



# AS2 Implementation Guide

04/13/2021

**Document Number:**

**Version 3.2**

## Overview

This document is intended to give direction to D&H's Trading Partners using AS2 communications with D&H for B2B data transfer. AS2 is intended for encrypted, secure data transfers.

## Scope

The scope of this document is to help D&H's trading partners get started trading data using AS2. It is not intended to provide detailed implementation design specifications nor is it intended to be a tutorial resource for AS2 communications using HTTP/S.

It is assumed that the trading partner will have resources available that understand the issues and technologies required to implement AS2 and HTTP/S communications.

## Getting Started

1. Contact your D&H business representative and request to trade data using this transport.
2. Your D&H business representative will work with the appropriate D&H team to create a project deployment schedule.
3. The D&H EDI contact will send the Trading Partner Worksheet requesting information, such as a secure website URL to which files will be posted, encryption certificate information, etc.
4. UAT testing consists of successfully posting interchanges for each transaction to the partner's secure site.

## General Requirements

### AS2 Requirements:

The trading partner must be using fully interoperable AS2 software for transport. D&H prefers synchronous MDNs. The trading partner must also use HTTP or HTTPS for transport. The trading partner must provide MDN format receipts in response to transactions. A cert will also be required for encryption and identity which may be self-generated by your AS2 software.

## Requirements for HTTP/S Transport:

### Outbound AS2 from D&H

D&H will send to any HTTP/S port upon review by D&H's Security Team.

### Inbound AS2 to D&H

D&H will only receive on port 2080 via HTTP.

D&H will only receive on port 2443 via HTTPS (**this needs to be confirmed with D&H EDI Team**)

### Production:

<http://prodas2.dandh.com:2080/ipnet/as2>

<https://prodas2.dandh.com:2443/ipnet/as2>

D&H AS2 ID:	AS2_DHDIST
Hash Encryption:	SHA2 256
Encryption Algorithm:	AES 256
Encryption Certificate	Dandh_edi_2021.cer

### Test:

<http://testas2.dandh.com:2080/ipnet/as2>

<https://testas2.dandh.com:2443/ipnet/as2>

D&H AS2 ID:	AS2_DHDIST_TEST
Hash Encryption:	SHA2 256
Encryption Algorithm:	Aes 256
Encryption Certificate	Dandh_edi_2021.cer

## Sending to D&H

### Encryption specs for AS2 message

Encrypt messages:	Yes
Encryption algorithm:	AES 256 ( if unable to support please let us know)
Sign messages:	Yes
Signing algorithm:	SHA2 256
Compress Data:	Yes
Request receipt delivery method :	Synchronous

**D&H will send from the below IP addresses. Please verify firewalls are open to allow traffic from these D&H IP addresses:**

Production:	8.28.219.94
Test:	8.28.219.95
Failover	8.28.219.2

## Transport Failure

If an MDN format receipt is not returned, we will attempt to send the data again. The number of retries may vary from implementation to implementation.

If a connection cannot be established with the partner's web site, a member of the D&H EDI team will contact the trading partner.

The receiving application must be able to recognize duplicates.

## Testing Connectivity

Submit and e-mail to [edi@dandh.com](mailto:edi@dandh.com) for all test and production related EDI issues.

### **COMPANY INFO:**

D & H Distributing Co  
100 Tech Dr.  
Harrisburg, PA 17112

### **TECHNICAL CONTACTS:**

Submit and e-mail to the D&H EDI team at [edi@dandh.com](mailto:edi@dandh.com) for informational only correspondences.

### **Miscellaneous Links**

- Drummond Group: [www.drummondgroup.com](http://www.drummondgroup.com)
- Drummond Group list of AS2 interoperable tested products:  
<http://www.drummondgroup.com/html-v2/products-as2.html>