

IBM Software Group

2006 B2B Customer Conference B2B – Catch the Next Wave

C8: Using Applicability Statement (AS) within WPG

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Objectives

Applicability Statement overview

- Describe the background to Applicability Statement (AS)
- > What AS provides
- Basic message flow and AS message structure
- AS within WPG
 - Features
 - Configuration (AS2)





Applicability Statement Background

- Defined by the Internet Engineering Task Force (IETF) EDIINT Work Group.
- A protocol to enable Electronic Data Interchange (EDI) over the Internet while maintaining a service level equivalent to the existing EDI exchanges over Value Added Networks (VAN).
- Objective was to profit from the advantages of Internet technologies without any negative impact on the installed EDI user base.
- VANs ensure the confidentiality, integrity and non-repudiation of the exchanged information as well as the authentication of the partners. Multiple technologies providing these functions for the Internet existed already and the approach of the EDIINT project was to evaluate these and to provide an integrated solution for the user community.
- The EDIINT protocols define an envelope for information to be transmitted over the Internet (or TCP-IP based networks) using HTTP, which is the foundation for the World Wide Web (WWW), SMTP, which is the common Internet mail protocol or FTP, File Transfer Protocol.

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Applicability Statement Provides

- A standard for secure transmission of documents over SMTP (AS1), HTTP (AS2), FTP (AS3).
 - Provides a packaging wrapper for the payload document.
 - > Documents can be EDI, XML, flat file, binary.
- A standard receipt protocol for non-repudiation.
 - A Message Disposition Notification (MDN) is used for the receipt.
 - \succ The receipt is not specific to the payload.





Terminology

- Receipt The functional message that is sent from a receiver to a sender to acknowledge receipt of an EDI/EC interchange. This message may be either synchronous or asynchronous in nature.
- Signed Receipt A receipt with a digital signature.
- Synchronous Receipt A receipt returned to the sender during the same HTTP session as the sender's original message.
- Asynchronous Receipt A receipt returned to the sender on a different communication session than the sender's original message session.
- Message Disposition Notification (MDN) The Internet messaging format used to convey a receipt. This term is used interchangeably with receipt. A MDN is a receipt.
- Non-repudiation of receipt (NRR) A "legal event" that occurs when the original sender of an EDI/EC interchange has verified the signed receipt coming back from the receiver. NRR IS NOT a functional or a technical message.





Secure Transmission Loop

- In the "secure transmission loop" for EDI/EC, one organization sends a signed and encrypted EDI/EC interchange to another organization and requests a signed receipt, and later the receiving organization sends this signed receipt back to the sending organization. In other words, the following transpires:
- The organization sending EDI/EC data signs and encrypts the data using S/MIME. In addition, the message will request that a signed receipt be returned to the sender. To support NRR, the original sender retains records of the message, message-ID, and digest (MIC) value.
- The receiving organization decrypts the message and verifies the signature, resulting in verified integrity of the data and authenticity of the sender.
- The receiving organization then returns a signed receipt to the sending organization in the form of a signed message disposition notification. This signed receipt will contain the hash of the received message, allowing the original sender to have evidence that the received message was authenticated and/or decrypted properly by the receiver.



AS Packaging Options

- Payload only (no encryption, signing, or payload compression).
- Payload only with compression (no encryption or signing).
- Sign and then payload compression.
- Payload compression and then sign.
- Encryption on any of the above.
- Request MDN on any of the above, which can be signed or unsigned, synchronous or asynchronous.



WPG Features

- AS messaging coming into WPG from partner
 - Unpackaging Decryption, signature verification, decompression.
 - Business id resolution to defined partners.
 - Receipt (MDN) reply.
 - > Non-repudiation storage of the received documents.
- AS message going out of WPG to partner
 - > Packaging Encryption, signing, compression.
 - > Retries when receipt not received.
- AS Document Viewer
 - Similar to the Document Viewer but specific to AS documents.
 - Can see the related MDN and status as relates to a document.





Configuration Summary

AS

Configure business ids.

> Decide if you want MDNs.

Decide if you want encryption or signing.

- If yes then also configure certificates.
- Configure for the payload
 - Business Ids, Action to use, etc.



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Configuration – AS B2B Capabilities

Package: AS (N/A)

Attribute	Description	Current Value	Inheritance	Update
Time To Acknowledge	Time To Acknowledge	30	Inherited from: Scope : Global Type : Time To Acknowledge	
Retry Count	Retry Count	3	Inherited from: Scope: Global Type: Retry Count	
AS Compress Before Sign	AS Compress Before Sign	Yes	Inherited from: Scope: Global Type: AS Compress Before Sign	Select one to update 💌
AS Compressed	AS Compressed	No	Inherited from: Scope : Global Type: AS Compressed	Select one to update 💌
AS Encrypted	AS Encrypted	Yes	Locally Assigned	Yes
AS MDN Http Url	AS MDN Http Url	http://localhost:57080/bcgreceiver/submit	Inherited from: Scope: Global Type: AS MDN Http Url	
AS MDN Email Address	AS MDN Email Address	emailto:xxx@xxx.xxx	Inherited from: Scope: Global Type: AS MDN Email Address	
AS MDN Asynchronous	AS MDN Asynchronous	Yes	Inherited from: Scope: Global Type: AS MDN Asynchronous	Select one to update
AS MDN Requested	AS MDN Requested	Yes	Inherited from: Scope: Global Type: AS MDN Requested	Select one to update
AS Message Digest Algorithm	AS Message Digest Algorithm	sha1	Inherited from: Scope: Global Type: AS Message Digest Algorithm	Select one to update
AS MDN Signed	AS MDN Signed	Yes	Locally Assigned	Yes
AS Signed	AS Signed	Yes	Locally Assigned	Yes
AS Business Id	AS Business Id	E1111111	Locally Assigned	E11111111 •



Configure Business IDs – Receiving documents

Yourself (i.e. Community Manager)

- Partner Profile Used for receiving documents from partner
 - AS Business ID.
 - Payload Business ID (i.e. EDI Interchange)
 - Note: For EDI the business id consists of the EDI Qualifier-EDI business id.

Your partner (i.e. Community Participant)

Partner Profile – Used for receiving documents from partner

> AS Business ID.

- Payload Business ID (i.e. EDI Interchange).
 - Note: For EDI the business id consists of the EDI Qualifier-EDI business id.





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Business IDs – Participants

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Dortnor profile			
	🏈 🛛 Compan	y Login Name	cmgr
	Participant	Display Name	cmgr
	Pa	rticipant Type	Community Manager
		Status	Enabled
		Vendor Type	
		Web Site	
	Business ID		
	Туре	Identifier	
	Freeform	C11111111	
	Freeform	01-C11111111	

Community Manager - B2B Capabilities or Document Flow Definition (Global) on the Source Document (from Backend) Community Participant - B2B Capabilities on the Target Document

	i ypo no ogiou				
AS Business Id	AS Business Id	No value provided No value provided	Select one to update		
		Save Close	Select one to update C11111111 01-C11111111		

Configure Business IDs – Sending documents

Yourself (i.e. Community Manager)

B2B Capabilities – Used for sending documents to a partner.

>AS Business ID – Note: this has to be set on the original source document from the backend, not the AS packaging.

> If business id is not set then the source document sender business id will be used.

Your partner (i.e. Community Participant)

B2B Capabilities – Used for sending documents to a partner.

>AS Business ID – Set on the AS Package.

> If business id is not set then the source document recipient business id will be used.

Community Manager - B2B Capabilities or Document Flow Definition (Global) on the Source Document (from Backend)

Community Participant - B2B Capabilities on the Target Document





Configuring MDNs

- Can configure in two different places:
 - > On the target partners B2B Capabilities (specific to partner).
 - > On the Document Flow Definition level (global).
- Set MDN
 - Asynchronous or Synchronous flag
 - HTTP response URL
 - For synchronous can be any value as long as valid HTTP URL format (i.e. <u>http://xxx</u>).
 - For asynchronous use the URL of a WPG HTTP Target (i.e. http://hostname:57080/bcgreceiver/submit).
 - Email address
 - For AS2 can be any value as long as valid email URL format (i.e. email:xxx@xxx.xxx).
 - Signed MDN requirement Yes/No



Configuration MDN

Example with synchronous MDN

AS MDN Http Url	AS MDN Http Url	http://xxx	Locally Assigned	http://xxx
AS MDN Email Address	AS MDN Email Address	emailto:xxx@xxx.xxx	Locally Assigned	emailto:xxx@xxx.xxx
AS MDN Asynchronous	AS MDN Asynchronous	No	Locally Assigned	No
AS MDN Requested	AS MDN Requested	Yes	Locally Assigned	Yes

Example with asynchronous MDN

AS MDN Http Url	AS MDN Http Url	http://localhost:57080/bcgreceiver/submit	Locally Assigned	http://localhost:57080/bcgreceiv
AS MDN Email Address	AS MDN Email Address	emailto:xxx@xxx.xxx	Locally Assigned	emailto:xxx@xxx.xxx
AS MDN Asynchronous	AS MDN Asynchronous	Yes	Locally Assigned	Yes
AS MDN Requested	AS MDN Requested	Yes	Locally Assigned	Yes





Configuring Synchronous MDNs – Receiver Target

- Some partners may request a synchronous MDN when they send you an AS2 document. The only required configuration is on the HTTP Receiver Target definition.
- Configure the Sync Check Handler: com.ibm.server.sy7nc.AS2SyncHdlr

Handlers
Configuration Point Handlers: syncCheck 💌
Handler Selection
Configured List
Selected handler:
com.ibm.bcg.server.sync.As2SyncHdIr





Configuration - Signing

- Used for sending and receiving. For receiving WPG will enforce the signing requirement.
- Can configure in two different places:
 - >On the target partners B2B Capabilities (specific to partner).
 - >On the Document Flow Definition level (global)
- Set Signing
 - For payload
 - •Will sign when sending to a partner.
 - •Will require the payload to be signed when receiving from a partner.
 - ➢For returned MDN
 - Optionally set signature hash algorithm
- Ensure that your signing private key (*.p12) is loaded (under Operator).
- For a returned signed MDN ensure the partners signing certificate (*.arm) is loaded.

AS Message Digest Algorithm	AS Message Digest Algorithm	sha1	Inherited from: Scope: Global Type: AS Message Digest Algorithm	Select one to update 💌
AS MDN Signed	AS MDN Signed	Yes	Locally Assigned	Yes
AS Signed	AS Signed	Yes	Locally Assigned	Yes



Configuration - Encrypted

- Used for sending and receiving. For receiving WPG will enforce the encryption requirement.
- Can configure in two different places:
 - >On the target partners B2B Capabilities (specific to partner).
 - >On the Document Flow Definition level (global).
- Set Encryption for payload

>Will encrypt when sending to a partner.

>Will require the payload to be encrypted when receiving from a partner.

- Ensure that your partners encrypting certificate (*.arm) is loaded.
- For a returned encrypted MDN ensure the your private key (*.p12) is loaded (under Operator).

AS Encrypted	AS Encrypted	Yes	Locally Assigned	Yes	¥
			· · · ·		





Configuration - Miscellaneous

- Compression Compress before or after signing.
- Time to acknowledge Time to wait (in minutes) for a returned MDN, if times out will resend the document.
- Retry Count Number of resend tries.

Time To Acknowledge	Time To Acknowledge	30	Inherited from: Scope : Global Type : Time To Acknowledge	
Retry Count	Retry Count	3	Inherited from: Scope: Global Type: Retry Count	
AS Compress Before Sign	AS Compress Before Sign	Yes	Inherited from: Scope: Global Type: AS Compress Before Sign	Select one to update
AS Compressed	AS Compressed	No	Inherited from: Scope: Global Type: AS Compressed	Select one to update





AS Document Viewer - List View

Example showing:

- Asynchronous MDN and status
- Synchronous MDN and status
- ➢No MDN requested

Message II	Message ID: 115774883273400000000000000000000000000000000000					
<i>p</i>	Source Participant: cmgr Target Participant: EPartner1	Source: 9/8/06 4:53:52 PM	None (N/A) — EDI-X12 (ALL) ISA: Production	Production	B	
Message	Message ID: 1157748709688000000000000000000000000000000000					
<i>P</i>	Source Participant: cmgr Target Participant: EPartner1	Source: 9/8/06 4:51:49 PM	None (N/A) — EDI-X12 (ALL) ISA: Production	Production)	
Message I	Message ID: 115774618540600000000000000000000000000000000000					
<i>p</i>	Source Participant: cmgr Target Participant: EPartner1	Source: 9/8/06 4:09:44 PM	None (N/A) —— EDI-X12 (ALL) ISA: Production	Production	N/A	





AS Document Viewer - Details View

Drill down showing further details as well as both the original AS document and the MDN response

Packa	age Details					Welcome, Hub Adminis	
						+ List	
Messa	ige ID 11577488327340000	00000010035640000000000000000000000000000000000)98@rayne01				
	Source Participar cmgr	ıt	Target Participant EPartner1	So	purce Time Stamp 9/8/06 4:53:52 PM	Gateway Type Production	
Package	http://localh	MDN URI nost:57080/bcgreceiver/submit		au	MDN Disposition Text tomatic-action/MDN-sent-automatically	; processed	
Doc Time	e Stamp: 010417-1200						
۵	Source: cmgr	In: 9/8/06 4:53:52 PM	🗎 (0.391 kb)	None (N/A):	EDI-X12 ALL: ISA (ALL)	Routing From Source	
<i>~</i>	Target: EPartner1	Out: 9/8/06 4:53:53 PM	🗎 (0.963 kb)	AS (N/A):	EDI-X12 ALL: ISA ISA (ALL)	Ø	
Doc Time	Doc Time Stamp: -						
Þ	Source: EPartner1	In: 9/8/06 4:53:54 PM	(1.123 kb)	AS (N/A):	Binary 1.0: Binary (1.0)	Routing From Source	
v —	Target: cmgr	Out: 9/8/06 4:53:55 PM		():	: - (-)	Ł	

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Summary

- AS is a payload agnostic envelope for sending documents via the internet.
- AS provides the conventions for signing, encryption, receipts, and non-repudiation.
- WPG will handle the AS requirements
 - Encryption, signing, MDNs (including correlation), nonrepudiation, retries.
- We covered the AS semantics and how WPG configuration relates to those semantics.



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References

- Document references
- AS Packaging references
- AS Message examples





References - Documents

Specifications

- AS1 (SMTP) RFC3335 MIME-based Secure Peer-to-Peer Business Data Interchange over the Internet
- AS2 (HTTP) RFC4130 MIME-Based Secure Peer-to-Peer Business Data Interchange Using HTTP, Applicability Statement 2
- AS3 (FTP) draft-ietf-ediint-as3-04.txt FTP Transport for Secure Peer-to-Peer Business Data Interchange over the Internet – submitted for RFC approval
- MDN (Message Disposition Notification) RFC3798
- WPG Product Documentation
 - Hub Configuration Guide





References – AS Packaging

- Following three slides show a picture representation of AS packaging
 - Compression and Encryption.
 - Signature on uncompressed payload, compression, encryption.
 - Signature on compressed payload, encryption.





AS2 Mime With Compression/Encryption



- A1 = application/xml, *application/edifact, *application/edix12 * - indicates binary A2 = application/pkcs7-mime B1 = compressed-data
 - B2 = enveloped-data





AS2 Mime With Signature/Compression/Encryption 1



A1 = application/xml, *application/edifact, *application/edix12 * - indicates binary A2 = application/pkcs7-mime A3 = application/pkcs7-signature A4 = multipart/signed B1 = compressed-data B2 = enveloped-data



AS2 Mime With Signature/Compression/Encryption 2



A1 = application/xml, *application/edifact, *application/edix12 * - indicates binary A2 = application/pkcs7-mime A3 = application/pkcs7-signature A4 = multipart/signed B1 = compressed-data B2 = enveloped-data



Example of AS messages

Examples show:

- Plain message
- Message requesting synchronous MDN
- Message requesting asynchronous MDN
- Message requesting asynchronous MDN and is Signed.
- Message requesting asynchronous signed MDN, is signed and encrypted.
- Example MDN
- Example MDN that is signed.



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Internet Internet States of States and States	

Example: No MDN, Signing, Or Encryption

Transport Header POST /input/AS2 HTTP/1.1 Connection: close Host: localhost: 59080 Date: Fri, 08 Sep 2006 20:09:45 UTC Translated Document Content-Length: 391 Content Type: app liestion/edi-x12 AS2-From: C11111111 AS2-To: E11111111 Mime-Version: 1.0 Recipient-Address: http://localhost:59080/input/AS2 Subject: E11111111;C1111111 Content-Disposition: attachment; filename=edi-cmgr-to-EPartner1.inp ISA~00~ ~00~ ~01~C1111111 ~01~E1111111 ~010417~1200~U~00401~00000001~0~T~:! GS~OG~6116630000~004236241~20010417~1200~1~X~004010! ST~879~0001! G91~W! N1~BY~BUYER NAME~9~004236241! N1~VN~VENDOR~9~123456780! G62~07~20010419! G28~012345000621~012345000621~UP~123456789012~VN~30108! G62~61~20010419! G40~~10.50~~~1350! SE~9~0001! GE~1~1! IEA~1~00000001! Old and Million and Street





Example: Sync MDN, No Signing Or Encryption

Transport Header

POST /input/AS2 HTTP/1.1 Connection: close Host: localhost:59080 Date: Fri, 08 Sep 2006 20:28:54 UTC

Translated Document

Content Disposition: attachment, Hename=edi-cmgr-to-EPartner1.

Disposition-Notification-To: xxx@xxx.xxx

```
ISA~00~ ~00~ ~01~C1111111 ~01~E1111111 ~010417~1200~U~00401~00000001~0~T~:!
GS~QG~6116630000~004236241~20010417~1200~1~X~004010!
ST~879~0001!
G91~W!
N1~BY~BUYER NAME~9~004236241!
N1~VN~VENDOR~9~123456780!
G62~07~20010419!
G28~012345000621~012345000621~UP~123456789012~VN~30108!
G62~61~20010419!
G40~~10.50~~~1350!
SE~9~0001!
GE~1~1!
IEA~1~000000001!
```

Example: Async MDN, No Signing Or Encryption

Transport Header

POST /input/AS2 HTTP/1.1 Connection: close Host: localhost:59080 Date: Fri, 08 Sep 2006 20:53:53 UTC

Translated Document

Disposition-Notification-To: xxx@xxx.xxx Receipt-Delivery-Option: http://localhost:570:0/bcgreceiver/submit

```
ISA~00~ ~00~ ~01~C1111111 ~01~E111111 ~010417~1200~U~00401~00000001~0~T~:!
GS~QG~6116630000~004236241~20010417~1200~1~X~004010!
ST~879~0001!
G91~W!
N1~BY~BUYER NAME~9~004236241!
N1~VN~VENDOR~9~123456780!
G62~07~20010419!
G28~012345000621~012345000621~UP~123456789012~VN~30108!
G62~61~20010419!
G40~~10.50~~~1350!
SE~9~0001!
GE~1~1!
IEA~1~0000000001!
```



Example: Async MDN And Signing, No Encryption

```
analassa posallisi
Content-Type: multipart/signed; micalg=sha1; protocol="application/pkcs7-signature"; boundary="----
= Part 0 154876699.1157750500891"
ASZ-TISIN: C11111111
AS2-To: E11111111
AS2-Version: 1.1
Message-ID: <1157750500875000000000000035640000000000110@rayne01>
Mime-Version: 1.0
Recipient-Address: http://localhost:59080/input/AS2
Subject: E11111111;C1111111
Disposition-Notification-To: xxx@xxx.xxx
Receipt-Delivery-Option: http://localhost:57080/bcgreceiver/submit
Content-Length: 1586
-----= Part 0 154876699.1157750500891
Content-Type: application/edi-x12
Content-Disposition: attachment; filename=edi-cmgr-to-EPartner1.inp
ISA~00~ ~00~ ~01~C1111111 ~01~E1111111 ~010417~1200~U~00401~00000001~0~T~:!
GS~OG~6116630000~004236241~20010417~1200~1~X~004010!
ST~879~0001!
G91~W!
N1~BY~BUYER NAME~9~004236241!
N1~VN~VENDOR~9~123456780!
G62~07~20010419!
G28~012345000621~012345000621~UP~123456789012~VN~30108!
G62~61~20010419!
G40~~10.50~~~1350!
SE~9~0001!
GE~1~1!
IEA~1 00000001!
  ---= Part 0 154876699.1157750500891
Content-Type: application/pkcs7-signature; name=smime.p7s
Content-Transfer-Encoding: binary
0 - * r=1 └P0L1rr1 0 - |+♬≒+|0 - * r=rr31rn1 Er0 - * r-|051 0 - └U┘-リ1US1∢0œ-└U┘
IIIBM test1I0←LULL
9.49.189.001 060908210819Z1 090603210819Z051 0 -LUJ-II-US140¢-LUJ
IIIBM test1II0←LULL
9.49.189.000 - * r r r | └ 0ı Ok<#□& [)4O610 ⊤ r/ + |□r↑ úB⊦ M→ ?s 4D□ | '|- jG*) Oı └ r r 0 - * r r J | └ A(t37NX/3
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L ¶ `→ K 🛛 LLC□i□&□EB0>1 r r 0=051 0 - L U<sup>1</sup> - M 1 US1∢ 0$ - L U<sup>1</sup>
IDIBM test1I0←LULL
9.49.189.0 J Er 0 - | + <sup>β</sup> L 1 + | 0<sup>†</sup> - * r L 1 - * r • r 0 - * r | 12 + 060908212140Z0# - * r J 1 - J ¶
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r r r | ┘ 9RKカ R 8□ðM□ mJhwL¶ k*⊥ mE2E*~)Ra\@3,o eカ 5h+iGADO.┘ 8┘ ]9
       Part_0_154876699.1157750500891--
```

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Example: Async Signed MDN, Signing, And Encryption

Content-Type: application/pkcs7-mime; smime-type=enveloped-data; name=smime.p7m AS2 From: C11111111 AS2-To: E11111111 AS2-Version: 1.1 Mime-Version: 1.0 Recipient-Address: http://localhost:59080/input/AS2 Subject: E11111111;C1111111 Disposition-Netification-To: xxx@xxx.xxx Disposition-Notification-Options: signed-receipt-protocol=optional, pkcs7-signature; signed-receipt-micalg=optional, sha1 Receipt-Delivery-Option: http://localhost:57080/bcgreceiver/submit Content-Length: 2031 0 * reler10, r0G0?1 0 -LUJ-I, US1+0-LUJ ItIBM Test EPartner11I0€-LUJ LI 9,49,189,0₁┘Er0 - * rrrl┘i=ktł'!{atN[var5=Po1|4Uł^H`UUU{YKC/?1[OWkp(5S]-1|! * r•r0¶-3* └・┘□ na □eKO_T 'F□E† N+ gX+ + 27Q6カ v^/;□F:cJ6KC*>\ /VMg`4ぉカ 62ªZ 英+ - oi;t}(jzU AmMkM+ x Rt2) yEK□ b+Qs9Q#¢ @AdG&ka¢ 5{cA kå, - -A|v^ n? ↑ □b_z{z□H/¢ من y! 4j k/@;}viL)R↑ | X:6Syī • ¿z ¶ 6T@□a},ﷺ5 - Vh7\$Mr γ9I±[⊥] + A[⊥] ? ă ┤ ?♯ V[X]□^(□uEu_z&) (i□ B V00 E>-?3rjv1↑ '*+ >9+ 2*]i∢ | + 4r9Z,¶ <7&STuSiL 0 + SYP+b(A.d/\• ;↑ 1/+ _ _ ↑ {6US`r_k0 y?}__k+ D^f~t80 □6be ■&c gi b• □ □Rp :Cko t S"fd<u{k'k9□3□₀Lβ !A?ZO₁ =□wWX+t /%©A`₁ alt 5┘ ~ - /t k'^ JCm⊤ H{dG□J↓ {xx`□b+ □MnVÏ{A1 rS¶ • .E1 N^T[OD*-\$ "Y e{- g• □x6?zK3t^D + ?DN1 + 0}B~)1 [\yK*+ □ b,e2z+ + L Yw`BoC+ C¹ < 1 O pg,HY7r□ n^L β⁻¹ {3(+□`u+β⁻¹ KwufrI^^"`¶ R ⊤ ⊤ q¹ =Fp WhaI^□nz71□() ();9aip __H∢ \hq?d□\$G7ED&2 -uSG-30:-Mi#%GP KáP^XM%¶_TM]Yza8

Example: MDN

Transport Header

Connection: Content-Length: 711 Host: AS2-Version: 1.1 Recipient-Address: http://localhost:59080/input/AS2 Subject: C1111111; E1111111 Mime-Version: 1.0 Content-Type: multipart/report; Report-Type=disposition-notification; boundary="----=_Part_40_298968702.1157748834688" AS2-To: C1111111 AS2-From: E1111111 ReferenceId: 115774883482800000000010040760000000000026 Message-ID: <E1111111@1157748833109C0A8016537cb61883397d8602291e678010d8ef53e6a097ff6>

Initial Document

-----=_Part_40_298968702.1157748834688 Content-Type: text/plain Content-Transfer-Encoding: 7bit

This MDN response message is for:

Message id: <115774883273400000000000000356400000000000098@rayne01> From: C1111111

-----=_Part_40_298968702.1157748834688 Content-Type: message/disposition-notification Content-Transfer-Encoding: 7bit

Disposition: automatic-action/MDN-sent-automatically; processed Received-Content-MIC: 2u6ZhFf/oeJ+N0LlaHWJwx4bfBM=, sha1

-----=_Part_40_298968762.115774883466



Example: MDN With Signature

Transport Header Connection: Content-Length: 1968 Host: AS2-Version: 1.1 Recipient-Address: http://localhost:59080/input/AS2 Subject: C11111111; E11111111 ontent-Type: multipart/signed; micalg=sha1; protocol="application/pkcs7-@nature"; boundary="----=_Part_102_1108813426.1157751327016" AS2-10. C1111111 AS2-From: E11111111 Message-ID: <E11111111@1157751324469C0A8016537cb61f8f3397d8602291e678010d8ef53e6a097ff2> **Initial Document** -----=_Part_102_1108813426.1157751.27016 Content-Type: multipart/report; Report-Type=disposition-notification; boundary="----= Part 101 762685042.1157751327016" -----=_Part_101_762685042.1157751327016 Content-Type: text/plain Content-Transfer-Encoding: 7bit This MDN response message is for: Message id: <115775132407800000000000003564000000000000121@rayne01> From: C11111111 -----= Part 101 762685042.1157751327016 Content-Type: message/disposition-notification Content-Transfer-Encoding: 7bit Reporting-UA: WBI_Connect-Express Original-Recipient: rfc822; E11111111 Final-Recipient: rfc822: E11111111 iginal-Message-ID: <115775132407800000000000000000000000000000000121@ravne01> Disposition: automatic-action/MDN-sent-automatically; processed Received-Content-MIC: 2FcBrtclFKOOYS9z/cUuNf5dLaE=, sha1 102 1108813426.1157751327016 Content-Type: application/pkcs7-signature; name=smime.p7s Content-Transfer-Encoding: binary 0}- * reginnin 0 - + # - + 0 - * regr^g - * rel 0?1 0 - 403-0 - 403-0 - 403 IIIBM Test EPartner11I0←LUIL 9.49.189.00 060908211254Z 090603211254Z0?1 0 -LUJ-II1US1+0 -LUJ IIIBM Test EPartner11I0←LULL 9.19.189.000 - * rrr| 4011`z_)X|^,ya1M o):0 🔊 📲 (mt] || a1&?¶ 0 >0 >a- h Tj† + 1 └ r r 0 - * r r ┘ | └ @j└ Ocロqu+ 燮m38P6GwP1 f9 >RG+ ŀ LoIo9%comFl R'qV竦 :/1 R口 LUH₁ r r 1 0 -LUJ-I-US1+0 IIIBM Test EPartner11804

B2B – Catch the Next Wave