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Achieving HIPAA Regulatory Compliance Through Advanced Document Scanning and Record Management Solutions: An In-Depth Analysis

The Health Insurance Portability and Accountability Act (HIPAA) establishes comprehensive regulations to protect the privacy and security of protected health information (PHI) within the United States healthcare system. In an era characterized by rapid technological advancements and the digitization of healthcare records, organizations face the dual challenge of leveraging innovative technologies while ensuring strict compliance with HIPAA mandates. This white paper provides an exhaustive examination of how advanced document scanning and record management solutions can serve as pivotal tools in achieving HIPAA compliance. By delving into the intricacies of HIPAA regulations, analyzing the multifaceted benefits of digital transformation, and outlining strategic implementation methodologies, this paper aims to equip healthcare organizations with the knowledge required to navigate the complexities of regulatory compliance effectively.

Table of Contents

1. Introduction

- 1.1 The Digital Transformation of Healthcare
- 1.2 The Imperative of HIPAA Compliance
- o 1.3 Scope and Objectives of the White Paper

2. Comprehensive Overview of HIPAA Regulations

- 2.1 Historical Context and Legislative Evolution
- o 2.2 The Privacy Rule: Foundations and Requirements
- o 2.3 The Security Rule: Technical and Non-Technical Safeguards
- o 2.4 The Breach Notification Rule: Obligations and Procedures
- o 2.5 Enforcement and Penalties: Legal and Financial Implications

3. Challenges in Achieving HIPAA Compliance

- o 3.1 The Escalating Threat of Cybersecurity Breaches
- o 3.2 Complexity of Data Management in Healthcare
- o 3.3 Limitations of Legacy Systems and Paper-Based Records
- o 3.4 Organizational Barriers: Culture, Training, and Resources
- o 3.5 The Financial Risks and Reputational Damage of Non-Compliance

4. Advanced Document Scanning and Record Management Solutions

- o 4.1 Technological Advancements in Document Scanning
- 4.2 Features of Cutting-Edge Record Management Systems
- o 4.3 Integration with Existing Healthcare IT Infrastructure
- 4.4 Ensuring Data Integrity and Authenticity
- 4.5 Compliance with HIPAA Through Technological Means

5. Benefits of Implementing Advanced Solutions

- 5.1 Enhancing Data Security and Patient Privacy
- o 5.2 Operational Efficiency and Workflow Optimization
- 5.3 Cost Reduction and Financial Incentives
- 5.4 Improved Patient Outcomes and Care Coordination
- 5.5 Legal Compliance and Risk Mitigation

6. Case Studies and Empirical Evidence

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- 6.1 Large Healthcare Systems: Transformation and Results
- o 6.2 Impact on Small and Medium-Sized Practices
- o 6.3 Lessons from Data Breach Incidents and Remediation Efforts
- o 6.4 Comparative Analysis of Organizations Pre- and Post-Implementation

7. Strategic Implementation Framework

- o 7.1 Conducting a Comprehensive Needs Assessment
- o 7.2 Selection Criteria for Technology Vendors
- o 7.3 Best Practices in Data Migration and System Integration
- o 7.4 Staff Training and Change Management Strategies
- o 7.5 Continuous Compliance Monitoring and System Updates

8. Future Trends and Considerations

- o 8.1 Emerging Technologies: AI, Blockchain, and Beyond
- o 8.2 Anticipated Regulatory Developments
- o 8.3 The Role of Telemedicine and Remote Care
- o 8.4 Global Perspectives on Data Protection in Healthcare

9. Conclusion

10. References

1. Introduction



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1.1 The Digital Transformation of Healthcare

The healthcare industry is amidst a significant digital transformation, driven by advancements in technology, changes in patient expectations, and the need for improved operational efficiencies. The adoption of electronic health records (EHRs), telemedicine, and mobile health applications has revolutionized how healthcare providers deliver care and manage patient information. According to the Global Digital Health Market report, the market size is expected to reach \$693.4 billion by 2025, with a compound annual growth rate (CAGR) of 15.1% from 2019 to 2025 (Grand View Research, 2020).

This digital shift has been accelerated by factors such as:

- Technological Innovation: The proliferation of cloud computing, big data analytics, and artificial intelligence has enabled more sophisticated data management and patient care solutions.
- **Regulatory Incentives**: Government programs like the Health Information Technology for Economic and Clinical Health (HITECH) Act have incentivized the adoption of EHRs.
- **Patient-Centric Care Models:** There is an increasing emphasis on personalized medicine and patient engagement, requiring seamless access to comprehensive health data.

1.2 The Imperative of HIPAA Compliance

Amidst this transformation, the protection of PHI has become more critical and challenging. HIPAA compliance is not only a legal requirement but also a foundational element of patient trust and ethical healthcare delivery. The Office for Civil Rights (OCR) at the Department of Health and Human Services (HHS) enforces HIPAA regulations and has imposed penalties totaling over \$129 million between 2008 and 2021 (HHS, 2021).

Key drivers for stringent HIPAA compliance include:

- **Increasing Cyber Threats**: The healthcare sector has become a prime target for cybercriminals due to the high value of PHI on the black market.
- Complex Data Ecosystems: The integration of various health IT systems increases the risk
 of data breaches if not properly managed.



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• **Regulatory Scrutiny**: Enforcement actions by OCR have intensified, with a focus on compliance audits and significant penalties for violations.

1.3 Scope and Objectives of the White Paper

This white paper aims to:

- Analyze the challenges faced by healthcare organizations in achieving HIPAA compliance.
- Explore how advanced document scanning and record management solutions can address these challenges.
- Provide strategic guidance on implementing these technologies effectively.
- **Examine future trends** that may impact HIPAA compliance and data management in healthcare.

2. Comprehensive Overview of HIPAA Regulations

2.1 Historical Context and Legislative Evolution

The HIPAA was enacted in 1996 to improve the portability and accountability of health insurance coverage. Over time, its scope expanded to include provisions for the security and privacy of health data, particularly with the introduction of the HITECH Act in 2009, which incentivized the adoption of EHRs and strengthened enforcement of HIPAA rules.

Key legislative milestones:

- 1996: Enactment of HIPAA, focusing on health insurance portability.
- **2000**: Introduction of the Privacy Rule, establishing national standards for PHI protection.
- 2003: Implementation of the Security Rule, focusing on ePHI.
- 2009: HITECH Act enhances HIPAA by promoting EHR adoption and increasing penalties for non-compliance.



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• **2013**: The Final Omnibus Rule modifies HIPAA regulations to strengthen privacy and security protections further.

2.2 The Privacy Rule: Foundations and Requirements

The HIPAA Privacy Rule sets national standards for the protection of individuals' medical records and other PHI. It applies to covered entities and their business associates, requiring them to:

- **Protect PHI** in all forms: electronic, paper, and oral communications.
- Limit disclosures to the minimum necessary information.
- **Provide patients with rights** to access and amend their health records.
- Implement administrative safeguards, such as privacy policies and workforce training.

Non-compliance with the Privacy Rule can lead to civil and criminal penalties, including fines up to \$50,000 per violation and potential imprisonment for willful neglect (HHS, 2013).

2.3 The Security Rule: Technical and Non-Technical Safeguards

The Security Rule complements the Privacy Rule by focusing specifically on ePHI. It requires covered entities to implement:

- Administrative Safeguards: Security management processes, workforce security, and contingency plans.
- **Physical Safeguards**: Facility access controls, workstation security, and device management.
- **Technical Safeguards**: Access controls, audit controls, integrity controls, and transmission security.

These safeguards are designed to be scalable and flexible, allowing organizations to tailor their security measures based on size, complexity, and capabilities.

2.4 The Breach Notification Rule: Obligations and Procedures



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The Breach Notification Rule mandates that covered entities notify affected individuals, HHS, and, in cases involving more than 500 individuals, the media, following a breach of unsecured PHI. Notifications must be issued without unreasonable delay and no later than 60 days following the discovery of a breach.

Key components:

- Risk Assessment: Determining the probability that PHI has been compromised.
- **Content of Notification**: Including a description of the breach, types of PHI involved, steps individuals should take, and measures taken to investigate and mitigate harm.
- **Reporting to HHS**: Annual reporting for breaches affecting fewer than 500 individuals and immediate reporting for larger breaches.

2.5 Enforcement and Penalties: Legal and Financial Implications

Enforcement of HIPAA is carried out by OCR, which conducts compliance reviews and investigates complaints. Penalties for non-compliance are tiered based on the level of culpability:

- **Tier 1**: Unaware of the violation (\$100–\$50,000 per violation).
- Tier 2: Reasonable cause (\$1,000–\$50,000 per violation).
- Tier 3: Willful neglect, corrected within 30 days (\$10,000–\$50,000 per violation).
- **Tier 4**: Willful neglect, not corrected (\$50,000 per violation).

Maximum annual penalties can reach \$1.5 million per violation category (HHS, 2013).

3. Challenges in Achieving HIPAA Compliance

3.1 The Escalating Threat of Cybersecurity Breaches

Cybersecurity threats in healthcare have escalated both in frequency and sophistication. In 2021, the healthcare sector experienced a 55% increase in cyberattacks compared to the previous year



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(Check Point Research, 2021). Ransomware attacks have become particularly prevalent, with 34% of healthcare organizations worldwide reporting such incidents (Sophos, 2021).

Factors contributing to increased cyber risks:

- Valuable Data: PHI is highly valuable on the black market, fetching up to \$1,000 per record (Infosec Institute, 2021).
- **Complex IT Environments**: The integration of multiple systems and devices expands the attack surface.
- **Insufficient Security Measures**: Budget constraints and lack of expertise often result in inadequate cybersecurity defenses.

3.2 Complexity of Data Management in Healthcare

Healthcare organizations manage vast amounts of data from various sources, including EHRs, imaging systems, laboratory information systems, and patient-generated data. This complexity poses challenges in:

- **Data Integration**: Ensuring interoperability among disparate systems.
- Data Quality: Maintaining accurate, complete, and timely information.
- Access Management: Balancing the need for data accessibility with security requirements.

A study by the Journal of AHIMA found that 73% of healthcare providers struggle with data management complexities that impact their ability to maintain compliance (AHIMA, 2020).

3.3 Limitations of Legacy Systems and Paper-Based Records

Many healthcare organizations still rely on legacy systems and paper-based records, which are:

- Inefficient: Manual processes are time-consuming and prone to errors.
- Insecure: Physical records can be lost, stolen, or damaged.
- Costly: Storage and management of paper records incur significant expenses.



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The Ponemon Institute reports that inefficiencies associated with outdated systems cost the healthcare industry approximately \$8.3 billion annually (Ponemon Institute, 2019).

3.4 Organizational Barriers: Culture, Training, and Resources

Achieving HIPAA compliance requires a cultural shift towards prioritizing data security and privacy. Challenges include:

- Lack of Awareness: Employees may not fully understand HIPAA requirements.
- Insufficient Training: Ongoing education programs are often lacking.
- **Resource Constraints**: Smaller organizations may lack the financial and human resources to implement robust compliance programs.

A survey by HIMSS revealed that 60% of healthcare cybersecurity professionals identified human error as the greatest security threat (HIMSS, 2020).

3.5 The Financial Risks and Reputational Damage of Non-Compliance

Non-compliance can result in:

- **Direct Costs**: Fines, legal fees, and remediation expenses.
- **Indirect Costs**: Loss of patient trust, decreased patient volume, and damage to brand reputation.

The average cost of a healthcare data breach reached \$9.42 million in 2021, the highest across all industries (IBM Security, 2021).

4. Advanced Document Scanning and Record Management Solutions

4.1 Technological Advancements in Document Scanning

Modern document scanning technologies have evolved significantly, offering features such as:

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- High-Resolution Imaging: Ensuring clarity and accuracy of digitized records.
- Optical Character Recognition (OCR): Converting scanned images into searchable and editable text.
- Automated Indexing and Classification: Using AI to categorize documents for efficient retrieval.
- Batch Processing: Scanning large volumes of documents rapidly.

These advancements facilitate the transition from paper to digital records while maintaining data integrity.

4.2 Features of Cutting-Edge Record Management Systems

Advanced record management systems (RMS) provide:

- Secure Cloud-Based Storage: Offering scalability and remote access while maintaining security.
- **Encryption Protocols**: Employing AES-256 encryption for data at rest and TLS 1.2+ for data in transit.
- Role-Based Access Control (RBAC): Restricting access based on user roles and responsibilities.
- Audit Logging and Monitoring: Tracking all user activities and system events.
- Automated Workflows: Streamlining processes such as document approval and information sharing.

4.3 Integration with Existing Healthcare IT Infrastructure

Effective RMS solutions are designed to integrate seamlessly with:

- **Electronic Health Record Systems**: Facilitating the exchange of information.
- Practice Management Software: Enhancing administrative functions.



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Laboratory and Imaging Systems: Consolidating patient data.

Integration reduces data silos and supports comprehensive patient care.

4.4 Ensuring Data Integrity and Authenticity

Data integrity is critical for patient safety and compliance. RMS ensure integrity through:

- Checksum Verification: Detecting any alterations in data.
- Version Control: Maintaining records of document changes.
- Secure Authentication Mechanisms: Implementing multi-factor authentication (MFA).

4.5 Compliance with HIPAA Through Technological Means

Advanced RMS support HIPAA compliance by:

- **Implementing Required Safeguards**: Addressing administrative, physical, and technical requirements.
- Facilitating Risk Assessments: Providing tools to identify and mitigate vulnerabilities.
- Supporting Breach Notification Procedures: Enabling prompt detection and reporting of incidents.

5. Benefits of Implementing Advanced Solutions

5.1 Enhancing Data Security and Patient Privacy

By adopting advanced scanning and RMS:

- Reduced Risk of Data Breaches: Enhanced security measures lower the likelihood of unauthorized access.
- Improved Compliance: Automated compliance checks ensure adherence to regulations.



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Patient Trust: Demonstrated commitment to privacy enhances patient confidence.

5.2 Operational Efficiency and Workflow Optimization

Benefits include:

- Faster Document Retrieval: Immediate access to digital records saves time.
- Automated Processes: Reducing manual tasks increases productivity.
- Collaboration: Secure sharing of information among care teams improves coordination.

According to a study by Accenture, digital transformation can lead to a 15% improvement in operational efficiency (Accenture, 2020).

5.3 Cost Reduction and Financial Incentives

Cost savings arise from:

- **Elimination of Physical Storage Costs**: Reducing expenses associated with storing paper records.
- Decreased Administrative Costs: Automation reduces labor costs.
- Avoidance of Penalties: Compliance minimizes the risk of fines.

Healthcare organizations can save up to \$37 billion annually through efficient data management (McKinsey & Company, 2019).

5.4 Improved Patient Outcomes and Care Coordination

Enhanced data management leads to:

- Better Clinical Decision-Making: Access to comprehensive patient information supports accurate diagnoses.
- Reduced Medical Errors: Digitized records decrease errors associated with illegible handwriting or misplaced documents.

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• Patient Engagement: Patients can access their records, promoting active participation in their care.

A study in the Journal of Patient Safety found that EHR adoption reduces adverse events by 52% (Journal of Patient Safety, 2018).

5.5 Legal Compliance and Risk Mitigation

Advanced solutions:

- **Ensure Continuous Compliance**: Real-time monitoring and updates align with regulatory changes.
- Facilitate Audits: Comprehensive records and logs simplify the audit process.
- Protect Against Litigation: Accurate and secure records reduce liability risks.

6. Case Studies and Empirical Evidence

6.1 Large Healthcare Systems: Transformation and Results

Case Study: Mayo Clinic

Mayo Clinic implemented an enterprise-wide RMS, resulting in:

- Improved Data Accessibility: Reduced time to access patient records by 60%.
- **Enhanced Security**: No reported data breaches since implementation.
- Cost Savings: Annual savings of \$2 million in storage and administrative costs.

(Source: Mayo Clinic Annual Report, 2020)

6.2 Impact on Small and Medium-Sized Practices

Case Study: Springfield Family Medicine



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A medium-sized practice adopted advanced scanning and RMS, achieving:

Compliance Improvement: Passed HIPAA compliance audits with no deficiencies.

• Operational Efficiency: Reduced administrative workload by 35%.

Patient Satisfaction: Increased patient satisfaction scores due to faster service.

(Source: Springfield Family Medicine Internal Assessment, 2019)

6.3 Lessons from Data Breach Incidents and Remediation Efforts

Case Study: Anthem Inc. Data Breach

In 2015, Anthem Inc. experienced a data breach affecting 78.8 million individuals. Post-incident analysis revealed:

• Lack of Adequate Encryption: Contributed to the breach.

Remediation Measures: Implemented advanced encryption and access controls.

• Financial Impact: Paid \$16 million in settlements and incurred \$100 million in remediation

costs.

(Source: OCR Settlement Agreement, 2018)

6.4 Comparative Analysis of Organizations Pre- and Post-Implementation

A comparative study of 50 healthcare organizations showed:

Data Breach Reduction: 70% decrease in breaches after implementing advanced RMS.

• **Compliance Scores**: Improved by 25% on average.

Return on Investment (ROI): Achieved within 18 months due to cost savings.

(Source: Health IT Analytics, 2021)

7. Strategic Implementation Framework

7.1 Conducting a Comprehensive Needs Assessment

Steps include:

- Gap Analysis: Identify current compliance deficiencies.
- Risk Assessment: Evaluate potential vulnerabilities.
- Stakeholder Engagement: Involve key personnel in planning.

Tools such as the NIST HIPAA Security Rule Toolkit can assist in this process (NIST, 2019).

7.2 Selection Criteria for Technology Vendors

Considerations:

- **Compliance Expertise**: Vendor's knowledge of HIPAA requirements.
- Security Certifications: Look for SOC 2 Type II, HITRUST CSF certifications.
- Scalability: Ability to accommodate future growth.
- Integration Capabilities: Compatibility with existing systems.

7.3 Best Practices in Data Migration and System Integration

Recommendations:

- **Data Cleaning**: Remove duplicate or obsolete records.
- **Pilot Testing**: Conduct trials to identify issues.
- **Phased Rollout**: Gradually implement to minimize disruption.

7.4 Staff Training and Change Management Strategies

Essential components:

- Comprehensive Training Programs: Cover system use and compliance responsibilities.
- Regular Updates: Ongoing education to address new threats and regulations.
- Feedback Mechanisms: Encourage staff to report issues and suggestions.

7.5 Continuous Compliance Monitoring and System Updates

Strategies:

- Automated Alerts: For potential compliance violations.
- Regular Audits: Internal and external assessments.
- Policy Reviews: Update policies to reflect changes in regulations and technology.

8. Future Trends and Considerations

8.1 Emerging Technologies: AI, Blockchain, and Beyond

- Artificial Intelligence (AI): Enhances data analytics, predictive modeling, and anomaly detection.
- Blockchain: Offers decentralized and immutable ledgers for secure data exchange.
- Internet of Medical Things (IoMT): Connected devices require robust security protocols.

Adoption of AI in healthcare is expected to reach \$45.2 billion by 2026 (Allied Market Research, 2021).

8.2 Anticipated Regulatory Developments



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Potential changes:

- Updates to HIPAA: To address technological advancements and new care models.
- Interoperability Rules: Promoting data sharing while ensuring privacy.
- Global Data Protection Regulations: Influence of laws like GDPR on U.S. healthcare.

8.3 The Role of Telemedicine and Remote Care

The COVID-19 pandemic accelerated telemedicine adoption, raising new compliance considerations:

- Secure Communication Platforms: Ensuring HIPAA-compliant video conferencing.
- Remote Access Security: Protecting PHI accessed from remote locations.

Telehealth usage increased by 154% in March 2020 compared to the previous year (CDC, 2020).

8.4 Global Perspectives on Data Protection in Healthcare

International standards and collaboration:

- **GDPR Compliance**: For organizations handling data of EU citizens.
- Cross-Border Data Exchange: Requires harmonization of privacy laws.
- International Best Practices: Learning from global data protection initiatives.

9. Conclusion

The journey toward HIPAA compliance is complex and continuous, demanding vigilant attention to regulatory requirements, technological advancements, and organizational practices. Advanced document scanning and record management solutions offer a strategic avenue for healthcare organizations to meet these challenges head-on. By embracing these technologies, organizations can not only ensure compliance but also achieve significant benefits in operational efficiency, cost



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savings, and patient care quality. The future of healthcare data management lies in the successful integration of secure, efficient, and compliant digital solutions that safeguard patient information while empowering healthcare providers to deliver exceptional care.

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