Electronic Data Interchange (EDI)



Trading Partners







What is B2B?

 Business-to-Business describes commerce transactions between business, such as between Manufacturer and wholesaler or between wholesaler and retailer.

Advantages: Cost saving Time saving



Need of Information

- Business thrives on information-the more efficiently Information is communicated and accessed, the healthier is the organization.
- Before EDI, the exchange of information is generally limited to mail, fax etc



Electronic Data Interchange

- EDI is a set of standardized formats for different types of Business documents that allow otherwise incompatible business data processing systems to exchange documents with out manual intervention.
- Advantages of EDI:
 Less Human Intervention.
 High Throughput.
 Few Errors.
 Ability to do just in time(JIT).
 More Security.
- Companies using EDI:
 Retail Industry, Banking, Health care, Government Sector.



Different EDI Standards

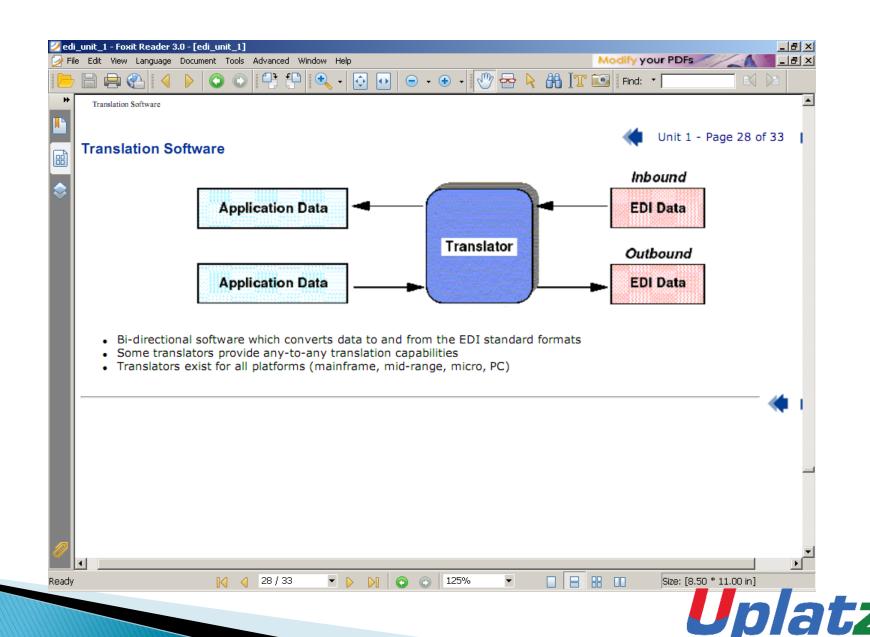
- American National Standards Institute (ANSI X12 Committee).
- EDIFACT (EDI for Administration, Commerce and Transport).
- TDCC (Transportation Data Coordination Committee)
- VICS (Voluntary Inter Industry Communication Standard).

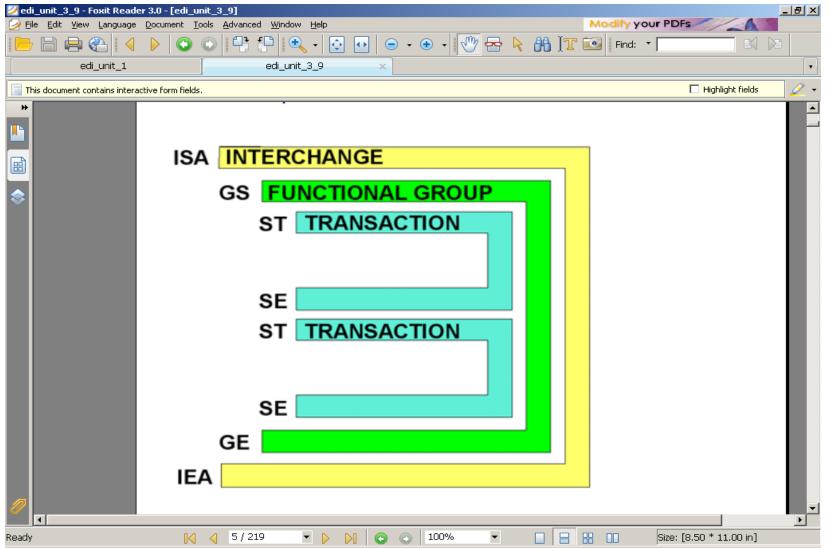


Translation

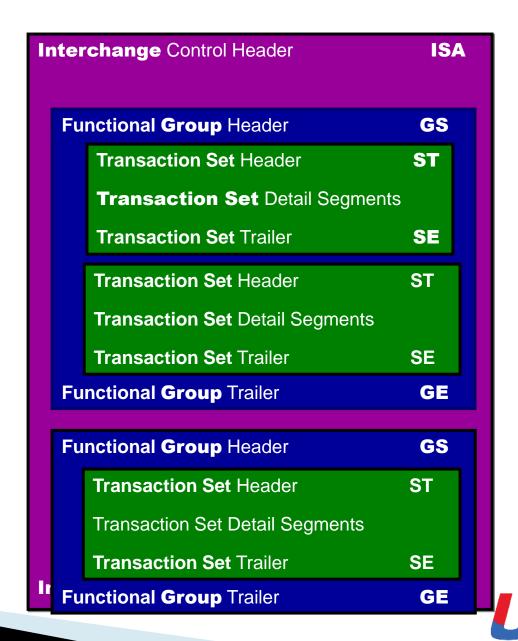
- Translation Software translates business documents into a common EDI standard.
- It also translates EDI Standard data into a format suitable for application Processing.









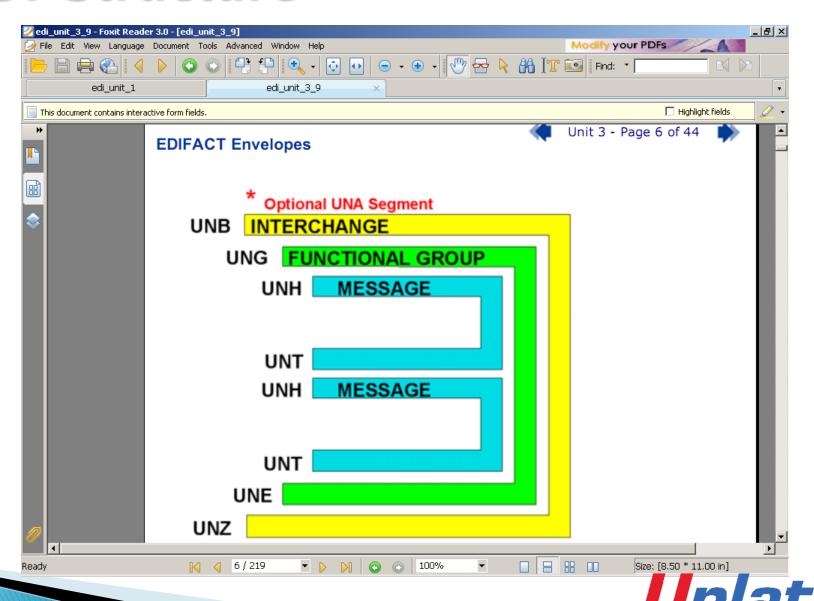


Types of Envelopes

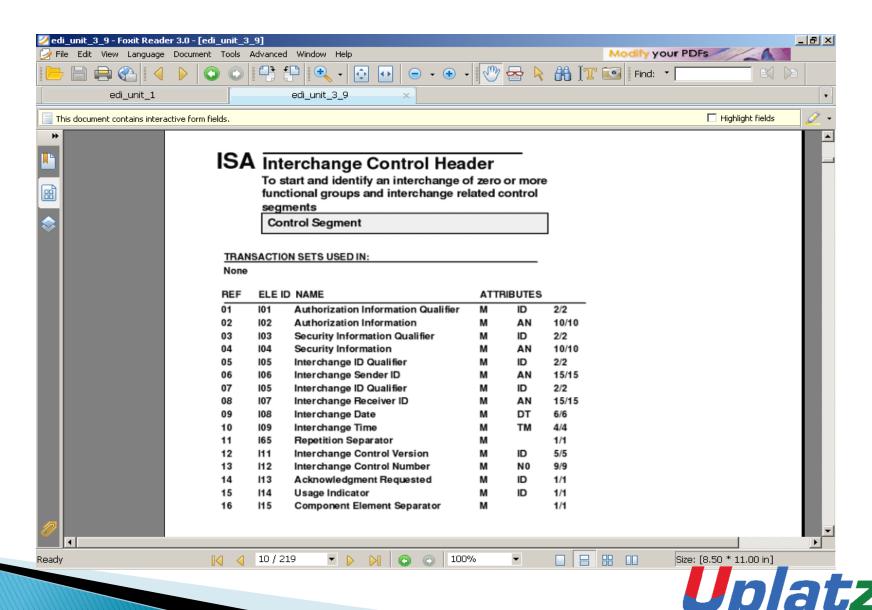
- Message Envelopes: A specific document describes the types of envelope document and the no. of segments included in that Document.
- Functional Group Envelopes: All message envelopes of a specific transaction set type are enclosed in this envelope.
- Interchange Envelopes: Enclose all functional group envelopes being sent to the same destination.



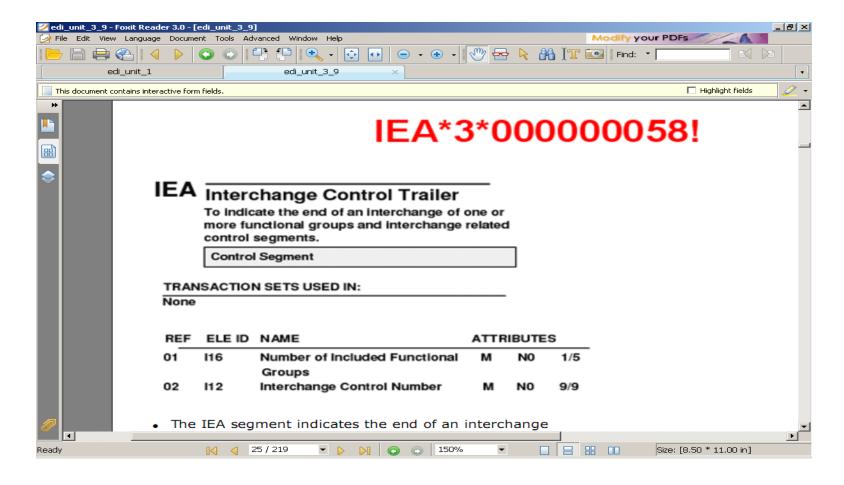
EDIFACT Structure



ISA (Interchange Control Header)

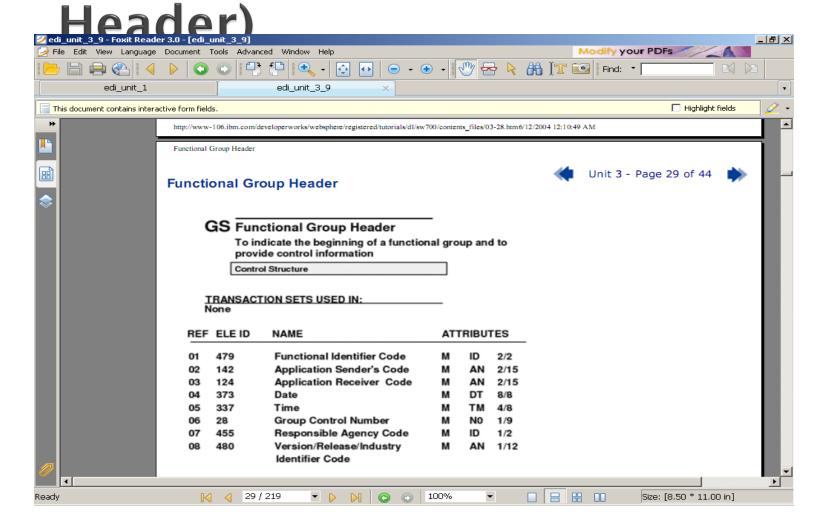


IEA (Interchange Control Trailer)



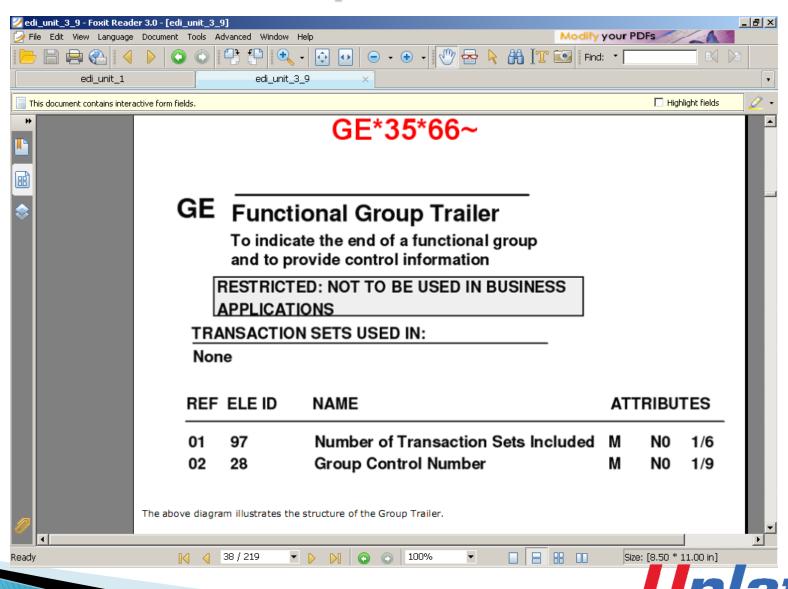


GS (Functional Group

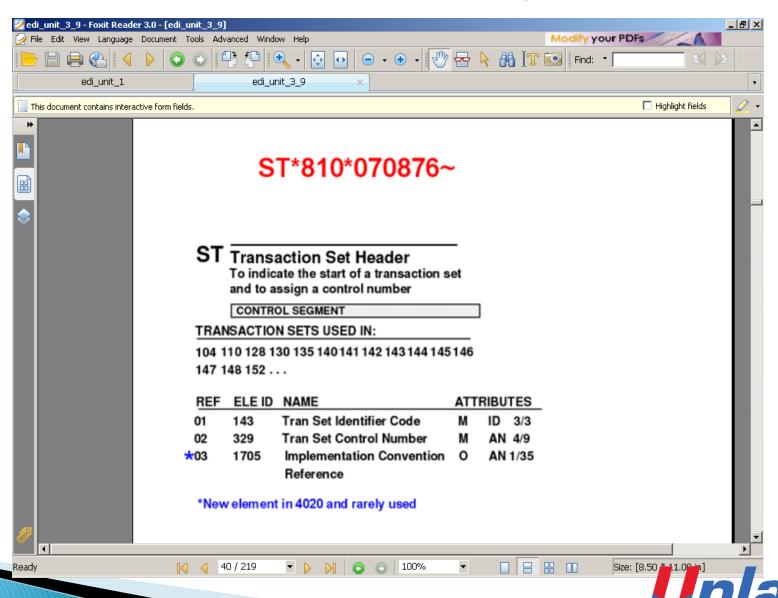




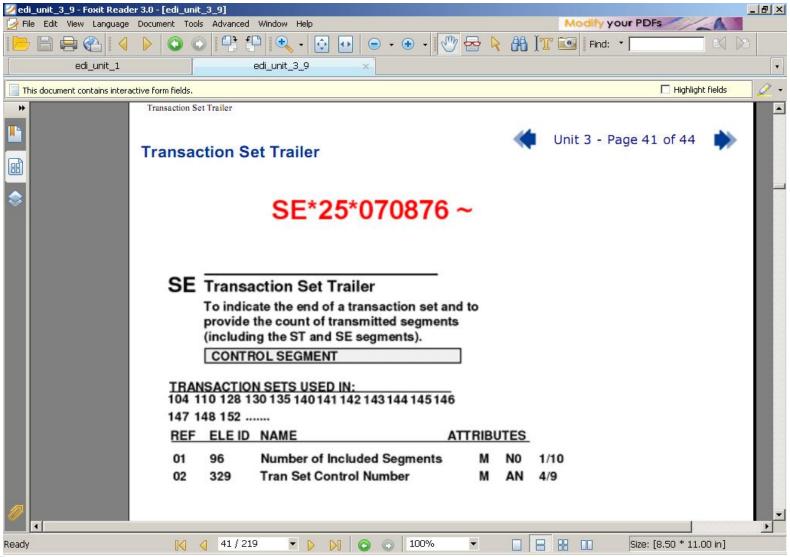
GE (Functional Group Trailer)



ST (Transaction Set Header)

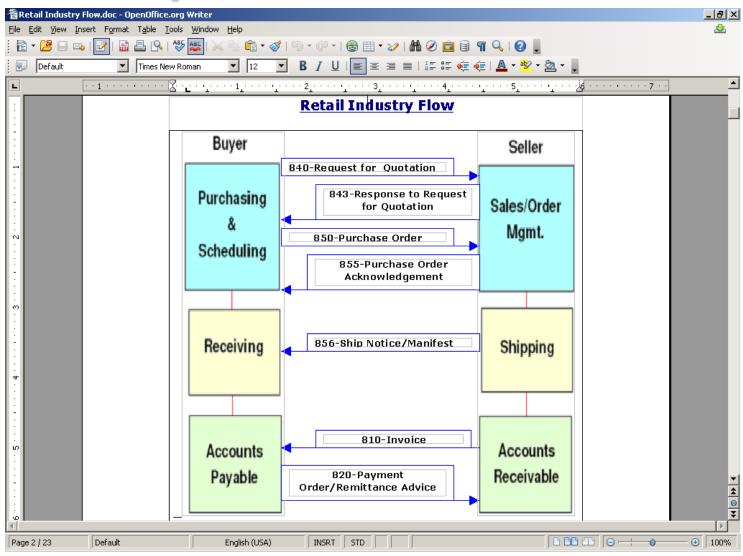


SE(Transaction Set Trailer)



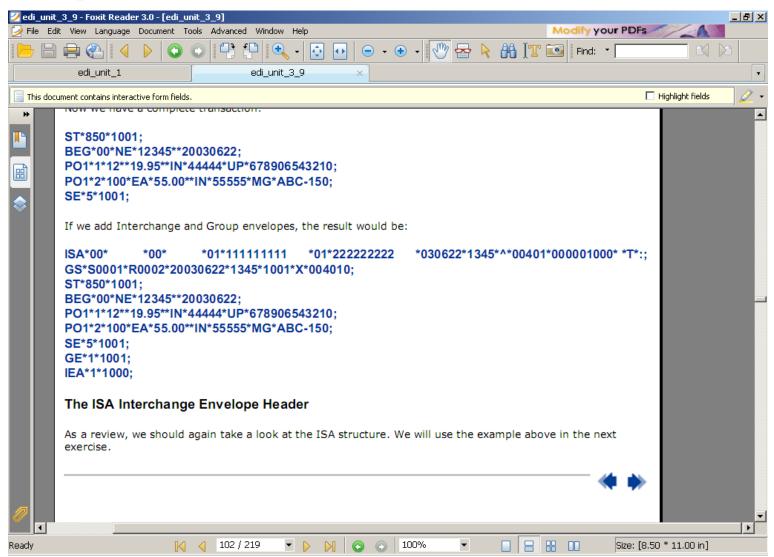


Retail Industry Flow





Sample Input





EDI Tools

- Sterling Integrator
- Biztalk



Overview of SI

▶ IBM® Sterling B2B Integrator enables the security-rich integration of complex B2B processes with diverse partner communities. It provides a single, flexible B2B gateway that enables companies to meet a wide range of B2B integration needs. IBM Sterling B2B Integrator can improve business processes beyond enterprise boundaries and increase visibility into and across supply and demand chains.



IBM Sterling B2B Integrator enables you to:

- Improve business processes beyond enterprise boundaries.
- Use security-rich integration to connect with business partners.
- Employ a range of communications methods to meet wideranging technology requirements including demands for high performance, high availability networks.
- Manage data and applications with flexible tools.
- Work with IBM Sterling B2B integrator Mobile to access capabilities from mobile devices.



THANK YOU !!!!

