Abstract

In the short time since the release of the first web browser in 1993, the Internet has evolved from a mere information dissemination vehicle into a robust transaction environment. Industries are rushing to develop new tools and infrastructure to support expectations for an interactive Internet, but, ironically, still struggle with changing fundamental user behavior; most business processes are still transacted through paper media, including billing and payment.

While some larger businesses have used Electronic Data Interchange (EDI) to automate business processes, the costs are prohibitive to many companies. The Internet is emerging as the venue for non-EDI businesses to automate inter-company transactions.

Electronic Bill Presentment and Payment (EBPP) – the business-to-consumer (B2C) process by which bills are presented and paid through the Internet – is gradually becoming a standard tool for companies that regularly bill large numbers of individual consumers.

Electronic Invoice Presentment and Payment (EIPP) – the process by which companies present invoices and make payments to one another through the Internet – is a promising tool in the business-to-business (B2B) environment that has not yet achieved significant adoption rates.

The motivations to migrate toward EBPP and EIPP include:

- Shortened transaction cycles and accelerated revenue cycles
- Improved cash flow management
- Increased marketing opportunities
- Improved productivity
- Reduced direct costs (e.g. postage and printing)
- Enhanced customer service

While both B2C and B2B transactions have some similar processes, the B2C environment is generally much simpler. In consumer EBPP transactions, companies typically present bills on a web site for consumers to view and pay.
B2B, on the other hand, involves more participants and more complex processes, creating a longer, more intricate value chain. Business transactions include procurement, contract administration, fulfillment, financing, insurance, credit ratings, shipment validation, order matching, payment authorization, remittance matching and general ledger accounting. Each of these steps may be governed by complex business rules. For example, trading partners may require multiple billing accounts per customer, with a separate workflow review process for each.

Furthermore, B2B transactions are more likely to be disputed than B2C transactions. Invoices are often “not paid as billed,” and transactions often need to account for discounts, promotions, and special buyer relationships.

The complexity of the B2B market has been compounded by the emergence of e-commerce. Traditional business processes and relationships are challenged by new technological capabilities (e.g. extranets, Application Service Providers), and by an emerging necessity to accommodate both established and spontaneous relationships in a real-time environment.

In an effort to promote greater understanding of the new e-commerce environment for B2B electronic invoicing and payment, this document outlines three current EIPP models: Seller Direct, Buyer Direct, and Consolidator, and for each model presents a:

- **Model Overview** – describes and defines the model
- **Process Flow** – explanation of the steps in the transaction process between buyer and seller
- **Usage Analysis** – discusses assumptions and attributes about who would use the model
- **Key Model Differentiators** – distinguishes the model from other models, and identifies benefits and challenges from both the buyer and seller perspective
- **Implementation Considerations** – describes different options for implementing the given model

**Seller Direct**

**Model Overview**
The seller controls the EIPP application in the Seller Direct model. This model comprises a one-to-many relationship, linking one seller to its multiple buyers for invoice presentment. A seller deploys this model by requesting – or requiring – that its buyers view invoices on the seller EIPP system.

The seller’s EIPP system may provide additional functions (e.g. workflow protocols, payment initiation, seller accounts receivable (A/R) integration, buyer accounts payable (A/P) updates, dispute management, analysis tools, etc.) Often, an email notification is sent to alert the buyer that a new invoice(s) is available.
**Process Flow**

The transaction flow in a Seller Direct model occurs as follows:

- **ENROLLMENT**
  Using a standard web browser, the buyer navigates to the seller’s web site and enrolls in the seller’s EIPP program. The seller may pre-populate some enrollment information from its system of record.

- **PRESENTMENT**
  The seller generates and/or transfers invoice information to the EIPP system. This data transfer could take the form of a file transfer or more direct application integration. The seller’s EIPP system notifies the buyer organization that the buyer’s invoice is ready for viewing.
  The buyer logs into the seller’s web site to access invoice information pertinent to that buyer only.
  The buyer reviews and analyzes the invoice information presented. The seller’s system may include workflow protocols to route invoices for approval within the buyer organization, including to accounts payable.

- **DISPUTES**
  The seller EIPP system allows the buyer to communicate any disputes to the seller. Based on a set of predetermined business rules, disputes may be automatically accepted, rejected or reviewed by the seller.

- **PAYMENT**
  The buyer may authorize invoice payment for either the full amount or for a partial payment.
The seller’s financial institution processes the payment transaction.

The EIPP system transmits a remittance file to the seller, which may be used to update their A/R system. The seller may offer A/P integration services to the buyer.

The financial institutions confirm execution of the payment via their reporting services.

Payment return or rejection information may be reported to both the buyer and the seller by their respective financial institutions.

**Usage Analysis**

The Seller Direct process is an established model. It is typically used when a trade relationship already exists between a seller and its buyers, where payment requirements and credit terms have been established. Sellers that implement an EIPP application typically issue a high volume of invoices, or have invoices of high value. The Seller Direct model is used by manufacturing, telecommunications, utilities, health care and financial services industries.

In this model, buyers must be willing to use an invoicing process designed and controlled by the seller. Some sellers may offer incentives to persuade buyers to adopt this model. In other cases, a dominant seller may require that its buyers use the seller EIPP system.

**Example**

Buyer enrolls in Seller’s EIPP program. After purchasing goods, Buyer views two new invoices on Seller’s EIPP system, using a web browser. The first invoice is correct as presented and Buyer initiates an electronic payment. Buyer disputes the second invoice because of a short shipment; this information is communicated to Seller and the invoice amount is adjusted. Buyer reviews the adjustment to initiate payment.

**Key Model Differentiators: Summary of Benefits and Challenges for Seller Direct**

**Seller Benefits**

Seller controls all aspects of the system, including data requirements and options for transaction processes (e.g. enrollment, presentment, payment, and disputes).

Seller has the ability to integrate the EIPP system with other company applications (e.g. accounts receivable and customer care).

Seller is positioned to capitalize on the use of its web site and may present related marketing and regulatory messages.

Seller reduces number of trading partner sites it must interact with for invoicing and payment.

**Buyer Benefits**

Buyer has low implementation costs – viewing invoices only requires a web browser.
Buyer may benefit from economic incentives offered by the seller to encourage enrollment and use.

**Seller Challenges**
Seller is responsible for EIPP start-up and operational costs, and must ensure adequate scalability and security.

Seller must require – or convince – buyer to use seller EIPP (may require a change in buyer’s current process). Seller who does not dominate a market may have to offer incentives to buyer.

Seller may have to provide multiple data output formats to, and/or integrate system with buyers’ A/P process.

**Buyer Challenges**
Buyer - who purchases from many sellers - must access multiple trading partner sites for invoicing and payment, and may encounter multiple enrollment, presentment and access requirements.

Buyer must integrate A/P system with multiple seller sites.

Buyer must comply with seller’s payment options.

**Implementation Considerations**
There are various options in the marketplace for implementing a Seller Direct model. The following text highlights some considerations for both “in-house” and “outsource” solutions.

**In-house EIPP Software Solution**
An “in-house” software solution means that the seller is responsible for development and operational resources. In this solution, the seller hosts all invoice data, and would be solely responsible for maintaining third party relationships with entities such as payment processors. The seller is in complete control of customization needs, including system features, and integration with other company applications.

**Use of Third-Party EIPP Software Vendor for an In-house Solution**
Instead of developing its own solution, a seller may want to use a third-party software vendor to implement an in-house EIPP application. In this case, the seller selects an EIPP software vendor and integrates the software into its current environment. Fulfillment of the seller’s needs is dependent on the flexibility of the third party software vendor to interface with legacy systems. The vendor may provide integration capabilities with entities such as payment processors, but the management of relationships is the responsibility of the seller. The seller hosts all invoice data, enabled by the third-party software. The seller is responsible for providing its own resources to operate and maintain the EIPP system.
**Use of Third-Party EIPP Servicer/Application Service Provider (ASP)**

A seller with limited information technology resources may want to outsource an EIPP solution to a third party. An Application Service Provider (ASP) operates and maintains the EIPP system on behalf of the seller. In this case, the EIPP application is hosted by the ASP, which provides an interface or direct integration with the seller’s web site. The ASP may manage payment processor relationships. Fulfillment of the seller’s needs is dependent on the features offered by the ASP’s service and the flexibility of the ASP to integrate with the seller’s legacy systems.

**Buyer Direct**

**Model Overview**

The buyer controls the EIPP application in the Buyer Direct model. This model comprises a one-to-many relationship – with one buyer providing an interface for many sellers. A buyer deploys this model by requesting – or requiring – that its sellers post invoices to the buyer EIPP system.

An EIPP application hosted by the buyer will usually link to the buyer’s A/P system. The buyer’s EIPP system may provide additional functions (e.g. workflow protocols, payment initiation, seller accounts receivable (A/R) integration, buyer accounts payable (A/P) updates, dispute management, analysis tool, etc.). Often, an email notification is sent to alert the buyer that a new invoice(s) is available.

**Process Flows**

The transaction flow in a Buyer Direct model occurs as follows:
- **ENROLLMENT**
  Using a standard web browser, the seller enrolls in the buyer’s EIPP program at the buyer’s web site. The buyer may pre-populate some enrollment information from its system of record.

- **PRESENTMENT**
  The seller generates and transfers invoice information to the buyer's EIPP system. The seller must adhere to the buyer’s requirements for format and data transfer.

  The buyer’s EIPP system may notify relevant staff that the seller’s invoice is ready to view.

  The buyer accesses the invoice information by logging into the EIPP web site. The buyer may also have access to the invoice via their A/P system.

  The buyer reviews and analyzes the invoice information presented. The buyer’s system may include workflow protocols to route invoices for approval within the buyer organization.

- **DISPUTES**
  The EIPP system allows buyer to communicate disputes to the seller for review and resolution.

- **PAYMENT**
  The buyer may authorize and initiate invoice payment for either the full or partial payment.

  The buyer’s financial institution processes the payment transaction.

  The buyer’s EIPP system will update its A/P system. The buyer’s EIPP system may also offer A/R integration services to the seller.

  The financial institutions confirm execution of the payment via their reporting services.

  Payment return or rejection information may be reported to both the buyer and the seller by their respective financial institutions.

**Usage Analysis**

The Buyer Direct process is an emerging model that recognizes the dominant position buyers often have in B2B transactions. Large buyers who want to maintain control of purchase-order-driven invoicing and the payment process normally drive buyer solutions, such as the Buyer Direct model.

This model is particularly applicable to buyers whose purchases result in a high volume of invoices. Typically, a trade relationship already exists between the buyer and seller. Other businesses interested in the Buyer Direct model are targeting specific industry groups or segments. This focus allows a buyer who continually interacts with an industry to develop value-added processes for specific industries.
Example
Seller enrolls in the Buyer’s EIPP program. After Buyer purchases goods, Seller posts two invoices to the Buyer’s EIPP system. The first invoice is correct as presented and Buyer initiates an electronic payment. Buyer disputes the second invoice because of a short shipment; this information is communicated to Seller and the invoice amount is adjusted, then posted to the Buyer’s EIPP system. Buyer reviews the adjustment to initiate payment.

Key Model Differentiators: Summary of Benefits and Challenges for Buyer Direct

Buyer Benefits
Buyer controls all aspects of the system, including data requirements and options for transaction processes (e.g. enrollment, presentment, payment, and disputes).

Buyer has the ability to integrate the EIPP system with other company applications (e.g. accounts payable, purchasing/receiving).

Buyer reduces the number of trading partner sites it must interact with for invoicing and payment.

Seller Benefits
Seller may receive payments more quickly – with direct submission of invoices to integrated buyer EIPP system.

Seller’s ability/willingness to use buyer’s system may strengthen the relationship.

Buyer Challenges
Buyer responsible for EIPP start-up and operational costs, and must ensure adequate scalability and security.

Buyer must require – or convince – seller to use buyer EIPP (may require a change in seller’s process). Buyer that does not dominate a market may have to offer incentives to seller.

Buyer may need to develop support for multiple seller systems linkages (e.g. data input formats and/or integration with seller A/R process).

Seller Challenges
Seller – with multiple buyers - increases the number of trading partner sites with which it must interact, and may encounter multiple enrollment, invoice transmission, and access requirements.

Seller must integrate A/R with multiple buyer sites.

Seller must comply with buyer payment options.
Implementation Considerations

Similar to the Seller Direct model, a Buyer Direct model can be implemented through: an in-house EIPP software solution; a third-party EIPP software vendor for an in-house solution; or an ASP.

Consolidator

Model Overview

The consolidator controls the EIPP application in the Consolidator model. This model comprises a many-to-many relationship – providing an interface between multiple sellers and buyers. A consolidator acts as an intermediary, collecting or aggregating invoices from multiple sellers for multiple buyers, eliminating the need for point-to-point connections. The structure of a consolidator may vary from market to market based on the needs of buyers and sellers in each industry served by the consolidator. Consolidators are generally third parties and may provide, directly or through partners, a variety of additional financial services such as factoring, escrow, insurance, credit ratings and payment processing.

Both sellers and buyers may use this model. The seller requests that its buyers view and pay invoices through the consolidator. Alternatively, a buyer may request that its sellers present invoices through the consolidator. The consolidator’s EIPP system may provide additional functions (e.g. workflow protocols, payment initiation, seller accounts receivable (A/R) integration, buyer accounts payable (A/P) updates, dispute management, analysis tool, etc.) Often, an email notification is sent to alert the buyer that a new invoice(s) is available.

Process Flow

The transaction flow in a Consolidator model occurs as follows:
ENROLLMENT
Using a standard web browser, the seller and/or buyer navigates to the consolidator’s web site and registers in the consolidator’s EIPP service. Once registered, trading partners are notified of the EIPP program.

PRESENTMENT
The seller generates and transfers invoice information to the consolidator’s EIPP system. The seller must adhere to the consolidator’s requirements for format and data transfer.

The consolidator EIPP notifies the buyer organization that the buyer’s invoice is ready for viewing.

The buyer logs into the consolidator’s web site to access invoice information pertinent to that buyer only.

The buyer reviews and analyzes the invoice information presented. The consolidator’s system may include workflow protocols to route invoices for approval within the buyer organization.

DISPUTES
The buyer typically communicates disputes to the seller through the consolidator EIPP. Pre-determined seller business rules may be provided to the consolidator by the seller to automate the dispute resolution process.

PAYMENT
The buyer may authorize invoice payment authorization for either the full amount or for a partial payment. The consolidator then initiates the payment.

The payment transaction is processed by either the buyer’s or the seller’s financial institution. In some cases, the consolidator may assume the role of a financial intermediary.

The consolidator will provide the seller with a remittance file to update their A/R system.

The consolidator may also offer A/P integration services to the buyer.

The financial institutions confirm execution of the payment via their reporting services.

Payment return or rejection information may be reported to both the buyer and the seller by their respective financial institutions.

Usage Analysis
The Consolidator process is an emerging model, evolving in response to the adoption hurdles of buyers and sellers using a multiplicity of systems with varying requirements. A consolidator provides a remedy by simplifying invoice presentment, allowing trading partners to interact
through one party. The use of a Consolidator model is not limited to a specific buyer or seller profile. As with other invoice presentment models, a range of payment options may be offered.

**Example**
Buyer, Seller One, and Seller Two enroll with Consolidator. After Buyer purchases materials, Seller One and Seller Two each post two invoices to Consolidator. Buyer views all the invoices on the Consolidator site, and authorizes payment for Seller One’s invoices. Buyer initiates an electronic payment for Seller Two’s first invoice, but communicates a dispute – through the Consolidator – about a short shipment for the second invoice. Seller Two may adjust the invoice amount. Buyer initiates appropriate payment.

**Key Model Differentiators: Summary of Benefits and Challenges for Consolidator**

**Seller Benefits**
Seller reduces number of trading partner sites it must interact with for invoicing and payment; multiple buyers can be reached through one connection to a Consolidator.

Seller leverages shared technology infrastructure to standardize interaction with buyers (e.g. enrollment, presentment, payment, and possibly disputes).

Seller may leverage Consolidator services and features that seller may not have (e.g. resolution of multiple data formats and transmission protocols, analytic tools, security, scalability, etc.).

**Buyer Benefits**
Buyer reduces number of trading partner sites it must interact with for invoicing and payment; multiple sellers can be reached through one connection to a Consolidator.

Buyer leverages shared technology infrastructure to standardize interaction with sellers (e.g. enrollment, presentment, payment, and possibly disputes).

Buyer may leverage Consolidator services and features that buyer may not have (e.g. resolution of multiple data formats and transmission protocols, analytic tools, security, scalability, etc.).

**Seller Challenges**
Seller may have to convince – or require – buyer to use Consolidator EIPP.

Seller must comply with Consolidator enrollment requirements and payment options.

Seller may not be able to integrate Consolidator functions with existing systems such as A/R and customer care.

Seller messaging (i.e. marketing, regulatory) to buyers may be limited.

**Buyer Challenges**
Buyer may have to convince – or require – seller to use Consolidator EIPP.
Buyer must comply with Consolidator enrollment requirements and payment options.

Buyer may not be able to integrate Consolidator functions with existing systems such as A/P and purchasing/receiving.

**Implementation Considerations**

By serving multiple sellers and buyers, the consolidator may attract more buyers to each seller (and vice versa), without the necessity of having an established relationship.

ASP’s will most likely assist consolidators, since broad connectivity among trading partners benefits all players. An ASP consolidator may be able to amortize functionality development across more buyers and sellers, which may allow the consolidator to provide more flexibility, customized formats, and AP/AR system connectivity options. However, a consolidator could also evolve from a seller direct or buyer direct system.

One of the key hurdles for a Consolidator model is the interoperability of the Consolidator’s system with the systems of the buyer and seller. Using established (e.g. ANSI x12) or emerging (XML) standards may lower this hurdle.

**Conclusion**

Electronic Invoice Presentment and Payment is coming to the market from a number of directions. EIPP first gained acceptance from the seller side. Increasingly, buyers wish to take advantage of the process efficiencies of electronic transactions, and service providers are emerging to serve buyers. Consolidators are emerging between multiple buyers and sellers to serve the needs of both sides.

This paper provides an overview of the primary approaches to business-to-business EIPP in the market today. The Task Force recognizes, however, that there are variations on these three models, and that additional approaches may emerge. Some of the variations are presented in the Implementation Considerations in each section. Other variations may bridge business-to-consumer approaches and business-to-business approaches, resulting in some companies leveraging the same platform to bill both their consumer and business customers. An examination of B2C electronic bill presentment and payment models can be found in “An Overview of Electronic Bill Presentment and Payment (EBPP) Operating Models,” developed by the Council for Electronic Billing and Payment and available on the Council’s web site (http://cebp.nacha.org).

Buyers and sellers will continue to innovate, thus the models presented will evolve and change. It is important that EIPP adopters understand the key elements of EIPP and its benefits.

Profiting from EIPP does not require that every business implement the technology at the outset. Sellers and buyers alike have an opportunity to shape approaches, as well as reap the benefits of streamlined business processes, to their advantage and the advantage of their customers or suppliers. As awareness of the benefits to EIPP increases, companies will become more interested in adopting this technology.
## Appendix A - Comparison Charts for B2B Presentment Models

### Model Overview

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<td>Single buyer, many sellers</td>
<td>Many to many</td>
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### Process Flows

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<td>Buyer FI debits buyer account; seller’s FI credits seller account</td>
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### Usage Analysis

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<td>Existing Relationship</td>
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<td>Varies</td>
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<tr>
<td>Seller profile</td>
<td>Dominant company</td>
<td>Sellers required to use buyer’s system</td>
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## Key Model Differentiators – Summary of Benefits and Challenges

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### About the Authorship

Members of the Business-to-Business Task Force of the Council for Electronic Billing and Payment (CEBP) developed this paper to provide an objective, educational tool on EIPP. The National Automated Clearing House Association (NACHA) facilitates the CEBP.

The CEBP provides a forum for stakeholders to cooperate on education and standards development for electronic billing and payment. Since 1993, the Council has focused on building consensus within the business-to-consumer EBPP marketplace. For example, the Council’s “EBPP Business Practices” document fulfilled the need for defining EBPP expectations and responsibilities, and is fast becoming the measure for evaluating EBPP services and service providers.

The Council recognized that processes for business-to-consumer differ from business-to-business. Therefore, the CEBP formed the Business-to-Business (B2B) Task Force in May 2000 to focus on B2B issues, and to make recommendations for further Council actions.
With the same spirit of consensus development as the Council’s EBPP efforts, the B2B Task Force is circulating this paper to educate stakeholders on the B2B models for Internet-based electronic invoice presentment and payments (EIPP). This version of the paper covers the “B2B Presentment Models.” The section on “B2B Payment Options” is under development, and will likely be released early in the second quarter of 2001.

More information on the CEBP is available at: http://cebp.nacha.org.

Disclaimer: This document is a collaborative effort of the Business-to-Business Task Force membership, under the guidance of NACHA’s Council for Electronic Billing and Payment (CEBP). The information in this publication reflects the opinion of the Council, and is intended for educational purposes only.

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