

WHAT WILL AN INTERNATIONAL AND INTEROPERABLE e-INVOICING LANDSCAPE LOOK LIKE?

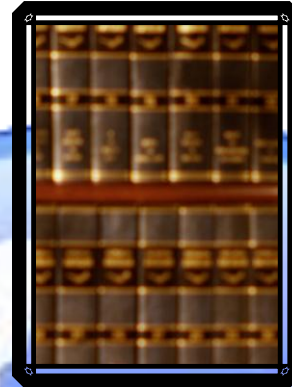
Tim McGrath
EXPP Operators Forum
Munich
13th October 2010



Discussion Topics

- Key components for an interconnected world
 - What are they?
 - How much of this exists?
- Document /format standards
 - A common semantic model versus the Tower of Babel
- Infrastructure:
 - A standardized four-corner model versus anarchy
- PEPPOL is an early adopter
 - what does it provide?
 - Building bridges between islands of eInvoicing

Key Components for Interconnection



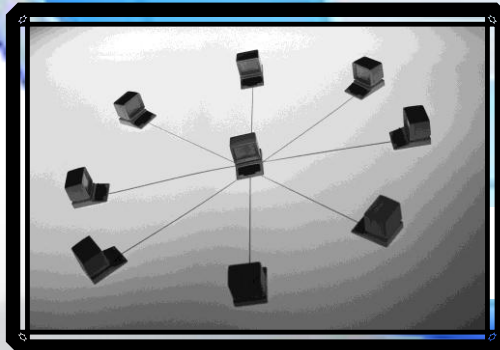
Legal Framework



Contractual Framework



Standards

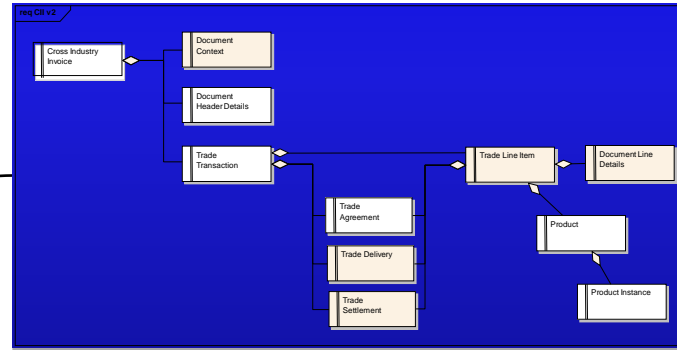


Invoice Document Standards



ENT
ING
business

UN/CEFACT CII data model



The ISO 2002 Invoice



UN/CEFACT XML

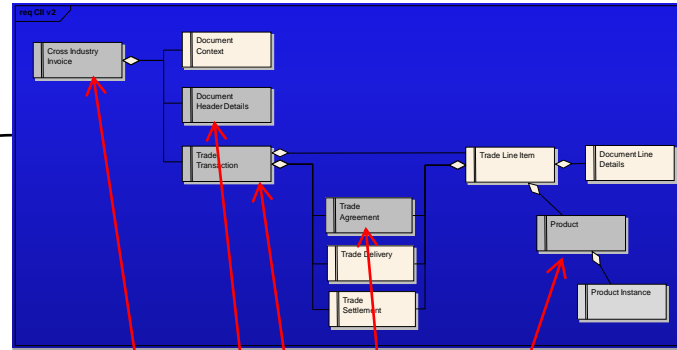
```
<?xml version="1.0" encoding="UTF-8"?>
<rsm:CrossIndustryInvoice
xsi:schemaLocation="urn:un:unece:uncefact:data:standard:CrossIndustryInvoice:1
CrossIndustryInvoice_1p0.xsd" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:rsm="urn:un:unece:uncefact:data:standard:CrossIndustryInvoice:1"
xmlns:ram="urn:un:unece:uncefact:data:standard:ReusableAggregateBusinessInformation
Entity:7">
  <rsm:CIIExchangedDocumentContext> ...
</rsm:CIIExchangedDocumentContext>
  <rsm:CIIExchangedDocument>
    <ram:ID>MyInvoiceNo123</ram:ID>
    <ram:TypeCode>380</ram:TypeCode>
    <ram:IssueDateTime>2010-04-10T09:30:47Z</ram:IssueDateTime>
  </rsm:CIIExchangedDocument>
  <rsm:CIIHSupplyChainTradeTransaction>
    <ram:ApplicableCIIHSupplyChainTradeAgreement>
      <ram:SellerCITradeParty>
        <ram:ID>NO987654321</ram:ID>
        <ram:Name>EdiSys Consulting AS</ram:Name>
      </ram:SellerCITradeParty>
      <ram:BuyerCITradeParty>
        <ram:ID>NO123456789</ram:ID>
        <ram:Name>MyCustomer</ram:Name>
      </ram:BuyerCITradeParty>
      <ram:SellerOrderReferencedCIIReferencedDocument>
        <ram:IssuerAssignedID>Order123</ram:IssuerAssignedID>
        <ram:IssueDateTime>2010-12-17T09:30:47Z</ram:IssueDateTime>
      </ram:SellerOrderReferencedCIIReferencedDocument>
      <ram:BuyerRequisitionerCITradeParty>
        <ram:ID>okr1234</ram:ID>
      </ram:BuyerRequisitionerCITradeParty>
```

ISO 2002 XML

```
<?xml version="1.0" encoding="UTF-8"?>
<Document xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns="urn:iso:std.iso:2002:tech:xsd:pain.001.001.03">
  <CstmrCdtTrfInIt>
    <GrpHdr>
      <MsgId>ABC/090928/CCT001</MsgId>
      <CreDtTm>2009-09-28T14:07:00</CreDtTm>
      <NbOfTx>3</NbOfTx>
      <CtrlSum>11500000</CtrlSum>
      <InitgPty>
        <Nm>ABC Corporation</Nm>
        <PstlAdr>
          <StrtNm>Times Square</StrtNm>
          <BldgNb>7</BldgNb>
          <PstCd>NY 10036</PstCd>
          <TwnNm>New York</TwnNm>
          <Ctry>US</Ctry>
        </PstlAdr>
      </InitgPty>
    </GrpHdr>
    <PmtInf>
      <PmtInflId>ABC/086</PmtInflId>
      <PmtMtd>TRF</PmtMtd>
      <BtchBookg>false</BtchBookg>
      <ReqdExctnDt>2009-09-29</ReqdExctnDt>
      <Dbtr>
        <Nm>ABC Corporation</Nm>
        <PstlAdr>
```

UN/CEFACT CII data model

The UBL Invoice



European 'core' Invoice data model



UN/CEFACT
XML

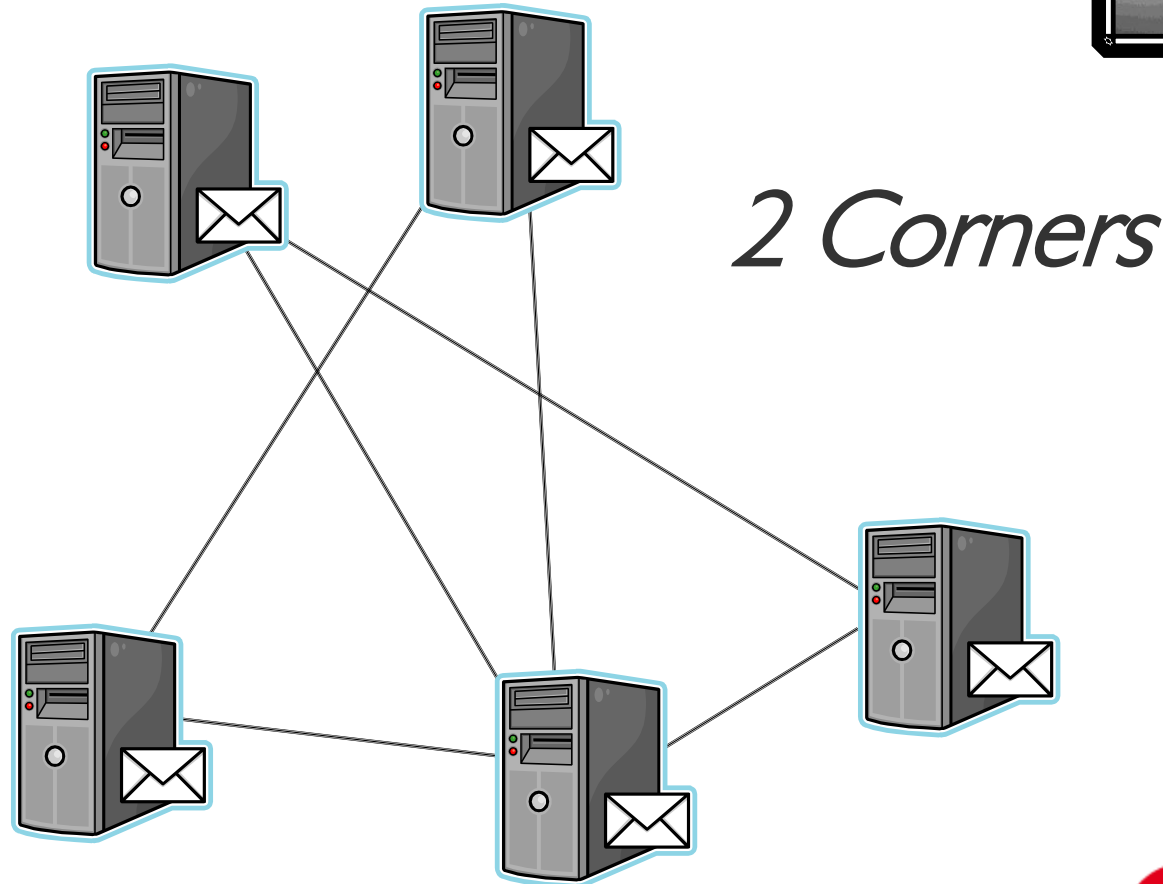
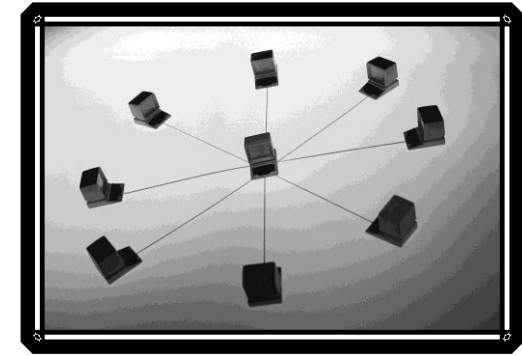
UBL XML

```
<?xml version="1.0" encoding="UTF-8"?>
<rsm:CrossIndustryInvoice
xsi:schemaLocation="urn:un:unece:uncefact:data:standard:CrossIndustryInvoice:1
CrossIndustryInvoice_1p0.xsd" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:rsm="urn:un:unece:uncefact:data:standard:CrossIndustryInvoice:1"
xmlns:ram="urn:un:unece:uncefact:data:standard:ReusableAggregateBusinessInformation
Entity:7">
  <rsm:CIEExchangedDocumentContext> ...
</rsm:CIEExchangedDocumentContext>
  <rsm:CIIHExchangedDocument>
    <ram:ID>MyInvoiceNo123</ram:ID>
    <ram:TypeCode>380</ram:TypeCode>
    <ram:IssueDateTime>2010-04-10T09:30:47Z</ram:IssueDateTime>
  </rsm:CIIHExchangedDocument>
  <rsm:CIIHSupplyChainTradeTransaction>
    <ram:ApplicableCIIHSupplyChainTradeAgreement>
      <ram:SellerCITradeParty>
        <ram:ID>NO967654321</ram:ID>
        <ram:Name>EdiSys Consulting AS</ram:Name>
      </ram:SellerCITradeParty>
      <ram:BuyerCITradeParty>
        <ram:ID>NO123456789</ram:ID>
        <ram:Name>MyCustomer</ram:Name>
      </ram:BuyerCITradeParty>
      <ram:SellerOrderReferencedCIIReferencedDocument>
        <ram:IssuerAssignedID>Order123</ram:IssuerAssignedID>
        <ram:IssueDateTime>2010-12-17T09:30:47Z</ram:IssueDateTime>
      </ram:SellerOrderReferencedCIIReferencedDocument>
      <ram:BuyerRequisitionerCITradeParty>
        <ram:ID>okr1234</ram:ID>
      </ram:BuyerRequisitionerCITradeParty>
```

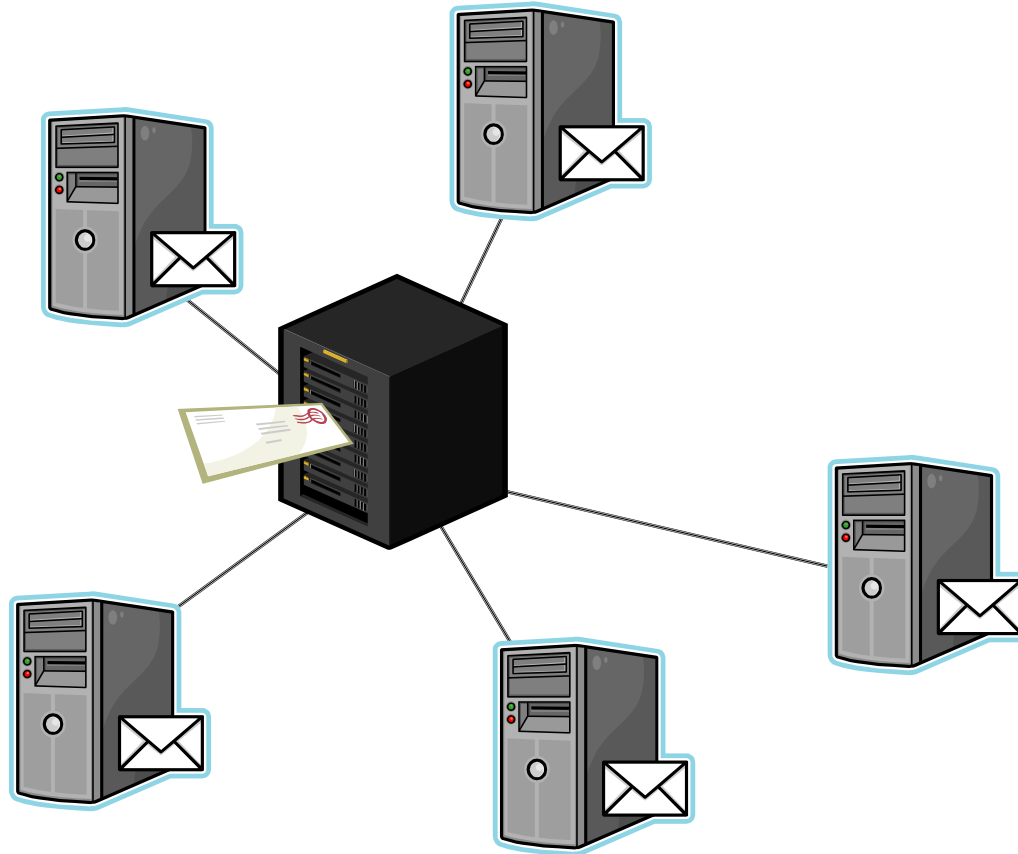
```
<Invoice xmlns:qdt="urn:oasis:names:specification:ubl:schema:xsd:QualifiedDatatypes-2"
xmlns:ccts="urn:oasis:names:specification:ubl:schema:xsd:CoreComponentParameters-2"
xmlns:stat="urn:oasis:names:specification:ubl:schema:xsd:DocumentStatusCode-1.0"
xmlns:cbc="urn:oasis:names:specification:ubl:schema:xsd:CommonBasicComponents-2"
xmlns:cac="urn:oasis:names:specification:ubl:schema:xsd:CommonAggregateComponent
s-2" xmlns:udt="urn:un:unece:uncefact:data:draft:UnqualifiedDataTypesSchemaModule:2"
xmlns="urn:oasis:names:specification:ubl:schema:xsd:Invoice-2">
  <cbc:UBLVersionID>2.0</cbc:UBLVersionID>
  <cbc:CustomizationID>urn:oasis:names:specification:ubl:xpath:Invoice-2.0:sbs-1.0-
draft</cbc:CustomizationID>
  <cbc:ProfileID>bpid:urn:oasis:names:draft:bpss:ubl-2-sbs-invoice-notification-
draft</cbc:ProfileID>
  <cbc:ID>A00095678</cbc:ID>
  <cbc:CopyIndicator>>false</cbc:CopyIndicator>
  <cbc:UUID>849FBBCE-E081-40B4-906C-94C5FF9D1AC3</cbc:UUID>
  <cbc:IssueDate>2005-06-21</cbc:IssueDate>
  <cbc:InvoiceTypeCode>SalesInvoice</cbc:InvoiceTypeCode>
  <cbc:Note>sample</cbc:Note>
  <cbc:TaxPointDate>2005-06-21</cbc:TaxPointDate>
  <cac:OrderReference>
    <cbc:ID>AEG012345</cbc:ID>
    <cbc:SalesOrderID>CON0095678</cbc:SalesOrderID>
    <cbc:UUID>6E09886B-DC6E-439F-82D1-7CCAC7F4E3B1</cbc:UUID>
    <cbc:IssueDate>2005-06-20</cbc:IssueDate>
  </cac:OrderReference>
  <cac:AccountingSupplierParty>
    <cbc:CustomerAssignedAccountID>CO001</cbc:CustomerAssignedAccountID>
    <cac:Party>
      <cbc:PartyName>
        <cbc:Name>Consortial</cbc:Name>
```

Messaging Infrastructure

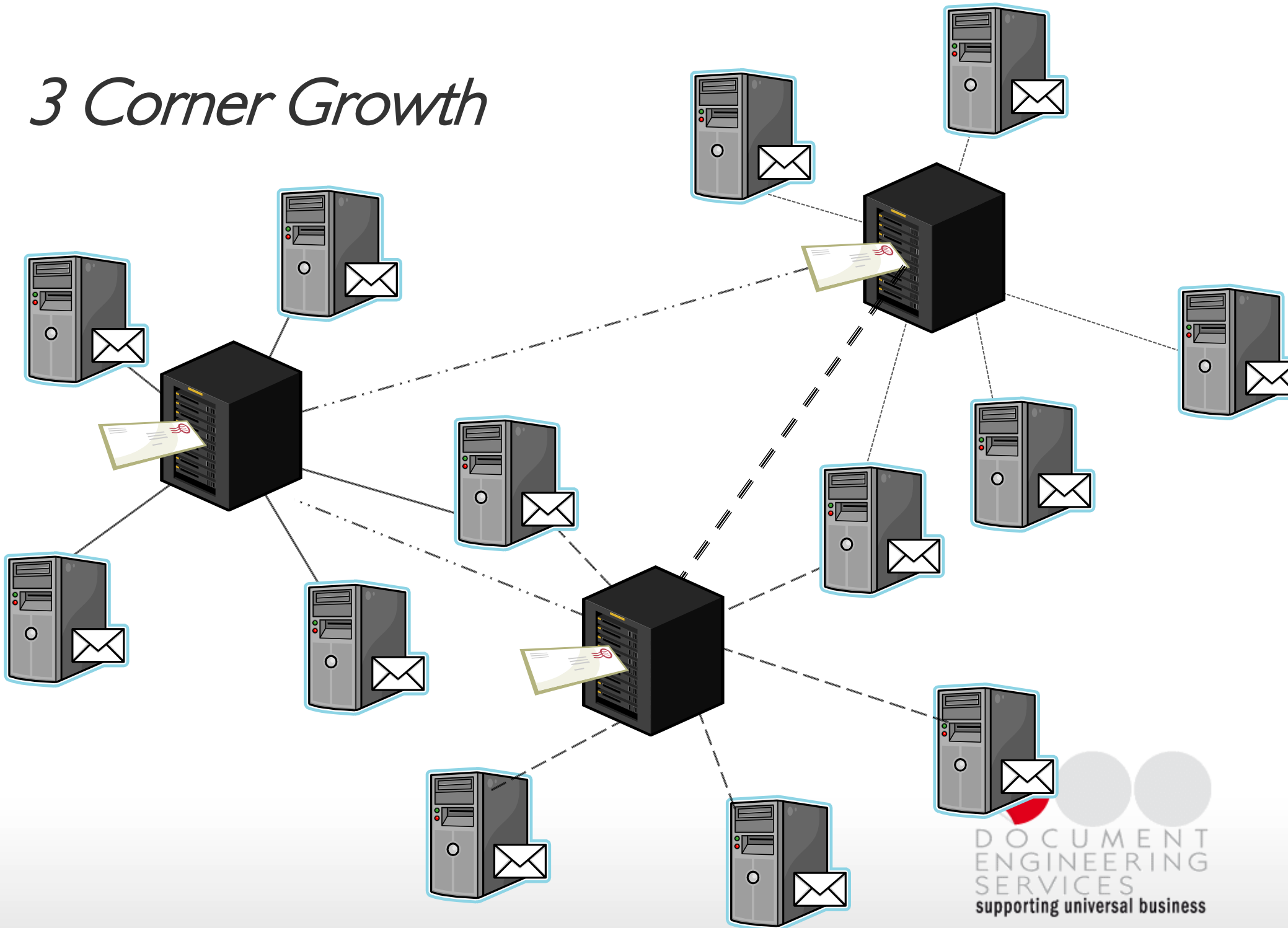
A story of Corners



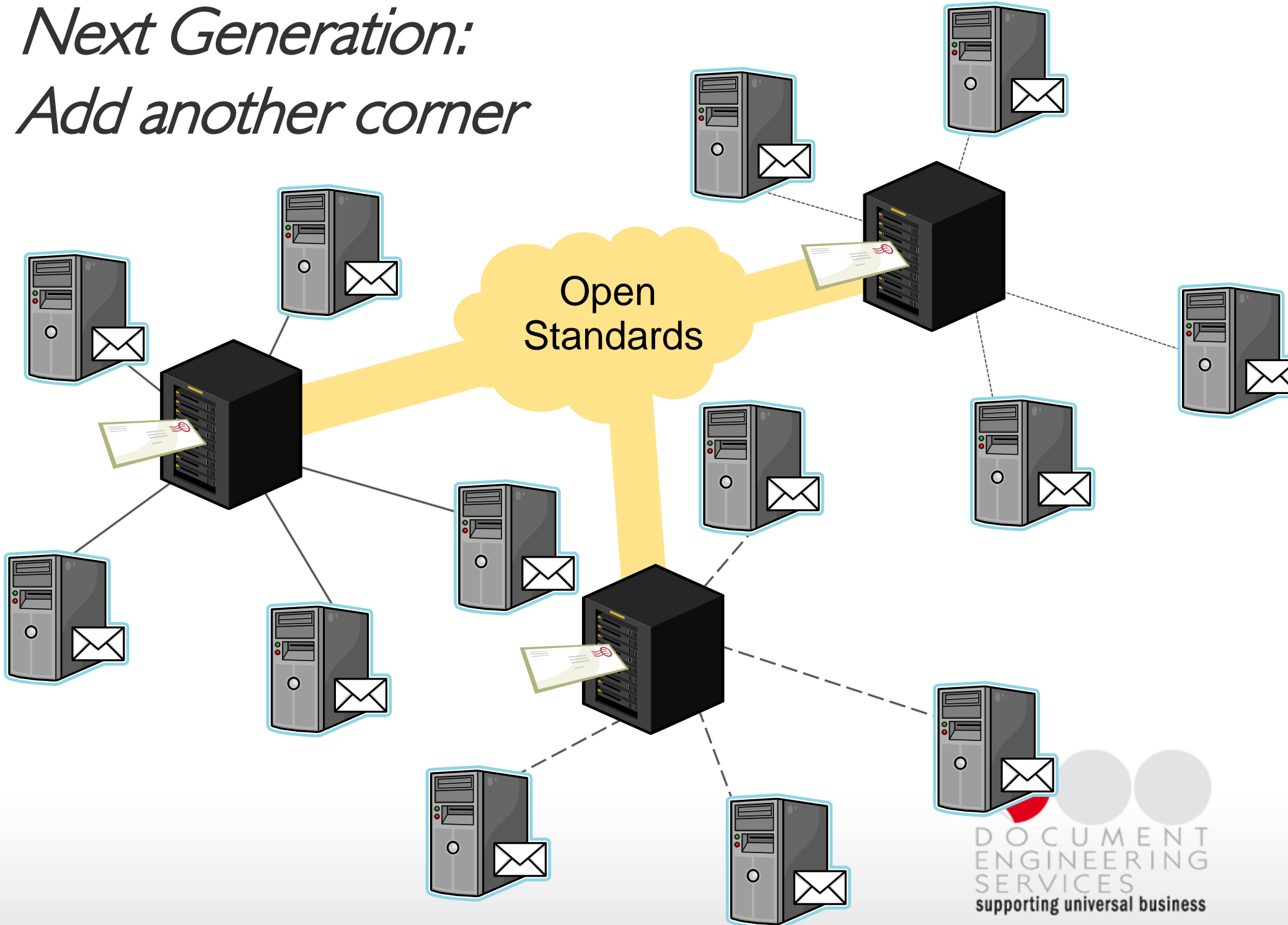
3 Corners



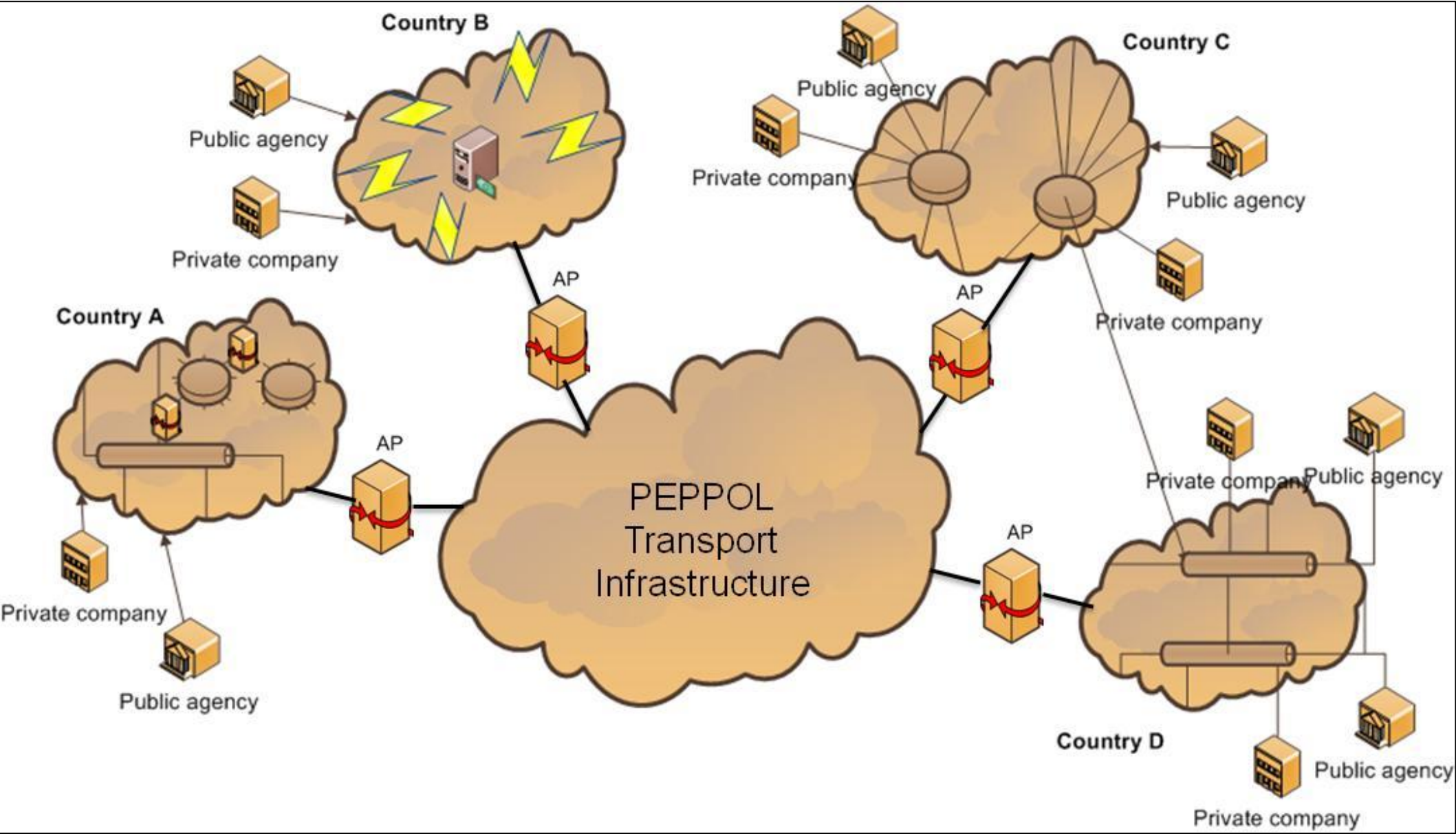
3 Corner Growth

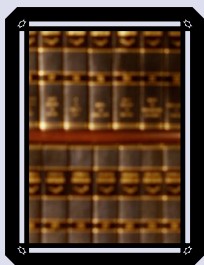


Next Generation: Add another corner



The 4-Corner Approach in PEPPOL





5th International PEPPOL Conference

eProcurement
without borders -
It's time to connect!

November 8 - 10, 2010
Troyes en Champagne, France

eProcurement without borders in Europe

www.peppol.eu