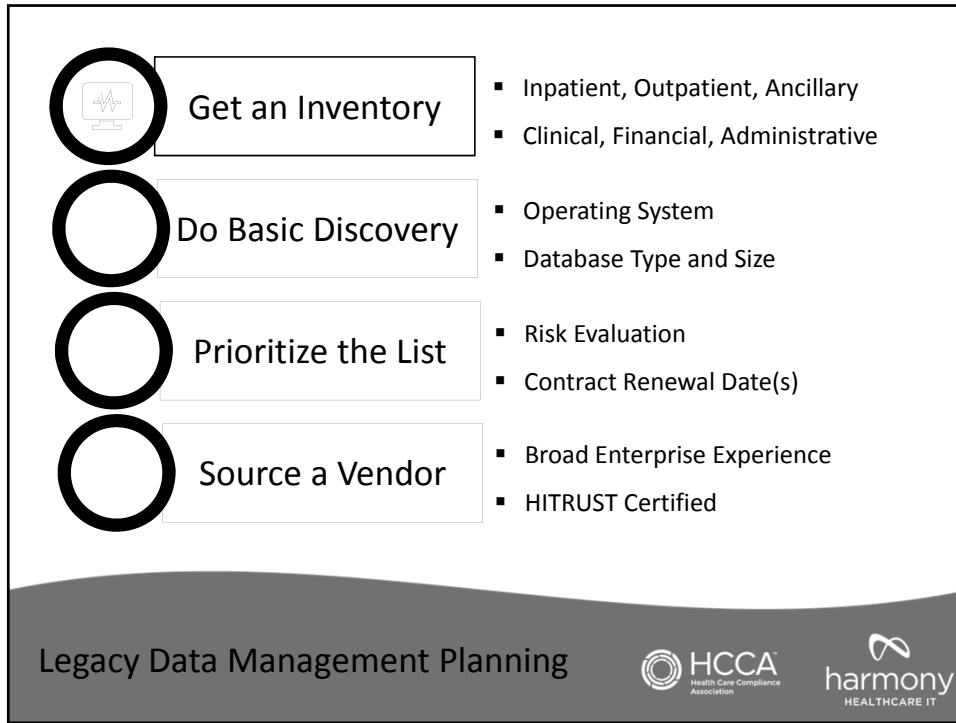
⚠

Passwords
Dual Factor
Active Directory
Audit Trails
Data Encryption

Archive Security Features

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The diagram illustrates a four-step process for Legacy Data Management Planning. Each step is represented by a circle icon followed by a text box and a list of key considerations:

- Get an Inventory**
 - Inpatient, Outpatient, Ancillary
 - Clinical, Financial, Administrative
- Do Basic Discovery**
 - Operating System
 - Database Type and Size
- Prioritize the List**
 - Risk Evaluation
 - Contract Renewal Date(s)
- Source a Vendor**
 - Broad Enterprise Experience
 - HITRUST Certified

Legacy Data Management Planning

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More Information

CYBERSECURITY

Healthcare Cybersecurity Strategy
Make a Big, yet Easy
Decision About
Credit & Legacy Data
Management Plan

PRIVACY & SECURITY

10 privacy and security questions
to ask your chosen data
archiving partner to make sure
your data is safe

LEGAL eDISCOVERY

Legal Focus eDiscovery
and Healthcare Record Retention

SYSTEM REPLACEMENT

System Replacement Impact
on Legacy Data Retention

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Other Resources
Infographic: How to create a legacy data management strategy

Other Resources
Health Data Archiver Brochure



Other Resources
Legacy Inventory Template

Other Resources
Industry Brief Data Archiving

Other Resources
Download RFP Template for Legacy EHR System Archive

Other Resources
Download RFP Template for Legacy HR and Payroll System Archive

More Information



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