

# EDI Integration and Data Transformation

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**PROGRESS**  
**EXCHANGE** 2014

# Agenda

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- EDI Defined
- Integrating Your Applications with EDI
- Demonstration
- Questions and Discussion

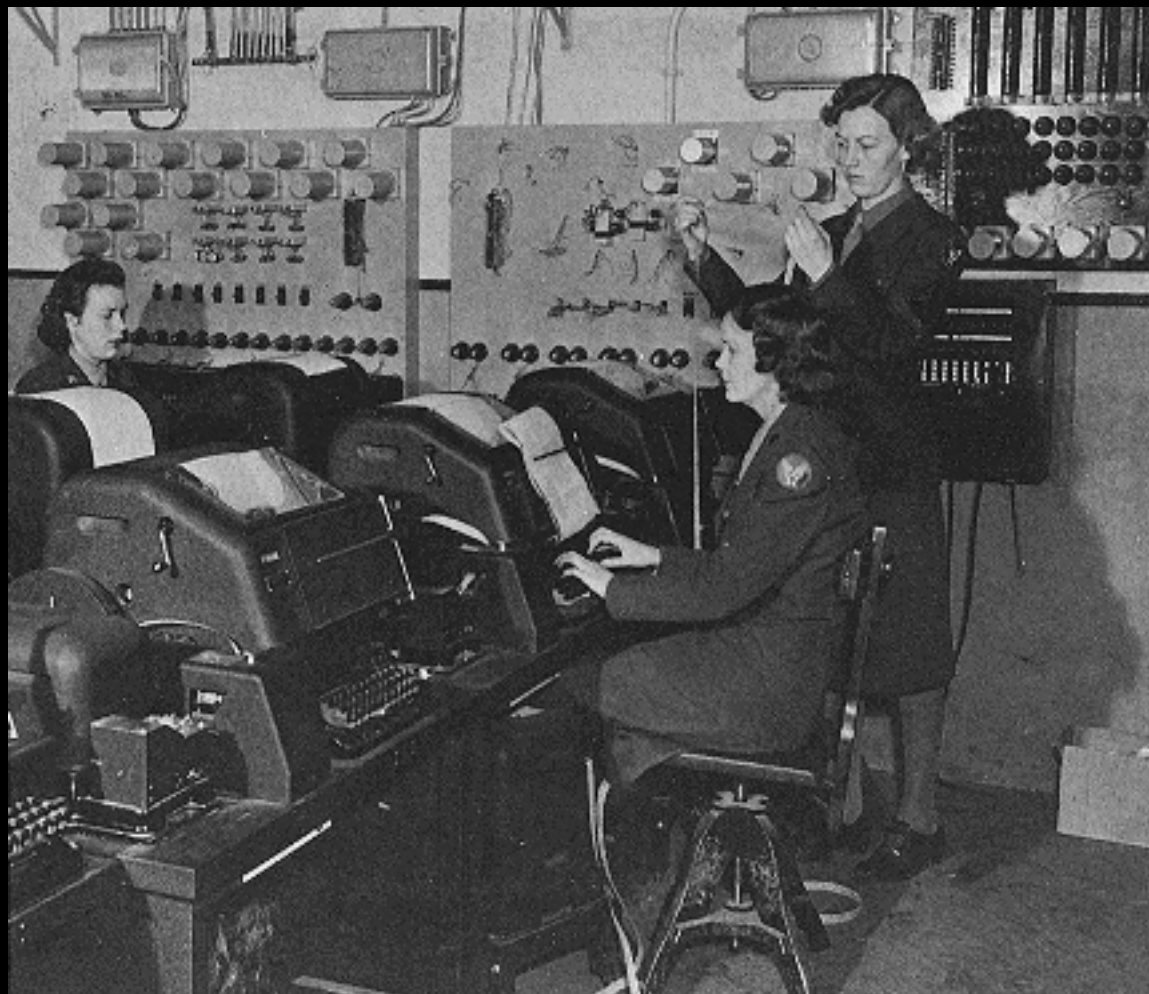
A long time ago in a galaxy far,  
far away....

# 1948



## Berlin Airlift







# EDI Defined

## Thanks for the History Lesson – Now Why Should I Care?

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- EDI is Still Everywhere!
- Do You Build Applications For...
  - Healthcare?
  - Travel?
  - Retail?
  - Logistics?
  - Supply Chain?
- No Single Family of Standards is More Adopted Across B2B than EDI

# EDI Defined

## So What, Another Format to Support? That Should Be Easy!



```
MSH|^~\&|PATA|01|PATB|01|19930908135031||BA  
R^P01^BAR_P01|641|P|2.5.1|0000000000000001|  
◀EVN|P01|19930908135031||◀PID|1||8064993^^  
^PATA1^MR^A~6045681^^PATA1^BR^A~123456789A  
BC^^^USA^NI~123456789^^^USSSA^SS||Neary^Nan  
cy^J^^^||F||2114-7|22A·Home·Street^^HOUSTO  
N^TX^77030^USA|HAR|||S||6045681◀GT1|001||  
Neary^Neville^J||7723·Horton·Plaza^^BALTIMO  
RE^MD^21234^USA|||555-555-5001◀NK1|001  
|Neary·Ned|SIB|991·Mock·Street^...
```

```
UNA:+.?. 'UNB+IATA:1+SAS:12:4R4+SWR:90:8I8+9  
40101:0AAH+C48B7++A'UNH+1+PAOREQ:04:1:IA:1  
1XA+7283A+11:F'MSG+1:1:1'ORG+AAH:AAA+34:89  
+AAA+AAH:ZZZ++AF:008:XA'ABI+1+34:X1:X2+AAA'  
PDI++3::BR'EQN+7:TA'RPI'FTI+AAH:48:44::1:70  
0:1:AAH:1'RCI+7YY:1:1'SSR+1::2:AAH::ACK:AAA  
:AAA+356:A:123:2'TIF+ME:BS:2+TEST:BS:67:1'F  
TI+AAH:48:44::1:700:1:AAH:1'SSR+1::2:AAH::A  
CK:AAA:AAA+356:A:123:2'ODI+AAF+AAF'MSG+1:1:  
:...
```

```
ISA*00*.....*00*.....*01*00425107  
0.....*01*201454584.....*041117*0540*U*00  
401*856000149*0*P*>~GS*SH*004251070*2014545  
84*20041117*0540*149*X*004010~ST*856*0788~B  
SN*00*CS01043621*20041117*0533~HL*1**S~TD1*  
*****31*LB~TD5**2*SEE·NOTE·!***SEE·NOTE·!~R  
EF*CN*5029~DTM*011*20041116~N1*SF*ABCDE·PRO  
DUCTS~N3*8554·BROADWELL·RD~N4*CINCINNATI*OH  
*45244~HL*2*1*O~PRF*09176T~HL*3*2*I~LIN*1*V  
N*06B125P*PO*09176T~SN1**6*BX~PID*F*****SCRE  
W·#6·X·1·1/4".DRYWALL·TO~HL*4*2*I~LI...
```

EDI is a class of file structures primarily distinguished by:

- Record type at start of each segment **DTM**\*011\*20041116~
- Delimited or Fixed-width EVN|P01|19930908135031||◀
- Fields within Fields UNH+1+**PAOREQ:04:1:IA:11XA**+7283A+11:F'

Each EDI Standard is composed of 100s of messages and transaction types





# EDI Defined

## But Wait... There Is a Light at the End of the Tunnel!

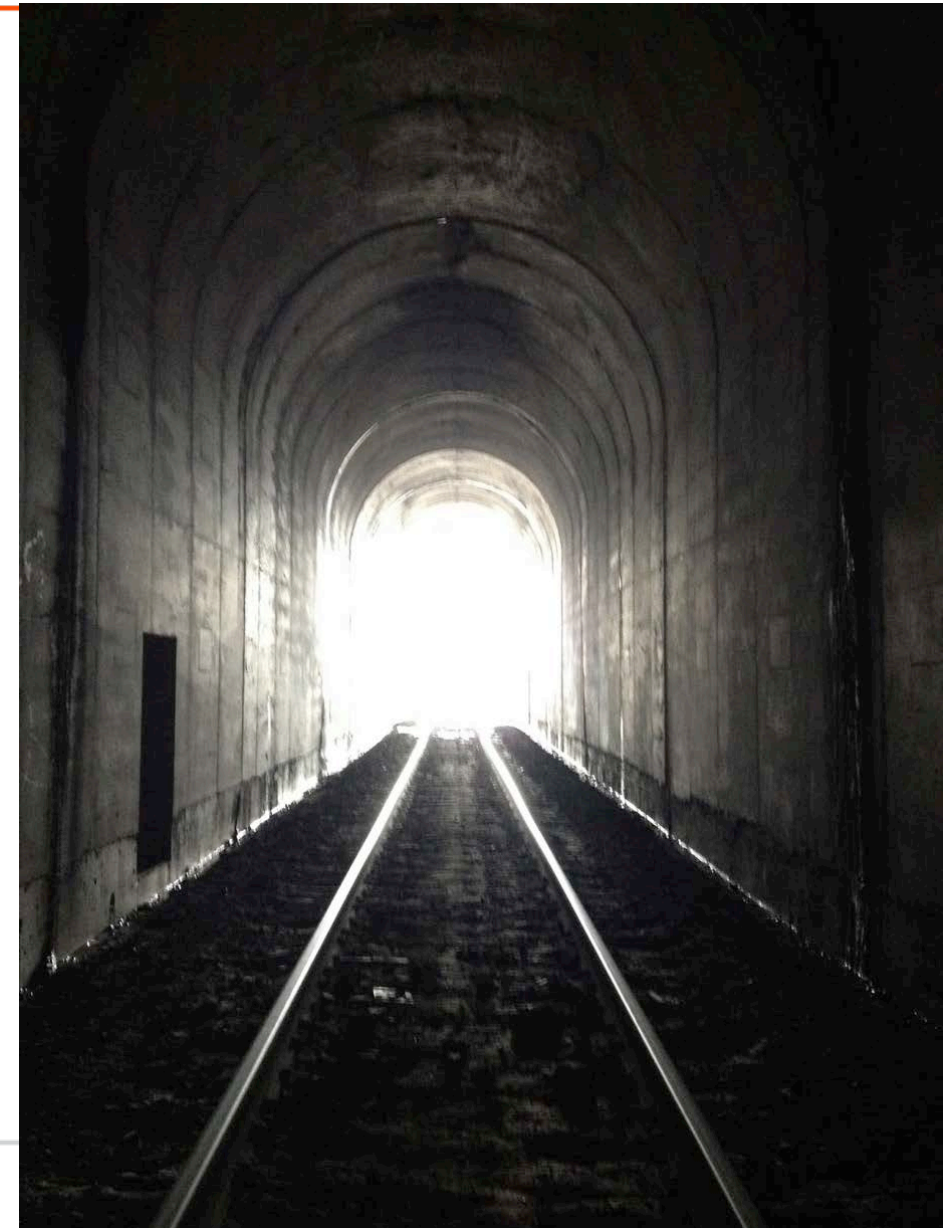
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### Progress DataDirect EDI Converters Make EDI Easy!

- Without Writing Complicated Code
- Without Understanding the Details of EDI Formats
- Without Poring through 1000s of Pages of Standards

Now OpenEdge, Rollbase, Modulus, Corticon, OpenEdge BPM, Java, .Net, and nearly any other application platform in use today can process EDI!

# How???



The best way to process EDI  
is to NOT process EDI

# Integrating Your Applications with EDI

## DataDirect EDI Converters Transform EDI to Standard Formats

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EDI	Vs.	JSON and XML
<i>Efficiency</i>		
Compact		Verbose
<i>Self-describing</i>		
Segments only		Fully
<i>Available Tools</i>		
Specific		General purpose
<i>Human Readability</i>		
Barely		Fair to Good

# Integrating Your Applications with EDI

## DataDirect EDI Converters Key Capabilities



## Support for Many APIs SAX, DOM, StAX, Reader



# Simultaneous Translation through Streams



## Integrated with Java and .NET Architectures

Enough Slides.

Let's See EDI Converters  
in Action.



# Integrating Your Applications with EDI

## Demo Scenario

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- OpenEdge Application Partner (fictitious)
- ERP system for doctor's offices that integrates with pharmacies, hospitals, and insurance providers
- Implementation of ObamaCare on a national level has required major revamp of these integrations and adoption of HIPAA and HL7 standards
- Demonstrate conversion to and from EDI to XML, processing data in ABL using .NET integration, and a realistic application to display patient laboratory results





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