

Share that you're here on social, use hashtag

#EFCSupplyChain

Introducing Electro-Federation Canada's

2019 Supply Chain Conference

Shorter | Faster | Smarter

November 25-26, 2019

Pearson Convention Center - Toronto

ELECTRO
FEDERATION
CANADA **EFC**

EDI 101

An Introduction to Electronic Data Interchange and its benefits



Agenda

1. Introduction
2. Why Automate Order and Invoicing Transactions
3. Data Transfer Options
4. What is EDI
5. What are EDI Documents
6. How does EDI work
7. EDI Integrations

Introduction – Rick Pozniak

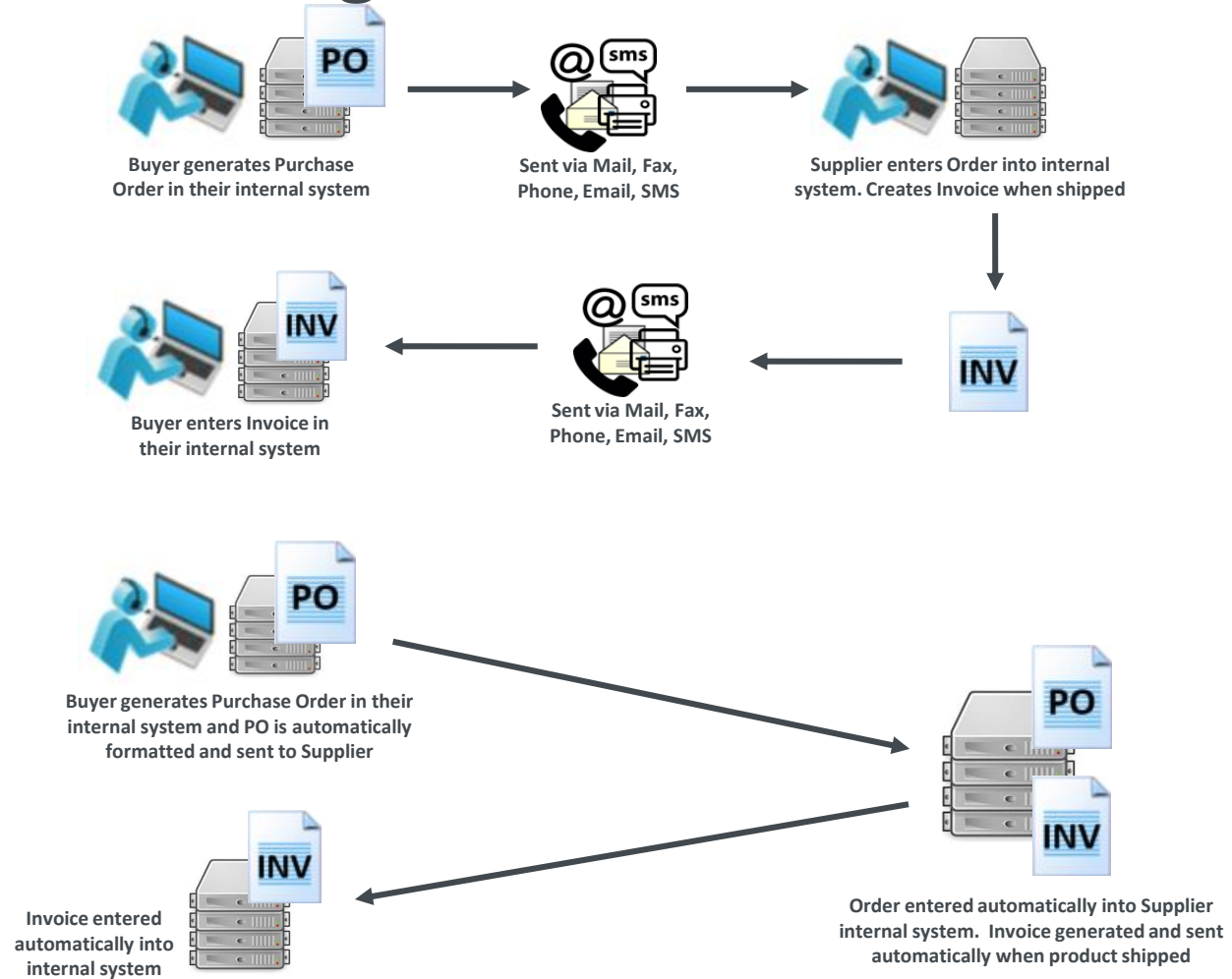


- Canadian Electrical Industry lifer
- Sonepar and Rexel organizations
- Experience in Sales, Marketing, Industrial Automation, Business Development and Ecommerce
- Recently graduated from University of British Columbia's Digital Leadership program

Why Automate Order and Invoicing Transactions

Most orders have followed the same manual ordering process for decades. It involves entering and re-entering data over and over, taking time and creating errors

By creating maps that read the critical information on documents and following common standards on transmission, Purchase Orders and Invoices and be transmitted and consumed automatically



Benefits of Transactional Automation

- Reduced costs
- Reduced errors
- Shorter business cycle
- Improved business efficiency
- Improved Data Security
- Ease of Auditing
- Strategic Business Benefits
- Improved Data Quality

Different Options For Digital Data Transfer

- M2M
- EDI
- XML
- API's
- Others

What is EDI?

Electronic Data Interchange (EDI) is the computer-to-computer exchange of business documents, such as purchase orders and invoices, in a standard electronic format between business partners, such as manufacturers and distributors.

Different Types of EDI Documents

Order Series (ORD)

180	Return Merchandise Authorization and Notification
290	Cooperative Advertising Agreements
810	Invoice
816	Organizational Relationships
832	Price/Sales Catalog
846	Inventory Inquiry/Advice
850	Purchase Order
855	Purchase Order Acknowledgment
856	Ship Notice/Manifest
857	Shipment and Billing Notice
860	Purchase Order Change Request - Buyer Initiated
865	Purchase Order Change Acknowledgment/Request - Seller Initiated
875	Grocery Products Purchase Order
876	Grocery Products Purchase Order Change
877	Manufacturer Coupon Family Code Structure
880	Grocery Products Invoice
881	Manufacturer Coupon Redemption Detail
885	Retail Account Characteristics
887	Coupon Notification
888	Item Maintenance

Materials Series (WAR)

511	Requisition
517	Material Obligation Validation
527	Material Due-In and Receipt
840	Request for Quotation
843	Response to Request for Quotation
845	Price Authorization Acknowledgment/Status
847	Material Claim
851	Asset Schedule
878	Product Authorization/De-authorization
879	Price Information
893	Item Information Request

Financial Series (FIN)

248	Account Assignment/Inquiry and Service/Status
810	Invoice
811	Consolidated Service Invoice/Statement
812	Credit/Debit Adjustment
818	Commission Sales Report
819	Operating Expense Statement
820	Payment Order/Remittance Advice
821	Financial Information Reporting
822	Account Analysis
823	Lockbox
824	Application Advice
827	Financial Return Notice
828	Debit Authorization
829	Payment Cancellation Request
831	Application Control Totals
859	Freight Invoice
980	Functional Group Totals

Warehousing Series (WAR)

883	Market Development Fund Allocation
884	Market Development Fund Settlement
886	Customer Call Reporting
891	Deduction Research Report
940	Warehouse Shipping Order
943	Warehouse Stock Transfer Shipment Advice
944	Warehouse Stock Transfer Receipt Advice
945	Warehouse Shipping Advice
947	Warehouse Inventory Adjustment Advice
990	Response to a Load Tender

Delivery Series (DEL)

219	Logistics Service Request
220	Logistics Service Response
222	Cartage Work Assignment
223	Consolidators Freight Bill and Invoice
224	Motor Carrier Summary Freight Bill Manifest
225	Response to a Cartage Work Assignment
250	Purchase Order Shipment Management Document
853	Routing and Carrier Instruction
854	Shipment Delivery Discrepancy Information
856	Ship Notice/Manifest
857	Shipment and Billing Notice
858	Shipment Information
862	Shipping Schedule
882	Direct Store Delivery Summary Information

Most Commonly Used EDI Documents

- Purchase Order (850)
- Invoice (810)
- Purchase Order Acknowledgment (855)
- Advance Ship Notice (856)
- Product Catalog (832)
- Remittance Advice (820)

How does it work?

SENDING
COMPANY



DATA IN
INTERNAL FORMAT



EDI TRANSLATOR



EDI DOCUMENT

Paper Purchase Order

Purchase Order				
XYZ Company 123 Main Street Fairview, CA 94168		PO Number: 4768 PO Date: 9/30/2012		
Item No.	Quantity	Unit of Measure	Price	Product ID
1	100	EA	27.65	331896-42
Total Items: 1		Total Quality: 100		

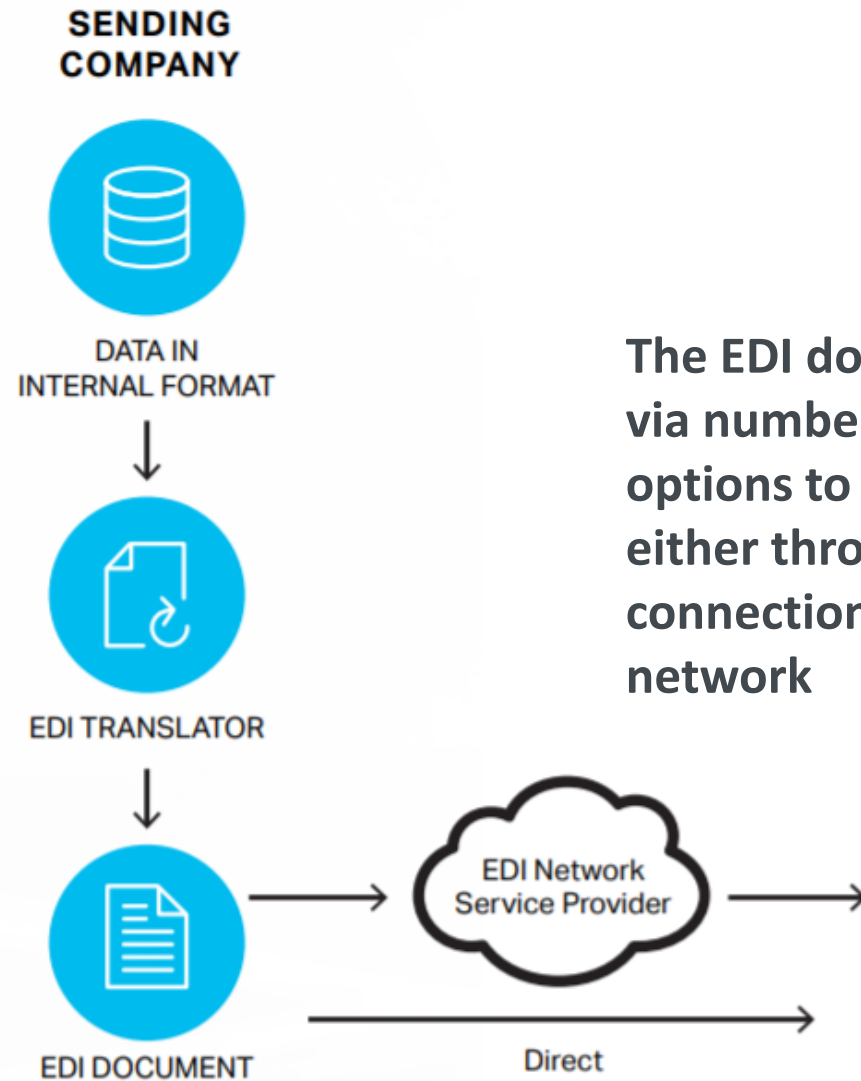


This becomes
this

```
ST*850*540001
BEG*00*SA*4768*65*20120930
N1*SO*XYZ Company
N3*123 Main Street
N4*Fairview*CA*94168
PO1*1*100*EA*27.65**VN*331896-42
CTT*1*100
SE*8*54001
```

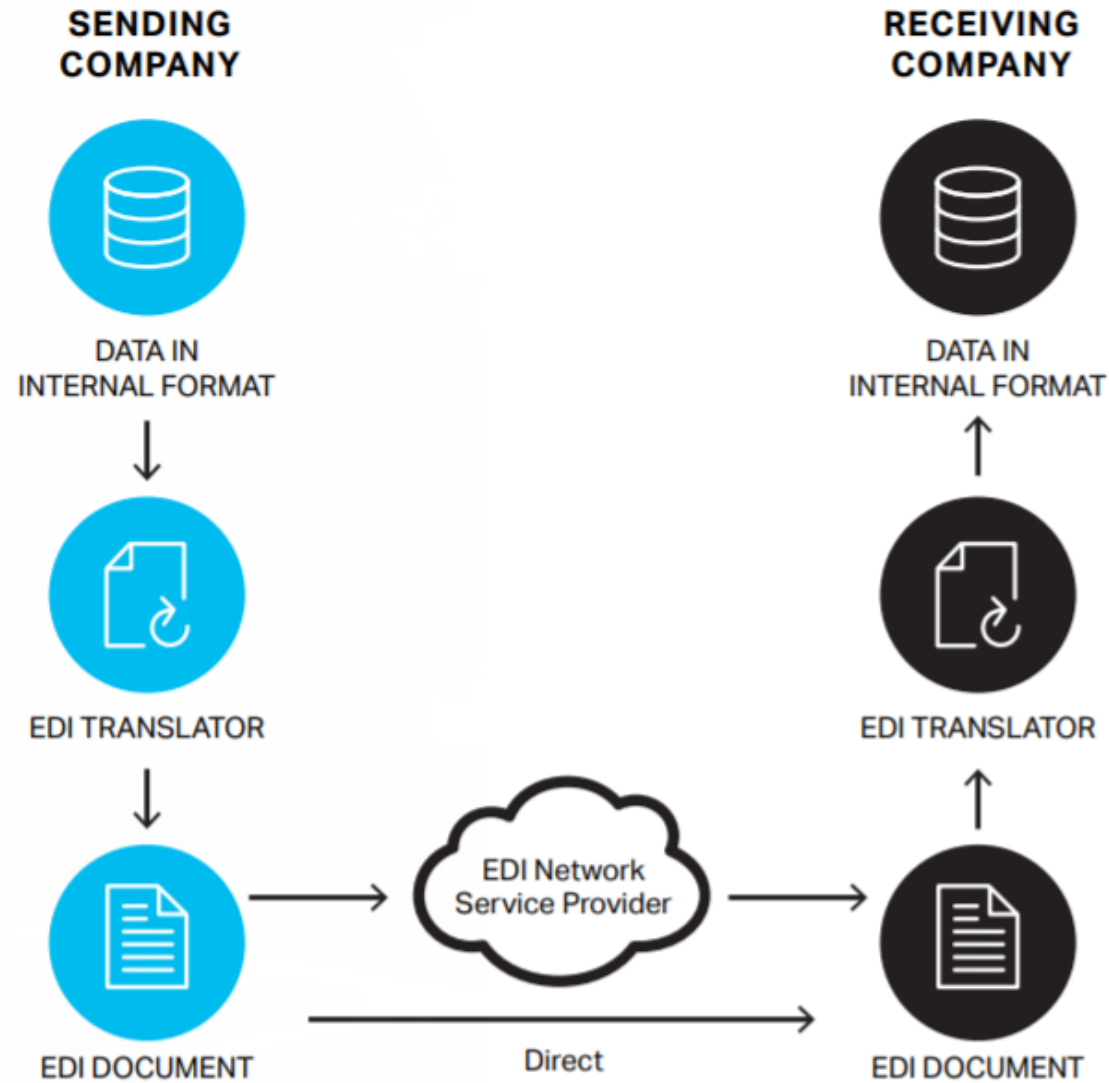
ANSI EDI Purchase Order

How does it work?



The EDI document is sent via number of different options to your partner – either through a direct connection or a third party network

How does it work?



The EDI document is translated back to a format the receiving company's ERP can recognize and document is processed automatically

What are the Key Components of an EDI integrations

- Integration
- Communication (Data Sharing)
- Mapping
- Translation
- Data Quality

EDI Standards

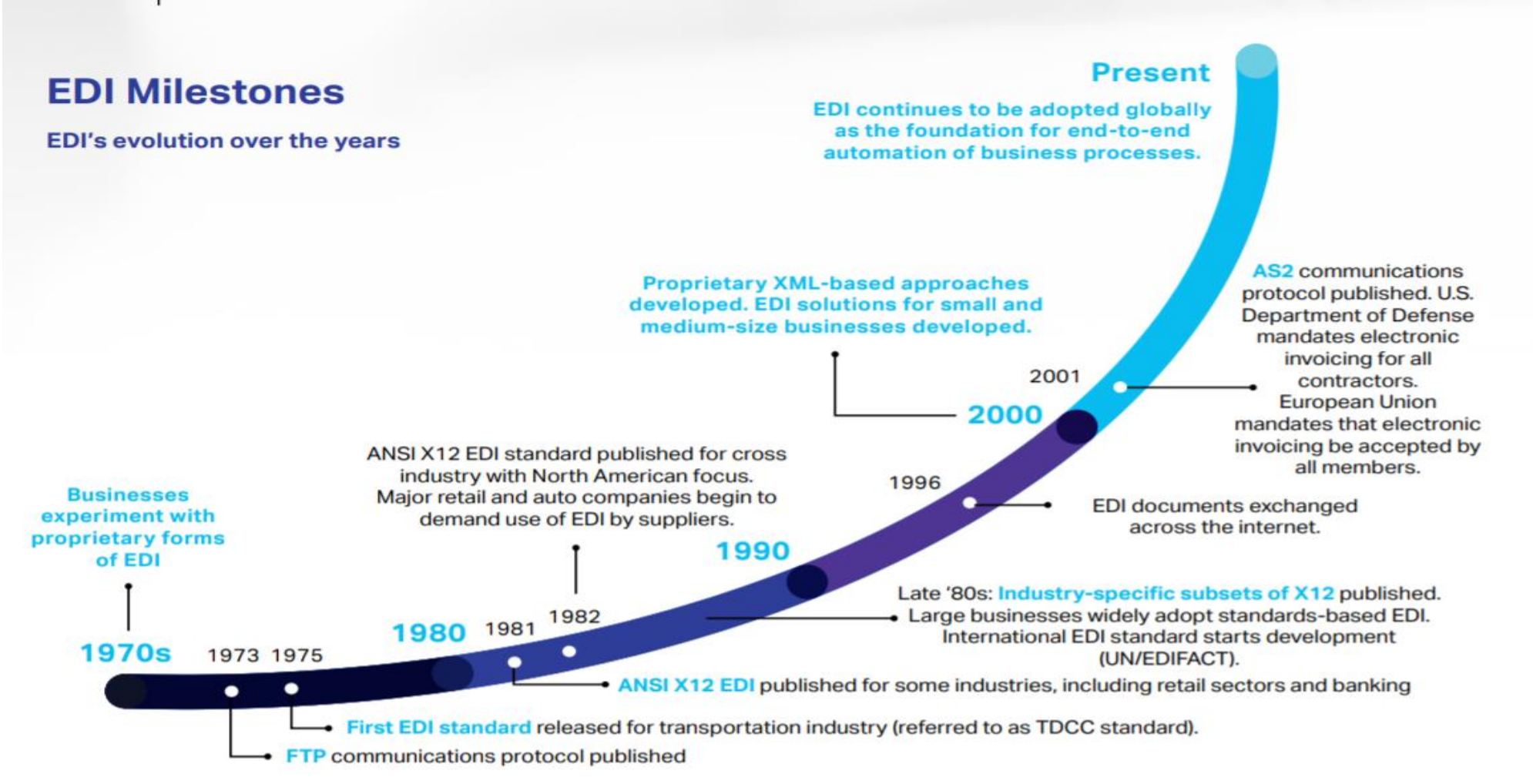
Two most common EDI Standards

ANSI X12

EDIFACT

Is XML a EDI Standard?

EDI Evolution



How do you implement an EDI Program?

- Do-It-Yourself
- Third Party platforms and integrators

When is the time to implement an EDI Program?

“The price of doing the same old thing is far higher than the price of change.”

- Bill Clinton

Thank you

Thank You Supply Chain Sponsors

TrueCommerce™
Datalliance

ABB

DATAgility
Data Management Services

IdealSupply

WESCO®

Share that you're here on social, use hashtag

#EFCSupplyChain

ELECTRO
FEDERATION
CANADA **EFC**