



# EDI Sterling Integrator

## Introduction to EDI

Understanding the concept of Electronic Data Interchange (EDI) and its significance in modern business operations.

Exploring the history and evolution of EDI, from its inception to current industry standards.

Discussing the benefits of using EDI, including increased efficiency, reduced errors, and improved business relationships.

## EDI Standards

Exploring the ANSI X12 standard, which is widely used in North America, and the UN/EDIFACT standard, which is more prevalent in Europe and other regions.

Understanding the structure of EDI standards, including segments, elements, and codes.

Comparing and contrasting different industry-specific EDI standards, such as those used in healthcare (HIPAA) and retail (EDIFACT).

## EDI Components

Understanding the different components of an EDI message, including transaction sets, envelopes, and acknowledgments.

Exploring the various communication protocols used in EDI, such as AS2, FTP, and VANs (Value Added Networks).

Discussing the role of EDI translators in converting data between different formats, such as XML, CSV, and EDI.

## EDI Mapping

Learning the process of mapping data between different formats in EDI, including the use of mapping tools and software.

Understanding the importance of data mapping in ensuring that information is accurately transmitted between trading partners.

Practicing hands-on mapping exercises to reinforce learning and build mapping skills.

## EDI Implementation

Planning an EDI implementation project, including setting goals, defining requirements, and establishing timelines.

Identifying the key stakeholders involved in an EDI implementation and their roles and responsibilities.

Addressing common challenges in EDI implementation, such as data quality issues and

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resistance to change.

## EDI Integration

Integrating EDI with ERP (Enterprise Resource Planning) systems to streamline business processes and improve data accuracy.

Exploring how EDI can be integrated with e-commerce platforms to automate order processing and inventory management.

Discussing best practices for integrating EDI with other systems and applications within an organization.

## EDI Security

Identifying security risks associated with EDI, such as data breaches and unauthorized access.

Discussing security measures that can be implemented to protect EDI data, including encryption, authentication, and access controls.

Understanding compliance and regulatory requirements related to EDI security, such as HIPAA and GDPR.

## Advanced EDI Topics

Exploring advanced mapping techniques, such as nested loops and conditional mapping. Discussing the use of EDI in supply chain management, including vendor-managed inventory (VMI) and just-in-time (JIT) inventory systems.

Investigating real-time EDI solutions and their benefits for businesses operating in fast-paced environments.

## Case Studies and Practical Examples

Analyzing real-world examples of successful EDI implementations in various industries, such as retail, healthcare, and manufacturing.

Participating in hands-on exercises with EDI tools and software to gain practical experience in working with EDI data.

Discussing best practices and lessons learned from actual EDI implementation projects.

## Future Trends in EDI

Discussing the rise of cloud-based EDI solutions and their potential impact on traditional EDI systems.