



Access Point Quick Start Guide

January 2023



Business Payments Coalition

1 Introduction

Congratulations on your decision to become involved with the future of business payments as an Access Point Service Provider. This document offers a brief overview into the procedures required for an interested party to configure an Access Point in the Business Payments Coalition (BPC) Document Exchange Framework.

An exchange framework is a set of standards, policies and guidelines that enables businesses to connect once and exchange with anyone in the network, independent of current platform, system, or application for exchanging electronic documents.

The BPC Document Exchange Framework utilizes a four-corner model, as shown in Figure 1. The Corner One participant represents the seller of goods, while the Corner Four participant represents the buyer of goods. Corners Two and Three are the Access Point providers which handle the actual interchange of invoice and remittance data. The actions performed by the Access Points fall into the following three categories: Discovery (connecting with other businesses), Data (packaging the invoice and remittance information), and Delivery (delivering the invoice and remittance information).

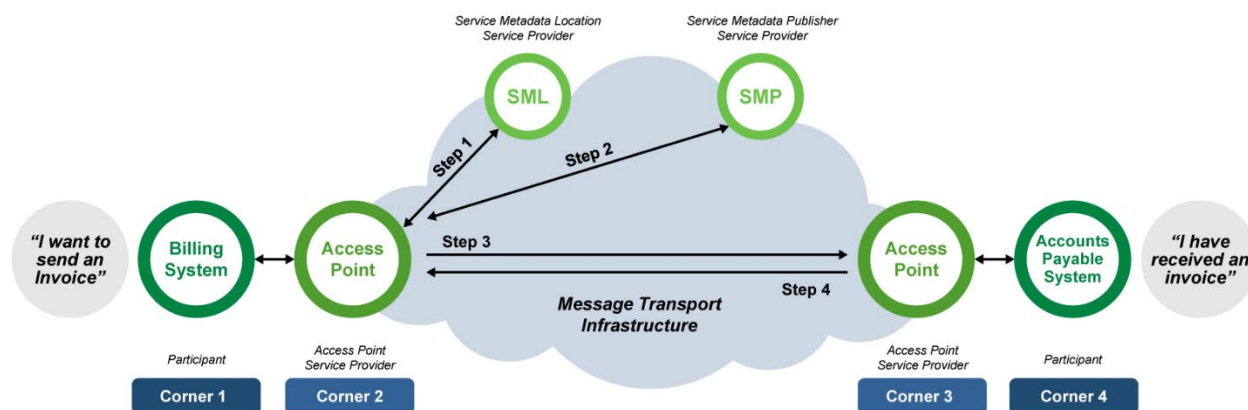


Figure 1. The four-corner e-invoicing framework

The BPC Document Exchange Framework is built around several message-profiles and policies:

Profile/Policy	Purpose
BPC AS4 profile	AS4 is used in the BPC network for the transmission of asynchronous messages between Access Points (Corners 2 and 3).
BPC Message Level Response profile	The Message Level Response (MLR) document type is used for signaling technical validation errors from a receiving Access Point (Corner 3) to a sending Access Point (Corner 2). The MLR is used when a Corner 3 Access Point receives a message from a Corner 2 Access Point that it is unable to process.
BPC Receipt Acknowledgement profile	The Receipt Acknowledgement is a business level response message used to signal that a business document has been received by its final recipient (Corner 4).
BPC SML profile	The BPC SML profile describes how Access Points must query the BPC network Service Metadata Locator (SML) to discover SMP services of Participants.
BPC SMP profile	This profile describes the technical and functional requirements of both SMP clients and services.
BPC XHE profile	The XHE is a digital envelope with standardized header information for relaying business documents between Access Points (Corners 2 and 3), as well as optional end-to-end security and integrity data between business users (Corners 1 and 4).
BPC Certificate policy	The policy for management and use of TLS/SSL and BPC market pilot certificates
BPC Identifier policy	Specifies the use of Business Identifiers, Service Provider Identifiers, Business Document Type Identifiers, and Business Process Identifiers.

2 Steps to Becoming an Access Point

- It is important to have a thorough understanding of the BPC e-Invoicing Framework, its structure, its governance, and the role of a Service Provider before implementing the Access Point.
- Set up the Access Point by following the steps outlined in Section 3.

3 Setting Up the Access Point

(This Quick Start Guide must be downloaded to enable the hotlinks below.)

	Check List Item	Participant Process
<input type="checkbox"/>	Sign the BPC Market Pilot Project Participant Non-Disclosure Agreement (NDA) you received when you joined the Market Pilot Project.	<ul style="list-style-type: none"> Email the signed NDA document to BPCMarketPilot@mpls.frb.org
<input type="checkbox"/>	Provide a valid Participant ID that adheres to the BPC Identifier Policy .	<ul style="list-style-type: none"> Enter the following information into the Market Pilot Wave Participant Information – Google Sheets <ul style="list-style-type: none"> Participant ID Qualified SMP URL and other details regarding your participation
<input type="checkbox"/>	Register with an SMP, and provide the qualified URL obtained from the SMP provider.	<ul style="list-style-type: none"> Contact an SMP listed in the Market Pilot Wave Participant Information – Google Sheets to register. Enter the qualified SMP URL into Market Pilot Wave Participant Information – Google Sheets spreadsheet.
<input type="checkbox"/>	Register with an SML.	<ul style="list-style-type: none"> Email the Market Pilot SML to register: <ul style="list-style-type: none"> Kenneth Bengtsson <ul style="list-style-type: none"> bdxhub@gmail.com
<input type="checkbox"/>	Obtain certificate from Certificate Authority Custodian (CAC).	<ul style="list-style-type: none"> Email your certificate signing request (CSR) to the CAC: <ul style="list-style-type: none"> Marine Net LLC - <ul style="list-style-type: none"> Jim.Taylor@MarineNetLLC.com For assistance generating and validating a CSR visit: <ul style="list-style-type: none"> https://bpc.bdxhub.com/csr_generator.jsp https://bpc.bdxhub.com/csr_validator.jsp CAC sends confirmation email to participant along with the certificate and cc's BPCMarketPilot@mpls.frb.org
<input type="checkbox"/>	Download and install code.	<ul style="list-style-type: none"> E-Invoice Onboarding Toolkit Repository Available Open Source Software List
<input type="checkbox"/>	Connect to network and begin exchanging invoices.	<ul style="list-style-type: none"> Participant utilizes Tools and Resources for reference, testing, collaboration, and reporting



<input type="checkbox"/>	<p>Access Points - Maintain the list of C1s (corporates sending e-invoices) and C4s (corporates receiving e-invoices) upon onboarding any new end points to the framework.</p>	<ul style="list-style-type: none">● Enter the following information into the C1, C4 Participants List tab in the Market Pilot Wave Participant Information – Google Sheets<ul style="list-style-type: none">○ Corporate Name○ Contact Name (optional)○ Contact email (optional)○ Participant ID○ Invoices – Sending, Receiving, or Both
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4 BPC Technical Specifications

Users must always stay in compliance with the approved BPC specifications listed below. In addition to the specifications, test plans to ensure proper network component function are also provided. Other documentation includes documentation of the BPC Discovery and Delivery tools, and a link to the BPC GitHub repository.

Approved BPC Specifications	Link
Find the latest BPC Document Exchange Framework-approved versions of network policies, technical specifications, and document profiles in the links at right.	BPC-Exchange-Framework/BPC-Market-Pilot: Approved specifications and related issue tracking for the BPC Market Pilot. (github.com)
Companion documentation	Link
<ul style="list-style-type: none"> ○ Access Point Test Plan –Sending ○ Access Point Test Plan –Receiving ○ SMP Test Plan 	https://docs.google.com/spreadsheets/d/1ejkMDgeBAz3kRiEhhkYJBYbCEAVJ3OnD/edit?usp=sharing&ouid=10731877279226222770&rtpof=true&sd=true
BPC Open-source Discovery and Delivery Tools Documentation and Repository	E-Invoice Onboarding Toolkit (bpc-exchange-framework.github.io)
BPC Issue Tracking GitHub Repository <ul style="list-style-type: none"> ○ Capture and track status of technical issues. 	BPC-Exchange-Framework/BPC-Market-Pilot: Approved specifications and related issue tracking for the BPC Market Pilot. (github.com)
BPC Semantic Validation Artifacts	Semantic Validation Artifacts