XAV Response

The Address Validation Response

The AddressValidationResponse message contains a single XML document that conforms to the following XML structure.

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Name	XPath	Required	Max Allowed	Type	Length	Description	Validation Rules
AddressValidationResponse	/AddressValidationResponse	Yes	1	Container	N/A	N/A	
Response	/AddressValidationResponse/Response	Yes	One	Container	N/A	N/A	
TransactionReference	/AddressValidationResponse/Response/TransactionReference	Yes	One	Container	N/A	N/A	
CustomerContext	/AddressValidationResponse/Response/TransactionReference/CustomerContext		One	String	1...512	Echoes back the Customercontext from the Request	
TransactionIdentifier	/AddressValidationResponse/Response/TransactionReference/TransactionIdentifier		One	String			
XpciVersion	/AddressValidationResponse/Response/TransactionReference/XpciVersion		One	String	1...15	Represents the version of the schema used by the XAV Tool	
ToolVersion	/AddressValidationResponse/Response/TransactionReference/ToolVersion		One	String		Represents the version of the logic used by the XAV Tool	
ResponseStatusCode	/AddressValidationResponse/Response/ResponseStatusCode	Yes	One	String	1	Identifies the success or failure of the transaction. 1 = Success 0 = Failure	
ResponseStatusDescription	/AddressValidationResponse/Response/ResponseStatusDescription		One	String	1...35	Describes Response Status Code. Returns text of 'Success' or 'Failure'.	

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Name	XPath	Required	Max Allowed	Type	Length	Description	Validation Rules
Error	/AddressValidationResponse/Response/Error	Yes	One	Container	N/A	Error Container. The error is described with a code and description.	
ErrorSeverity	/AddressValidationResponse/Response/Error/ErrorSeverity	Yes	One	String	1...10	Valid values: 'Hard' - The provided Request data will always fail 'Transient' - A UPS application is suffering an intermittent failure. Try the transaction again later.	
ErrorCode	/AddressValidationResponse/Response/Error/ErrorCode	Yes	One	String	1...2	Warning code returned by the system.	
ErrorDescription	/AddressValidationResponse/Response/Error/ErrorDescription		One	String	1...150		
MinimumRetrySeconds	/AddressValidationResponse/Response/Error/MinimumRetrySeconds		One	String	1...15	How long to wait before re-transmitting a Transaction that failed with a 'Transitive' error	
ErrorLocation	/AddressValidationResponse/Response/Error/ErrorLocation	Yes	One	Container	1...150	XPATH of the element causing the 'Hard' error	
ErrorLocationElementName	/AddressValidationResponse/Response/Error/ErrorLocation/ErrorLocationElementName		One	String	1...30	Element whose value causes the 'Hard' error	
ErrorLocationElementReference	/AddressValidationResponse/Response/Error/ErrorLocation/ErrorLocationElementReference		One	String		Not Used	
ErrorLocationAttributeName	/AddressValidationResponse/Response/Error/ErrorLocation/ErrorLocationAttributeName		One	String			
ErrorDigest	/AddressValidationResponse/Response/Error/ErrorDigest		One	String	Unbounded	Details of the error	

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Name	XPath	Required	Max Allowed	Type	Length	Description	Validation Rules
ValidAddressIndicator	/AddressValidationResponse/ValidAddressIndicator	Cond	One	EMPTY	N/A	The input address matches an address in the Address Matching Systems database; under the condition where the Address Matching System is able to explicitly differentiate an address from all others in the database.	
AmbiguousAddressIndicator	/AddressValidationResponse/AmbiguousAddressIndicator	Cond	One	EMPTY	N/A	The Address Matching System is not able to explicitly differentiate an address from any other one in the database. The list of potential matching addresses may be included in the Candidate list.	
NoCandidatesIndicator	/AddressValidationResponse/NoCandidatesIndicator	Cond	One	EMPTY	N/A	The Address Matching System is not able to match an address from any other one in the database.	
AddressClassification	/AddressValidationResponse/AddressClassification	No	One	Container	N/A	Container returning the classification of the input address, if requested	
Code	/AddressValidationResponse/AddressClassification/Code	Yes*	One	string	1	Contains the classification code of the input address. 0 = Unknown 1= Commercial 2 = Residential	
Description	/AddressValidationResponse/AddressClassification/Description	Yes*	One	string	1...15	Contains the text description of the address classification code: Unknown Commercial Residential	
AddressKeyFormat	/AddressValidationResponse/AddressKeyFormat	Cond	One	Container	N/A	The Key format is based on addressing standards jointly developed by the Postal Service and mailing industry. The information provided in the Address Key container will be returned in the same format.	
AddressClassification	/AddressValidationResponse/AddressKeyFormat/AddressClassification	No	One	Container	N/A	Container returning the classification of the address, if requested	
Code	/AddressValidationResponse/AddressKeyFormat/AddressClassification/Code	Yes*	One	string	1	Contains the classification code of the address. 0 = Unknown 1 = Commercial 2 = Residential	

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Name	XPath	Required	Max Allowed	Type	Length	Description	Validation Rules
Description	/AddressValidationResponse/AddressKeyFormat/AddressClassification/Description	Yes*	One	string	1...15	Contains the text description of the address classification code. Unknown Commercial Residential	
ConsigneeName	/AddressValidationResponse/AddressKeyFormat/ConsigneeName	No	One	string	1...40	Name of business, company or person. Not returned if user selects the RegionalRequestIndicator.	
BuildingName	/AddressValidationResponse/AddressKeyFormat/BuildingName	Cond	One	string	1...40	Name of building. Not returned if user selects the RegionalRequestIndicator.	
AddressLine	/AddressValidationResponse/AddressKeyFormat/AddressLine	Cond	One	string	1...100	Address line (street number, street name and street type, and political division 1, political division 2 and postal code) used for street level information. Applicable to US and PR only. Not returned if user selects the RegionalRequestIndicator.	
Region	/AddressValidationResponse/AddressKeyFormat/Region	No	One	string	1...30	Single entry containing in this order Political Division 2, Political Division 1 and Post Code Primary Low and/or PostcodeExtendedLow.	
PoliticalDivision2	/AddressValidationResponse/AddressKeyFormat/PoliticalDivision2	Cond	One	string	1...30	City or Town.	
PoliticalDivision1	/AddressValidationResponse/AddressKeyFormat/PoliticalDivision1	Cond	One	string	1...30	State/Province. Returned if the location is within a State/Province/Territory. For International: returned if user enters valid Country Code, and City/postal code and it has a match. For Domestic addresses, the value must be a valid 2-character value (per US Mail standards).For International the full State or Province name will be returned.	
PostcodePrimaryLow	/AddressValidationResponse/AddressKeyFormat/PostcodePrimaryLow	Cond	One	string	1...10	Low-end Postal Code. Returned for countries with Postal Codes. May be alphanumeric	
PostcodeExtendedLow	/AddressValidationResponse/AddressKeyFormat/PostcodeExtendedLow	No	One	string	1...10	Low-end extended postal code in a range. Example in quotes: Postal Code 30076-'1234'. Only returned in candidate list. May be alphanumeric	
Urbanization	/AddressValidationResponse/AddressKeyFormat/Urbanization	No	One	string	1...10	Puerto Rico Political Division 3. Only Valid for Puerto Rico.	

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Name	XPath	Required	Max Allowed	Type	Length	Description	Validation Rules
CountryCode	/AddressValidationResponse/AddressKeyFormat/CountryCode	Yes	One	string	1...2	A country code. Required to be returned.	

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