Postal Service Mail.XML Technical Specification

For

Profiles and Full-Service Feedback

November 2011 Release

Version v.1.0.0

Prepared by
United States Postal Service

Copyright © 2010 USPS®. All Rights Reserved.

Table of Contents

TABLE OF CONTENTS **2**

DOCUMENT CHANGE HISTORY **9**

1. POSTAL SERVICE MAIL.XML TECHNICAL SPECIFICATION **11**

1.1 PROGRAM OVERVIEW 11
Mail.XML 8.1 Change History *11*
1.2 GENERAL XML AND WEB SERVICES INFORMATION 12
1.3 ABOUT SCHEMA MODULARIZATION 12
1.4 WHAT SCHEMAS COVER DATA DISTRIBUTION FUNCTIONALITY? 13
1.5 USPS® LIMITATION RULE ON TRANSACTION REQUESTS 13
1.6 ROADMAP OF MAIL.XML 14
1.7 PURPOSE 16
1.8 INTENDED AUDIENCE 16
1.9 ABOUT THIS DOCUMENT 17
1.10 HOW TO READ DATA STRUCTURE 17
1.11 ISSUE RESOLUTION 17
1.12 ENVIRONMENTS SUPPORTED BY USPS 18
1.13 *POSTALONE!* WSDL INFORMATION 18
1.14 MAIL.XML WORKFLOW 19
1.15 EXCEPTIONS 19

2. FULL-SERVICE DATA FEEDBACK AND PROFILE MANAGEMENT **20**

2.1.1 Full-service Data Feedback Overview *20*
2.1.1 Table 2-1: Full-service Data Exchange Options *20*
2.1.1 2.1.1 What you need to receive your data through the data exchange methods identified *21*
2.1.1 2.1.2 How do you implement/use the Mail.XML available for Full-Service Data Feedback *22*
2.1.1 2.1.3 Why Mail.XML based Data Feedback? *22*
2.1.1 2.1.4 What is Push Model/Subscription method? *23*
2.1.1 2.1.5 What is Pull Model? *24*
2.1.1 2.1.6 Message Response Retrieval Request (MRRR) Processing *25*
2.1.1 2.1.7 Full-service Data Feedback Messages Supported in 8.1 Mail.XML Specification *25*
2.1.1 2.1.8 Full-service Data Feedback Messages Supported in 10.0X Mail.XML Specification *25*
2.1.1 2.1.9 Error/ Return Codes *26*
2.1.1 Table 2-4: PostalOne! – Data Distribution – Delivery Response Return Code Values *27*
2.1.1 Table 2-5: PostalOne! Subscription Request Return Code Values *27*
2.1.1 Table 2-6: PostalOne! – Cast of Characters Response Return Code Values *28*
2.2 PROFILE MANAGEMENT OVERVIEW 34
2.2.1 Table 2-8: Profile Management Messages Supported in Mail.XML *34*
2.2.1 Table 2-9: PostalOne! – MID CRID Return Code Values *35*
2.3 FULFILLMENT OF UNASSOCIATED ACS RECORDS 36
2.4 ACS BILLING 36
2.5 DISABLING FULL SERVICE DATA FEEDBACK FOR DELINQUENT ACCOUNTS 37
2.6 GENERAL CONSIDERATIONS WHEN USING FULL-SERVICE QUERY REQUEST MESSAGES 37

3. MESSAGE CHOREOGRAPHY FOR DATA DISTRIBUTION **38**

4. DATA STRUCTURE AND BUSINESS RULES FOR MAIL.XML 8.1 SPECIFICATION **41**

4.1 DELIVERYRESPONSE 41
4.1.1 DeliveryResponse Data Structure *42*
4.2 NOTIFICATIONRESPONSE 42
4.2.1 NotificationResponse Data Structure *42*

Copyright © 2010 USPS®. All Rights Reserved.

4.3 FULLSERVICEADDRESSCORRECTIONNOTIFICATION 43
4.3.1 FullServiceAddressCorrectionNotification Data Structure 44
4.4 FULLSERVICEADDRESSCORRECTIONDELIVERY 44
4.4.1 FullServiceAddressCorrectionDelivery 46
4.5 FULLSERVICEADDRESSCORRECTIONQUERYREQUEST 47
4.5.1 FullServiceAddressCorrectionQueryRequest Data Structure 48
4.6 FULLSERVICEADDRESSCORRECTIONQUERYRESPONSE 49
4.6.1 FullServiceAddressCorrectionQueryResponse Data Structure 50
4.7 FULLSERVICECONTAINERVISIBILITYNOTIFICATION 51
4.7.1 FullServiceContainerVisibilityNotification Data Structure 51
4.8 FULLSERVICECONTAINERVISIBILITYDELIVERY 52
4.8.1 FullServiceContainerVisibilityDelivery Data Structure 53
4.9 FULLSERVICECONTAINERVISIBILITYQUERYREQUEST 54
4.9.1 FullServiceContainerVisibilityQueryRequest Data Structure 55
4.10 FULLSERVICECONTAINERVISIBILITYQUERYRESPONSE 56
4.10.1 FullServiceContainerVisibilityQueryResponse Data Structure 57
4.11 FULLSERVICEDATAQUALITYVERIFICATIONREPORTNOTIFICATION 58
4.11.1 FullServiceDataQualityVerificationReportNotification Data Structure 58
4.12 FULLSERVICEDATAQUALITYVERIFICATIONREPORTDELIVERY 59
4.12.1 FullServiceDataQualityVerificationReportDelivery Data Structure 60
4.13 FULLSERVICEDATAQUALITYVERIFICATIONREPORTQUERYREQUEST 62
4.13.1 FullServiceDataQualityVerificationReportQueryRequest Data Structure 62
4.14 FULLSERVICEDATAQUALITYVERIFICATIONREPORTQUERYRESPONSE 63
4.14.1 FullServiceDataQualityVerificationReportQueryResponse Data Structure 63
4.15 FULLSERVICENIXIEDETAILNOTIFICATION 65
4.15.1 FullServiceNixieDetailNotification Data Structure 66
4.16 FULLSERVICENIXIEDETAILDELIVERY 67
4.16.1 FullServiceNixieDetailDelivery Data Structure 69
4.17 FULLSERVICENIXIEDETAILQUERYREQUEST 70
4.17.1 FullServiceNixieDetailQueryRequest Data Structure 70
4.18 FULLSERVICENIXIEDETAILQUERYRESPONSE 72
4.18.1 FullServiceNixieDetailQueryResponse Data Structure 73
4.19 FULLSERVICESTARTTHECLOCKNOTIFICATION 74
4.19.1 FullServiceStartTheClockNotification Data Stucture 74
4.20 FULLSERVICESTARTTHECLOCKDELIVERY 75
4.20.1 FullServiceStartTheClockDelivery Data Structure 76
4.21 FULLSERVICESTARTTHECLOCKQUERYREQUEST 77
4.21.1 FullServiceStartTheClockQueryRequest Data Structure 77
4.22 FULLSERVICESTARTTHECLOCKQUERYRESPONSE 79
4.22.1 FullServiceStartTheClockQueryResponse Data Structure 79

5. APPENDIX A – MAIL.XML 8.1 COMPLEX AND ATTRIBUTE GROUPS DEFINITIONS 81

5.1 COMPLEX TYPE: ADDRESSTYPE 81
5.2 COMPLEX TYPE: ADDRESSCORRECTIONADDRESSTYPE 81
5.3 COMPLEX: BYFORCONFLICTTYPE 83
5.4 ATTRIBUTE: CASTOFCHARACTERRESPONSEHEADERINFO 83
5.5 COMPLEX TYPE: CONTAINERVISIBILITYENTRY 84
5.6 COMPLEX TYPE: CLOCKSTARTED 84
5.7 COMPLEX TYPE: COFCCREATEREJECTTYPE 86
5.8 COMPLEX TYPE: CONTAINERGROUPTYPE 87
5.9 COMPLEX TYPE: CRIDENTRYTYPE 88
5.10 COMPLEX TYPE: DATARECIPIENT 88
5.11 COMPLEX TYPE: FSDQRCONTAINERINFOTYPE 88
5.12 COMPLEX TYPE: FULLSERVICENIXIEDETAIL 90
5.13 COMPLEX TYPE: GPSCOORDINATES 91
5.14 COMPLEX TYPE: GROUPCONTAINERIDTYPE 92

Copyright © 2010 USPS®. All Rights Reserved.

5.15 COMPLEX TYPE: INTELLIGENTMAILBARCODETYPE 92
5.16 ATTRIBUTE GROUP: LARGETRANSACTIONDIVIDERGROUPTYPE 93
5.17 ATTRIBUTE GROUP: LARGETRANSACTIONDIVIDERGROUPOPTIONALTYPE 93
5.18 COMPLEX TYPE: LEGALAKNOWLEDGMENTBLOCKMIDTYPE 93
5.19 COMPLEX TYPE: MAILDATCONTAINERIDTYPE 95
5.20 COMPLEX TYPE: MAILPIECEGROUPTYPE 95
5.21 COMPLEX TYPE: MAILPIECEGROUPCREATETYPE 95
5.22 COMPLEX TYPE: MAILPIECEIDTYPE 96
5.23 COMPLEX TYPE: MAILXMLCONTAINERIDTYPE 96
5.24 ATTRIBUTE: MAILXMLHEADERINFO 97
5.25 COMPLEX: MIDENTRYTYPE 97
5.26 COMPLEX: MIDTYPE 97
5.27 COMPLEX TYPE: PERMITPUBLICATIONDATATYPE 97
5.28 COMPLEX TYPE: RETURNINFO 98
5.29 COMPLEX TYPE: SUBMITTINGPARTY, PARTICIPANTIDTYPE 98
5.30 COMPLEX TYPE: SUBMITTINGSOFTWARE 98
5.31 COMPLEX TYPE: VERIFICATIONERRORTYPE 99

6. MAIL.XML 8.1 SIMPLE TYPES DATA STRUCTURES 100

6.1 SIMPLETYPE: ACTIONCODETYPE 100
6.2 SIMPLETYPE: ADDRESSCORRECTIONMOVETYPE 100
6.3 SIMPLETYPE: ADDITIONALINHOMERANGETYPE 100
6.4 SIMPLETYPE: ADJUSTMENTSTATUSTYPE 100
6.5 SIMPLETYPE: ADJUSTMENTTYPE 101
6.6 SIMPLETYPE: AGENCYCOSTCODETYPE 101
6.7 SIMPLETYPE: APPTMETHODTYPE 101
6.8 SIMPLETYPE: APPTSTATETYPE 101
6.9 SIMPLETYPE: APPTSTATUSTYPE 101
6.10 SIMPLETYPE: APPTTYPETYPE 102
6.11 SIMPLETYPE: BARCODERATETYPE 102
6.12 SIMPLETYPE: BILLREASONCODETYPE 102
6.13 SIMPLETYPE: BUNDLEDETAILLEVELTYPE 102
6.14 SIMPLETYPE: BUNDLELEVELTYPE 103
6.15 SIMPLETYPE: BUNDLERECORDSTATUSTYPE 103
6.16 SIMPLETYPE: BUNDLESTATUSTYPE 103
6.17 SIMPLETYPE: CANADAADMAILONLYTYPE 103
6.18 SIMPLETYPE: CHARGEABLEBUNDLELEVELTYPE 103
6.19 SIMPLETYPE: CHARGEABLECONTAINERTYPE 104
6.20 SIMPLETYPE: CHARGEABLECONTAINERLEVELTYPE 104
6.21 SIMPLETYPE: CHARGEABLEENTRYLEVELTYPE 104
6.22 SIMPLETYPE: CLASSNOTIFICATIONTYPE 104
6.23 SIMPLETYPE: CLOSEOUTIRREGULARITIESTYPE 104
6.24 SIMPLETYPE: COMMUNICATIONROLETYPE 105
6.25 SIMPLETYPE: COMPONENTIDTYPE 105
6.26 SIMPLETYPE: COMPONENTWEIGHTTYPE 105
6.27 SIMPLETYPE: COMPONENTWEIGHTSOURCETYPE 106
6.28 SIMPLETYPE: COMPONENTWEIGHTSTATUSTYPE 106
6.29 SIMPLETYPE: CONSIGNEECONTENTIDTYPE 106
6.30 SIMPLETYPE: CONTAINERBUNDLESTATUSTYPE 106
6.31 SIMPLETYPE: CONTAINER24CHARACTERBARCODETYPE 106
6.32 SIMPLETYPE: IMTBTYPE 106
6.33 SIMPLETYPE: IMPBTYPE 106
6.34 SIMPLETYPE: CONTAINERACCEPTANCEDATETYPE 107
6.35 SIMPLETYPE: CCCLEVELTYPE 107
6.36 SIMPLETYPE: CONTAINERGROUPINGDESCRIPTIONTYPE 107
6.37 SIMPLETYPE: CONTAINERGROSSWEIGHTTYPE 107
6.38 SIMPLETYPE: CONTAINERHEIGHTTYPE 107

Copyright © 2010 USPS®. All Rights Reserved.

6.39 SIMPLETYPE: CONTAINERLEVELTYPE 107
6.40 SIMPLETYPE: CONTAINERPICKUPDATETYPE 109
6.41 SIMPLETYPE: CONTAINERPICKUPTIMETYPE 110
6.42 SIMPLETYPE: CONTAINERSHIPDATETYPE 110
6.43 SIMPLETYPE: CONTAINERSHIPTIMETYPE 110
6.44 SIMPLETYPE: CONTACTTYPE 110
6.45 SIMPLETYPE: CONTAINERTYPE 110
6.46 SIMPLETYPE: CONTAINERSTATUSTYPE 110
6.47 SIMPLETYPE: CONTAINERHEIGHTSOURCETYPE 111
6.48 SIMPLETYPE: CPTPERIODICALADPERCENTAGETYPE 111
6.49 SIMPLETYPE: CPTPERIODICALADPERCENTAGEBASISTYPE 111
6.50 SIMPLETYPE: CPTPERIODICALADPERCENTAGEBASISTYPE 111
6.51 SIMPLETYPE: CQTDATABASEIDTYPE 111
6.52 SIMPLETYPE: CREDITDEBITINDICATOR 111
6.53 SIMPLETYPE: CRIDTYPE 111
6.54 SIMPLETYPE: CRIDSTATUSTYPE 112
6.55 SIMPLETYPE: CSATEMPLATETYPE 112
6.56 SIMPLETYPE: CSASTATUSTYPE 112
6.57 SIMPLETYPE: DATABASECONTAINERIDTYPE 112
6.58 SIMPLETYPE: DAYFREQUENCYTYPE 112
6.59 SIMPLETYPE: DAYSOFWEEKTYPE 113
6.60 SIMPLETYPE: DAYSTYPE 113
6.61 SIMPLETYPE: DEC03-2 113
6.62 SIMPLETYPE: DEC04-3 113
6.63 SIMPLETYPE: DEC18-6 113
6.64 SIMPLETYPE: DEC10-4 114
6.65 SIMPLETYPE: DEC18-8 114
6.66 SIMPLETYPE: DELIVERABILITYCODETYPE 114
6.67 SIMPLETYPE: ELECTRONICFILETYPE 114
6.68 SIMPLETYPE: EMAILTYPE 114
6.69 SIMPLETYPE: EMD8125ASNBARCODETYPE 114
6.70 SIMPLETYPE: ENCLOSEDBYTYPE 114
6.71 SIMPLETYPE: ENTRYDISCOUNTTYPE 115
6.72 SIMPLETYPE: ENTRYFACILITYTYPE 115
6.73 SIMPLETYPE: ENTRYPOINTEDPOSTALCODETYPE 115
6.74 SIMPLETYPE: ENTRYPOINTEDFACILITYTYPETYPE 115
6.75 SIMPLETYPE: ENTRYPOINTADLOCALEKEYTYPE 115
6.76 SIMPLETYPE: ENTRYPOINTADPOSTALCODETYPE 115
6.77 SIMPLETYPE: ES2 115
6.78 SIMPLETYPE: ES3 116
6.79 SIMPLETYPE: ES4 116
6.80 SIMPLETYPE: ES5 116
6.81 SIMPLETYPE: ES31 116
6.82 SIMPLETYPE: EXEMPTIONCODETYPE 116
6.83 SIMPLETYPE: FASTCONTENTIDTYPE 116
6.84 SIMPLETYPE: FASTSCHEDULERIDTYPE 117
6.85 SIMPLETYPE: FEENOTIFICATIONTYPE 117
6.86 SIMPLETYPE: FLATRATEINDICATORTYPE 117
6.87 SIMPLETYPE: FORMTYPE 117
6.88 SIMPLETYPE: FULLSERVICECOMPLIANCEINDICATORTYPE 117
6.89 SIMPLETYPE: FSPITYPE 118
6.90 SIMPLETYPE: GPSSYSTEMTYPE 118
6.91 SIMPLETYPE: IDTYPE 118
6.92 SIMPLETYPE: IMCBTYPE 118
6.93 SIMPLETYPE: IMBTYPE 118
6.94 SIMPLETYPE: IMBARCODEIDTYPE 118
6.95 SIMPLETYPE: IMBSERIALNUMBER6TYPE 118

Copyright © 2010 USPS®. All Rights Reserved.

6.96 SIMPLETYPE: IMBSERIALNUMBER9TYPE 119
6.97 SIMPLETYPE: IMBUPPERSERIALIZATIONTYPE 119
6.98 SIMPLETYPE: IMBLOWERSERIALIZATIONTYPE 119
6.99 SIMPLETYPE: INCLUDEDINOTHERDOCTYPE 119
6.100 SIMPLETYPE: INTERNALDATETYPE 119
6.101 SIMPLETYPE: INOUTCOUNTYINDICATORTYPE 119
6.102 SIMPLETYPE: INCOUNTYOUTCOUNTYINDICATORTYPE 119
6.103 SIMPLETYPE: INT04 119
6.104 SIMPLETYPE: JOBIDTYPE 120
6.105 SIMPLETYPE: LOCALEKEYTYPE 120
6.106 SIMPLETYPE: INDUCTIONSTATUSTYPE 120
6.107 SIMPLETYPE: LOGICALPHYSICALBUNDLEINDICATORTYPE 120
6.108 SIMPLETYPE: LOGICALPHYSICALCONTAINERINDICATORTYPE 120
6.109 SIMPLETYPE: MAILAGREEMENTTYPETYPE 120
6.110 SIMPLETYPE: MAILCLASSTYPE 120
6.111 SIMPLETYPE: MAILDATCONTAINERSTATUSTYPE 121
6.112 SIMPLETYPE: MAILDATRECORDSTATUS 121
6.113 SIMPLETYPE: MAILERID6TYPE 121
6.114 SIMPLETYPE: MAILERID9TYPE 121
6.115 SIMPLETYPE: MAILISSUETYPE 121
6.116 SIMPLETYPE: MAILXMLCONTAINERTYPE 121
6.117 SIMPLETYPE: MAILXMLPRESENTATIONCATEGORYTYPE 122
6.118 SIMPLETYPE: MAILXMLSTATUSTYPE 122
6.119 SIMPLETYPE: MIDSTATUSTYPE 122
6.120 SIMPLETYPE: METEREDAFFIXEDMETHODTYPE 123
6.121 SIMPLETYPE: MONTHTYPE 123
6.122 SIMPLETYPE: MOVEUPDATEMETHODTYPE 123
6.123 SIMPLETYPE: MOVEUPDATETYPE 123
6.124 SIMPLETYPE: MPUIDTYPE 123
6.125 SIMPLETYPE: NS02 123
6.126 SIMPLETYPE: NS03 124
6.127 SIMPLETYPE: NS04 124
6.128 SIMPLETYPE: NS05 124
6.129 SIMPLETYPE: NS06 124
6.130 SIMPLETYPE: NS08 124
6.131 SIMPLETYPE: NS09 124
6.132 SIMPLETYPE: NS10 124
6.133 SIMPLETYPE: NS11 124
6.134 SIMPLETYPE: NS13 125
6.135 SIMPLETYPE: NS22 125
6.136 SIMPLETYPE: N01 125
6.137 SIMPLETYPE: N02 125
6.138 SIMPLETYPE: N03 125
6.139 SIMPLETYPE: N04 125
6.140 SIMPLETYPE: N05 125
6.141 SIMPLETYPE: N06 125
6.142 SIMPLETYPE: NEWADDRESSTYPE 126
6.143 SIMPLETYPE: ADDRESSTYPE 126
6.144 SIMPLETYPE: ONEPASSPLANNEDORACTUALFLAGTYPE 126
6.145 SIMPLETYPE: PACKAGEIDTYPE 126
6.146 SIMPLETYPE: PACKAGESERVICESTYPE 126
6.147 SIMPLETYPE: PACKAGINGMETHODTYPE 126
6.148 SIMPLETYPE: PALLETHANDLINGUNITTYPE 127
6.149 SIMPLETYPE: PALLETTYPE 127
6.150 SIMPLETYPE: PARENTCONTAINERREFIDTYPE 127
6.151 SIMPLETYPE: PERCENTAGETYPE 127
6.152 SIMPLETYPE: PERIODICALPRICETYPE 127

Copyright © 2010 USPS®. All Rights Reserved.

6.153 SIMPLETYPE: PERIODICALSTATEMENTTYPE 128
6.154 SIMPLETYPE: PERMITTYPETYPE 128
6.155 SIMPLETYPE: PHONENUMBERTYPE 128
6.156 SIMPLETYPE: PICKUPORDELIVERYTYPE 128
6.157 SIMPLETYPE: PLANETCODETYPE 128
6.158 SIMPLETYPE: POSTAGEGROUPINGIDTYPE 129
6.159 SIMPLETYPE: POSTAGEPAYMENTMETHODTYPE 129
6.160 SIMPLETYPE: POSTAGESTATEMENTLINENUMBER1TYPE 129
6.161 SIMPLETYPE: POSTAGESTATEMENTLINENUMBER2TYPE 129
6.162 SIMPLETYPE: POSTAGESTATEMENTLINENUMBER3TYPE 130
6.163 SIMPLETYPE: POSTAGESTATEMENTSTATETYPE 130
6.164 SIMPLETYPE: POSTAGESTATEMENTSTATUSTYPE 130
6.165 SIMPLETYPE: PRICETYPE 131
6.166 SIMPLETYPE: PRIMARYSECONDARYINDICATORTYPE 131
6.167 SIMPLETYPE: PROCESSINGCATEGORYTYPE 131
6.168 SIMPLETYPE: PROCESSINGCODETYPE 131
6.169 SIMPLETYPE: PVDSCONTAINERTYPE 132
6.170 SIMPLETYPE: PVDSCONTAINERSUBTYPE 132
6.171 SIMPLETYPE: QUALIFICATIONREPORTCLASSTYPE 132
6.172 SIMPLETYPE: RATECATEGORYTYPE 132
6.173 SIMPLETYPE: RATELEVELTYPE 133
6.174 SIMPLETYPE: RATELEVELINDICATORTYPE 134
6.175 SIMPLETYPE: RATETYPE 134
6.176 SIMPLETYPE: REASONCODETYPE 135
6.177 SIMPLETYPE: RECIPIENTTYPE 135
6.178 SIMPLETYPE: RECURRINGSTATUSTYPE 135
6.179 SIMPLETYPE: RESERVATIONNUMBERTYPE 135
6.180 SIMPLETYPE: ROLETYPE 135
6.181 SIMPLETYPE: RESPONSIBLETRANSPORTATIONPARTYTYPE 136
6.182 SIMPLETYPE: ROUTINGZIPCODETYPE 136
6.183 SIMPLETYPE: S01 136
6.184 SIMPLETYPE: S02 137
6.185 SIMPLETYPE: S03 137
6.186 SIMPLETYPE: S04 137
6.187 SIMPLETYPE: S05 137
6.188 SIMPLETYPE: S06 137
6.189 SIMPLETYPE: S07 137
6.190 SIMPLETYPE: S08 138
6.191 SIMPLETYPE: S09 138
6.192 SIMPLETYPE: S10 138
6.193 SIMPLETYPE: S11 138
6.194 SIMPLETYPE: S12 138
6.195 SIMPLETYPE: S15 138
6.196 SIMPLETYPE: S16 139
6.197 SIMPLETYPE: S18 139
6.198 SIMPLETYPE: S20 139
6.199 SIMPLETYPE: S22 139
6.200 SIMPLETYPE: S25 139
6.201 SIMPLETYPE: S28 139
6.202 SIMPLETYPE: S30 140
6.203 SIMPLETYPE: S31 140
6.204 SIMPLETYPE: S37 140
6.205 SIMPLETYPE: S40 140
6.206 SIMPLETYPE: S45 140
6.207 SIMPLETYPE: S50 140
6.208 SIMPLETYPE: S60 141
6.209 SIMPLETYPE: S64 141

Copyright © 2010 USPS®. All Rights Reserved.

6.210 SIMPLETYPE: S66 141
6.211 SIMPLETYPE: S72 141
6.212 SIMPLETYPE: S80 141
6.213 SIMPLETYPE: S255 141
6.214 SIMPLETYPE: S256 142
6.215 SIMPLETYPE: S260 142
6.216 SIMPLETYPE: SACKINGBASISTYPE 142
6.217 SIMPLETYPE: SCHEDULEDINDUCTIONDATETYPE 142
6.218 SIMPLETYPE: SCHEDULEDINDUCTIONTIMETYPE 142
6.219 SIMPLETYPE: SEGMENTIDTYPE 142
6.220 SIMPLETYPE: SERVICELEVELINDICATORTYPE 142
6.221 SIMPLETYPE: SERVICECODETYPE 143
6.222 SIMPLETYPE: SERVICETYPECODETYPE 143
6.223 SIMPLETYPE: SORTATIONLEVELTYPE 143
6.224 SIMPLETYPE: SERVICESUBCODETYPE 144
6.225 SIMPLETYPE: STATECODE 144
6.226 SIMPLETYPE: STATUSTYPE 145
6.227 SIMPLETYPE: STOPDESIGNATORTYPE 146
6.228 SIMPLETYPE: SURCHARGETYPE 146
6.229 SIMPLETYPE: TOTALWEIGHTTYPE 146
6.230 SIMPLETYPE: TRAILERLENGTHTYPE 146
6.231 SIMPLETYPE: TRANSPORTATIONMETHODTYPE 146
6.232 SIMPLETYPE: TRANSSHIPBOLNUMBERTYPE 146
6.233 SIMPLETYPE: TRAYTYPE 147
6.234 SIMPLETYPE: TRUCKDISPATCHNUMBERTYPE 147
6.235 SIMPLETYPE: UNITLOADTYPE 147
6.236 SIMPLETYPE: UNLOADSTATETYPE 147
6.237 SIMPLETYPE: UOMTYPE 147
6.238 SIMPLETYPE: UNIQUECONTAINERIDTYPE 149
6.239 SIMPLETYPE: USERINFORMATIONLINE1TYPE 149
6.240 SIMPLETYPE: USERINFORMATIONLINE2TYPE 149
6.241 SIMPLETYPE: USERLICENSECODETYPE 149
6.242 SIMPLETYPE: USPSPICKUPTYPE 149
6.243 SIMPLETYPE: VERIFICATIONLOCATIONTYPE 150
6.244 SIMPLETYPE: VERIFICATIONREPORTTYPE 150
6.245 SIMPLETYPE: WASTEDPIECEINDICATORTYPE 150
6.246 SIMPLETYPE: WEEKFREQUENCYTYPE 150
6.247 SIMPLETYPE: WEIGHTBREAKTYPE 151
6.248 SIMPLETYPE: YESNO 151
6.249 SIMPLETYPE: ZIPCODETHREEORFIVEDIGIT 151
6.250 SIMPLETYPE: ZONEICTYPE 151
6.251 SIMPLETYPE: ONEPASSORTWOPASSTYPE 152

7. APPENDIX C - WSDLS AND XSDS 153

8. INDEX 156

Copyright © 2010 USPS®. All Rights Reserved.

Document Change History

These are the changes from RIBBS Version 9.3.8 (Aug 9, 2011) for release 29 (Jan 8) to RIBBS Version 9.3.8 (Aug 9, 2011).

These changes are being implemented to contribute to the goal of breaking down and editing the Postal Service Mail.XML technical specifications by Mail.XML supported versions to facilitate editing and enhance readability and navigation throughout the document.
In addition, to easier navigation, some sections such as the appendixes have been reorganized.

Previously the technical specifications were just divided by function (eDoc, Data Distribution, FAST). In that scheme, all supported Mail.XML for each release were all combined in one technical specification per function release. i.e. For Release 28 (November 2011) the Mail.XML eDoc technical specification included the supported Mail.XML versions 9.0B, 9.0C and 10.0C, as while the FAST technical specification containing Mail.XML 8.0B and 10.0 versions.
This approach resulted sometimes in bulky document that became difficult to edit, manage or read as with documents mounting up to sometimes 1000 pages.

With the new editing process, the technical guides are edited focusing on the Mail.XML supported version per function.
For instance, the FAST guide supporting Mail.XML 8.0B and 10.0 versions will have two different sub-Technical specifications for Release 29 (January 2012).

Each technical specification will also group all Mail.XML version and their respective supported errata versions.
For instance, 9.0B and 9.0C supported in eDoc technical specification for Release 28 are combined in one document since they are errata for Mail.XML 9.0. However if Mail.XML 8.0B and 8.1 were supported, they would have been in two different documents since they are not of the same Mail.XML version.
By convention, Mail.XML version name containing a letter, such as 7.0C, 9.0B, 10.0A are considered errata.
In contrast, Mail.XML 8.0 and 8.1 are considered two different versions.

Date	Section #	Title	Description
9/09/2011	4.0	Data Structure and Business Rules for Mail.XML 8.1 Specification	Removed USPSMIDCreateRequest, USPSMIDCreateResponse,USPSCRIDCreateRequest, USPSCRIDCreateResponse as these messages are being transferred to a MID CRID technical specification.
9/01/2011		Change History	Added a new column “Date” to the table of Change History to record the dates of implemented changes.
8/31/2011	5.0	Appendix A	Added new headers to the tables of Complex and Attribute Data Types Data Structure for Mail.XML 8.1
8/31/2011	5.0	Appendix A	Added new headers to the tables of Complex and Attribute Data Types Data Structure for Mail.XML 8.1
8/31/2011	5.0,6.0,7.0	Appendix A, B, C	Reorganized the appendixes order
8/24/2011		Footer	Updated the footer to include USPS® – Postal Service Mail.XML 8.1Technical Specification Version 1.0

Copyright © 2010 USPS®. All Rights Reserved.

Date	Section #	Title	Description
8/24/2011	All		Extracted Mail.XML Technical Specification from the previous Data Distribution Technical Specification submitted on RIBBS on August 9, 2011

Copyright © 2010 USPS®. All Rights Reserved.

1. Postal Service Mail.XML Technical Specification

1.1 Program Overview

The *PostalOne!*® system is an electronic suite of services being developed for business mailers by the United States Postal Service® to improve the mailing process. The system takes advantage of the advances in technology and leverages them to continuously improve and simplify the mailing experience. Customers can electronically send detailed information to PostalOne! system using the mailing industry's standardized Mail.XML™ format. Mail.XML is an XML-based IDEAlliance® specification for web services. Web services use simple HTTP(s) protocols to communicate data over the Internet, bypassing technology-specific restrictions and avoiding network-related security rules. See the IDEAlliance Mail.XML specifications at http://www.idealliance.org

All business functions supported by the USPS as part of the Mail.XML implementation are based on SOA (Services Oriented Architecture). This architecture enables a mailer's software to manage the data transactions to query, create, update, and cancel various data sets representing business functions and subscription model. Additionally, mailers' software is able to receive synchronous and asynchronous transactions through Web Services protocol from the USPS in support of the just-in-time communication architecture.

The Postal Service's implementation of Mail.XML is a complements Mail.dat. Mailers using Mail.dat can continue to use it as a database, but can use Mail.XML for communication and automation of business to business processing. Mail.XML allows business function-specific communication and faster change management processes with little to no impact to other service providers. For example, you can add optional fields or new messages without requiring software in the mailing supply chain to change.

Mail.XML allows the support of electronic documentation and end-to-end mailing supply chain business process management for a multitude of business processes, including qualification reports, container and bundle reports, spoilage, eInduction, containerization nesting, postage statements, postage adjustments, postage status query information, piece detail, piece ranging, and many other business process related communications. Mail.XML also provides the ability to electronically access USPS full-service data and to perform business functions related to full-service. Mail.XML supports copalletization, mixed mailing, manifest mailing, and business processes specific to MLOCR and continuous mailing environments.

One fundamental difference between the Mail.dat files and Mail.XML messages is the information content. For example, for qualification reports and postage statements Mail.dat calculates from the raw data in several Mail.dat files, the copies and pieces at each price level in the qualification report and the postage statements. This sometimes leads to round-off differences as compared to qualification reports and postage statements calculated by the mailer using the same Mail.dat file. In Mail.XML, the mailer provides the numbers of copies and pieces for each price level directly and there are less round-off errors.

The *Postal Service Mail.XML Technical Specification*, is documented by subject matter into the following volumes:

Postal Service Mail.XML Technical Specification for Postage Payment & Reporting (eDoc)
Postal Service Mail.XML Technical Specification for Appointment Scheduling (FAST)
Postal Service Mail.XML Technical Specification for Profiles & Full-Service Feedback

This document focuses solely on the data distribution message functionalities for full-service data.

Mail.XML 8.1 Change History

The Postal Service has made numerous changes In Mail.XML Version 8.1 to fix technical errors in previous Mail.XML versions. In addition, unused simple/complex types were removed, and new values were added to

Copyright © 2010 USPS®. All Rights Reserved.

align the Mail.XML with the Mail.dat functionalities. The USPS system will continue to support all messages supported in previous Mail.XML versions pertaining to Profiles and full-service feedback functionalities.

1.2 General XML and Web Services Information

XML
XML stands for eXtensible Markup Language and it is designed to transport and store data. For general information on XML, please visit http://www.w3schools.com/xml/default.asp
XSD
An XSD is the XML Schema that describes the structure of an XML document. For general information on XSD, please visit http://www.w3schools.com/Schema/default.asp

Web Service
A Web Service is a feature that converts your software into internet-based software and publishes its functions/message to the users of the internet. For general information on Web Services, please visit:
http://www.w3schools.com/webservices/default.asp
http://www.w3schools.com/wsdl/default.asp
http://www.w3schools.com/soap/default.asp

1.3 About Schema Modularization

From Mail.XML 9.X and onward publications, Mail.XML messages will be grouped into six sets:

Transportation Messages
Mailing Messages
Data Distribution Messages
Identification Messages
Supply Chain Messages
System Messages

The underlying schemas have been modularized to reflect these distinct message sets. Additionally, three "shared" or "common" schemas have been developed and they are:

One stores simple Mail.XML Mailing Message Specification type definitions that can be shared across message sets.

A second common module is made up of common elements and complex types that are shared across two or more message sets.

The final common module is made up of system messages and the attributes, elements and complex types that are *unique* to these messages.

Mail.XML schema modules are designed to stand alone, separated by business functions, enabling those interested in one or more message sets to develop and validate just those message sets without the requirement to address the entire Mail.XML specification. Each module will validate by itself or in combination with all other message sets when the entire Mail.XML Specification is considered. In addition, each module will be versioned separately.

Version numbers are contained within the namespace designation. Modules will be documented individually as well.

The following Mail.XML XSD modules/namespaces have been developed:

mailxml_tm.xsd: This module contains all the transportation (or FAST) messages with their attributes, elements and complex types that are *unique* to these messages. ***Namespace=mailxml_tm***

mailxml_mm.xsd: This module contains all the mailing messages (eDoc) with their attributes, elements and complex types that are *unique* to these messages. ***Namespace=mailxml_mm***

Copyright © 2010 USPS®. All Rights Reserved.

mailxml_dd.xsd: This module contains all the data distribution messages with their attributes, elements and complex types that are *unique* to these messages. ***Namespace=mailxml_dd***

mailxml_id.xsd: This module contains all the identification messages (CRID, MID etc.) with their attributes, elements and complex types that are *unique* to these messages. ***Namespace=mailxml_id***

mailxml_sc.xsd: This module contains all the supply chain messages (Cross-functional container based and other Mail.dat/mail.XML update functions) with their attributes, elements and complex types that are *unique* to these messages. ***Namespace=mailxml_sc***

mailxml.xsd: This module contains all the system messages with their attributes, elements and complex types that are *unique* to these messages. Note that in order for the MessageResponseRetrievalResponse to work, all the other message modules are included by the system.xsd. ***Namespace=mailxml***

mailxml_defs.xsd: This module contains all the common definitions of attributes, elements and complex types that are used across one or more message types. **Namespace=mailxml_defs**

mailxml_base.xsd: This module contains all the simple types that are used everywhere in the mailxml. These simple types are associated with every element of each message. ***Namespace=mailxml_base***

1.4 What Schemas Cover Data Distribution Functionality?

With the breakdown of XSD into multiple schemas – the Data Distribution functionality will be covered by mailxml_dd.xsd module and mailxml_id.xsd.

In addition to the above modules, mailxml_base.xsd and mailxml_defs are common/shared XSD that will be referred by each of these individual Data Distribution specific modules.

Lastly, mailxml.xsd module will be the source XSD that will connect all messages to their system level attributes. For example – MessageResponseRetrievalResponse is shared attribute/complex type associated to almost every single Mail.XML message regardless of whether it is a Data Distribution functionality or FAST or eDoc functionality. The other examples are DeliveryResponse, NotificationResponse, Fault, etc.

1.5 USPS® Limitation Rule on Transaction Requests

USPS has recently encountered unordinary high volume with specific Mail.XML transactions by FAST and Full-service Data Distribution users, which is causing a serious performance impact on several USPS servers that deal with authorization of all of the Mail.XML transactions.

The Postal Service is requiring that the USPS Mail.XML customers update their Mail.XML software to query the USPS *PostalOne!*/FAST and Data Distribution systems <u>no more than seven times per hour</u>. Similarly, USPS customers are encouraged to avoid setting up their web services pull software to query the *PostalOne!* servers <u>no more than 200 times in a given 24-hour period</u> for their eDoc, FAST, or Full-service related data queries. This change is required for all customers. It will greatly assist in avoiding performance issues that can hinder quality of service; users still have many opportunities to query necessary postal data within this limitation. Likewise, in order to improve overall experience for all customers it is absolutely necessary that customers program their software to query the USPS systems for different transactions at different times, i.e., configure some queries to occur at odd times, e.g., FAST queries to occur at odd times while eDoc and Data distribution to occur at even times.

Copyright © 2010 USPS®. All Rights Reserved.

1.6 Roadmap of Mail.XML

The table below shows the roadmap of the Mail.XML versions - starting from currently supported versions to versions that will be supported in January and June 2012 for Data Distribution.

Data Distribution Functionality	January 2011 Release 26.0.0	June 2011 Release 27.0.0	January 2012 Release 28.0
	Mail.XML 6.0D * Mail.XML 7.0C * Mail.XML 8.0B Mail.XML 8.1	Mai.XML 8.0B * Mail.XML 8.1 Mail.XML 10.0 **	Mail.XML 11.0**

The version(s) flagged with single asterisk (*) are planned for de-commissioning on October 28, 2011.
The version(s) flagged with double asterisk (**) are new version(s) which are planned for implementation with the release date.

The table below lists all Mail.XML Profiles and Full-Service Data Feedback related messages by version. The versions listed below are 8.1 (supported today), 10.0 A (shall be supported in June 2011)

Table 1-1: Profiles and Full-service Data Feedback Messages List By Mail.XML Versions

Note: Full Service Messages such as FullServiceAddressCorrectionQuery Request or FullServiceContainerVisibilityQueryResponse have been modified in Mail.XML 11.0 by dropping the prefix “FullService” in order for these messages to support both Full and Non-Full services data structures.

FullServiceStartTheClockDelivery

FullServiceStartTheClockNotification

FullServiceStartTheClockQueryRequest

FullServiceStartTheClockQueryResponse

These FullServiceStartTheClock are being removed from the scope of Mail.XML 11.0 because there exist already a similar set of StartTheClock messages except without the prefixes “FullService”. These messages are being removed to avoid redundancy.

Message Name	Supported in Mail.XML 10.0 A	Supported in Mail.XML 8.1
ByForConflictDelivery	X	
ByForConflictNotification	X	
ByForConflictQueryRequest	X	
ByForConflictQueryResponse	X	
CastofCharactersCancelRequest		
CastofCharactersCancelResponse		
CastofCharactersCreateRequest		
CastofCharactersCreateResponse		

Copyright © 2010 USPS®. All Rights Reserved.

Message Name	Supported in Mail.XML 10.0 A	Supported in Mail.XML 8.1
CastofCharactersUpdateRequest		
CastofCharactersUpdateResponse		
DeliveryResponse	X	X
FullServiceAddressCorrectionDelivery	X	X
FullServiceAddressCorrectionNotification	X	X
FullServiceAddressCorrectionQueryRequest	X	X
FullServiceAddressCorrectionQueryResponse	X	X
FullServiceContainerVisibilityDelivery	X	X
FullServiceContainerVisibilityNotification	X	X
FullServiceContainerVisibilityQueryRequest	X	X
FullServiceContainerVisibilityQueryResponse	X	X
FullServiceDataQualityVerificationQueryReport Request	X	X
FullServiceDataQualityVerificationQueryReport Response	X	X
FullServiceDataQualityVerificationReportDelivery	X	X
FullServiceDataQualityVerificationReport Notification	X	X
FullServiceNonComplianceDataWithOwedPostageNotification	X	
FullServiceNonComplianceDataWithOwedPostageDelivery	X	
FullServiceNonComplianceDataWithOwedPostageQueryRequest	X	
FullServiceNonComplianceDataWithOwedPostageQueryResponse	X	
FullServiceNixieDetailDelivery	X	X
FullServiceNixieDetailNotification	X	X
FullServiceNixieDetailQueryRequest	X	X
FullServiceNixieDetailQueryResponse	X	X
~~FullServiceStartTheClockDelivery~~	X	X
~~FullServiceStartTheClockNotification~~	X	X
~~FullServiceStartTheClockQueryRequest~~	X	X
~~FullServiceStartTheClockQueryResponse~~	X	X
AddressCorrectionDelivery		
AddressCorrectionNotification		
AddressCorrectionQueryRequest		
AddressCorrectionQueryResponse		
ContainerVisibilityDelivery		
ContainerVisibilityNotification		
ContainerVisibilityQueryRequest		
ContainerVisibilityQueryResponse		
DataQualityVerificationQueryReport Request		
DataQualityVerificationQueryReport Response		
DataQualityVerificationReportDelivery		
DataQualityVerificationReport Notification		
NonComplianceDataWithOwedPostageNotification		

Copyright © 2010 USPS®. All Rights Reserved.

Message Name	Supported in Mail.XML 10.0 A	Supported in Mail.XML 8.1
NonComplianceDataWithOwedPostageDelivery		
NonComplianceDataWithOwedPostageQueryRequest		
NonComplianceDataWithOwedPostageQueryResponse		
FullServiceNixieDetailDelivery		
FullServiceNixieDetailNotification		
FullServiceNixieDetailQueryRequest		
FullServiceNixieDetailQueryResponse		
StartTheClockDelivery	**X**	
StartTheClockNotification	**X**	
StartTheClockQueryRequest	**X**	
StartTheClockQueryResponse	**X**	
NotificationResponse	**X**	**X**
MessageResponseRetrievalRequest	**X**	**X**
MessageResponseRetrievalResponse	**X**	**X**

Differences between 8.1, and 10.0 messages:

.

No new messages has been added or deleted in Mail.XML 8.1 version from Mail.XML 8.0B and Mail.XML 7.0C

Four new messages FullServiceNonComplianceDataWithOwedPostageQueryRequest/Response/Notification/Delivery have been added for support in Mail.XML 10.0 A.

1.7 Purpose

The purpose of this Technical Specification is to supplement the IDEAlliance Mail.XML specification and to provide the Mail.XML users with specific information regarding the USPS implementation. This document serves as the collection of all specific rules, standards, accepted values, error messages, etc. regarding the USPS implementation of the Mail.XML specification. The content in this document is subject to change as IDEAlliance updates the Mail.XML Specification. This technical specification includes the return codes, error codes and their descriptions, as well the WSDLs links for the January 2011 USPS Mail.XML implementation. This specification also lists all of the return codes, error code with their description for each of message supported in Mail.XML 8.1, and Mail.XML 10.0 A.

1.8 Intended Audience

The intended audience for this specification is technical programmers and technical managers. Prior knowledge of XML language, Mail.XML and Mail.dat functionalities will greatly improve the understanding of this document. The majority of the codes used in the Mail.XML base XSD come from the Mail.dat specification, the USPS recommends reading the *Postal Service Mail.dat Technical Specification* to understand the meaning of the flags used by IDEAlliance in Mail.XML. The code descriptions for simple types that are coming from the Mail.dat specification have been added as part of the simple type table for added benefit to the reader.

Copyright © 2010 USPS®. All Rights Reserved.

1.9 About This Document

In the messages data structure table – complex types have been referenced. To properly implement the Mail.XML messages – USPS recommends the customer to study the complex types provided in the Appendix C and D of this specification to fully understand the structure of the Full-Service Data Distribution messages. The same functionality now supports FAST push messages for stale contents to the content providers, content updated by content providers data to Schedulers, and Closeout data, The FAST messages are not necessarily tied to Full-service. So from June 2011, you can subscribe to the StalecontentDelivery, StaleContentNotification, ContentUpdatedNotification, ContentUpdatedDelivery, CloseoutDelivery and CloseoutNotification messages.

Also in the messages data structure – simple types have been referenced under the acceptable values column. USPS recommends that the customer to study the simple types to fully understand the cryptic meaning of the code that are being used in the simple types. For example – "Mail Class" simple type allow values 1, 2, 3, 4 whereas the translation of these codes are 'First-Class Mail', 'Periodicals', 'Standard Mail', and 'Package Services' respectively. The USPS also recommends reading the *Postal Service Mail.dat Technical Specification* document located on RIBBS®.

In the data structure tables, some field names may contain spaces for readability purposes because the names of those fields are lengthy. In Mail.XML, spaces are not allowed in the element names. For example: "SubmittingParty" is the element name but in the data table it may have been written as Submitting Party". If you are using this document to code your software then use the latest version of Mail.XML XSD located on RIBBS® to fully understand the name of the element, structure of every block and message to minimize the impact of incorrect coding.

1.10 How to Read Data Structure

There are three possibilities for every element listed in the data structure table of each message. These possibilities are REQUIRED, OPTIONAL, and CONDITIONALLY REQUIRED. The Required option means that mailer/preparer or sender of the message must provide data for the element. Whereas Optional option means the sender of the message has a choice to include the data or omit it from submission. The third option of Conditionally Required means that if certain condition is met then the sender of the message must provide data for that particular element; for example - EntryPointEDPostalCode is conditionally required if EntryPointEDFacilityType is populated in the ContainerUpdateRequest message.

In addition to the above options, there are instances where the main block is marked as REQUIRED but the elements within the block are OPTIONAL or Vice Versa. This means that sender of the message must include the block when sending the message but can omit all elements within the block. A good example is 'SubmittingParty' block, which is a REQUIRED block, but all elements within this block are OPTIONAL.

1.11 Issue Resolution

All issues identified in the USPS software that may not correspond with the business rules identified in this specification and that require workarounds are listed in the critical issues list on the RIBBS Intelligent Mail site under Latest News. For example – In some cases the work around for Full-Service ACS data is to receive the data through OneCode ACS method instead of Full-Service method. In other cases for postage statements too big in size, the work-around is to divide the statements in multiple statements. The current Critical Issues list of the *PostalOne!* system is found at Intelligent Mail on the Latest News tab at:

http://ribbs.usps.gov/intelligentmail_latestnews/documents/tech_guides/PostalOneCriticalIssueExtCustomers.pdf

Copyright © 2010 USPS®. All Rights Reserved.

1.12 Environments supported by USPS

The USPS supports a test and production environment.

Testing Environment for Mailers (TEM): This environment is used for software approval processes for all mailers prior to moving into the production environment. Mailers must work with the *PostalOne!* Help Desk to start the approval process for their software, and must be approved in the TEM environment, prior to sending Mail.XML data transactions in the Production environment. The TEM environment for Mail.XML basic testing capabilities is available as of November 2009 and will be available for all future releases. For more information regarding TEM, see the *Test Environment for Mailers: Checklist and Troubleshooting Guide*

Production Environment: This Production environment will be used by all customers approved by USPS to start sending messages and transactions. These customers will be approved as a result of performing required tests in the TEM environment.

1.13 *PostalOne!* WSDL Information

All web services transactions that are made with the USPS should comply with the WSDL specification, which are posted on RIBBS® and can be downloaded from the following location:
http://ribbs.usps.gov/intelligentmail_guides/documents/tech_guides/xmlspec/wsdls/wsdls.htm

A web services request must include a valid and active USPS User ID and Password as defined in the UserAuthenticationInfo.xsd file that is provided as part of the WSDL files. A typical web service message construct defined is as follows:

```
<wsdl:message name="DeliveryApptContentUpdateRequest">
        <wsdl:part name="authInfo" element="auth:AuthenticationInfo"/>
        <wsdl:part name="apptContentUpdate" element="tns:apptContentUpdate"/>
</wsdl:message>
```

With the following

String-typed WSDL:

```
        <wsdl:message name="StartTheClockQueryRequest">
                <wsdl:part element="auth:AuthenticationInfo" name="authInfo"/>
                <wsdl:part element="tns:startTheClockQuery" name="startTheClockQuery"/>
        </wsdl:message>
```

XSD-typed WSDL:

```
        <wsdl:message name="FullServiceStartTheClockQueryRequest">
                <wsdl:part element="uspsmxml:FullServiceStartTheClockQueryRequest"
                name="FullServiceStartTheClockQueryRequest"/>
        </wsdl:message>
```

USPS will validate and authenticate the user information before processing the request. An error message will be returned in response to the web service request for invalid user information.

Types of WSDLS

There are two types of WSDLs, the String-Type WSDL and Message-Type WSDL. The following is basic information on each of the WSDL types to help customers understand what are the advantages and disadvantages of consuming String versus Message Type WSDLs.

Copyright © 2010 USPS®. All Rights Reserved.

The USPS is no longer supporting the string type as of the Mail.XML 9.0X implementation. Currently, the USPS only accepts Message-Type WSDLs.

Consuming String-Type WSDLs:

The string-type is a more generalized method, in which a customer needs to manually register each message type and register all services in their environment to later use for invoking the remote service. This is a manual process and cannot be automated easily. This is the major disadvantage of using this method. The advantage is that one string type WSDL can be used for any version of Mail.XML but is required to be manually registered in the code. The USPS no longer supports string-type WSDLs as of Mail.XML 9.0X implementation. The USPS only accepts Message-Type WSDLs.

Consuming Message-Type WSDLs:

The message-type WSDL eliminates the need to manually register each service and message type. With this method, a customer can use an automated tool to setup their environment without manually registering each service. However, this approach requires updates to WSDLs every time a new Mail.XML version is released. In other words, it is tightly coupled with the Mail.XML Specification Version. The USPS is transitioning to this type of Message WSDLs to remove manual editing and registering of messages. USPS will stop supporting string-type WSDLs after a future Mail.XML 9.0 release. It is recommended that all users plan to move to the message-type WSDLs.

Customer must use message-type URLs to consume these services. These URLs are provided in Appendix A.

1.14 Mail.XML Workflow

Full-service Feedback Messages Workflow
There are two ways a user receives Full-Service Feedback data, a) the Push Delivery and b) the Pull methods. All messages that end with a word 'Notification' or 'Delivery' are part of Push Delivery method and all messages that end with a word 'Request' or 'Response' are part of Pull method. To start receiving the data via Push Delivery method the user must subscribe to Push Delivery service via USPS – Business Customer Gateway accessible through the web at: *https://gateway.usps.com/bcg/login.htm*. The details on how to subscribe to Push Delivery and more description on the Pull and Pull method – refer to section 2.1.1 of this document.

Profile Management messages Workflow

All messages in the Profile Management families follow the Pull method where a user sends a request and expects to receive either data or an error/return code.

Messages, including CRID or MID creation messages, do not need to be requested or sent in any particular order.

1.15 Exceptions

The following is the list of exceptions identified by USPS.

Table 1-2: Mail.XML exceptions identified by USPS

Mail.XML Version	Exception Description
ALL	The customer should not zero pad their MID and CRID IDs
Mail.XML 8.0B	Address Correction messages in 8.0B contains Foreign address flag, however the foreign address data is not supported in Release 3 (March 2010) of Full-service.

Copyright © 2010 USPS®. All Rights Reserved.

2. Full-Service Data Feedback and Profile Management

2.1.1 Full-service Data Feedback Overview

The Full-Service program will utilize the *PostalOne!* system to provide Start-the-Clock, Container Visibility, Confirm (Full-Service only), Address Correction Data, Nixie Detail data, and Full-service Data Quality reports to the customers identified as recipients of full-service feedback.

There are number of ways by which all of the Full-service data feedback messages will be exchanged through the *PostalOne!* System as described below:

2.1.1 Table 2-1: Full-service Data Exchange Options

FTP – File Transfer Protocol	Options for Data Exchange					
	No	**Data/ Service**	**Browser-based HTTPS Download (Compressed Files)**	**Browser-based Report (over HTTPS)**	**Mail.XML Pull (Customer Invokes USPS Web Service)**	**Mail.XML Push (USPS Invokes Customer Web Service)**
	1	Start-the-Clock	Yes	Yes	Yes	Yes
	2	Container Visibility/Scan	Yes	Yes	Yes	Yes
	3	ACS COA	Yes	No	Yes	Yes
	4	ACS Nixie Detail	Yes	No	Yes	Yes
	5	Full-service eDoc Data Quality Verification	No	Yes (Microstrategy Reports)	Yes	Yes
	6	Full-service noncompliance postage	No	Yes (Microstrategy Reports)	Yes	Yes

otocol method. FTP support is phasing out to meet USPS Security standards for secured, guaranteed solutions. Any USPS services that currently provide data through the FTP protocol to its customers will provide ample time and communication to the USPS customers and collaborate with the customers to help with transition before transitioning to the non-FTP protocol data communication methods.

Browser-based HTTPS (Hyper Text Transport Protocol - Secure) Download (Compressed Files) – Online web page allowing customers to download ‘compressed data’ over HTTPS protocol in a CSV or Excel format.

Browser-based HTTPS Reports – Online web page allowing customers to view ‘reports’ over HTTPS.

Mail.XML Pull (Customer Invokes USPS Web Service) -Web Services Pull model where a customer sends a Web Services-based Mail.XML Request message invoking USPS Web Services to pull data in XML format through a Mail.XML Web Service method.

On the response provided, it would include TrackingID as part of ‘LargeTransactionDividerResult’. Whenever a mailer application sees this element, they need to send

Copyright © 2010 USPS®. All Rights Reserved.

MessageResponseRetrievalRequest (using the correct Mail.XML version XSD) and use the TrackingID provided to get the response.

For example, if a mailer sends 'FullServiceNixieDetailQueryRequest' and the *PostalOne!* system has to send a large result set as a response (1000 messages broken down into 200 messages per transaction). The *PostalOne!* system will return a response with the first 200 messages and include five TrackingIDs as part of the 'LargeTransactionDividerResult'.

Mailer can send TrackingID request and get the remaining data. Additionally, the element 'LargeTransactionDividerGroupType' can give more information on what is included on each transmission.

Refer to Section 2.1.5 for more information.

Mail.XML Push (USPS Invokes Customer Web Service)-Web Services Mail.XML Push model where the USPS invokes a customer's Web Service method/URL and pushes XML data to the customer's web service when the data is available or a notification is sent to the customer by the USPS that customer's data is available for download. Refer to Section 2.1.4 for more information.

In support of Full-service feedback messages that larger are in size, the Mail.XML specification has an element 'LargeTransactionDividerResult' to support such transactions. The *PostalOne!* system will divide the large result set into smaller chunks.

2.1.1 2.1.1 What you need to receive your data through the data exchange methods identified

Step 1
The customers must be registered *PostalOne!* users and must registered Business Customer Gateway users with a valid username and password. For information on the Business Customer Gateway, refer to the *User Access to Electronic Mailing Information and Reports Guide,* Volume 1 from RIBBS at

http://ribbs.usps.gov/intelligentmail_guides/documents/tech_guides/user_access/user_access.htm

Visit the *Business Customer Gateway* home page at https://gateway.usps.com to begin participating in Mail.XML and to obtain access to *the PostalOne!* system. If you have questions, call the *PostalOne!* systems Help Desk at (800) 522-9085.

Once you are a registered user and have the ability to access the *PostalOne!* system you will have access to the browser-based HTTPS reports and data download options as well, you will have the ability to perform electronic data exchange with the *PostalOne!* system through approved methods.

Step 2
The customers interested in automated electronic data exchange currently have four options available to them for receiving electronic data from the USPS for full-service mailings.

- Browser-based HTTPS Download (Compressed Files) - The first available data exchange option is secure browser-based **compressed file download**. No other information for full-service will be available through browser-based download method, other than Address Correction and Nixie Detail data.
- Browser-based HTTPS Reports - The second option available to customers is viewable browser-based reports. The only data that is currently available through browser-based reports is Start-The-Clock and Container Visibility data.
- Mail.XML Pull (Customer Invokes USPS Web Services) – The Mail.XML is an IDEAlliance specification and does not require any IDEAlliance fee to use/implement the specification. The latest version of Mail.XML 10.0 is available at the http://www.mailxml.org site. Customers can

Copyright © 2010 USPS®. All Rights Reserved.

pull their information whenever they desire, using Request and Response methods for StartTheClock, Container Scans, ACS, and Nixie data.

- Mail.XML Push (USPS Invokes the Customer's Web Services) – USPS provides online push subscription pages as well as web services methods so that the customer can register with the *PostalOne!* system as a subscriber of detail data (Delivery messages) or as a subscriber of notifications (Notification messages) that tell the customer, when data is ready to be pulled. The customer can register to receive automatically, either a) the detail data, or b) the notifications as they pertain to StartTheClock, Container Scans, Full-service ACS COA, and Full-service ACS Nixie data.

The Mail.XML specification is a USPS/industry agreed to strategic and future communication method for data exchange. It is bi-directional, near real time and can convert large data transactions into smaller transactions while providing guaranteed delivery, verification and near real time conflict resolution capabilities. The sender and receiver can validate the data, verify guaranteed delivery and actually converse intelligently both ways to report any issues with data transfer or with business issues found within the data.

2.1.1 2.1.2 How do you implement/use the Mail.XML available for Full-Service Data Feedback

The user should download the XSD, the data dictionary and support documents from the following link.
http://www.mailxml.org.

Check for the versions supported by the USPS at
http://ribbs.usps.gov/intelligentmail_guides/documents/tech_guides/xmlspec/wsdls/wsdls.htm under Intelligent Mail Services -> Guides links.

2.1.1 2.1.3 Why Mail.XML based Data Feedback?

Mail.XML version 6.0D was created to enhance efficiency and ease of transmission for the small and large data volume communications. The message sets were designed with an attribute that allows all large data volume messages to be broken up in as many unique child transactions as the USPS and the industry feel will be supported by the existing network infrastructure. In other words, a 10 MB file can be broken up in ten 1MB transactions or twenty 500KB in size transactions except for Address Correction and Nixie messages where the messages will be broken between 450-600KB. The Mail.XML allows for verification and thorough validation of the data, right away, in near real time. More importantly, with Mail.XML, your software can respond back to the *PostalOne!* system right away to let the USPS know if you successfully received all the data or not. You can also let the USPS know, right away, if the data sent by the USPS to you had problems, the data was bad or incomplete or did not belong to you, etc., so automatic conflict resolution triggers can result in immediate action by the USPS. Mail.XML 7.0C expands the same capabilities to other data types. Mail.XML 8.0B adds more validation by introducing changes to simple types and Mail.XML 8.1 further streamlines the XSD structure to fix the previously identified exceptions such as making the SubmittingParty and other elements as optional in all data distribution messages. Starting from Mail.XML 9.X versions and onward – modularization of XSD has been introduced which will streamline the process of implementing the code.

Other important thing for your business is that unlike Mail.dat, there are almost no wait times for you to file your postage, qualification, and container and bundle reports with the USPS since you are filing final documents.

Prerequisite:

All customers who want to receive Full-Service data feedback must be registered *Business Customer Gateway* users. The customer must have gone through the *Gateway* approval and activation process for this business function and must establish push subscription profiles in the

Copyright © 2010 USPS®. All Rights Reserved.

Push Subscription user interface to provide data distribution guidance for their data. The data distribution authorization is driven by the data provided in the eDocumentation to the *PostalOne!* system about the By/For relationship. The MID profiles if setup by the customer, take precedence on authorization rules over the eDoc data.

The Full-Service data is provided electronically to the USPS customers in two ways. One method is through manual download of data in CSV (Comma Separated Values) and Microsoft Excel application formats available through Business Customer Gateway online pages. Second method is of an automated data exchange, using IDEAlliance Mail.XML specification and web services technology. With Mail.XML method, the customer can periodically query USPS *PostalOne!* system for their information or can subscribe for their data and receive it automatically from the USPS *PostalOne!* server to their (customer's) server. Mail.XML based data exchange requires that the customer buy software that is capable of exchanging information with the USPS through SOAP protocol or that the customer code (programs) the software with Mail.XML capabilities.

Customers can login through Business Customer Gateway, go to Full-Service reports link to search for specific ACS and StartTheClock data for their mailings, and download the data in a CSV or Excel format.

Note: The Data Quality reports are available through manual download format, online reports, and through Mail.XML format, however we do not encourage manual download of this detail data because the data would only make sense once merged/linked with the mailing eDoc data in customer's systems.

Customers also have the ability to conduct all Full-Service data exchange electronically and automatically through IDEAlliance Mail.XML web services implementation by the USPS.

2.1.1 2.1.4 What is Push Model/Subscription method?

If you want to automatically receive the data as soon as it is ready (Push model), you must have registered your Web Services URL, implemented a WSDL for push (Delivery and Notification) Mail.XML messages, and implemented Authentication and Authorization to authenticate and authorize transactions sent by the *PostalOne!* system to your server. You also must have installed a signed SSL certificate from VeriSign or Comodo on your server, which is setup to receive push transactions form the USPS. You will also be asked to provide your IP address, server's physical address and other pertinent information to the Help Desk in the TEM Full-service Data Feedback using Push Messages – Customer Identification Form that can be downloaded from RIBBS at

http://ribbs.usps.gov/intelligentmail_guides/documents/tech_guides/xmlspec/xmlspec.htm

With the Mail.XML Push or subscription method, the USPS customers can login to the USPS Business Customer Gateway and under Full-service subscription link can provide a user id, password, and a URL that the *PostalOne!* system can use to connect and send data to the customer's server.

On the Business Customer Gateway, the USPS customer can schedule how often they want to receive their Full-Service data. They have the choice to get the data every 6, 12, or 24 hours.

The WSDLs and XSDs available at the end of this document MUST be used to ensure conformity and standardization of data exchange between the *PostalOne!* system and customers. Within the Gateway system, a user interface allows you to provide the information and indicate which messages you want to receive as a Push model. You must have also checked the type of data you want to receive as a Push. All push messages **end** in the word "Delivery" or in the word "Notification." Messages that **start** with the word "Delivery" are usually specific to the FAST system.

Copyright © 2010 USPS®. All Rights Reserved.

The messages that end with the word "Delivery" mean that the message has all the detail data and the customer is receiving the data because the customer registered with the USPS *PostalOne!* system to receive the detail data as it becomes available.

The messages that end with the word "Notification" mean that the message will notify the customer that the "data is ready" to be pulled through Pull Mail.XML mechanism or another approved method. Notification messages will not have detail data. The customer will have the option to choose the push messages that they want the *PostalOne!* system to use and send the data to the customer. e.g., a customer may decide to use Pull messages for ACS, but may decide to receive continuous feeds of data for StartTheClock "Delivery" message or Nixie "Delivery" message and may choose to receive the notifications through the Notification messages.

Getting Ready for Push Data Distribution Checklist

The details about 'How to Subscribe to Mail.XML Push Messages' is outlined in the *Refer to the 'Test Environment for Mailers (TEM) Checklist and Troubleshooting* document on RIBBS. In this section – high-level steps are provided for an overall understanding of the workflow:

Enable SSL communication with USPS® TEM and Production environment. *Refer to the 'Test Environment for Mailers (TEM) Checklist and Troubleshooting* document.

Customer must acquire signed certificate to enable SSL (secure socket layer) communication with USPS®, which allows secure data exchange between USPS® and customers server on port 443.

Through Business Customer Gateway – access the Push Subscription Profile user interface and setup Subscription profile

During Subscription profile setup – user has two options i.e. Subscribe to Notification and Subscribe to Delivery. Customer can subscribe to one push type.

Customer must determine during the subscription setup process, on how frequent they would like to receive the notification or delivery

Customer must provide their servers web service URL, User Name, and Password. This will allow USPS® *PostalOne!* system to connect to customer's server and start pushing the notification or deliver the message.

Customer must setup their Web Service to access USPS® TEM and USPS® Production environment and provide the Web Service URL during the subscription process.

Download and implement USPS® provided WSDLs. *See WSDL Information below for more details*

2.1.1 2.1.5 What is Pull Model?

If a customer wants to get the data based upon their own needs and wants to pull the data from the *PostalOne!* system, they will not need to host their own Web Services URL. They will need the software that can send a message request to the *PostalOne!* system for any available data and the *PostalOne!* system will respond back with the data. The customer will need to be approved and activated by the USPS to be able to use this software in production.

With the Mail.XML Pull method, the USPS customers can have their software query the USPS *PostalOne!* System for their ACS, Start-the-Clock, and Data Quality reporting data. The Query filters include job id information and other mail owner or appointment information as applicable for the type of data being pulled. There are Query Request and Response messages where the Query request

Copyright © 2010 USPS®. All Rights Reserved.

is done by the USPS customer's software and the USPS responds back with the Query Response message with the data.

2.1.1 2.1.6 Message Response Retrieval Request (MRRR) Processing

Fault and Fault Recovery Messages
This series of messages is primarily used to support the Asynchronous communication when the response from the USPS may not be within a 7 seconds period and the USPS gives out a tracking ID to the customer. The customer then uses the Tracking ID to get his message response back using the MRRR message set that includes:

- Message Response Retrieval Request
- Message Response Retrieval Response

Customer will have the ability to retrieve the responses of all of the messages documented in this specifications using TrackingID in the MRRR messages. Tracking IDs become stale after 24 hours.

2.1.1 2.1.7 Full-service Data Feedback Messages Supported in 8.1 Mail.XML Specification

The Mail.XML 8.1 will continue to support the same set of Mail.XML messages that are part of the Mail.XML 8.0B and Mail.XML 7.0C. Therefore, refer section 2.1.6 above to learn about the supported messages list for the Mail.XML 8.1 version.

Below is the summary of the changes in the Mail.XML 8.1 speciation:

1) Allow the following fields/elements to be annullable in the FullServiceAddressCorrectionQueryRequest, FullServiceAddressCorrectionQueryResponse, FullServiceNixieDetailQueryRequest, FullServiceNixieDetailQueryResponse, FullServiceNixieDetailDelivery, and FullServiceAddressCorrectionDelivery messages

Submitting Party
Submitting Software
Job ID
User License Code
Mailing Group ID
Customer Group ID

2) Add the following fields/elements to FullServiceAddressCorrectionQueryResponse, FullServiceNixieDetailQueryResponse, FullServiceNixieDetailDeliveryand FullServiceAddressCorrectionDelivery messages:

Bill Reason Code
Free Charge Flag

3) Support for Foreign Addresses in FullServiceAddressCorrectionQueryResponse and FullServiceAddressCorrectionDelivery messages:

2.1.1 2.1.8 Full-service Data Feedback Messages Supported in 10.0X Mail.XML Specification

The Mail.XML 10.0 A will continue to support all of the message that are being supported in previous versions except that in this version four new messages

Copyright © 2010 USPS®. All Rights Reserved.

FullServiceNonComplianceDataWithOwedPostageQueryRequest/Response/Notification/Delivery have been added for support in Mail.XML 10.0 A.

2.1.1 2.1.9 Error/ Return Codes

Faults, such as a message timeout or invalid XML are to be communicated using the <fault element and returned within the detail section of the SOAP fault. The fault is made up of a tracking ID and one or more fault codes and optional fault descriptions. Note all of the Error/Return Codes listed below are supported in versions of the Mail.XML

Below is the list of fault codes that are applicable to all Mail.XML messages, they are sent whenever a fault occurs in the transmission of the message.

Table 2-3: Fault Codes

Code	Description	Messages
402	Not Well Formed XML	Fault (All Mail.XML Messages)
403	Validation Failure – {specific error message thrown by parser}	Fault (All Mail.XML Messages)
412	Unauthorized – Required SubmittingParty	Fault (All Mail.XML Messages)
412	Unauthorized – User does not have access to specified SubmittingParty	Fault (All Mail.XML Messages)
412	Unauthorized – User does not have access to “Manage Mailing Activity” service	Fault (All Mail.XML Messages)
412	Unauthorized - Invalid user ID	Fault (All Mail.XML Messages)
412	Unauthorized - Invalid user password	Fault (All Mail.XML Messages)
412	Unauthorized - Account disabled	Fault (All Mail.XML Messages)
412	Unauthorized - Maximum password retries reached	Fault (All Mail.XML Messages)
412	Unauthorized - Profile not found	Fault (All Mail.XML Messages)
440	Sorry - Mail.XML version is not supported	Fault (All Mail.XML Messages)
500	Generic Internal Responder Error	Fault (All Mail.XML Messages)
500	Your request has been accepted for processing by USPS. Use the attached Tracking ID with a MessageResponseRetrievalRequest message to get the status of your request.	Fault (All Mail.XML Messages)
500	Generic Internal Responder Error (Authentication Service Failed)	Fault (All Mail.XML Messages)
503	Not Implemented - Mail.XML message received is not supported (MessageName)	Fault (All Mail.XML Messages)

Below is the list of the codes to be returned by the Customer to the *PostalOne!* system in the Delivery Response message to indicate the success or the failure of the delivery messages to the Customer’s web services end point

Copyright © 2010 USPS®. All Rights Reserved.

2.1.1 Table 2-4: PostalOne! – Data Distribution – Delivery Response Return Code Values

Code	Description	Messages
5800	Successful Push Delivery Receipt	DeliveryResponse NotificationResponse
5801	Push Authentication failed: Invalid Username	DeliveryResponse NotificationResponse
5802	Push Authentication failed: Incorrect Password	DeliveryResponse NotificationResponse
5803	Push Account Disabled	DeliveryResponse NotificationResponse
5804	Push Delivery Processing Failed	DeliveryResponse NotificationResponse

Below is the list of the return codes that the *PostalOne!* system will communicate to the customer in response to the Push Subscription request message to indicate the success or the failure of the subscription request

2.1.1 Table 2-5*: PostalOne!* Subscription Request Return Code Values

Code	Description	Messages
5805	Push Subscription Error: Invalid CRID.	ProfileResponse
5806	Push Subscription Error: Invalid message type.	ProfileResponse
5807	Push Subscription Error: Invalid Push type.	ProfileResponse
5808	Push Subscription Error: Invalid user ID and/or password.	ProfileResponse
5809	The web service URL format is invalid.	ProfileResponse
5810	Push Subscription Error: Push Start date is invalid.	ProfileResponse
5811	Push Subscription Error: Invalid frequency.	ProfileResponse
5812	Push Subscription created successfully.	ProfileResponse
5813	Push Subscription updated successfully.	ProfileResponse
5814	Push Subscription cancelled successfully.	ProfileResponse
5815	Push Subscription Error: Database error occurred, subscription not saved/updated.	ProfileResponse
5816	Push Subscription Error: Database error occurred, subscription already exists.	ProfileResponse
5817	Push Subscription Error:	ProfileResponse

Copyright © 2010 USPS®. All Rights Reserved.

Code	Description	Messages
	Database error occurred, subscription does not exist.	
5900	No records found for the given search criteria	FullServiceAddressCorrectionQueryResponse FullServiceContainerVisibilityQueryResponse FullServiceDataQualityVerificationReportQueryResponse FullServiceNixieDetailQueryResponse FullServiceStartTheClockQueryResponse ByForConflictQueryResponse
5901	Full-service data feedback has been deactivated to one or more Mail Owner CRIDS	FullAddressCorrectionQueryResonse FullAddressNixieDetailQueryResponse
5902	Please limit the date range in the search criteria to one week	FullAddressCorrectionQueryResonse FullAddressNixieDetailQueryResponse FullServiceStartTheClockQueryResponse
5903	Either Mailer ID6 or Mailer ID9 is required to use lower/upper IMB ranges in search criteria	FullAddressCorrectionQueryResonse FullAddressNixieDetailQueryResponse
1500	Invalid Tracking ID	FullServiceAddressCorrectionQueryResponse FullServiceContainerVisibilityQueryResponse FullServiceDataQualityVerificationReportQueryResponse FullServiceNixieDetailQueryResponse FullServiceStartTheClockQueryResponse ByForConflictQueryResponse
1502	Come Back Later	FullServiceAddressCorrectionQueryResponse FullServiceContainerVisibilityQueryResponse FullServiceDataQualityVerificationReportQueryResponse FullServiceNixieDetailQueryResponse FullServiceStartTheClockQueryResponse ByForConflictQueryResponse

Below is the list of the return codes that the *PostalOne!* system will communicate to the customer in response to the Cast of Characters Create, Cast of Characters Update, or Cast of Characters Cancel message to indicate the failure of a request message:

2.1.1 Table 2-6*: PostalOne!* – Cast of Characters Response Return Code Values

Code	Description	Message
6000	Success	CastofCharactersCreateResponse, CastofCharactersCancelResponse CastofCharactersUpdateResponse
6001	Invalid Mailer ID	CastofCharactersCreateResponse, CastofCharactersCancelResponse CastofCharactersUpdateResponse
6002	Missing Required Field	CastofCharactersCreateResponse, CastofCharactersCancelResponse CastofCharactersUpdateResponse
6003	Invalid Participant ID	CastofCharactersCreateResponse, CastofCharactersCancelResponse

Copyright © 2010 USPS®. All Rights Reserved.

Code	Description	Message
		CastofCharactersUpdateResponse
6004	Invalid Submitting CRID ID	CastofCharactersCreateResponse, CastofCharactersCancelResponse CastofCharactersUpdateResponse
6005	For Future Use	
6006	Submitting Software Version is not supported	CastofCharactersCreateResponse, CastofCharactersCancelResponse CastofCharactersUpdateResponse
6007	Unknown Error	CastofCharactersCreateResponse, CastofCharactersCancelResponse CastofCharactersUpdateResponse
6008	Mail XML version is not supported	CastofCharactersCreateResponse, CastofCharactersCancelResponse CastofCharactersUpdateResponse
6009	Mailing Piece Group Range does not exist	CastofCharactersCreateResponse, CastofCharactersCancelResponse CastofCharactersUpdateResponse
6010	For Future Use	
6011	Cannot update record, original record does not exist	CastofCharactersCancelResponse
6012	Cannot cancel record, original record does not exist	CastofCharactersCancelResponse
6013	XML Not well formed	CastofCharactersCreateResponse, CastofCharactersCancelResponse CastofCharactersUpdateResponse
6014	Data distribution profile has not been established by the mailer	CastofCharactersCreateResponse
6015	Invalid Mailing Piece Group Range which overlaps with an existing profile	CastofCharactersUpdateResponse
6016	Cannot update record, mailpiece group has not been defined previously	CastofCharactersUpdateResponse
6017	Cannot perform request, mailer is blocked	CastofCharactersCreateResponse, CastofCharactersCancelResponse CastofCharactersUpdateResponse
6018	Invalid Mailer ID in IMb	CastofCharactersCreateResponse, CastofCharactersCancelResponse CastofCharactersUpdateResponse
6019	Invalid Mailer ID in Piece Range	CastofCharactersCreateResponse, CastofCharactersCancelResponse CastofCharactersUpdateResponse
6020	Invalid Submitting Mailer ID	CastofCharactersCreateResponse, CastofCharactersCancelResponse CastofCharactersUpdateResponse
6021	Invalid Participant Mailer ID	CastofCharactersCreateResponse, CastofCharactersCancelResponse CastofCharactersUpdateResponse
6022	Inactive Mailer ID in IMb	CastofCharactersCreateResponse,

Copyright © 2010 USPS®. All Rights Reserved.

Code	Description	Message
		CastofCharactersCancelResponse CastofCharactersUpdateResponse

Below is the list of return codes that the *PostalOne!* System will communicate to the customer in response to Data Distribution Messages:

Table 2-7: PostalOne! – Mail Quality Verification Response Return Code Value

ERROR CODE	REPORT TYPE	FUNCTIONAL DESCRIPTION
7106	By/For Verification	The Mail Preparer was not identified for the physical piece due to an invalid Mailer ID(.mpa)
7107	By/For Verification	The Mail Preparer was not identified for the physical piece due to an invalid CRID(.mpa)
7108	By/For Verification	The Mail Preparer was not identified for the physical piece due to an invalid Mailer ID(QualReport)
7109	By/For Verification	The Mail Preparer was not identified for the physical piece due to an invalid CRID(QualReport)
7110	By/For Verification	The Mail Preparer was not identified for the physical piece due to no Mail Preparer identifiers in the eDoc
7111	By/For Verification	The Mail Owner was not identified for the physical piece due to an invalid Mailer ID(.cpt)
7112	By/For Verification	The Mail Owner was not identified for the physical piece due to an invalid Mailer ID(.mpa)
7113	By/For Verification	The Mail Owner was not identified for the physical piece due to an invalid CRID(.cpt)
7114	By/For Verification	The Mail Owner was not identified for the physical piece due to an invalid CRID(.mpa)
7115	By/For Verification	The Mail Owner was not identified for the physical piece due to an invalid Mailer ID(MailPiece)
7116	By/For Verification	The Mail Owner was not identified for the physical piece due to an invalid CRID(MailPiece)
7117	By/For Verification	The Mail Owner was not identified for the physical piece due to an invalid CRID(QualReport)
7118	By/For Verification	The Mail Owner was not identified for the physical piece due to no Mail Owner identifiers in the eDoc
7119	By/For Verification	The Mail Owner was not identified for the physical piece due to invalid permit information(.mpa)
7120	By/For Verification	The Mail Owner was not identified for the physical piece due to invalid permit information(MailPiece)
7121	By/For Verification	The Mail Preparer was not identified for the physical piece due to invalid permit information(QualReport)
7122	By/For Verification	The Mail Preparer was not identified for the piece range due to invalid permit information(QualReport)

Copyright © 2010 USPS®. All Rights Reserved.

7123	By/For Verification	The Mail Owner was not identified for the physical piece due to an invalid publication number(.mpa)
7124	By/For Verification	The Mail Owner was not identified for the physical piece due to an invalid publication number(MailPiece)
7125	By/For Verification	The Mail Preparer was not identified for the physical piece due to an invalid publication number(QualReport)
7126	By/For Verification	The Mail Preparer was not identified for the piece range due to an invalid publication number(QualReport)
7127	By/For Verification	The Mail Preparer was not identified for the piece range due to an invalid Mailer ID(.imr)
7128	By/For Verification	The Mail Preparer was not identified for the piece range due to an invalid CRID(.imr)
7129	By/For Verification	The Mail Preparer was not identified for the piece range due to an invalid Mailer ID(PieceRange)
7130	By/For Verification	The Mail Preparer was not identified for the piece range due to an invalid Mailer ID(QualReport)
7131	By/For Verification	The Mail Preparer was not identified for the piece range due to an invalid CRID(PieceRange)
7132	By/For Verification	The Mail Preparer was not identified for the piece range due to an invalid CRID(QualReport)
7133	By/For Verification	The Mail Preparer was not identified for the piece range due to no Mail Preparer identifiers in the eDoc
7134	By/For Verification	The Mail Owner was not identified for the piece range due to an invalid Mailer ID(.imr)
7135	By/For Verification	The Mail Owner was not identified for the piece range due to an invalid CRID(.imr)
7136	By/For Verification	The Mail Owner was not identified for the piece range due to an invalid Mailer ID(Piece Range)
7137	By/For Verification	The Mail Owner was not identified for the piece range due to an invalid CRID(PieceRange)
7138	By/For Verification	The Mail Owner was not identified for the piece range due to an invalid CRID(QualReport)
7139	By/For Verification	The Mail Owner was not identified for the piece range due to no Mail Owner identifiers in the eDoc
7239	CSA Verification	The CSA ID was not provided in the eDoc(.seg/.csm or QualReport) for the Origin entered Container when a First Class CSA exists in FAST based on the Mail Facility ID and Processing Category
7240	CSA Verification	The CSA from the eDoc(.seg/.csm or QualReport) is invalid or a match cannot be found in FAST for the associated container record(.csm or QualReport)
7242	CSA Verification	The CSA associated to an eDoc Container record(.csm or QualReport) does not have an Active status in FAST
7243	CSA Verification	The eDoc Scheduled Ship/Induction Date(.csm or QualReport) is before the CSA Effective Date in FAST for the associated container record(.csm or QualReport)

Copyright © 2010 USPS®. All Rights Reserved.

7244	CSA Verification	The eDoc Principal Processing Category(.seg or QualReport) does not match the CSA Processing Category in FAST for the associated eDoc container record(.csm or QualReport)
7245	CSA Verification	The eDoc Container Level Code(.csm or QualReport) does not match the CSA Processing Code in FAST for the associated eDoc container record(.csm or QualReport)
7246	CSA Verification	The eDoc Container Destination ZIP(.csm or QualReport) does not match the CSA Container Destination ZIP in FAST for the associated eDoc container record(.csm or QualReport)
7247	CSA Verification	The eDoc Entry Point Locale Key(.csm or QualReport) does not match the CSA Facility Locale Key in FAST for the associated eDoc container record(.csm or QualReport)
7248	CSA Verification	The eDoc Scheduled Ship/Induction Date(.csm or QualReport) does not match the CSA Day of Week in FAST for the associated eDoc container record(.csm or QualReport)
7301	Mailer ID Verification	The Mailer ID in the IMcb from the eDoc container record (.csm or QualReport) is invalid or cannot be found for the associated container.
7302	Mailer ID Verification	The Mailer ID in the IMtb from the eDoc handling unit record (.csm or QualReport) is invalid or cannot be found for the associated container
7304	Mailer ID Verification	The Mailer ID in the IMb from the eDoc piece record (.pdr or MailPiece) is invalid or cannot be found for the associated piece
7303	Mailer ID Verification	The Mailer ID in the Piece Range Serialization from the eDoc piece range (.imr or PieceRange) is invalid or cannot be found for the associated piece range
7401	Service Type ID Verification	The Service Type Identifier in the IMb from the eDoc piece record (.pdr or MailPiece) is invalid
7402	Service Type ID Verification	The Service Type Identifier in the IMb from the eDoc piece record (.pdr or MailPiece) indicates the piece is Basic for a Full-Service Piece as part of a Full-Service or Mixed Job
7403	Service Type ID Verification	The Service Type Identifier in the IMb from the eDoc piece record (.pdr or MailPiece) indicates a Mail Class that does not match the Mail Class in the eDoc (.seq or QualReport)
7404	Service Type ID Verification	The Service Type Identifier in the IMb from the eDoc piece range record (PieceRange) is invalid
7405	Service Type ID Verification	The Service Type Identifier in the IMb from the eDoc piece range record (PieceRange) indicates the piece is Basic for a Full-Service Piece as part of a Full-Service or Mixed Job
7406	Service Type ID Verification	The Service Type Identifier in the IMb from the eDoc piece range record (PieceRange) indicates a Mail Class that does not match the Mail Class in the eDoc (QualReport)

Copyright © 2010 USPS®. All Rights Reserved.

7502	Unique Container Barcode Verification	The same Container Barcode(IMcb) from the eDoc(.csm or QualReport) was used more than once within 45 days from the Postage Statement Mailing Date, across Jobs and Mail Facility IDs
7503	Unique Container Barcode Verification	The same Container Barcode (IMcb) from the eDoc (.csm or QualReport) was used more than once within 45 days from the Postage Statement Mailing Date, within the same Job and Mail Facility ID
7504	Unique Container Barcode Verification	The same Container Barcode (IMcb) from the eDoc (.csm or QualReport) was used more than once within 45 days from the Postage Statement Mailing Date, across Jobs with the same Mail Facility ID
7605	Unique Handling Unit Barcode Verification	The same Tray Barcode(IMtb) from the eDoc(.csm or QualReport) was used more than once within 45 days from the Postage Statement Mailing Date, across Jobs and Mail Facility IDs
7603	Unique Handling Unit Barcode Verification	The same Tray Barcode (IMtb) from the eDoc (.csm or QualReport) was used more than once within 45 days from the Postage Statement Mailing Date, within the same Job and Mail Facility ID
7604	Unique Handling Unit Barcode Verification	The same Tray Barcode (IMtb) from the eDoc (.csm or QualReport) was used more than once within 45 days from the Postage Statement Mailing Date, across Jobs with the same Mail Facility ID
7703	Unique Piece Barcode Verification	The same Piece Barcode(IMb) from the eDoc(.csm or MailPiece) was used more than once within the 45 days from the Postage Statement Mailing Date, across Jobs and Mail Facility IDs
7704	Unique Piece Barcode Verification	The same Piece Barcode (IMb) from the eDoc (.pdr or MailPiece) was used more than once within 45 days from the Postage Statement Mailing Date, within the same Job and Mail Facility ID
7705	Unique Piece Barcode Verification	The same Piece Barcode (IMb) from the eDoc (.pdr or MailPiece) was used more than once within 45 days from the Postage Statement Mailing Date, across Jobs with the same Mail Facility ID
7706	Unique Piece Range Barcode Verification	The same Piece Range Serialization(IMb) from the eDoc(.imr or PieceRange) was used more than once within the 45 days from the Postage Statement Mailing Date, across Mail Facility IDs
7707	Unique Piece Range Barcode Verification	The same Piece Range Serialization(IMb) from the eDoc(.imr or PieceRange) was used more than once within 45 days from the Postage Statement Mailing Date, within the same Job and Mail Facility ID
7708	Unique Piece Range Barcode Verification	The same Piece Range Serialization(IMb) from the eDoc(.imr or PieceRange) was used more than once within 45 days from the Postage Statement Mailing Date, across Jobs with the same Mail Facility ID

Copyright © 2010 USPS®. All Rights Reserved.

7901	Delivery Point Verification	IMb does not have a valid 11, 9, or 5 digit delivery point or the 11, 9, or 5 digit delivery point was not active within allowable period of time from the postage statement mailg date
7902	Delivery Point Verification	IMb has a value of '0000' within positions 6-9 of the delivery point
7903	Delivery Point Verification	IMb has a value of '9999' within positions 6-9 of the delivery point and the address record type is not 'General Delivery'
7904	Delivery Point Verification	IMb within the range does not have a valid 11, 9, or 5 digit delivery point or the 11, 9, or 5 digit delivery point was not active within allowable period of time from the postage statement mailg date
7905	Delivery Point Verification	IMb within the range has a value of '0000' within positions 6-9 of the delivery point
7906	Delivery Point Verification	IMb within the range has a value of '9999' within positions 6-9 of the delivery point and the address record type is not 'General Delivery'
7602	Default IMtb Code Error	The eDoc tray barcode(.csm or QualReport) provided is 24 characters and consists entirely of the digit 9 (i.e. 999999999999999999999999)
7016	Entry Facility Verification	The entry facility identified by the Locale Key within the container was unknown in FDB
7017	Entry Facility Verification	The entry facility identified by the Postal Code within the container was unknown in FDB
7018	Entry Facility Verification	The entry facility identified by the Locale Key within the orphan handling unit was unknown in FDB
7019	Entry Facility Verification	The entry facility identified by the Postal Code within the orphan handling unit was unknown in FDB
7020	Service Performance Verification	The Postage Statement Finalization Date is 2 or more days after the Scheduled Ship Date for the DMU Verified, USPS Transported Physical Container
7021	Service Performance Verification	The Postage Statement Finalization Date is 2 or more days after the Scheduled Ship Date for the DMU Verified, USPS Transported Physical Handling Unit
7022	Service Performance Verification	The Orphan Handling Unit does not have an induction method of BMEU.

2.2 Profile Management Overview

As part of the Mail.XML 8.1, and Mail.XML 10.0 Web Services messages, USPS will allow mailers with the capability to manage their corporate identification. Following is the list of Mail.XML messages that are supported now and will be supported in January 2011 and onward releases.

2.2.1 Table 2-8: Profile Management Messages Supported in Mail.XML

Following messages will be supported in all version of the Mail.XML i.e. 8.1, and 10.0

Copyright © 2010 USPS®. All Rights Reserved.

Message Name	Message Description
USPSMIDCreateRequest	This message will allow Mailers to request the *PostalOne!* system to create the Mailer ID (MID).
USPSMIDCreateResponse	This is a response message that notifies the requestor whether the request for creating the MID has been accepted or rejected. If the request is accepted than the MID will be sent back to mailer in the response message
USPSCRIDCreateRequest	This message will allow mailers to request the *PostalOne!* system to create the CRID for their corporation
USPSCRIDCreateResponse	This is a response message that informs the requestor whether the request for creating the CRID has been accepted or rejected. If the request is accepted than the CRID will be sent back to the mailer in the response message

Profile Management Error/ Return Codes

Below is the list of the return codes that the *PostalOne!* system will communicate to the customer in response to the MID/CRID Create request messages to indicate the success or the failure of the request. These error/return codes are applicable to all current and future version of the Mail.XML except Mail.XML 6.0D and previous versions.

2.2.1 Table 2-9: PostalOne! – MID CRID Return Code Values

Code	Description	Messages
5000	FULLSERVICE-EDOC: REQUEST SERVED SUCCESSFULLY.	USPSCRIDCreateResponse
5001	FULLSERVICE-EDOC: Not Valid Schema.	USPSCRIDCreateResponse
5007	FULLSERVICE-EDOC: Internal System error message. Please contact *PostalOne!* Help Desk	USPSCRIDCreateResponse
5008	FULLSERVICE-EDOC: Empty Message. Please Contact *PostalOne!* Help Desk.	USPSCRIDCreateResponse
5009	FULLSERVICE-EDOC: Request is not XML Message. Please Contact *PostalOne!* Help Desk.	USPSCRIDCreateResponse
5012	FULLSERVICE-EDOC: 'LegalAcknowledgementBlock' must be specified when 'ApplyingForSelf' is 'No'.	USPSCRIDCreateResponse
5013	FULLSERVICE-EDOC: 'LegalAcknowledgementBlock > UnderstandLegalLiabilityForApplyingForSomeOneElse' must be 'Yes" when 'ApplyingForSelf' is 'No'.	USPSCRIDCreateResponse
5014	FULLSERVICE-EDOC: 'LegalAcknowledgementBlock > AcknowledgeNotifyingTheMailOwner' must be 'Yes' when 'ApplyingForSelf' is 'No'.	USPSCRIDCreateResponse
5015	FULLSERVICE-EDOC: The text in the 'USPSLegalAgreement' element does not match the text defined in the Mail.XML specification.	USPSCRIDCreateResponse
5017	FULLSERVICE-EDOC: The address provided is not a valid USPS address	USPSCRIDCreateResponse
5018	FULLSERVICE-EDOC: Multiple locations were found for the given address. Please be more specific with the address you provide so that it maps to a single location.	USPSCRIDCreateResponse
5000	FULLSERVICE-EDOC: REQUEST SERVED	USPSMIDCreateResponse

Copyright © 2010 USPS®. All Rights Reserved.

Code	Description	Messages
	SUCCESSFULLY.	
5001	FULLSERVICE-EDOC: Not Valid Schema.	USPSMIDCreateResponse
5007	FULLSERVICE-EDOC: Internal System error message. Please contact *PostalOne!* Help Desk	USPSMIDCreateResponse
5008	FULLSERVICE-EDOC: Empty Message. Please Contact *PostalOne!* Help Desk.	USPSMIDCreateResponse
5009	FULLSERVICE-EDOC: Request is not XML Message. Please Contact *PostalOne!* Help Desk.	USPSMIDCreateResponse
5012	FULLSERVICE-EDOC: 'LegalAcknowledgementBlock' must be specified when 'ApplyingForSelf' is 'No'.	USPSMIDCreateResponse
5013	FULLSERVICE-EDOC: 'LegalAcknowledgementBlock > UnderstandLegalLiabilityForApplyingForSomeOneElse' must be 'Yes" when 'ApplyingForSelf' is 'No'.	USPSMIDCreateResponse
5014	FULLSERVICE-EDOC: 'LegalAcknowledgementBlock > AcknowledgeNotifyingTheMailOwner' must be 'Yes' when 'ApplyingForSelf' is 'No'.	USPSMIDCreateResponse
5015	FULLSERVICE-EDOC: The text in the 'USPSLegalAgreement' element does not match the text defined in the Mail.XML specification.	USPSMIDCreateResponse
5016	FULLSERVICE-EDOC: The specified 'CustomerCRID' could not be found.	USPSMIDCreateResponse

2.3 Fulfillment of Unassociated ACS records

Currently, when ACS generates COA and Nixie records with a Full Service STID, these records are sent to SASP for fulfillment. SASP attempts to associate these records to electronic documentation for a period of 35 days. If the ACS records are unable to be associated within the 35-day period, SASP discards the records.

SASP sends reports for records with electronic documentation to the *PostalOne!* system. Additionally, for ACS records that are unable to be associated within the 35-day period, SASP determines the mail owner and data recipient CRID based on the MID in the IMb, determine the uniqueness of each unassociated mailpiece, and send the records to the *PostalOne!* system for fulfillment.

SASP calculates charges for unassociated and multiple notification records and sends ACS billing information. This information is used to create Mailer paper invoices. Within the *PostalOne!* system, mail owners and their delegates will be able to access the ACS records generated. The *PostalOne!* system supports Full Service ACS push/pull requests/responses, notifications, and downloads for mailers with no associated electronic documentation.

2.4 ACS Billing

Currently ACS does not bill for records that include a Full Service STID. These records are fulfilled for free through the Full Service platform.

ACS updates the mailpiece records with billing data after receiving the billing files from SASP. As per established ACS billing policies, ACS will generate monthly invoices to send to mailers when account balances are over a configurable value (currently set to $50); otherwise, invoices will be sent to mailers on March 24th or October 24th.

ACS will send a monthly file to Customer Registration containing all CRIDs to be invoiced. Customer Registration will use this information to retrieve billing contact information for the BSA of managed mailing activity based on the mail owner CRID and will send this information back to ACS in order to generate invoices.

Copyright © 2010 USPS®. All Rights Reserved.

2.5 Disabling Full Service Data Feedback for Delinquent Accounts

Currently, the only established method for disabling mailers from accessing their ACS records is to manually deactivate their MIDs in the ACS system. A mail owner that does not make a payment within 30 days of the invoice creation date will be considered a delinquent account. Implementing a new interface between SASP and the *PostalOne!* system will update a Mail Owner's delinquent account status.
ACS sends Mail Owner CRIDs for delinquent accounts to the *PostalOne!* system, which will deactivate the Mail Owner's access to Full Service ACS feedback. Accounts can be reactivated when ACS sends activation records for mail owner CRIDs after a payment has been received.

2.6 General Considerations when using Full-service Query Request messages

To allow USPS to support unassociated ACS records and to provide flexibility for customers, especially third party agents, to access and retrieve Full-service data feedback, the IDEAlliance Mail.XML 8.1 specification has been updated to make Job ID and Mailing Group ID optional in the ACS and NIXIE Full-service Pull requests. These changes are scheduled to be supported in November 2010.

With all key fields in Full-service ACS and NIXIE requests annullable in the Mail.XML 8.1 Specification, there is a chance that very huge datasets may be returned which could potentially cause some performance and timeout issues. Mailers are expected to provide one of the following fields in the Mail.XML request message (Mail.dat Job ID/User License Code or Mailing Group ID or MID on Piece) and are required to limit the date range search to one week only.

Copyright © 2010 USPS®. All Rights Reserved.

3. Message Choreography for Data Distribution

No	Message Name	Description	Customer	USPS *PostalOne!*
1	StartTheClockQueryRequest	The customer requests the Start-the-Clock data by providing appointment and job information for which Start-the-Clock data is needed. The date range of upper and lower is necessary to receive data from the USPS.	From	
2	StartTheClockQueryResponse	The USPS responds with the Start-the-Clock data for the job and provides the data for plant loaded mail in the plan loaded XML block, data for drop Shipped mail in the drop shipped XML block, and BMEU entered mail data in the BMEU XML block.		From
3	ContainerVisibilityQueryRequest	The customer can request container visibility information from the USPS by providing the job information, appointment/trip information, facility id, and container information or container barcodes.	From	
4	ContainerVisibilityQueryResponse	The USPS responds with the Container Induction detail data by providing scan dates and times as well as any conflicts with the container back to the customer.		From
5	AddressCorrectionQueryRequest	The customer can request address correction information from the USPS by providing the job information and date ranges and optional piece barcode range information.	From	
6	AddressCorrectionQueryResponse	The USPS, in response to the requests, sends all the address correction data pertinent to the request.		From
7	NixieDetailQueryRequest	The customer can request Nixie information from the USPS by providing the CRID, MID, and by providing the job information, class of mail, date ranges and optional piece barcode range information.	From	
8	NixieDetailResponse	The USPS, in response to the requests, sends all the Nixie detail data by MID and Job information back to the customer.		From
10	StartTheClockNotification	The USPS sends this notification to the customer and provides the Job information for which the Start-the-Clock data is ready		From

Copyright © 2010 USPS®. All Rights Reserved.

No	Message Name	Description	Customer	USPS *PostalOne!*
11	StartTheClockDelivery	The USPS sends this detail data delivery to the customer with all the data available in the StartTheClockQueryResponse message		From
12	ContainerVisibilityNotification	The USPS sends this notification to the customer and provides the Job information for which the ContainerVisibility data is ready		From
13	ContainerVisibilityDelivery	The USPS sends this detail data delivery to the customer with all the data available in the FullServiceContainerVisibilityQueryResponse message		From
14	AddressCorrectionNotification	The USPS sends this notification to the customer and provides the Job information for which the AddressCorrection data is ready		From
15	AddressCorrectionDelivery	The USPS sends this detail data delivery to the customer with all the data available in the FullServiceAddressCorrectionQueryResponse message		From
16	NixieDetailNotification	The USPS sends this notification to the customer and provides the Job information for which the NixieDetail data is ready		From
17	NixieDetailDelivery	The USPS sends this detail data delivery to the customer with all the data available in the FullServiceNixieDetailQueryResponse message		From
18	FullServcieNonComplianceDataWithPostageOwedQueryNotification	The USPS sends this notification to the customer providing information on data availability		From
19	FullServcieNonComplianceDataWithPostageOwedQueryDelivery	The USPS send the detail data to customer server		From
20	FullServcieNonComplianceDataWithPostageOwedQueryRequest	The USPS customer constructs the message and send it to USPS servers	From	
21	FullServcieNonComplianceDataWithPostageOwedQueryResponse	The USPS responds to the Query Request message with either data or error code through this message.		From
22	NotificationResponse	This message is used in response to all messages that end in the word 'Notification'	From	
23	DeliveryResponse	This message is used in response to all messages that end in the word 'Delivery'	From	

Copyright © 2010 USPS®. All Rights Reserved.

Copyright © 2010 USPS®. All Rights Reserved.

4. Data Structure and Business Rules for Mail.XML 8.1 Specification

The section below lists all messages supported in the Mail.XML 8.1 specification. This section spells out the business rules and data structure for each of those messages.
Changes of specifications implemented in Mail.XML 8.1 from Mail.XML 8.0B are the following:

Changed “SubmittingParty”, “SubmittingSoftware”, “UserLicenseCode”, “MaildatJobID”, “MailingGroupID”, and “CustomerGroupID” elements from REQUIRED to OPTIONAL in all Full-service Data Feedback messages. Following messages are impacted:

FullServiceAddressCorrectionQueryRequest
FullServiceAddressCorrectionQueryResponse
FullServiceAddressCorrectionDelivery
FullServiceAddressCorrectionNotification
FullServiceNixieDetailQueryRequest
FullServiceNixieDetailQueryResponse
FullServiceNixieDetailDelivery
FullServiceNixieDetailNotification
DeliveryResponse
NotificationResponse

Added two new simple types i.e. ‘billReasonCodeType’ and ‘freeChargeFlagType’ in the Mail.XML _Base file (Refer Appendix E for view the details of the simple types). These two new simple types are used in two new elements (i.e. BillReasonCode and FreeChargeFlag) in the following blocks/messages:

FullAddressCorrection block of QueryResult block of FullServiceAddressCorrectionQueryResponse message
FullServiceCorrection block of the FullServiceAddressCorrectionDeilvery message
FullServiceNixieDetail block of QueryResult block of FullServiceNixieDetailQueryResponse message
FullServiceNixieDetail block of FullServiceNixieDetailDelivery message

4.1 DeliveryResponse

The purpose of this message is to receive an acknowledgment from the customer when they receive a delivery message pushed by USPS

Prerequisites
USPS pushes data to the customer’s web service end point using delivery messages
Customer send an acknowledgment using the DeliveryResponse Message

Error/Return Code
Refer Section 2 for the list of Error/Return code tied to this message and all shared error/return codes

Business Rules:

USPS expected a “DeliveryResponse” message from all customers who have been subscribed to receive “Delivery” messages from the USPS. This response confirms that delivery message has been successfully received by the customer.

Copyright © 2010 USPS®. All Rights Reserved.

Every Delivery Message will have a unique message identifier (PushMessageID) that will be sent to the customer. Customer are encouraged to return the same PushMessageID in the DeliveryResponse message so that the *PostalOne!* system can reconcile the message delivery information.

4.1.1 DeliveryResponse Data Structure

Field Description

DeliveryResponse				
Field	**Format**	**Acceptable Values**	**Business Rules**	**Comments**
User License Code	String 4 length		Optional	
Maildat Job ID	String 8 length	-	Optional	
Customer Group ID	String, 25 character	-	Optional	
Mailing Group ID	Non Negative Integer	-	Optional	
Push Message ID	String, Length 25	-	Optional	
Delivery Type	String	-	Required	
ReturnInfo	Complex		Required	Refer 'ReturnInfo' complex type in appendix D

4.2 NotificationResponse

The purpose of this message is to receive an acknowledgment from the customer when they receive a notification message sent by USPS

Prerequisites

USPS sends a Notification message to the customer's web service end point regarding the availability of data to be pulled by the customer

Customer send an acknowledgment using the NotificationResponse Message

Error/Return Code

Refer Section 2 for the list of Error/Return code tied to this message and all shared error/return codes

Business Rules

USPS expected a "NotificationResponse" message from all customers who have been subscribed to receive "Notification" messages from the USPS. This response confirms that notification message has been successfully received by the customer.

4.2.1 NotificationResponse Data Structure

Field Description

Copyright © 2010 USPS®. All Rights Reserved.

NotificationResponse				
Field	**Format**	**Acceptable Values**	**Business Rules**	**Comments**
User License Code	String 4		Optional	
Maildat Job ID	String 8	-	Optional	
Customer Group ID	String, 25 character	-	Optional	
Mailing Group ID	Non Negative Integer	-	Optional	
Notification Date	Date	YYYY-MM-DD	Required	
ReturnInfo	Complex		Required	Refer 'ReturnInfo' complex type in appendix D

4.3 FullServiceAddressCorrectionNotification

This is the Notification message to customer for availability of address correction information.

Prerequisites

Mailer has subscribed to receive FullServiceAddressCorrectionNotification messages

ACS Data Recipient Determination Process

Mailer submits eDOC for a Job, Postage Statement is Finalized
USPS performs By/For Verification
USPS validate whether Mail Owner MID provided in CPT/MPA/IMR record in eDOC.
USPS identifies Mail Owner by MID based on Order of Preference
USPS looks up Data Distribution Profile by Mailer Owner's MID
USPS verifies whether Data Distribution Profile Exists
USPS determines Data Recipient CRID based on Profile
USPS attaches the Data Recipient CRID to the Piece/Piece Range Record

ACS Association and Feedback Process

USPS receives ACS COA records
USPS associates ACS COA records with Piece/Piece Range records
USPS provides ACS Feedback to Data Recipient CRID attached to the Piece/Piece Range record
USPS pushes the FullServiceAddressCorrectionNotification message to the Mailer's web service end point

Business Rules

With each FullServiceAddressCorrectionNotification message, if the customer has registered with the *PostalOne!* system to receive the message, the *PostalOne!* system will provide the

SubmittingParty – The *PostalOne!* system for all Notification and Delivery messages will always put a value of 'USPS' in the MaildatUserLicense field.

SubmittingSoftware – The *PostalOne!* system for all Notification and Delivery messages will always put:

a. The value of 'PostalOne' in the SoftwareName element
b. The value of 'USPS' in the vendor element

Copyright © 2010 USPS®. All Rights Reserved.

c. The most current version number available, such as 19.0 or 20.0 in the Version element
d. The *PostalOne!* system will not fill any values in the ApprovalDate and ApprovalKey elements

3. The CRID element is for industry usage and is optional. For the Delivery messages, the *PostalOne!* system will not populate this element.

4. The *PostalOne!* system will provide the job information, either the Mail.dat Job ID and User License Code, OR the Customer Group ID and MailingGroupID for Mail.XML/Postal Wizard to the customer.

5. The *PostalOne!* system will provide the NotificationDate, which is the date when the message is transmitted.

4.3.1 FullServiceAddressCorrectionNotification Data Structure

Field Description

FullServiceAddressCorrectionNotification				
Field	**Format**	**Acceptable Values**	**Business Rules**	**Comments**
Submitting Party Block	Complex	-	Required	Refer appendix C
Submitting Software Block	Complex	-	Required	Refer appendix C
CRID	mailxml_base :CRIDType	Refer 'CRIDType' simple type	Optional	Refer Appendix E
User License Code	String, 4		Required when 8-02 version is used	-
Maildat Job ID	String, 8	-	Required when 8-02 version is used	-
Customer Group ID	String, 25 character	-	Required when Mail.XML version is used	-
Mailing Group ID	Non Negative Integer	-	Required when Mail.XML is used	-
Notification Date	Date	YYYY-MM-DD	Required	-

4.4 FullServiceAddressCorrectionDelivery

This is a push message to provide address correction

Prerequisites

Mailer has subscribed to receive FullServiceAddressCorrectionDelivery messages

ACS Data Recipient Determination Process

Mailer submits eDOC for a Job, Postage Statement is Finalized
USPS performs By/For Verification
USPS validate whether Mail Owner MID provided in CPT/MPA/IMR record in eDOC.

Copyright © 2010 USPS®. All Rights Reserved.

USPS identifies Mail Owner by MID based on Order of Preference
USPS looks up Data Distribution Profile by Mailer Owner's MID
USPS verifies whether Data Distribution Profile Exists
USPS determines Data Recipient CRID based on Profile
USPS attaches the Data Recipient CRID to the Piece/Piece Range Record

ACS Association and Feedback Process

USPS receives ACS COA records
USPS associates ACS COA records with Piece/Piece Range records
USPS provides ACS Feedback to Data Recipient CRID attached to the Piece/Piece Range record
USPS pushes the FullServiceAddressCorrectionDelivery message to the Mailer's web service end point

Business Rules

With each FullServiceAddressCorrectionDelivery message, if the customer has registered with the *PostalOne!* system to receive the message, the *PostalOne!* system will provide the

1. OPTIONAL LargeTransactionDivideroptionalGroupType. This type is created to allow breaking up of any large data into multiple transactions, with Feet Ahead concept, where the sender of the large data is providing information about how many total transactions and records to expect and what is the current transaction number among the total expected transactions etc. as part of this one business transaction.
   a. MessageGroupID – It is a Sequence Number and will remain the same until all the transactions are completed, e.g., MessageGroupID is 10, indicating all the transactions with MessageGroupID 10 are one business transaction.
   b. TotalMessageCount - This element tells the receiver that for MessageGroupID of 10 expect a total of X transactions, the X is a positive integer.
   c. MessageSerialNumber – Is a serial number that will always start with 1 for every MessageGroupID, so the receiver always know if this is the first, second, or third transaction from the TotalMessageCount and for the same MessageGroupID.
   d. TransmittedRecordCount – is count of records in the current message transaction.
   e. TotalRecordsAccrossMessages – This is the total expected record count when the receiver of the MessageGroupID has received all messages.
   f. LastMessage – is a Yes or No indicator confirming for the receiver that this transaction is the last transaction of the MessageGroupID e.g., MessageGroupID 10.
2. SubmittingParty – The *PostalOne!* system for all Notification and Delivery messages will always put a value of 'USPS' in the MaildatUserLicense field.
3. SubmittingSoftware – The *PostalOne!* system for all Notification and Delivery messages will always put:
   a. The value of 'PostalOne' in the SoftwareName element
   b. The value of 'USPS' in the vendor element
   c. The most current version number available, such as 19.0 or 20.0 in the Version element
   d. The *PostalOne!* system will not fill any values in the ApprovalDate and ApprovalKey elements
4. The CRID element is for industry usage and is optional. For the Delivery messages, the *PostalOne!* system will not populate this element.
5. The *PostalOne!* system will provide the job information, either the Mail.dat Job ID and User License Code, OR the Customer Group ID and MailingGroupID for Mail.XML/Postal Wizard to the customer.

Copyright © 2010 USPS®. All Rights Reserved.

6. The *PostalOne!* system will send one or more FullServiceAddressCorrection blocks.
   a. The *PostalOne!* system will provide Move Type to identify the type of move for Individual, Family or Business (indicated by values 'I', 'F', or 'B' respectively).
   b. The COAName element will be used to identify the following:

      Individual/Family Move Type = Last Name, First Name, Prefix and Suffix

      Business Move Type = BusinessName will be utilize to provide business name information

   c. The ClassNotificationType element will be used to identify the mail class of the mail piece that generated the ACS COA notification for the following values:

      'A' = Package Services (Bound Printed Matter)

      'B' = First-Class

      'C' = Periodicals Initial

      'D' = Standard Mail

      'F' = Periodicals Follow-up

   d. The DeliverabilityCodeType element will be used to identify the deliverability status of the mailpiece that generated the ACS COA notification for the following values:

      <blank> = COA Match with new address

      'K' = COA Match, no forwarding address

      'G' = COA Match, PO Box Closed, no forwarding address

      'W' = COA Match with a temporary COA

   e. The AddressType element will be used to identify the type of address from which the customer is moving for the following values:

      'G' = General Delivery

      'H' = Highway Contract Route

      'P' = Post Office Box

      'R' = Rural Route

      'S' = Street Address

4.4.1 FullServiceAddressCorrectionDelivery

Field Description

FullServiceAddressCorrectionDelivery				
Field	**Format**	**Acceptable Values**	**Business Rules**	**Comments**
LargeTransactionDividerGroup OptionalType	Attribute	-	-	Refer 'Large Transaction Divider Group Optional Type' in appendix D
SubmittingParty	Complex	-	Optional	Refer 'Submittingparty' complex in appendix D

Copyright © 2010 USPS®. All Rights Reserved.

FullServiceAddressCorrectionDelivery				
Field	**Format**	**Acceptable Values**	**Business Rules**	**Comments**
SubmittingSoftware	Complex	-	Optional	Refer 'Submitting Software' complex in appendix D
DataRecipient	Complex	-	Optional	Refer 'Data Recipient' complex in appendix D
User License Code	String, 4		Optional	-
Maildat Job ID	String, 8	-	Optional	-
Customer Group ID	String, 25 character	-	Optional	-
Mailing Group ID	Non Negative Integer	-	Optional	-
Push Message ID	String, Length 25	-	Optional	-
FullServiceAddressCorrection	Complex	-	Required 1 to many	Refer Appendix D

4.5 FullServiceAddressCorrectionQueryRequest

This is request message to pull COA data

Prerequisites

Customer uses Mail.XML 8.1 specifications
USPS validates the request messages
USPS retrieves the data based on the search criteria provided in the request
USPS returns response to the Customer

Business Rules

With each FullServiceAddressCorrectionQueryRequest message, the customer needs to provide information for all required blocks.

1. SubmittingParty – The *PostalOne!* system for all data distribution for full-service messages, i.e., non-FAST, non-eDoc messages, will only accept a MID or a CRID as a valid id.
2. SubmittingSoftware – The *PostalOne!* system for messages that it receives for the Mail.XML will always require
   a. A valid software name in the SoftwareName element
   b. A valid software vendor company name in the vendor element
   c. The most current version number of the software in the Version element
   d. A valid Approval Date and a valid Approval Key in the ApprovalDate and ApprovalKey elements. The approval date is the date when the USPS approved the software usage in the USPS production environment and a valid Approval Key is what the USPS provided to the Software Vendor or Mailer (who may have developed their own software) as authorization to use in all messages.

Copyright © 2010 USPS®. All Rights Reserved.

3. The OwningParty information can also be provided optionally, if the data is requested by third parties based upon existing profiles or cast of characters messages.
4. The customer shall also provide piece information such as optional piece ranges and job info, as well as date ranges by providing one or more PieceRequest blocks.

4.5.1 FullServiceAddressCorrectionQueryRequest Data Structure

Field Description

FullServiceAddressCorrectionQueryRequest				
Field	**Format**	**Acceptable Values**	**Business Rules**	**Comments**
SubmittingParty	Complex	-	Optional	Refer 'Submitting Party' in appendix D
SubmittingSoftware	Complex	-	Optional	Refer 'Submitting Software' in appendix D
OwningParty	Complex	-	Optional	Refer 'participant IDType' complex in appendix D
Piece Request Block BEGIN				
Mail Class	mailxml_base :mailClassTy pe	Refer 'mailClass Type' simple type	Optional	Refer Appendix E
Choice Block BEGIN			Optional	
Lower IMB Range	String, 20-34 Length	-	Required	-
Upper IMB Range	String, 20-34 Length	-	Required	-
Choice Block END				
User License Code	String, 4		Optional	-
Maildat Job ID	String, 8	-	Optional	-
Customer Group ID	String, 25 character	-	Optional	-
Mailing Group ID	Non Negative Integer	-	Optional	-
Date Range Block BEGIN				

Copyright © 2010 USPS®. All Rights Reserved.

FullServiceAddressCorrectionQueryRequest				
Field	**Format**	**Acceptable Values**	**Business Rules**	**Comments**
Lower Date Range	Date	YYYY-MM-DD	Required	This date is a *PostalOne!* date starting in March 2010 to make sure time delay issues when the data is received by PostalOne! don't have any impact to the customer querying the data.
Upper Date Range	Date	YYYY-MM-DD	Required	-See Lower Date Range comment above.
Date Range Block END				
Piece Request Block END				

4.6 FullServiceAddressCorrectionQueryResponse

This message sends the actual COA data back to the requestor

Prerequisites

Customer uses Mail.XML 8.1 spec
USPS validates the request messages
USPS retrieves the data based on the search criteria provided in the request
USPS returns response to the Customer

Business Rule

With each FullServiceAddressCorrectionQueryResponse message, the *PostalOne!* system will provide the

1. Mandatory LargeTransactionDividerGroupType. This type is created to allow breaking up of any large data into multiple transactions, with Feet Ahead concept, where the sender of the large data is providing information about how many total transactions and records to expect, and what is the current transaction number among the total expected transactions etc. as part of this one business transaction.
    a. MessageGroupID – It is a Sequence Number and will remain the same until all the transactions are completed, e.g., MessageGroupID is 10 and until the last transaction is received on this business transaction, the MessageGroupID will remain 10 for all transactions, so the receiver knows that all the transactions with MessageGroupID 10 are one business transaction.

Copyright © 2010 USPS®. All Rights Reserved.

b. TotalMessageCount - This element tells the receiver that for MessageGroupID of 10 expect a total of X transactions, the X is a positive integer.
c. MessageSerialNumber – Is a serial number that will always start with 1 for every MessageGroupID, so the receiver always know if this is the 1st, 2nd, 3rd transaction from the TotalMessageCount and for the same MessageGroupID.
d. TransmittedRecordCount – is count of records in the current message transaction.
e. TotalRecordsAccrossMessages – This is the total expected record count when all transactions have been received by the receiver for the MessageGroupID.
f. LastMessage – is an optional Yes or No indicator confirming for the receiver that this transaction is the last transaction of the MessageGroupID e.g., MessageGroupID 10.

The FullServiceAddressCorrectionQueryResponse has two major choice blocks one is QueryResults and the other is QueryErrors.

In QueryResults,

The customer will receive zero or more FullServiceAddressCorrection blocks with job information and address correction information.

The customer may also optionally receive Return Codes and Descriptions as part of the Query Results.

The QueryError Block provides zero or more return codes and descriptions to communicate any issues with the response of the query.

4.6.1 FullServiceAddressCorrectionQueryResponse Data Structure

Field Description

FullServiceAddressCorrectionQueryResponse				
Field	**Format**	**Acceptable Values**	**Business Rules**	**Comments**
Query Result Block Begin	-	-	-	-
Large Transaction Divider Result Block Begin			Optional Block	
Tracking ID	String, 12	-	Required when the block data is provided	
Large Transaction Divider Result Block End				
Choice Block BEGIN				
User License Code	String, 4		Optional	-
Maildat Job ID	String, 8	-	Required when 8-02 version is used	-
Customer Group ID	String, 25 character	-	Optional	-
Mailing Group ID	Non Negative Integer	-	Optional	-
Choice Block END				

Copyright © 2010 USPS®. All Rights Reserved.

FullServiceAddressCorrectionQueryResponse				
Field	**Format**	**Acceptable Values**	**Business Rules**	**Comments**
FullServiceAddressCorrection	Complex	-	Optional 0 to many	Refer 'FullService Address Correction' complex in appendix D
Query Result Block END				
Query Error Block BEGIN				
ReturnInfo	Complex	-	Required	Refer 'ReturnInfo' complex in appendix C
Query Error Block END				

4.7 FullServiceContainerVisibilityNotification

This is the Notification message to customer providing them information on their container.

Prerequisites

Mailer has subscribed to receive FullServiceContainerVisibilityNotification messages
Mailer submits Mail.dat jobs or Mail XML eDoc messages to *PostalOne!*
USPS validates Mail.XML messages
USPS processes the Mail.dat jobs or Mail.XML messages, generates postage, and reports
Postage statement finalization exposes data to SASP
USPS interprets eDoc information, and performs Full Service verification
USPS determines Data Recipients
USPS sends Mailer Feedback to *PostalOne!*
USPS Checks the availability of data to the Mailer
USPS pushes the notification message to the Mailer's web service end point

Business Rules

With each FullServiceContainerVisibilityNotification message, if the customer has registered with the *PostalOne!* system to receive the message, the *PostalOne!* system will provide a

Date of notification **AND**

Provide the job information, either the Mail.dat Job ID and User License Code, OR the Customer Group ID and MailingGroupID for Mail.XML to the customer, so the customer can use the Job information in his/her Query request.

4.7.1 FullServiceContainerVisibilityNotification Data Structure

Field Description

FullServiceContainerVisibilityNotification				
Field	**Format**	**Acceptable Values**	**Business Rules**	**Comments**

Copyright © 2010 USPS®. All Rights Reserved.

FullServiceContainerVisibilityNotification				
Field	**Format**	**Acceptable Values**	**Business Rules**	**Comments**
SubmittingParty	Complex	-	Optional	Refer 'Submitting Party' complex type in appendix D
SubmittingSoftware	Complex	-	Optional	Refer 'Submitting Software' complex type in appendix D
User License Code	String, 4		Optional	-
Maildat Job ID	String, 8	-	Optional	-
Customer Group ID	String, 25 character	-	Optional	-
Mailing Group ID	Non Negative Integer	-	Optional	-
Notification Date	Date	YYYY-MM-DD	Required	-

4.8 FullServiceContainerVisibilityDelivery

This is a push message to provide container visibility

Prerequisites

Mailer has subscribed to receive FullServiceContainerVisibilityDelivery messages
Mailer submits Mail.dat jobs or Mail XML eDoc messages to *PostalOne!*
USPS validates Mail.XML messages
USPS processes the Mail.dat jobs or Mail.XML messages, generates postage, and reports
Postage statement finalization exposes data to SASP
USPS interprets eDoc information, and performs Full Service verification
USPS determines Data Recipients and Start-the-Clock
USPS sends Mailer Feedback to *PostalOne!*
USPS checks the availability of data to the Mailer
USPS pushes the Container Visibility message to the Mailer's web service end point

Business Rules

With each FullServiceContainerVisibilityDelivery message, if the customer has registered with the *PostalOne!* system to receive the message, the *PostalOne!* system will provide the

OPTIONAL LargeTransactionDivideroptionalGroupType. This type is created to allow breaking up of any large data into multiple transactions, with Feet Ahead concept, where the sender of the large data is providing information about how many total transactions, records to expect, and what is the current transaction number among the total expected transactions etc. as part of this one business transaction.

MessageGroupID – It is a Sequence Number and will remain the same until all the transactions are completed, e.g., MessageGroupID is 10 and until the last transaction is received on this business transaction, the MessageGroupID will remain 10 for all transactions, so the receiver knows that all the transactions with MessageGroupID 10 are one business transaction.

Copyright © 2010 USPS®. All Rights Reserved.

TotalMessageCount - This element tells the receiver that for MessageGroupID of 10 expect a total of X transactions, the X is a positive integer.

MessageSerialNumber – Is a serial number that will always start with 1 for every MessageGroupID, so the receiver always know if this is the 1st, 2nd, 3rd transaction from the TotalMessageCount and for the same MessageGroupID.

TransmittedRecordCount – is a count of records in the current message transaction.

TotalRecordsAccrossMessages – This is the total expected record count when the receiver for the MessageGroupID has received all transactions.

LastMessage – is a Yes or No indicator confirming for the receiver that this transaction is the last transaction of the MessageGroupID. For example: MessageGroupID 10.

SubmittingParty – The *PostalOne!* system for all Notification and Delivery messages will always put a value of 'USPS' in the MaildatUserLicense field.

SubmittingSoftware – The *PostalOne!* system for all Notification and Delivery messages will always put

The value of 'PostalOne' in the SoftwareName element

The value of 'USPS' in the vendor element

The most current version number available, such as 19.0 or 20.0 in the Version element

The *PostalOne!* system will not fill any values in the ApprovalDate and ApprovalKey elements

The CRID element is for industry usage and is optional. For the Delivery messages, the *PostalOne!* system will not populate this element.

The *PostalOne!* system will provide the job information, either the Mail.dat Job ID and User License Code, OR the Customer Group ID and MailingGroupID for Mail.XML to the customer.

The *PostalOne!* system will send one or more FullServiceContainerVisibility blocks.

Full Service ACS™ COA and Nixie data grouping: All XML Messages for the Full Service ACS COA and Full Service ACS Nixie data are grouped by Mail.dat Job ID/User License Code OR Mailing Group/Container Group AND Data Recipient CRID. The data recipient CRID is attached to the Full Service ACS transactions by the SASP system based upon the eDoc By/For and/or the MID profile/Cast of Characters communication.

4.8.1 FullServiceContainerVisibilityDelivery Data Structure

Field Description

FullServiceContainerVisibilityDelivery				
Field	**Format**	**Acceptable Values**	**Business Rules**	**Comments**
LargeTransactionDividerGroup OptionalType	Attribute	-	-	Refer 'Large Transaction Divider Group Optional Type' attribute in Appendix D
SubmittingParty	Complex	-	Required.	Refer 'Submitting Party' complex type in appendix D

Copyright © 2010 USPS®. All Rights Reserved.

FullServiceContainerVisibilityDelivery				
Field	**Format**	**Acceptable Values**	**Business Rules**	**Comments**
SubmittingSoftware	Complex	-	Required.	Refer 'Submitting Software' complex type in appendix D
DataRecipient	Complex	-	Optional	Refer 'Data Recipient' complex in appendix D
User License Code	String, 4		Required when 8-02 version is used	-
Maildat Job ID	String, 8	-	Required when 8-02 version is used	-
Customer Group ID	String, 25 character	-	Required when Mail.XML version is used	-
Mailing Group ID	Non Negative Integer	-	Required when Mail.XML is used	-
Push Message ID	String, Length 25	-	Optional	-
ContainerVisibilityEntry	Complex		Required 1 to many	Refer 'Container Visibility Entry' complex in Appendix D

4.9 FullServiceContainerVisibilityQueryRequest

This message is sent by customer to pull container visibility data

Prerequisites

Customer uses Mail.XML 8.1 specifications
USPS validates the request messages
USPS retrieves the data based on the search criteria provided in the request
USPS returns response to the Customer

Business Rules

With each FullServiceContainerVisibilityQueryRequest message, the customer needs to provide information for all required blocks.

1. SubmittingParty – The *PostalOne!* system for all data distribution for full-service messages, i.e., non-FAST, non-eDoc messages, will only accept a MID or a CRID as a valid id.
2. SubmittingSoftware – The *PostalOne!* system for messages that it receives for the Mail.XML will always require

Copyright © 2010 USPS®. All Rights Reserved.

a. A valid software name in the SoftwareName element
b. A valid software vendor company name in the vendor element
c. The most current version number of the software in the Version element
d. A valid Approval Date and a valid Approval Key in the ApprovalDate and ApprovalKey elements. The approval date is the date when the USPS approved the software usage in the USPS production environment and a valid Approval Key is what the USPS provided to the Software Vendor or Mailer (who may have developed their own software) as authorization to use in all messages.

3. The job information can also be provided optionally, either the Mail.dat Job ID and User License Code, OR the Customer Group ID and MailingGroupID for Mail.XML by the customer.
4. The FAST appointment ID or the CSA Dispatch ID, created by the FAST system, can be provided optionally in the ConsigneeApptID or CSADispatchNumber elements respectively.
5. The customer can also optionally provide the 21 digit Pallet IMCB barcodes in the UniqueContainerBarcode element tied to the Mail.XML job information or Mail.dat Job information and can optionally provide the Locale Key of the Induction facility in the USPSInductionFacilityLocaleKey element.
6. The customer can also optionally provide the Mail.XML Container ID in the CustomerContainerID element tied to the Mail.XML job information or can optionally provide the Mail.dat ContainerID in the ContainerID element.

4.9.1 FullServiceContainerVisibilityQueryRequest Data Structure

Field Description

FullServiceContainerVisibilityQueryRequest				
Field	**Format**	**Acceptable Values**	**Business Rules**	**Comments**
SubmittingParty	Complex	-	Required	Refer appendix D
SubmittingSoftware	Complex	-	Required	Refer appendix D
Choice Block BEGIN			Optional	
User License Code	String		Required when 8-02 version is used	-
Maildat Job ID	String	-	Required when 8-02 version is used	-
Customer Group ID	String, 25 character	-	Required when Mail.XML version is used	-
Mailing Group ID	Non Negative Integer	-	Required when Mail.XML is used	-
Choice Block END				
Choice Block BEGINS			Optional	
Consignee Appt ID	Numeric String, 9	-	Optional between this field and CSA Dispatch Number	-

Copyright © 2010 USPS®. All Rights Reserved.

FullServiceContainerVisibilityQueryRequest				
Field	**Format**	**Acceptable Values**	**Business Rules**	**Comments**
CSA Dispatch Number	String, 10	-	Optional between this field and Consignee Appt ID	
Choice Block END				
Unique Container Barcode	String, Length 1-24	-	Optional 0 to many	-
USPS Induction Facility Location	String, 9	-	Optional	-

4.10 FullServiceContainerVisibilityQueryResponse

This message contains container visibility data and is sent upon receiving the request message

Prerequisites

Customer uses Mail.XML 7.0C spec
USPS validates the request messages
USPS retrieves the data based on the search criteria provided in the request
USPS returns response to the Customer

Business Rules

With each FullServiceContainerVisibilityQueryResponse message the *PostalOne!* system will provide the

1. Mandatory LargeTransactionDividerGroupType. This type is created to allow breaking up of any large data into multiple transactions, with Feet Ahead concept, where the sender of the large data is providing information about how many total transactions and records to expect, and what is the current transaction number among the total expected transactions etc. as part of this one business transaction.
   a. MessageGroupID – It is a Sequence Number and will remain the same until all the transactions are completed, e.g., MessageGroupID is 10 and until the last transaction is received on this business transaction, the MessageGroupID will remain 10 for all transactions, so the receiver knows that all the transactions with MessageGroupID 10 are one business transaction.
   b. TotalMessageCount - This element tells the receiver that for MessageGroupID of 10 expect a total of X transactions, the X is a positive integer.
   c. MessageSerialNumber – Is a serial number that will always start with 1 for every MessageGroupID, so the receiver always know if this is the 1st, 2nd, 3rd transaction from the TotalMessageCount and for the same MessageGroupID.
   d. TransmittedRecordCount – is count of records in the current message transaction.
   e. TotalRecordsAccrossMessages – This is the total expected record count when the receiver of the MessageGroupID has received all messages.
   f. LastMessage – is an optional Yes or No indicator confirming for the receiver that this transaction is the last transaction of the MessageGroupID e.g., MessageGroupID 10.

The FullServiceContainerVisibilityQueryResponse has two major choice blocks one is QueryResults and the other is QueryErrors.

Copyright © 2010 USPS®. All Rights Reserved.

In QueryResults,

The job information will be returned by the USPS *PostalOne!* system, and the Mail.dat Job information will be returned or Mail.XML job information will be returned. The Mail.dat Job ID and User License Code elements represent Mail.dat information and the Customer Group ID and MailingGroupID represent the Mail.XML.

The customer will receive zero or more ContainerVisibilityEntry blocks with container unload and scan information.

The customer may also optionally receive Return Codes and Descriptions as part of the Query Results.

The QueryError Block provides zero or more return codes and descriptions to communicate any issues with the response of the query.

4.10.1 FullServiceContainerVisibilityQueryResponse Data Structure

Field Description

FullServiceContainerVisibilityQueryResponse				
Field	**Format**	**Acceptable Values**	**Business Rules**	**Comments**
Query Result Block Begin			1 to many	
User License Code	String		Required when 8-02 version is used	-
Maildat Job ID	String	-	Required when 8-02 version is used	-
Customer Group ID	String, 25 character	-	Required when Mail.XML version is used	-
Mailing Group ID	Non Negative Integer	-	Required when Mail.XML is used	-
Large Transaction Divider Result Block Begin			Optional	-
Tracking ID	String, 12	-	Required	-
Large Transaction Divider Result Block END				
ContainerVisibilityEntry	Complex	-	Optional 0 to many	Refer 'ContainerVisibilityEntry' complex in appendix C
ReturnInfo	Complex	-	Optional	Refer 'ReturnInfo' in appendix C
Query Result Block END				
Query Error Block BEGIN				

Copyright © 2010 USPS®. All Rights Reserved.

FullServiceContainerVisibilityQueryResponse				
Field	**Format**	**Acceptable Values**	**Business Rules**	**Comments**
ReturnInfo	Complex	-	Required	Refer 'ReturnInfo' complex in appendix C
Query Error Block END				

4.11 FullServiceDataQualityVerificationReportNotification

This is notification message sent by USPS to customer

Prerequisites
Mailer has subscribed to receive *FullServiceDataQualityVerificationReportNotification* messages

eDoc Data Quality Data Recipient Determination Process

Mailer submits eDOC for a Job,
Postage Statement is Finalized
USPS performs By/For Verification
USPS validate whether Mail Owner MID provided in CPT/MPA/IMR record in eDOC.
USPS identifies Mail Owner by MID based on Order of Preference
USPS identifies Mail Preparer

eDoc Data Quality Logging and Feedback Process

USPS performs verifications on eDoc submitted
USPS associates error records with eDoc containers, handling units, piece or piece range records
USPS pushes the *FullServiceDataQualityVerificationReportNotification* message to the Mailer's web service end point

Business Rules:
If the customer has registered with the *PostalOne!* system to receive the message, the *PostalOne!* system will provide a date of notification and will provide the job information, either the Mail.dat Job ID and User License Code, OR the Customer Group ID and MailingGroupID for Mail.XML/Postal Wizard to the customer, and report type

4.11.1 FullServiceDataQualityVerificationReportNotification Data Structure

Field Description

FullServiceDataQualityVerificationReportNotification				
Field	**Format**	**Acceptable Value**	**Business Rules**	**Comments**
SubmittingParty	Complex	-	Required	Refer 'SubmittingParty' complex in appendix D
SubmittingSoftware	Complex	-	Required	Refer 'SubmittingSoftware' complex in appendix D

Copyright © 2010 USPS®. All Rights Reserved.

FullServiceDataQualityVerificationReportNotification				
Field	**Format**	**Acceptable Value**	**Business Rules**	**Comments**
Choice Block BEGINS				
UserLicenseCode	String 4		Required	
MaildatJobID	String 8		Required	
OR				
CustomerGroupID	mailxml_base:s25	Refer 's25' simple type	Optional	Refer Appendix E
MailingGroupID	xs:nonnegative Integer	Refer 'nonnegative Integer' simple type	Required	Refer Appendix E
Choice Block END				
MailFacilityID	String 15		Optional	
VerificationReport Type	mailxml_base:verificationReportType	Refer 'verification ReportType' simple type	Required 1 to many	Refer Appendix E
NotificationDate	date	YYYY-MM-DD	Required	

4.12 FullServiceDataQualityVerificationReportDelivery

This message is pushed by USPS that contains data quality verification report

Prerequisites
Mailer has subscribed to receive *FullServiceDataQualityVerificationReportDelivery* messages

eDoc Data Quality Data Recipient Determination Process

Mailer submits eDOC for a Job,
Postage Statement is Finalized
USPS performs By/For Verification
USPS validate whether Mail Owner MID provided in CPT/MPA/IMR record in eDOC.
USPS identifies Mail Owner by MID based on Order of Preference
USPS identifies Mail Preparer

eDoc Data Quality Logging and Feedback Process

USPS performs verifications on eDoc submitted
USPS associates error records with eDoc containers, handling units, piece or piece range records
USPS pushes the FullServiceDataQualityVerificationReportDelivery message to the Mailer's web service end point

Error/Return Code
Refer Section 2 for the list of Error/Return code tied to this message and all shared error/return codes

Business Rules:
If the customer has registered with the *PostalOne!* system to receive the message, the *PostalOne!* system will provide a date of notification and will provide the job information, either the Mail.dat Job ID and User License Code, OR the Customer Group ID and MailingGroupID for Mail.XML/Postal Wizard to the customer, report type, and details about the error

Copyright © 2010 USPS®. All Rights Reserved.

4.12.1 FullServiceDataQualityVerificationReportDelivery Data Structure

Field Description

FullServiceDataQualityVerificationReportDelivery				
Field	**Format**	**Acceptable Value**	**Business Rules**	**Comments**
LargeTransaction DividerGroupOptional Type	Attribute	-	Required	Refer 'Large TransactionDivider GroupOptionalType' attribute in appendix D
SubmittingParty	Complex		Required	Refer 'Submitting Party' complex in appendix D
SubmittingSoftware	Complex		Required	Refer 'Submitting Software' complex in appendix D
DataRecipient	Complex	-	Optional	Refer 'DataRecipient' complex in appendix D
Choice Block BEGINS				
UserLicenseCode	String 4		Required	
MaildatJobID	String 8		Required	
OR				
CustomerGroupID	String 25		Optional	
MailingGroupID	nonnegative Integer		Required	
Choice Block END				
MailFacilityID	String 15		Required	
TotalJobContainerCount	nonnegative Integer		Optional	
TotalJobHandlingUnitCo unt	nonnegative Integer		Optional	
TotalJobPieceCount	nonnegative Integer		Optional	
TotalJobContainerHU ErrorCount	nonnegative Integer		Optional	
TotalJobPieceError Count	nonnegative Integer		Optional	
Sequence BEGIN			0 to many	
PreparerCRID	String 15		Required	

Copyright © 2010 USPS®. All Rights Reserved.

FullServiceDataQualityVerificationReportDelivery				
Field	**Format**	**Acceptable Value**	**Business Rules**	**Comments**
TotalPreparerContainer Count	nonnegative Integer		Required	
TotalPreparerHandling UnitCount	xs:nonNegativeInteger		Required	
TotalPreparerPiece Count	nonnegative Integer		Required	
TotalPreparerContainer HUErrorCount	nonnegative Integer		Required	
TotalPreparerPieceError Count	nonnegative Integer		Required	
Sequence END				
Sequence BEGIN			0 to many	
OwnerCRID	String 15		Required	
TotalOwnerContainer Count	nonnegative Integer		Required	
TotalOwnerHandlingUnit Count	nonnegative Integer		Required	
TotalOwnerPieceCount	nonnegative Integer		Required	
TotalOwnerContainerHU ErrorCount	nonnegative Integer		Required	
TotalOwnerPieceErrorC ount	nonnegative Integer		Required	
Sequence END			Required	
Sequence BEGIN			1 to many	
VerificationReportType	mailxml_base:verificationReportType	Refer 'verificationReportType' simple type	Required	Refer Appendix E

Copyright © 2010 USPS®. All Rights Reserved.

FullServiceDataQualityVerificationReportDelivery				
Field	**Format**	**Acceptable Value**	**Business Rules**	**Comments**
FullServiceDataQuality ContainerInfo	mailxml:fsdqrContainerInfoType		Required 1 to many allowed	Refer 'FSDQRContainerInfo Type' complex in appendix D
Sequence END				

4.13 FullServiceDataQualityVerificationReportQueryRequest

This message is sent by customer to USPS to pull data quality verification error report

Prerequisites
Mailer submits Mail.dat jobs, Mail XML or Postal Wizard eDoc to *PostalOne!*
USPS validates Mail.XML messages
USPS processes the Mail.dat jobs, Mail.XML messages or Postal Wizard
USPS generates postage and reports
Postage statement has been finalized by USPS
USPS interprets eDoc information, and performs Full Service verification
USPS checks the availability of eDoc data quality information to the Mailer
USPS responds to the FullServiceDataQualityVerificationReportQueryRequest message to the Mailer's web service end point.

Business Rules
The customer must provide job information, submitting party, submitting software, facility id, and the report type to retrieve the data quality verification report.

4.13.1 FullServiceDataQualityVerificationReportQueryRequest Data Structure

Field Description

FullServiceDataQualityVerificationReportQueryRequest				
Field	**Format**	**Acceptable Value**	**Business Rules**	**Comments**
SubmittingParty	Complex	-	Required	Refer 'Submitting Party' complex in appendix D
SubmittingSoftware	Complex	-	Required	Refer 'Submitting Software' complex in appendix D
Choice Block BEGINS				
UserLicenseCode	String 4		Required	
MaildatJobID	String 8		Required	
OR				
CustomerGroupID	String 25		Optional	
MailingGroupID	nonNegativeInteger		Required	
Choice Block END				
MailFacilityID	String 15		Optional	
VerificationReportType	mailxml_base:verification ReportType	Refer 'verificationReportType' simple	Required 1 to many	Refer Appendix E

Copyright © 2010 USPS®. All Rights Reserved.

FullServiceDataQualityVerificationReportQueryRequest				
Field	**Format**	**Acceptable Value**	**Business Rules**	**Comments**
		type		

4.14 FullServiceDataQualityVerificationReportQueryResponse

This message is sent by USPS in response to query request

Prerequisites
Mailer sends FullServiceDataQualityVerificationReportQueryRequest message to USPS
USPS validates Mail.XML message and processes request

Error/Return Code

Refer Section 2 for the list of Error/Return code tied to this message and all shared error/return codes

Business Rules
If the customer has registered with the *PostalOne!* system to receive the message, the *PostalOne!* system will provide a date of notification and will provide the job information, either the Mail.dat Job ID and User License Code, OR the Customer Group ID and MailingGroupID for Mail.XML/Postal Wizard to the customer, report type, and details about the error

4.14.1 FullServiceDataQualityVerificationReportQueryResponse Data Structure

Field Description

FullServiceDataQualityVerificationReportQueryResponse				
Field	**Format**	**Acceptable Value**	**Business Rules**	**Comments**
LargeTransaction DividerGroupOptional Type	Attribute	-	Required	Refer 'Large TransactionDivider GroupOptionalType' attribute in appendix D
QueryResult Block BEGIN			Required	
SubmittingParty	Complex		Required	Refer 'Submitting Party' complex in appendix D
SubmittingSoftware	Complex		Required	Refer 'Submitting Software' complex in appendix D
Choice Block BEGINS				
UserLicenseCode	String 4		Required	

Copyright © 2010 USPS®. All Rights Reserved.

FullServiceDataQualityVerificationReportQueryResponse				
Field	**Format**	**Acceptable Value**	**Business Rules**	**Comments**
MaildatJobID	String 8		Required	
OR				
CustomerGroupID	String 25		Optional	
MailingGroupID	nonnegative Integer		Required	
Choice Block END				
LargeTransactionDivider Result BEGIN			Optional 1 to many allowed	
TrackingID	String 12	-	-	-
LargeTransactionDivider Result END				
MailFacilityID	String 15		Required	
TotalJobContainerCount	nonnegative Integer		Optional	
TotalJobHandlingUnitCo unt	nonnegative Integer		Optional	
TotalJobPieceCount	nonnegative Integer		Optional	
TotalJobContainerHU ErrorCount	nonnegative Integer		Optional	
TotalJobPieceError Count	nonnegative Integer		Optional	
Sequence BEGIN			Optional 0 to many	
PreparerCRID	String 15		Required	
TotalPreparerContainer Count	nonnegative Integer		Required	
TotalPreparerHandling UnitCount	xs:nonNegativeIn teger		Required	
TotalPreparerPiece Count	nonnegative Integer		Required	
TotalPreparerContainer HUErrorCount	nonnegative Integer		Required	
TotalPreparerPieceError Count	nonnegative Integer		Required	
Sequence END				
Sequence BEGIN			Optional 0 to many	
OwnerCRID	String 15		Required	

Copyright © 2010 USPS®. All Rights Reserved.

FullServiceDataQualityVerificationReportQueryResponse				
Field	**Format**	**Acceptable Value**	**Business Rules**	**Comments**
TotalOwnerContainer Count	nonnegative Integer		Required	
TotalOwnerHandlingUnit Count	nonnegative Integer		Required	
TotalOwnerPieceCount	nonnegative Integer		Required	
TotalOwnerContainerHU ErrorCount	nonnegative Integer		Required	
TotalOwnerPieceError Count	nonnegative Integer		Required	
Sequence END			Required	
Sequence BEGIN			Required 1 to many	
VerificationReportType	mailxml_base:verificationReportType	Refer 'verificationReportType' simple type	Required	Refer Appendix E
FullServiceDataQuality ContainerInfo	Complex		Required 1 to many allowed	Refer 'FSDQRContainerInfo Type' complex in appendix D
Sequence END				
QueryResult Block END				
QueryError Block BEGIN				
ReturnInfo	Complex	-	Optional	Refer 'ReturnInfo' complex in appendix D
QueryError block END				

4.15 FullServiceNixieDetailNotification

This is the Notification message to customer for Nixie information.

Prerequisites

Mailer has subscribed to receive FullServiceNixieDetailNotification messages

Copyright © 2010 USPS®. All Rights Reserved.

ACS Data Recipient Determination Process

Mailer submits eDOC for a Job, Postage Statement is Finalized
USPS performs By/For Verification
USPS validate whether Mail Owner MID provided in CPT/MPA/IMR record in eDOC.
USPS identifies Mail Owner by MID based on Order of Preference
USPS looks up Data Distribution Profile by Mailer Owner's MID
USPS verifies whether Data Distribution Profile Exists
USPS determines Data Recipient CRID based on Profile
USPS attaches the Data Recipient CRID to the Piece/Piece Range Record

ACS Association and Feedback Process

USPS receives ACS and Nixie records
USPS associates ACS and Nixie records with Piece/Piece Range records
USPS provides ACS Feedback to Data Recipient CRID attached to the Piece/Piece Range record

USPS pushes the FullServiceNixieDetailNotification message to the Mailer's web service end point

Business Rules

With each FullServiceNixieDetailNotification message, if the customer has registered with the *PostalOne!* system to receive the message, the *PostalOne!* system will provide the

1. SubmittingParty – The *PostalOne!* system for all Notification and Delivery messages will always put a value of 'USPS' in the MaildatUserLicense field.
2. SubmittingSoftware – The *PostalOne!* system for all Notification and Delivery messages will always put
   a. The value of 'PostalOne' in the SoftwareName element
   b. The value of 'USPS' in the vendor element
   c. The most current version number available, such as 19.0 or 20.0 in the Version element
   d. The *PostalOne!* system will not fill any values in the ApprovalDate and ApprovalKey elements
3. The CRID element is for industry usage and is optional. For the Delivery messages, the *PostalOne!* system will not populate this element.
4. The *PostalOne!* system will provide the job information, either the Mail.dat Job ID and User License Code, OR the Customer Group ID and MailingGroupID for Mail.XML/Postal Wizard to the customer.
5. The *PostalOne!* system will provide the NotificationDate, which is the date when the message is transmitted.

4.15.1 FullServiceNixieDetailNotification Data Structure

Field Description

FullServiceNixieDetailNotification				
Field	**Format**	**Acceptable Values**	**Business Rules**	**Comments**
Submitting Party Block	Complex	-	Optional	Refer 'Submitting Party' in Appendix D
Submitting Software Block	Complex	-	Optional	Refer 'Submitting Software' in Appendix D

Copyright © 2010 USPS®. All Rights Reserved.

FullServiceNixieDetailNotification				
Field	**Format**	**Acceptable Values**	**Business Rules**	**Comments**
CRID	mailxml_base :CRIDType	Refer 'CRIDType' simple type	Optional	Refer Appendix E
User License Code	String, 4		Optional	-
Maildat Job ID	String, 8	-	Optional	-
Customer Group ID	String, 25 character	-	Optional	-
Mailing Group ID	Non Negative Integer	-	Optional	-
Notification Date	Date	YYYY-MM-DD	Required	-

4.16 FullServiceNixieDetailDelivery

This is a push message to provide Nixie information

Prerequisites

Mailer has subscribed to receive FullServiceNixieDetailDelivery messages

ACS Data Recipient Determination Process

Mailer submits eDOC for a Job, Postage Statement is Finalized
USPS performs By/For Verification
USPS validate whether Mail Owner MID provided in CPT/MPA/IMR record in eDOC.
USPS identifies Mail Owner by MID based on Order of Preference
USPS looks up Data Distribution Profile by Mailer Owner's MID
USPS verifies whether Data Distribution Profile Exists
USPS determines Data Recipient CRID based on Profile
USPS attaches the Data Recipient CRID to the Piece/Piece Range Record

ACS Association and Feedback Process

USPS receives ACS and Nixie records
USPS associates ACS and Nixie records with Piece/Piece Range records
USPS provides ACS Feedback to Data Recipient CRID attached to the Piece/Piece Range record

USPS pushes the FullServiceNixieDetailDelivery message to the Mailer's web service end point

Business Rule

With each FullServiceNixieDetailDelivery message, if the customer has registered with the *PostalOne!* system to receive the message, the *PostalOne!* system will provide the

1. OPTIONAL LargeTransactionDivideroptionalGroupType. This type is created to allow breaking up of any large data into multiple transactions, with Feet Ahead concept, where the sender of the large data is providing information about how many total transactions and records to expect and what is the current transaction number among the total expected transactions etc. as part of this one business transaction.
   a. MessageGroupID – It is a Sequence Number and will remain the same until all the transactions are completed, e.g., MessageGroupID is 10 and until the last transaction is received on this business transaction, the MessageGroupID will remain 10 for all transactions, so the receiver knows that all the transactions with MessageGroupID 10 are one business transaction.

Copyright © 2010 USPS®. All Rights Reserved.

   b. TotalMessageCount - This element tells the receiver that for MessageGroupID of 10 expect a total of X transactions, the X is a positive integer.
   c. MessageSerialNumber – Is a serial number that will always start with 1 for every MessageGroupID, so the receiver always know if this is the 1st, 2nd, 3rd transaction from the TotalMessageCount and for the same MessageGroupID.
   d. TransmittedRecordCount – is count of records in the current message transaction.
   e. TotalRecordsAccrossMessages – This is the total expected record count when the receiver of the MessageGroupID has received all messages.
   f. LastMessage – is a Yes or No indicator confirming for the receiver that this transaction is the last transaction of the MessageGroupID e.g., MessageGroupID 10.
2. SubmittingParty – The *PostalOne!* system for all Notification and Delivery messages will always put a value of 'USPS' in the MaildatUserLicense field.
3. SubmittingSoftware – The *PostalOne!* system for all Notification and Delivery messages will always put
   a. The value of 'PostalOne' in the SoftwareName element
   b. The value of 'USPS' in the vendor element
   c. The most current version number available, such as 19.0 or 20.0 in the Version element
   d. The *PostalOne!* system will not fill any values in the ApprovalDate and ApprovalKey elements
4. The CRID element is for industry usage and is optional. For the Delivery messages, the *PostalOne!* system will not populate this element.
5. The *PostalOne!* system will provide the job information, either the Mail.dat Job ID and User License Code, OR the Customer Group ID and MailingGroupID for Mail.XML/Postal Wizard to the customer.
6. The *PostalOne!* system will send one or more FullServiceNixieDetail blocks.
   a. The ActionCode element will be used to identify the action taken for the returned mail for the following values:

      'F' = Forwarded

      'W' = Wasted

      'R' = Returned

      'U' = Unable to determine action

   b. The ClassNotificationType element will be used to identify the mail class of the mail piece that generated the ACS COA notification for the following values:

      'A' = Package Services (Bound Printed Matter)

      'B' = First-Class

      'C' = Periodicals Initial

      'D' = Standard Mail

      'F' = Periodicals Follow-up

   c. Reason Code - Reason mail element will be used to identify the reason for the returned mail for the following values:

      'A' = Attempted, not known

      'B' = Returned for better address

      'D' = Outside delivery limits

      'E' = In dispute

Copyright © 2010 USPS®. All Rights Reserved.

'I' = Insufficient Address

'L' = Illegible

'M' = No mail receptacle

'N' = No such number

'P' = Deceased

'Q' = Not deliverable as addressed/unable to forward

'R' = Refused

'S' = No such street

'U' = Unclaimed

'V' = Vacant

'X' = No such office

4.16.1 FullServiceNixieDetailDelivery Data Structure

Field Description

FullServiceNixieDetailDelivery				
Field	**Format**	**Acceptable Values**	**Business Rules**	**Comments**
LargeTransactionDividerGroup OptionalType	Attribute	-	-	Refer 'Large Transaction Divider Group Optional Type' attribute in appendix D
SubmittingParty	Complex	-	Optional	Refer 'Submitting Party' in appendix D
SubmittingSoftware	Complex	-	Optional	Refer 'Submitting Software' in appendix D
DataRecipient	Complex	-	Optional	Refer 'Data Recipient' complex in appendix D
User License Code	String, 4		Optional	-
Maildat Job ID	String, 8	-	Optional	-
Customer Group ID	String, 25 character	-	Optional	-
Mailing Group ID	Non Negative Integer	-	Optional	-
Push Message ID	String, Length 25	-	Optional	-

Copyright © 2010 USPS®. All Rights Reserved.

FullServiceNixieDetailDelivery				
Field	**Format**	**Acceptable Values**	**Business Rules**	**Comments**
FullServiceNixieDetail	Complex	-	Required 1 to many	Refer 'Full Service Nixie Detail' complex in appendix D

4.17 FullServiceNixieDetailQueryRequest

This is request message to pull Nixie data

Prerequisites

Customer uses Mail.XML 7.0C spec
USPS validates the request messages
USPS retrieves the data based on the search criteria provided in the request
USPS returns response to the Customer

Business Rules

With each FullServiceNixieDetailQueryRequest message, the customer needs to provide information for all required blocks.

1. SubmittingParty – The *PostalOne!* system for all data distribution for full-service messages, i.e., non-FAST, non-eDoc messages, will only accept a MID or a CRID as a valid id.
2. SubmittingSoftware – The *PostalOne!* system for messages that it receives for the Mail.XML will always require
   a. A valid software name in the SoftwareName element
   b. A valid software vendor company name in the vendor element
   c. The most current version number of the software in the Version element
   d. A valid Approval Date and a valid Approval Key in the ApprovalDate and ApprovalKey elements. The approval date is the date when the USPS approved the software usage in the USPS production environment and a valid Approval Key is what the USPS provided to the Software Vendor or Mailer (who may have developed their own software) as authorization to use in all messages.
3. The RequestorCRID can be used to identify the requestor through the company CRID.
4. The customer can also provide the 6-digit or 9-digit OriginalMailerID.
5. The customer shall also provide one or more PieceRequests with piece ranges, class, date range and job information.

4.17.1 FullServiceNixieDetailQueryRequest Data Structure

Field Description

FullServiceNixieDetailQueryRequest				
Field	**Format**	**Acceptable Values**	**Business Rules**	**Comments**

Copyright © 2010 USPS®. All Rights Reserved.

FullServiceNixieDetailQueryRequest				
Field	**Format**	**Acceptable Values**	**Business Rules**	**Comments**
SubmittingParty	Complex	-	Optional	Refer 'Submitting Party' in appendix D
SubmittingSoftware	Complex	-	Optional	Refer 'Submitting Software' in appendix D
Requester CRID	mailxml_base :CRIDType	Refer 'CRIDType' simple type	Optional	Refer Appendix E
Choice Block BEGIN			Optional Block	
OriginalMailerID6	String, 6		Required	
OriginalMailerID9	String, 9		Required	
Choice Block END				
Piece Request Block BEGIN			Required 1 to many	
Mail Class	mailxml_base :mailClassTy pe	Refer 'mailClass Type' simple type	Required	Refer Appendix E
Choice Block BEGIN			Optional	
Lower IMB Range	String, 20-34 Length	-	Required	-
Upper IMB Range	String, 20-34 Length	-	Required	-
Choice Block END				
Choice Block Begin				
User License Code	String		Optional	-
Maildat Job ID	String	-	Optional	-
Customer Group ID	String, 25 character	-	Optional	-
Mailing Group ID	Non Negative Integer	-	Optional	-
Choice Block END				
Date Range Block BEGIN				

Copyright © 2010 USPS®. All Rights Reserved.

FullServiceNixieDetailQueryRequest				
Field	**Format**	**Acceptable Values**	**Business Rules**	**Comments**
Lower Date Range	Date	YYYY-MM-DD	Required	This date is a *PostalOne!* date starting in March 2010 to make sure time delay issues when the data is received by PostalOne! don't have any impact to the customer querying the data.
Upper Date Range	Date	YYYY-MM-DD	Required	-See Lower Date Range comment above.
Date Range Block END				
PieceRange Block END				

4.18 FullServiceNixieDetailQueryResponse

This message sends the actual Nixie data back to the requestor

Prerequisites

Customer uses Mail.XML 7.0C spec
USPS validates the request messages
USPS retrieves the data based on the search criteria provided in the request
USPS returns response to the Customer

Business Rules

With each FullServiceNixieDetailQueryResponse message, the *PostalOne!* system will provide the

1. Mandatory LargeTransactionDividerGroupType. This type is created to allow breaking up of any large data into multiple transactions, with Feet Ahead concept, where the sender of the large data is providing information about how many total transactions and records to expect, and what is the current transaction number among the total expected transactions etc. as part of this one business transaction.
    a. MessageGroupID – It is a Sequence Number and will remain the same until all the transactions are completed, e.g., MessageGroupID is 10 and until the last transaction is received on this business transaction, the MessageGroupID will remain 10 for all transactions, so the receiver knows that all the transactions with MessageGroupID 10 are one business transaction.
    b. TotalMessageCount - This element tells the receiver that for MessageGroupID of 10 expect a total of X transactions, the X is a positive integer.

Copyright © 2010 USPS®. All Rights Reserved.

c. MessageSerialNumber – Is a serial number that will always start with 1 for every MessageGroupID, so the receiver always know if this is the 1st, 2nd, 3rd transaction from the TotalMessageCount and for the same MessageGroupID.
d. TransmittedRecordCount – is count of records in the current message transaction.
e. TotalRecordsAccrossMessages – This is the total expected record count when the receiver of the MessageGroupID has received all messages LastMessage – is an optional Yes or No indicator confirming for the receiver that this transaction is the last transaction of the MessageGroupID e.g., MessageGroupID 10.

The FullServiceNixieDetailResponse has two major choice blocks one is QueryResults and the other is QueryErrors.

- In QueryResults,

  The customer will receive zero or more FullServiceNixieDetail blocks with job info, original MID information and Nixie address information.

  The customer may also optionally receive Return Codes and Descriptions as part of the Query Results.

- The QueryError Block provides zero or more return codes and descriptions to communicate any issues with the response of the query.

4.18.1 FullServiceNixieDetailQueryResponse Data Structure

Field Description

FullServiceNixieDetailQueryResponse				
Field	**Format**	**Acceptable Values**	**Business Rules**	**Comments**
LargeTransactionDividerGroupType	Attribute	-	-	Refer 'Large Transaction Divider Group Type' in appendix D
Query Result Block BEGIN				
Large Transaction Divider Result Block BEGIN			Optional Block	
Tracking ID	String 12	-	Required when this block data is provided	
Large Transaction Divider Result Block END				
Choice Block Begin				
User License Code	String		Optional	-
Maildat Job ID	String	-	Optional	-
Customer Group ID	String, 25 character	-	Optional	-
Mailing Group ID	Non Negative Integer	-	Optional	-
Choice Block END				

Copyright © 2010 USPS®. All Rights Reserved.

FullServiceNixieDetailQueryResponse				
Field	**Format**	**Acceptable Values**	**Business Rules**	**Comments**
FullServiceNixieDetail	Complex	-	Optional 0 to many	Refer 'Full Service Nixie Detail' complex in appendix D
ReturnInfo	Complex	-	Optional	Refer 'ReturnInfo' complex in appendix D
Query Result Block END				
Query Error Block BEGIN				
ReturnInfo	Complex	-	Optional	Refer 'ReturnInfo' complex in appendix D
Query Error Block END				

4.19 FullServiceStartTheClockNotification

The purpose of this message is to provide notification to customers with the StartTheClock information

Prerequisites

Mailer has subscribed to receive StartTheClock Notification messages
Mailer submits Mail.dat jobs or Mail XML eDoc messages to *PostalOne!*
USPS validates Mail.XML messages
USPS processes the Mail.dat jobs or Mail.XML messages, generates postage, and reports
Postage statement finalization exposes data to SASP
USPS interprets eDoc information, and performs Full Service verification
USPS determines Data Recipients and Start-the-Clock
USPS sends Mailer Feedback to *PostalOne!*
USPS Checks the availability of Start the Clock data to the Mailer
USPS pushes the notification message to the Mailer's web service end point

Business Rules

If the customer has registered with the *PostalOne!* system to receive the message, the *PostalOne!* system will provide a date of notification and will provide the job information, either the Mail.dat Job ID and User License Code, OR the Customer Group ID and MailingGroupID for Mail.XML/Postal Wizard to the customer, so the customer can use the Job information in his/her Query request.

4.19.1 FullServiceStartTheClockNotification Data Stucture

Field Description

FullServiceStartTheClockNotification				
Field	**Format**	**Acceptable Values**	**Business Rules**	**Comments**

Copyright © 2010 USPS®. All Rights Reserved.

FullServiceStartTheClockNotification				
Field	**Format**	**Acceptable Values**	**Business Rules**	**Comments**
SubmittingParty	Complex	-	Required.	Refer 'Submitting Party' complex type in appendix C
SubmittingSoftware	Complex	-	Required.	Refer 'Submitting Party' complex type in appendix D
DataRecipient	Complex	-	Optional	Refer 'Data Recipient' complex in appendix D
User License Code	String, 1 to 4 length		Required when 8-02 version is used	
Maildat Job ID	String, 1 to 8 length	-	Required when 8-02 version is used	
Customer Group ID	String, 25 character	-	Required when Mail.XML version is used	
Mailing Group ID	Non Negative Integer	-	Required when Mail.XML is used	
Notification Date	Date	YYYY-MM-DD	Required	

4.20 FullServiceStartTheClockDelivery

The purpose of this message is to deliver the StartTheClock data to recipient server i.e. customer's server

Prerequisites

Mailer has subscribed to receive StartTheClock Delivery messages
Mailer submits Mail.dat jobs or Mail XML eDoc messages to *PostalOne!*
USPS validates Mail.XML messages
USPS processes the Mail.dat jobs or Mail.XML messages, generates postage, and reports
Postage statement finalization exposes data to SASP
USPS interprets eDoc information, and performs Full Service verification
USPS determines Data Recipients and Start-the-Clock
USPS sends Mailer Feedback to *PostalOne!*
USPS Checks the availability of Start the Clock data to the Mailer
USPS pushes Start The Clock delivery data to the Mailer's web service end point

Business Rules

Copyright © 2010 USPS®. All Rights Reserved.

If the customer has registered with the *PostalOne!* system to receive the message, the *PostalOne!* system will provide the:

Job information, either the Mail.dat Job ID and User License Code, OR the Customer Group ID and MailingGroupID for Mail.XML/Postal Wizard to the customer.

Zero or more StartTheClockBMEUBlock blocks for the job

Zero or more StartTheClockDropShipBlock blocks for the job

Zero or more StartTheClockPlantLoadBlock blocks for the job

In addition, optional return Info block in case of issues or no data found. All return codes and their descriptions for the Response messages will be made available by the USPS for implementation based upon the schedule made available in the External Timeline for IM implementation document.

4.20.1 FullServiceStartTheClockDelivery Data Structure

Field Description

FullServiceStartTheClockDelivery				
Field	**Format**	**Acceptable Values**	**Business Rules**	**Comments**
SubmittingParty	Complex	-	Required.	Refer 'Submitting Party' complex type in appendix D
SubmittingSoftware	Complex	-	Required.	Refer 'Submitting Party' complex type in appendix D
DataRecipient	Complex	-	Optional	Refer 'Data Recipient' complex in appendix D
User License Code	String, 1 to 4 Length		Required when 8-02 version is used	-
Maildat Job ID	String, 1 to 8 length	-	Required when 8-02 version is used	-
Customer Group ID	String, 25 character	-	Required when Mail.XML version is used	-
Mailing Group ID	Non Negative Integer	-	Required when Mail.XML is used	-
Push Message ID	String, Length 25	-	Optional	-
ClockStarted	Complex	-	Required	Refer 'Clock Started' complex in Appendix D

Copyright © 2010 USPS®. All Rights Reserved.

4.21 FullServiceStartTheClockQueryRequest

This message is sent by customer to pull StartTheClock data

Prerequisites

Customer uses Mail.XML 7.0C spec
USPS validates the request messages
USPS retrieves the data based on the search criteria provided in the request
USPS returns response to the Customer

Business Rules

With each StartTheClockQueryRequest message, the customer needs to provide information for all required blocks.

1. SubmittingParty – The *PostalOne!* system for all data distribution for full-service messages, i.e., non-FAST, non-eDoc messages, will only accept a MID or a CRID as a valid id.
2. SubmittingSoftware – The *PostalOne!* system for messages that it receives from the customer for the Mail.XML will always require
   a. A valid software name in the SoftwareName element
   b. A valid software vendor company name in the vendor element
   c. The most current version number of the software in the Version element
   d. A valid Approval Date and a valid Approval Key in the ApprovalDate and ApprovalKey elements. The approval date is the date when the USPS approved the software usage in the USPS production environment and a valid Approval Key is what the USPS provided to the Software Vendor or Mailer (who may have developed their own software) as authorization to use in all messages.
3. The FAST appointment ID or the CSA Dispatch ID, created by the FAST system, can be provided optionally in the ConsigneeApptID or CSADispatchNumber elements respectively.
4. The job information can also be provided optionally, either the Mail.dat Job ID and User License Code, OR the Customer Group ID and MailingGroupID for Mail.XML/Postal Wizard by the customer.
5. The customer can also optionally provide the Permit information or publication number information to receive the StartTheClock data in PermitNumber, PermitType, and PermitZip4 elements or in the PublicationNumber element.
6. The customer must provide a date range in the LowerDateRange and UpperDateRange elements for all query requests.

4.21.1 FullServiceStartTheClockQueryRequest Data Structure

Field Description

FullServiceStartTheClockQueryRequest				
Field	**Format**	**Acceptable Values**	**Business Rules**	**Comments**
Submitting Party Block	Complex	-	Required	Refer Appendix D
Submitting Software Block	Complex	-	Required	Refer appendix D
Choice Block BEGIN			Optional	

Copyright © 2010 USPS®. All Rights Reserved.

FullServiceStartTheClockQueryRequest				
Field	**Format**	**Acceptable Values**	**Business Rules**	**Comments**
Consignee Appt ID	String, Length 12	-	Required Choice between this field and CSA Dispatch Number	-
CSA Dispatch Number	String 10	-	Required Choice between this field and CSA Dispatch Number	-
Choice Block END				
Choice BLOCK BEGIN			Optional	
User License Code	String, 4		Required when 8-02 version is used	-
Maildat Job ID	String, 8	-	Required when 8-02 version is used	-
Customer Group ID	String, 25 character	-	Required when Mail.XML version is used	-
Mailing Group ID	Non Negative Integer	-	Required when Mail.XML is used	-
CustomerAccount	Complex Mailxml:permitPublicationDataType	-	Required when providing Permit Number and Permit Zip4 data	Refer 'permit publicationDataType' complex in appendix D
Lower Date Range	Date	YYYY-MM-DD	Required	This date is a *PostalOne!* date starting in March 2010 to make sure time delay issues when the data is received by PostalOne! don't have any impact to the customer querying the data.

Copyright © 2010 USPS®. All Rights Reserved.

FullServiceStartTheClockQueryRequest				
Field	**Format**	**Acceptable Values**	**Business Rules**	**Comments**
Upper Date Range	Date	YYYY-MM-DD	Required	-See Lower Date Range comment above.

4.22 FullServiceStartTheClockQueryResponse

This message contains StartTheClock data and is sent upon receiving the request message

Prerequisites

Customer uses Mail.XML 7.0C spec
USPS validates the request messages
USPS retrieves the data based on the search criteria provided in the request
USPS returns response to the Customer

Business Rules

The StartTheClockQuery Response has two major choice blocks one is QueryResults and the other is QueryErrors.

1. In QueryResults,

   Data will be filtered based on the request criteria

   The job information will be returned by the USPS *PostalOne!* system, and the Mail.dat Job information will be returned or Mail.XML job information will be returned. The Mail.dat Job ID and User License Code elements represent Mail.dat information and the Customer Group ID and MailingGroupID represent the Mail.XML/Postal Wizard information.

   The customer will receive one or more ClockStarted blocks. The block includes StartTheClockBMEUBlock, StartTheClockPlantLoadBlock, and StartTheClockDropShipBlock.

   The USPS as part of the QueryResults to communicate any issues can return an optional ReturnCode and Description.

2. The QueryError Block provides zero or more return codes and descriptions to communicate any issues with the response of the query.

4.22.1 FullServiceStartTheClockQueryResponse Data Structure

Field Description

FullServiceStartTheClockQueryResponse				
Field	**Format**	**Acceptable Values**	**Business Rules**	**Comments**
Query Result Block BEGIN	-	-	-	
Sequence Block BEGIN			1 to many	
LargeTransactionDivider BEGIN			Optional	
TrackingID	String 12	-	-	-
LargeTransactionDivider BEGIN				
Choice Block BEGIN				

Copyright © 2010 USPS®. All Rights Reserved.

FullServiceStartTheClockQueryResponse				
Field	**Format**	**Acceptable Values**	**Business Rules**	**Comments**
User License Code	String, 4		Required when 8-02 version is used	-
Maildat Job ID	String, 8	-	Required when 8-02 version is used	-
Customer Group ID	String, 25 character	-	Required when Mail.XML version is used	-
Mailing Group ID	Non Negative Integer	-	Required when Mail.XML is used	-
Choice Block END				
Sequence Block BEGIN			1 to many	
ClockStarted	Complex	-	Required	Refer 'ClockStarted' complex in appendix D
ReturnInfo	Complex	-	Optional	Refer 'ReturnInfo' complex in appendix D
QueryResults Block END				
Sequence Block END				
Query Error Block BEGIN				
ReturnInfo	Complex	-	Required	Refer 'ReturnInfo' complex in appendix D
Query Error Block END				

Copyright © 2010 USPS®. All Rights Reserved.

5. Appendix A – Mail.XML 8.1 Complex and Attribute Groups Definitions

5.1 Complex Type: AddressType

Field	Format	Acceptable Value	Business Rules	Comments
CommunicationRole	Attribute	From, To, CC	Optional Attribute	
Address1	String 64		Required	
Address2	String 64		Optional	
Address3	String 40		Optional	
Address4	String 40		Optional	
City	String 45		Required	
County	String 45		Optional	
State	mailxml_base:stateCode	Refer 'stateCode' simple type	Required	Refer Appendix E
ZipCode	Numeric String 9		Required	
GPSCoordinates	Complex	-	Optional	Refer 'GPS Coordinates' complex in appendix D

5.2 Complex Type: addressCorrectionAddressType

Field	Format	Acceptable Values	Business Rules	Comments
Address Type	mailxml_base :addressType	Refer 'addressType ' simple type	Optional	Refer Appendix E
Urbanization Name	String	-	Optional	-
Primary Number	String, Length 10	-	Optional	-
Pre Directional	String, Length 2	-	Optional	-
Street Name	String, Length 28	-	Optional	-
Street Suffix	String, Length 4	-	Optional	-
Post Directional	String, Length 2	-	Optional	-
Unit Designator	String, Length 4	-	Optional	-
Secondary Number	String, Length 10	-	Optional	-
City	String, Length 28	-	Optional	-

Copyright © 2010 USPS®. All Rights Reserved.

Field	Format	Acceptable Values	Business Rules	Comments
State	mailxml_base :stateCode	Refer 'stateCode' simple type	Optional	Refer Appendix E
Choice block BEGIN			Optional Choice block	
ZipCode	Numeric String 5	-	Required	This element will be return when *PostalOne!* Received 5 digit zipcode from SASP
OR				
ZipCode	Numeric String 5	-	Required	When Nine digit Zipcode is received from SASP
ZipCode Plus4	Numeric String 4	-	Required	-
OR				
DeliveryPoint11DigitZip	Numeric String 11	-	Required	When 11 Digit zipcode is received from SASP
Choice Block END				

Copyright © 2010 USPS®. All Rights Reserved.

5.3 Complex: ByForConflictType

Field	Format	Acceptable Values	Business Rules	Comments
Choice Block BEGIN			1 to 2 occurrence allowed	Either provide MailOwner Conflict block or MailPreparer Conflict block
MailOwnerConflict Block BEGIN			Required	
Choice Block BEGIN				
MailOwnerCRID	String 15	-	Required	
OR				
MailOwnerMailerID6	String 6	-	Required	
OR				
MailOwnerMailerID9	String 9	-	Required	
OR				
PermitInfo	Complex	-	Required	Refer 'Permit PublicationData Type' complex in Appendix D
Choice Block END				
ConflictReasonCode	String 2	-	Required	
ConflictReasonDescription	String 50	-	Required	
MailOwnerConflict Block END				
MailPreparerConflict Block BEGIN			Required	
Choice Block BEGIN				
MailPreparerCRID	String 15	-	Required	
OR				
MailPreparerMailerID6	String 6	-	Required	
OR				
MailPreparerMailerID9	String 9	-	Required	
Choice Block END				
ConflictReasonCode	String 2	-	Required	
ConflictReasonDescription	String 50	-	Required	
MailPreparerConflict Block END				
Choice Block END				
ReturnInfo	Complex	-	Optional	Refer 'ReturnInfo' complex in Appendix D

5.4 Attribute: CastOfCharacterResponseHeaderInfo

Field	Format	Acceptable Values	Business Rules	Comments
Original Sender Msg ID	String, 12	-	-	-
Receiver Msg ID	String, 12	-	-	-

Copyright © 2010 USPS®. All Rights Reserved.

5.5 Complex Type: ContainerVisibilityEntry

Field	Format	Acceptable Values	Business Rules	Comments
Choice Block BEGIN	-	-	Optional	-
ConsigneeApptID	String, 10	-	Optional between this field and CSA Dispatch Number	
CSA Dispatch Number	String 10	-	Optional between this field and Mail.XML Appt ID	
Choice Block END				
USPSInductionFacilityLocaleKey	String 9		Optional	-
USPSInductionFacilityName	String 50		Optional	-
IntelligentMailContainerBarcode	mailxml_base:IMCBType	String (21 to 24)	Optional	-
ContainerScanDateTime	xs:dateTime	YYYY-MM-DDTHH:MM:SS	Required	-
InductionStatus	mailxml_base:inductionStatusType	Refer 'inductionStatusType' simple type	Optional	Refer Appendix E
InductionIssueDescription	mailxml_base:s50	-	Optional	-
InductionIssueResolution	mailxml_base:s50	-	Optional	-
FullServiceComplianceIndicator	Boolean	Yes or No	Optional	Added based on errata
FullServiceNonComplianceReasonCode	mailxml_base:reasonCodeType	Refer 'reasonCodeType' simple type	Optional	Refer Appendix E

5.6 Complex Type: ClockStarted

Field	Format	Acceptable Values	Business Rules	Comments
CLOCK STARTED BLOCK BEGIN				
StarttheclockBMEUBlock Begins	0 to Unbounded	-	Optional	-
PublicationNumber	mailxml_base:ns09	-	Optional	-
MailClass	mailxml_base:mailClassType	Refer 'mailClassType' simple type	Optional	Refer Appendix E
OriginFacilityName	String 50	-	Optional	
OriginFacilityLocaleKey	String 9	-	Optional	-

Copyright © 2010 USPS®. All Rights Reserved.

Field	Format	Acceptable Values	Business Rules	Comments
ArrivalDateTime	xs:dateTime	YYYY-MM-DDTHH:MM:SS	Optional	-
StartTheClockDate	xs:date	YYYY-MM-DD	Required	-
FullServiceCompliance Indicator	Boolean	Yes or No	Optional	Added based on errata
FullServiceNonCompliance ReasonCode	mailxml_base:reasonCodeType	Refer 'reasonCode Type' simple type	Optional	Refer Appendix E
StarttheclockBMEUBlock End				
StarttheclockDropShip Block BEGIN				
ConsigneeApptID	Mailxml_base:s10	String 10	Optional between this field and CSA Dispatch Number	-
CSA Dispatch Number	Mailxml_base:ns10	Numeric String10	Optional between this field and Mail.XML Appt ID	
PublicationNumber	mailxml_base:s08	String 8	Optional	-
MailClass	mailxml_base:mailClassType	Refer 'mailClassType' simple type	Optional	Refer Appendix E
UspsInductionFacilityName	String 50	-	Optional	-
UspsInductionFacilityLocaleKey	String 9	-	Optional	-
ApptDateTime	xs:dateTime	YYYY-MM-DDTHH:MM:SS	Optional	-
ArrivalDateTime	xs:dateTime	YYYY-MM-DDTHH:MM:SS	Optional	-
UnloadStartDateTime	xs:dateTime	YYYY-MM-DDTHH:MM:SS	Optional	-
UnloadEndDateTime	xs:dateTime	YYYY-MM-DDTHH:MM:SS	Optional	-

Copyright © 2010 USPS®. All Rights Reserved.

Field	Format	Acceptable Values	Business Rules	Comments
ApptStatus	mailxml_base:apptStatusType	Refer 'apptStatusType' simple type	Optional	Refer Appendix E
StartTheClockDate	xs:date	YYYY-MM-DD	Optional	-
FullServiceCompliance Indicator	Boolean	Yes or No	Optional	Added based on errata
FullServiceNonCompliance ReasonCode	mailxml_base:reasonCodeType	Refer 'reasonCode Type' simple type	Optional	Refer Appendix E
StarttheclockDropShip Block END				
StarttheclockPlantLoad Block START			0 to many	
CSA Dispatch Number	Mailxml_base:s10	String 10	Optional between this field and Mail.XML Appt ID	
Publication Number	Mailxml_base:s08	String 8	Optional	-
Mail Class	Mailxml_base:mailClassType	Refer 'mailClassType' simple type	Optional	Refer Appendix E
Origin Facility Name	String 50	-	Optional	
Origin Facility Locale Key	mailxml_base:localeKeyType	String 9	Optional	-
Mail Released Date Time	Date/Time	YYYY-MM-DDTHH:MM:SS	Optional	-
Start The Clock Date	Date	YYYY-MM-DD	Optional	-
FullServiceCompliance Indicator	Boolean	Yes or No	Optional	Added based on errata
FullServiceNonCompliance ReasonCode	mailxml_base:reasonCodeType	Refer 'reasonCode Type' simple type	Optional	Refer Appendix E
CLOCK STARTED BLOCK END				

5.7 Complex Type: CofCCreateRejectType

Field	Format	Acceptable Values	Business Rules	Comments

Copyright © 2010 USPS®. All Rights Reserved.

Field	Format	Acceptable Values	Business Rules	Comments
Choice Block BEGIN			Choice is to either to return the MailPiece Group or Container Group block data or job info	
Choice Block Begin				
User License Code	String		Required when 8-02 version is used	-
Maildat Job ID	String	-	Required when 8-02 version is used	-
Customer Group ID	String, 25 character	-	Required when Mail.XML version is used	-
Mailing Group ID	Non Negative Integer	-	Required when Mail.XML is used	-
Choice Block END				
MailPieceGroup	Complex	-	Required System can return 1 to many MailPiece Group block data	Refer 'mailPiece Group Create Type' complex in appendix D
ContainerGroup			Required system can return 1 to many Container Group block data	Refer 'group Container IDType' complex in appendix D
Choice Block END				
ReturnInfo	Complex	-	Optional	Refer 'ReturnInfo' complex in appendix D

5.8 Complex Type: containerGroupType

Field	Format	Acceptable Values	Business Rules	Comments
Attribute Block BEGIN				
SenderMailPieceGroupID	String 12	-	-	-
ReceiverMailPieceGroupID	String 12	-	-	-
Attribute Block END				

Copyright © 2010 USPS®. All Rights Reserved.

5.9 Complex Type: CRIDEntryType

Field	Format	Acceptable Value	Business Rules	Comments
CompanyName	String 40		Required	
PermitPublicationData	Complex	-	Optional	Refer 'Permit PublicationData Type' complex in appendix D
CompanyHQIndicator	Boolean	Yes, No	Optional	
Address	Complex	-	Required	Refer 'Address Type' complex in appendix D
AddressMatch	Boolean	Yes, No	Required	
ApplyingForSelf	Boolean	Yes, No	Required	
LegalAcknowledgement Block	Complex	-	Optional	Refer 'Legal Acknowledgment Block' complex in appendix D

5.10 Complex Type: DataRecipient

Field	Format	Acceptable Values	Business Rules	Comments
CRID	String, 15		Required	
Roles	Mailxml_base: RoleType	Refer 'roleType' simple type	Required	Refer Appendix E

5.11 Complex Type: FSDQRContainerInfoType

Field	Format	Acceptable Value	Business Rules	Comments
ContainerID	String 6		Optional	
ParentContainerID	String 6		Optional	
ProcessingCategory	Mailxml_base:processing CategoryType	Refer 'processingCategoryType' simple type	Optional	Refer Appendix E
MailClass	String	1, 2, 3, 4, 6	Optional	

Copyright © 2010 USPS®. All Rights Reserved.

Field	Format	Acceptable Value	Business Rules	Comments
USPSInductionFacilityLocaleKey	String 9		Optional	
MailingDate	xs:dateTime	YYYY-MM-DDTHH:MM:SS	Optional	
ContainerType	mailxml_base:mailXMLContainerType	Refer 'mailXMLContainerType' simple type	Optional	Refer Appendix E
IMCB	String	Either 24 characters or 21 characters	Optional	
IMTB	String 25		Optional	
CSAID	String 10		Optional	
ConsigneeAppointmentID	String 12		Optional	
VerificationError	Complex mailxml:verificationErrorType		Optional 0 to many	Refer 'Verification ErrorType' complex in appendix D
Sequence BEGIN			Optional 0 to many	
PreparerCRID	String 15		Optional	
OwnerCRID	String 15		Optional	
Sequence END				
Choice Block BEGIN		0 to many		
PieceInfo Block BEGIN		0 to many		
PhysicalPieceID	String 22		Required	
IMB	String 24 to 34	Either 34 characters or 20 characters	Required	
OwnerCRID	String 15		Required	
PreparerCRID	String 15		Required	
VerificationError	Complex mailxml:verificationErrorType	1 to many	Required	Refer 'Verification ErrorType' complex in appendix D
PieceInfo Block END				
OR				
PieceRangeInfo Block BEGIN			Optional	
PieceRangeID	String 22		Required	
IMBUpperSerialization	String 18		Required	
IMBLowerSerialization	String 18		Required	

Copyright © 2010 USPS®. All Rights Reserved.

Field	Format	Acceptable Value	Business Rules	Comments
MailClass	mailxml_base:mailClass Type	Refer 'mailClassTy pe' simple type	Required	Refer Appendix E
OwnerCRID	String 15		Required	
PreparerCRID	String 15		Required	
VerificationError	Complex mailxml:verificationError Type	1 to many	Required	Refer 'Verification ErrorType' complex in appendix D
PieceRangeInfo Block END				
Choice Block END				

5.12 Complex Type: FullServiceNixieDetail

Field	Format	Acceptable Values	Business Rules	Comments
Choice Block BEGIN			OPTIONAL	
Original Mailer ID 6	String, Length 6	-	Required. CHOICE between this field and Original Mailer ID 9	-
Original Mailer ID 9	String, Length 9	-	Required. CHOICE between this field and Original Mailer ID 6	
Choice Block END				
Original IMB	String, Min Length 20 and Max Length 34	-	Optional	-
Record Creation Date	Date	YYYY-MM-DD	Optional	-
Action Code	mailxml_base :actionCodeT ype	Refer 'actionCodeT ype' simple type	Optional	Refer Appendix E
Parsed Address On Piece	String	-	Optional	-
On Piece CityStateZip	String	-	Optional	-
Returned To Address	String	-	Optional	
Returned to CityStateZip	String	-	Optional	-

Copyright © 2010 USPS®. All Rights Reserved.

Field	Format	Acceptable Values	Business Rules	Comments
Reason Code	Mialxml_base :reasonCode Type	Refer 'reasonCode Type' simple type	Optional	Refer Appendix E
Keyline From EDoc	String	-	Optional	-
Class Notification Type	Mailxml_base :classNotifica tionType	Refer 'classNotificat ionType' simple type	Optional	Refer Appendix E
Fee Notification	Boolean	Yes/No	Optional	-
FullServiceCompliance Indicator	Boolean	Yes or No	Optional	Added based on errata
FullServiceNon ComplianceReasonCode	mailxml_base :reasonCode Type	Refer 'reasonCode Type' simple type	Optional	Refer Appendix E
ReturnInfo	Complex	-	Optional	Refer 'ReturnInfo' complex in Appendix D

5.13 Complex Type: GPSCoordinates

Field	Format	Acceptable Value	Business Rules	Comments
GPSSystem	mailxml_base:gPSSystemType	Refer 'gPSSYstemType' simple type	Optional Attribute	Refer Appendix E
Latitude	mailxml_base:dec18-8	Refer 'dec18-8' simple type	Required	Refer Appendix E
Longitude	mailxml_base:dec18-8	Refer 'dec18-8' simple type	Required	
Height bock BEGIN	mailxml:measurementType		Optional	
Value block BEGIN	mailxml_base:dec18-8	Refer 'dec18-8' simple type	Required	
UOM	mailxml_Base:UOMType	Refer 'UOMType' simple type	Required Attribute	Refer Appendix E
Value Block END				
RangeMin Block BEGIN	mailxml_base:dec18-8	Refer 'dec18-8' simple type	Optional	

Copyright © 2010 USPS®. All Rights Reserved.

Field	Format	Acceptable Value	Business Rules	Comments
UOM	mailxml_Base:UOMType	Refer 'UOMType' simple type	Required Attribute	
RangeMin Block END				
RangeMax Block BEGIN	mailxml_base:dec18-8	Refer 'dec18-8' simple type	Optional	
UOM	mailxml_Base:UOMType	Refer 'UOMType' simple type	Required Attribute	
RangeMax Block END				
Height bock END				

5.14 Complex Type: groupContainerIDType

Field	Format	Acceptable Values	Business Rules	Comments
Attribute Block BEGIN				
SenderMailPieceGroupID	String 12	-	Required	-
ReceiverMailPieceGroupID	String 12	-	Optional	-
Attribute Block END				
Choice Block BEGIN			1 to many	
MailDatContainer	Mailxml:MailDatContainer		Required	Refer 'mailDat ContainerID Type' complex in Appendix D
Mail.XML Container	Mailxml:mailXMLContainer		Required	Refer 'Mail.XML ContainerID Type' complex in Appendix D
ContainerBarcode	String 24		Required	-
Choice Block END				

5.15 Complex Type: intelligentMailBarcodeType

Field	Format	Acceptable Values	Business Rules	Comments
BarcodeID	mailxml_base:iMBarcodeIDType	Numeric string 2	Optional	
Choice Block BEGIN			Optional	
ServiceTypeCode	mailxml_base:ServiceTypeCodeType	Numeric string 3	Required	
OR				

Copyright © 2010 USPS®. All Rights Reserved.

Field	Format	Acceptable Values	Business Rules	Comments
MailClass	mailxml_base:mailClassType	Refer 'mailClassType' simple type	Required	Refer Appendix E
Choice Block END				
Choice Block BEGIN				
MailerID6	mailxml_base:mailerID6Type	String 6	Required	
SerialNumber9	mailxml_base:iMBSerialNumber9Type	Numeric string 9	Required	
OR				
MailerID9	mailxml_base:mailerID9Type	String 9	Required	
SerialNumber6	mailxml_base:iMBSerialNumber6Type	Numeric string 6	Required	
OR				
DeliveryPointZIP	mailxml_base:RoutingZipCodeType	String 11	Optional	
Choice Block END				

5.16 Attribute Group: LargeTransactionDividerGroupType

5.17 Attribute Group: LargeTransactionDividerGroupOptionalType

Field	Format	Acceptable Values	Business Rules	Comments
Message Group ID	String, Length 20	-	Optional	-
Total Message Count	Positive Integer	-	Optional	-
Message Serial Number	Positive Integer	-	Optional	-
Transmitted Record Count	Positive Integer	-	Optional	-
Total Records Across Message	Positive Integer	-	Optional	-
Last Message	Boolean	Yes/No	Optional	-

5.18 Complex Type: LegalAknowledgmentBlockMIDType

Field	Format	Acceptable Value	Business Rules	Comments
UnderstandLegalLiabilityForApplyingForSomeOneElse	Boolean	Yes, No		
AcknowledgeNotifyingTheMailOwner	Boolean	Yes, No		

Copyright © 2010 USPS®. All Rights Reserved.

Field	Format	Acceptable Value	Business Rules	Comments
USPSLegalAgreement	String		**Required** Mail Owner Agreement:This pertains to the services being requested on behalf of the Mail Owner identified on the Mailer ID (MID) and Customer Registration ID (CRID) application to the United States Postal Service (USPS) by the named Mailing Agent.- a. I acknowledge that my Mailing Agent has reviewed the terms and condition regarding online account access and mailer identification requirements. - b. I acknowledge that I was advised that I could obtain details or ask questions from the USPS of where my accounts are held. -c. I understand that my Mailing Agent will have access to all information, including financial data relating to the accounts to which I grant access. -d. I understand that by signing this agreement I am authorizing the Mailing Agent identified below to act on behalf of my organization to request and obtain services from the USPS. -e. I understand that I will be responsible for all actions performed by my Mailing Agent against my accounts. -f. I have fully read and considered all of the terms and statements contained in this agreement before agreeing with this document. - Mailing Agent Agreement: - g. I understand that I have been granted authorization by the Mail Owner identified on the MID and Customer Registration ID (CRID) applications to act as their Mailing Agent to the USPS and conduct the services requested for business mailing matters on their behalf. - h. I have advised the Mail Owner of the services being requested and what they mean regarding	

Copyright © 2010 USPS®. All Rights Reserved.

Field	Format	Acceptable Value	Business Rules	Comments
			their mailings, accounts, and information access. -i.	

5.19 Complex Type: mailDatContainerIDType

Field	Format	Acceptable Values	Business Rules	Comments
UserLicenseCode	String 4		required	
MaildatJobID	String 8		required	
ContainerID	String 6		required	
UniqueContainerBarcode	String 24		Optional	

5.20 Complex Type: mailPieceGroupType

Field	Format	Acceptable Values	Business Rules	Comments
Attribute Block BEGIN				
SenderMailPieceGroupID	String 12	-	-	-
ReceiverMailPieceGroupID	String 12	-	-	-
Attribute Block END				

5.21 Complex Type: mailPieceGroupCreateType

Field	Format	Acceptable Values	Business Rules	Comments
Attribute Block BEGIN				
SenderMailPieceGroupID	String 12	-	-	-
ReceiverMailPieceGroupID	String 12	-	-	-
Attribute Block END				
Choice Block BEGIN			1 to many	

Copyright © 2010 USPS®. All Rights Reserved.

Field	Format	Acceptable Values	Business Rules	Comments
MailPieceID	Mailxml:mail PieceIDType		Required	Refer 'mailPiece IDType' complex in Appendix D
LowestMailPieceID	Mailxml:mail PieceIDType		Required	Refer 'mailPiece IDType' complex in Appendix D
HighestMailPieceID	Mailxml:mail PieceIDType		Required	Refer 'mailPiece IDType' complex in Appendix D

5.22 Complex Type: mailPieceIDType

Field	Format	Acceptable Values	Business Rules	Comments
Choice Block BEGIN			Optional	
IMB	mailxml:intelligentMailBarcodeType		Required	Refer 'intelligent MailBarcode Type' complex in Appendix D
OR				
PlanetCode	mailxml_base:planetCodeType	Min 11 and Max 13 characters string	Optional	
DeliveryPointZIP	mailxml_base:RoutingZipCodeType	String 11	Required	
OR				
DeliveryContainerID	mailxml_base:ns22	Numeric String 22	Required	
DeliveryPointZIP	mailxml_base:RoutingZipCodeType	String 11	Required	
choice Block END				

5.23 Complex Type: mailXMLContainerIDType

Field	Format	Acceptable Values	Business Rules	Comments
MailingGroupID	Non Negative Integer		required	
CustomerGroupID	String 25		Required	
ContainerID	String 6		Required	
ContainerBarcode	String 24	-	Optional	
Choice Block END				

Copyright © 2010 USPS®. All Rights Reserved.

5.24 Attribute: mailXMLHeaderInfo

Field	Format	Acceptable Values	Business Rules	Comments
User License Code	String		Optional	-
Maildat Job ID	String	-	Optional	-
Customer Group ID	String, 25 character	-	Optional	-
Mailing Group ID	Non Negative Integer	-	Optional	-

5.25 Complex: MidEntryType

Field	Format	Acceptable Value	Business Rules	Comments
CustomerCRID	String 15	-	Required	-
CustomerName	String		Optional	
PermitPublicationData	Complex	-	Optional	Refer 'PermitPublication DataType' complex in appendix D
CompanyHQIndicator	Boolean	Yes, No	Optional	
Address1	String 64		Optional	
Address2	String 64		Optional	
City	String 50		Optional	
State	String 2		Optional	
ZipCode	Numeric String 5		Optional	
SequenceNumber	Integer		Optional	
ApplyingForSelf	Boolean	Yes, No	Required	
LegalAcknowledgment Block	Complex	-	Optional	Refer 'Legal Acknowledgment BlockMIDType' complex in appendix D

5.26 Complex: MIDType

Field	Format	Acceptable Value	Business Rules	Comments
MID6	String 6		Required	
OR				
MID9	String 9		Required	

5.27 Complex Type: permitPublicationDataType

Field	Format	Acceptable Values	Business Rules	Comments

Copyright © 2010 USPS®. All Rights Reserved.

Field	Format	Acceptable Values	Business Rules	Comments
Permit Number	String, 8	-	Required, when providing Permit Number and Permit Zip4 data	-
Permit Type	mailxml_base :permitTypeType	Refer 'permitTypeType' simple type	Optional	Refer Appendix E
Permit Zip4	Numeric String, 9	-	Required when providing Permit Number and Permit Zip 4 data	
Publication Number	String, 8	-	Either provide Permit Number, Permit Type 4 and optional Permit Type OR this field.	-

5.28 Complex Type: ReturnInfo

Field	Format	Acceptable Values	Business Rules	Comments
Return Code	Numeric String – Length 4	-	Optional	
Return Description	String, Length 260	-	Required	

5.29 Complex Type: SubmittingParty, participantIDType

Field	Format	Acceptable Values	Business Rules	Comments
MailerID6	Numeric String, 6		Not required (attribute) Either MailerID6 or MailerID9 can be provided, not both	
MailerID9	Numeric String, 9		Not required (attribute) Either MailerID6 or MailerID9 can be provided, not both	
CRID	String, 1 to 15 length		Not required (attribute), Either CRID or MID can be provided for authorization	
SchedulerID	String, 12		Not supported for eDoc messages	
MaildatUserLicense	String, 1 to 4 Length		Not supported for eDoc messages	

5.30 Complex Type: SubmittingSoftware

Copyright © 2010 USPS®. All Rights Reserved.

Field	Format	Acceptable Values	Business Rules	Comments
SoftwareName	String		Required	
Vendor	String		Required	
Version	String		Required	
ApprovalDate	Date	YYYY-MM-DD	Not required	Changed the type to 'Date' based on errata
ApprovalKey	String		Not required	

5.31 Complex Type: VerificationErrorType

Field	Format	Acceptable Value	Business Rules	Comments
VerificationErrorCode	Numeric String 4		Optional	
VerificationError Description	String 260		Optional	

Copyright © 2010 USPS®. All Rights Reserved.

6. Mail.XML 8.1 Simple Types Data Structures

The simple types below list variation of validation in Mail.XML for each version of the Mail.XML (i.e. 9.0B, 9.0C, and 10.0). A column highlighted in YELLOW indicates that there is at least one change made from previous version. For example – if Mail.XML 9.0B column is highlighted in YELLOW, it means that at least one change is made in v10.0 from v9.0C. Another variation in the table below is when both v9.0C and v10.0 columns are highlighted in YELLOW. It means that there is at least one change made in v9.0C from v8.0B and then there was another change made in v10.0 from v8.0B.

NOTE#1: Mail.XML 6.0D version will no longer be supported from January 2011 thus all of the references of 6.0D have been removed from this guide including the simple types definitions.

NOTE#2: Mail.XML 7.0C and 8.0B versions will no longer be supported from October 2011 thus all of the references of 7.0C and 8.0B have been removed or limited to the minimum possible from this guide including the simple types definitions.

NOTE3: The Simple Types table of Mail.XML 11.0 are still at the draft phase. To be finalized upon further review.

6.1 simpleType: actionCodeType

simpleType: actionCodeType	
Tag	**Mail.XML 8.1**
Base	xs:string
enumeration	F = Forwarded
enumeration	W = Wasted
enumeration	R = Returned
enumeration	U = Unable to determine action

6.2 simpleType: addressCorrectionMoveType

Tag	Mail.XML 8.1
Base	xs:string
enumeration	F = Family Move
enumeration	I = Individual Move
enumeration	B = Business Move

6.3 simpleType: additionalInHomeRangeType

Tag	Mail.XML 8.1
Base	mailxml_base:n01

6.4 simpleType: adjustmentStatusType

Tag	Mail.XML 8.1
Base	xs:string
enumeration	R = Ready to Pay
enumeration	X = Paid
enumeration	C = Cancel

Copyright © 2011 USPS®. All Rights Reserved.

enumeration	P = Preliminary Postage Statement
enumeration	T = Transportation

6.5 simpleType: adjustmentType

Tag	Mail.XML 8.1
Base	xs:string
enumeration	1 = Re-order in excess of tolerance
enumeration	2 = “Average Remail” Add-on
enumeration	3 = Spoilage
enumeration	4 = Shortage

6.6 simpleType: agencyCostCodeType

Tag	Mail.XML 8.1
Base	xs:string
pattern	[0-9]{5}|[0-9]{6}

6.7 simpleType: apptMethodType

Tag	Mail.XML 8.1
Base	xs:string
enumeration	Online
enumeration	Phone
enumeration	Webservices - Detail
enumeration	Webservices - No Detail

6.8 simpleType: apptStateType

Tag	Mail.XML 8.1
Base	xs:string
enumeration	Scheduled
enumeration	Arrived
enumeration	ApptValidated
enumeration	WaitingToBeUnloaded
enumeration	Unloading
enumeration	FinishedUnloading
enumeration	ResolvingProblems
enumeration	Rejected
enumeration	Closed

6.9 simpleType: apptStatusType

Tag	Mail.XML 8.1
Base	xs:string
enumeration	Open
enumeration	Closed
enumeration	No Show

Copyright © 2011 USPS®. All Rights Reserved.

enumeration	Unscheduled
enumeration	Rejected

6.10 simpleType: apptTypeType

Tag	Mail.XML 8.1
Base	xs:string
enumeration	Pallet
enumeration	DropAndPick
enumeration	Speedline
enumeration	Bedload

6.11 simpleType: barcodeRateType

Tag	Mail.XML 8.1
Base	xs:string
enumeration	Y = Yes
enumeration	N = No
enumeration	O = Other

6.12 simpleType: billReasonCodeType

Tag	Mail.XML 8.1
Base	xs:string
enumeration	E
enumeration	F
enumeration	M
enumeration	N

6.13 simpleType: bundleDetailLevelType

Tag	Mail.XML 8.1
Base	xs:string
enumeration	A = Firm
enumeration	B = Carrier Route
enumeration	C = 5-Digit
enumeration	D = Unique 3-Digit
enumeration	E = (Reserve for future)
enumeration	F = 3-Digit
enumeration	G = (Reserve for future)
enumeration	H = ADC
enumeration	I = AADC
enumeration	J = (Reserve for future)
enumeration	K = Origin MxADC
enumeration	L = MxADC
enumeration	M = MxAADC
enumeration	N = (Reserve for future)
enumeration	O = Working
enumeration	P = (Reserve for future)
enumeration	Q = (Reserve for future)
enumeration	R = Parcel

Copyright © 2011 USPS®. All Rights Reserved.

enumeration	S = Multi-Piece Parcel
enumeration	T = 3D Scheme
enumeration	U = 5D Scheme + L007
enumeration	V = NDC (previously as BMC)
enumeration	W = 5-Digit Super Scheme
enumeration	

6.14 simpleType: bundleLevelType

Tag	Mail.XML 8.1
Base	Removed
enumeration	
enumeration	

6.15 simpleType: bundleRecordStatusType

Tag	Mail.XML 8.1
Base	xs:string
enumeration	O = Original
enumeration	D = Delete
enumeration	I = Insert
enumeration	U = Update

6.16 simpleType: bundleStatusType

Tag	Mail.XML 8.1
Base	xs:string
enumeration	Blank
enumeration	C = Cancel

6.17 simpleType: canadaAdMailOnlyType

Tag	Mail.XML 8.1
Base	Does not exists
enumeration	
enumeration	

6.18 simpleType: chargeableBundleLevelType

Tag	Mail.XML 8.1
Base	xs:string
enumeration	3 = 3-Digit/SCF
enumeration	5 = 5-Digit/Carrier Route
enumeration	A = ADC/AADC
enumeration	C = Carrier Route
enumeration	F = Firm
enumeration	M = Mixed ADC and Mixed AADC

Copyright © 2011 USPS®. All Rights Reserved.

6.19 simpleType: chargeableContainerType

Tag	Mail.XML 8.1
Base	xs:string
enumeration	Sacks-Trays
enumeration	Pallets

6.20 simpleType: chargeableContainerLevelType

Tag	Mail.XML 8.1
Base	xs:string
enumeration	3 = 3-Digit/SCF
enumeration	5 = 5-Digit/Carrier Route
enumeration	A = ADC/AADC
enumeration	M = Mixed ADC & Mixed AADC

6.21 simpleType: chargeableEntryLevelType

Tag	Mail.XML 8.1
Base	xs:string
enumeration	B = Destination NDC (Previously BMC)
enumeration	C = Origin SCF
enumeration	D = DDU
enumeration	J = Origin ADC
enumeration	K = Origin NDC (previously BMC)
enumeration	O = Origin Post Office/ DMU
enumeration	R = Destination ADC
enumeration	S = Destination SCF

6.22 simpleType: classNotificationType

Tag	Mail.XML 8.1
Base	xs:string
enumeration	A = (Reserved for future use)
enumeration	B = First-Class Mail
enumeration	C = Periodicals, Initial Notification
enumeration	D = Standard Mail
enumeration	E = Package Services
enumeration	F = Periodicals, Follow-up Notifications

6.23 simpleType: closeoutIrregularitiesType

Tag	Mail.XML 8.1
Base	xs:string
enumeration	B = Broken Pallet
enumeration	C = Count don't Match 8125
enumeration	D = Damaged Mail
enumeration	DR = Driver Refused to Assist

Copyright © 2011 USPS®. All Rights Reserved.

enumeration	G = Good
enumeration	IA = Improper Appointment Type
enumeration	IM = Improper Mail Class
enumeration	I = Improper Mail Makeup
enumeration	IF = Incorrect Mail Facility
enumeration	L = Load Unsafe
enumeration	M = Mailing not separated by 8125
enumeration	MI = Miscellaneous
enumeration	NP = No Paperwork (Missing Paperwork)
enumeration	O = Others
enumeration	OW = Overweight Pallets
enumeration	NM = Package on NDC non-machinable
enumeration	P = Pallet Too Tall
enumeration	VS = Vehicle Size
enumeration	CP = Courtesy Pallets
enumeration	CM = Container do not match 8017
enumeration	SM = Separation do not match 8107
enumeration	AR = Altered Required Field on Form
enumeration	IO = Incorrect Entry Office
enumeration	MN = Missing Appointment Number
enumeration	MS = Missing Origin Signature and/or Round Stamp
enumeration	MF = Missing Required Mailer Field on Form
enumeration	MA = Multiple Appts Associated to Load
enumeration	NF = No Form with Shipment
enumeration	IP = Incorrect Processing Category
enumeration	PD = Past in Home Date

6.24 simpleType: communicationRoleType

Tag	Mail.XML 8.1
Base	xs:string
enumeration	From
enumeration	To
enumeration	CC

6.25 simpleType: componentIDType

Tag	Mail.XML 8.1
Base	Removed
maxLength	
minLength	
whiteSpace	

6.26 simpleType: componentWeightType

Tag	Mail.XML 8.1
Base	Removed
maxLength	
minLength	
whiteSpace	

Copyright © 2011 USPS®. All Rights Reserved.

6.27 simpleType: componentWeightSourceType

Tag	Mail.XML 8.1
Base	Removed
enumeration	
enumeration	
enumeration	
enumeration	

6.28 simpleType: componentWeightStatusType

Tag	Mail.XML 8.1
Base	Removed
enumeration	
enumeration	
enumeration	
enumeration	

6.29 simpleType: consigneeContentIDType

Tag	Mail.XML 8.1
Base	mailxml_base:s09

6.30 simpleType: containerBundleStatusType

Tag	Mail.XML 8.1
Base	xs:string
enumeration	-1 = Failed
enumeration	0 = Pending
enumeration	1 = Success

6.31 simpleType: container24CharacterBarcodeType

Tag	Mail.XML 8.1
Base	xs:string
maxLength	24
minLength	1
whiteSpace	preserve

6.32 simpleType: IMtbType

Tag	Mail.XML 8.1
Base	Does not exists
maxLength	
minLength	

6.33 simpleType: IMpbType

Copyright © 2011 USPS®. All Rights Reserved.

Tag	Mail.XML 8.1
Base	Does not exists
maxLength	
minLength	

6.34 simpleType: containerAcceptanceDateType

Tag	Mail.XML 8.1
Base	xs:date

6.35 simpleType: cccLevelType

Tag	Mail.XML 8.1
Base	xs:string
enumeration	3 = 3-Digit/SCF
enumeration	5 = 5-Digit/Carrier Route
enumeration	A = ADC/AADC
enumeration	M = Mixed ADC & Mixed AADC

6.36 simpleType: containerGroupingDescriptionType

Tag	Mail.XML 8.1
Base	Removed

6.37 simpleType: containerGrossWeightType

Tag	Mail.XML 8.1
Base	mailxml_base:s05

6.38 simpleType: containerHeightType

Tag	Mail.XML 8.1
Base	mailxml_base:n03

6.39 simpleType: containerLevelType

How to Read:
Each Container Level Type Code shows the English translation of the code. Underneath the code there is “Eligibility Type” codes of “S” for Sack, “T” for Trays and “P” for Pallets. The Mailer must understand that to use any specific container level, the container type must be one of the following: Sack, Tray, or Pallet or all of the following or combination of some. For example – Container Level Code “A” means “CR-Direct” and it can only be used if the container types are: Sack, Tray, and Pallet.

For some Container Level Code – there is an asterisk (*) followed by “Not Supported Enumeration” text. This means that the code is not currently supported by *PostalOne!*

Tag	Mail.XML 8.1
Base	xs:string
enumeration	A = CR-Direct Eligibility Type = S, T, P
enumeration	B = Mixed CR in 5 Digit Eligibility Type = S, T, P

Copyright © 2011 USPS®. All Rights Reserved.

enumeration	C = Mixed CR in 3 Digit Eligibility Type = S, T
enumeration	D = CR – 5D Scheme Eligibility Type = S, T, P
enumeration	E = FSS Scheme
enumeration	F = FSS Facility
enumeration	G = 5 Digit (Auto/Presort) Eligibility Type = S, T, P
enumeration	H = 5 Digit (Merged) Eligibility Type = S, T, P
enumeration	I = 5 Digit (Presort Only) Eligibility Type = S, T, P
enumeration	J = 5 Digit (Barcode Only) Eligibility Type = S, T, P
enumeration	K = Metro Scheme Eligibility Type = P
enumeration	~~L = Mixed RDC~~ ~~*** Not Supported Enumeration**~~
enumeration	M = 5D Scheme (Presort) Eligibility Type = S, T, P
enumeration	N = 5D Scheme (Auto/Presort) Eligibility Type = S, T, P
enumeration	~~O =~~ ~~***Not Supported Enumeration**~~
enumeration	P = 5D Scheme (Barcode) Eligibility Type = S, T, P
enumeration	Q = 5D Scheme (Merged) Eligibility Type = S, T, P
enumeration	R = 3 Digit (Auto, Presort) Eligibility Type = S, T
enumeration	S = 3 Digit (Barcode) Eligibility Type = S, T
enumeration	T = 3 Digit (Presort) Eligibility Type = S, T
enumeration	U = 3 Digit (CR, Auto, Presort) Eligibility Type = S, T, P
enumeration	V = 3 Digit Scheme Eligibility Type = T
enumeration	W
enumeration	X = SCF Eligibility Type = S, P
enumeration	Y = Protected SCF Eligibility Type = P
enumeration	Z = ADC Eligibility Type = S, T, P
enumeration	AA = AADC Eligibility Type = T
enumeration	AB = Mixed ADC Eligibility Type = S, T, P
enumeration	AC = Mixed AADC Eligibility Type = T
enumeration	AD = ASF

Copyright © 2011 USPS®. All Rights Reserved.

	Eligibility Type = S, P
enumeration	AE = NDC (previously known as BMC) Eligibility Type = S, P
enumeration	AF = Protected NDC Eligibility Type = P
enumeration	AG = Mixed NDC Eligibility Type = S, P
enumeration	AH
enumeration	AI
enumeration	AJ = Single Piece Container Eligibility Type = S, T
enumeration	AK = MXDS – Mixed Surface Eligibility Type = P
enumeration	AL
enumeration	AM = Working Eligibility Type = P
enumeration	AN = Single Piece – First Class Eligibility Type = P
enumeration	AO = Surface Eligibility Type = P
enumeration	AP = Air Eligibility Type = P
enumeration	AQ = Local Eligibility Type = P
enumeration	BA = Urban Direct Eligibility Type = S, T
enumeration	BB = Rural Direct Eligibility Type = S, T
enumeration	BC = Station Eligibility Type = S, T, P
enumeration	BD = City Eligibility Type = S, T, P
enumeration	BE = FSA Eligibility Type = P
enumeration	BF = DCF Eligibility Type = S, T, P
enumeration	BG = FCP Eligibility Type = S, T, P
enumeration	BH = Province Eligibility Type = P
enumeration	BI = Residual Eligibility Type = S, T, P
enumeration	BJ = Foreign Eligibility Type = S, T, P
enumeration	BK = Country Eligibility Type = S, T, P
enumeration	BL = Mixed Country Eligibility Type = S, T, P
enumeration	BM = M Bags Eligibility Type = S

6.40 simpleType: containerPickupDateType

Tag	Mail.XML 8.1

Copyright © 2011 USPS®. All Rights Reserved.

Base	xs:date

6.41 simpleType: containerPickupTimeType

Tag	Mail.XML 8.1
Base	xs:time

6.42 simpleType: containerShipDateType

Tag	Mail.XML 8.1
Base	xs:date

6.43 simpleType: containerShipTimeType

Tag	Mail.XML 8.1
Base	xs:time

6.44 simpleType: contactType

Tag	Mail.XML 8.1
Base	xs:string
enumeration	AccountManager
enumeration	Carrier
enumeration	CrossDock
enumeration	CustomerService
enumeration	HelpDesk
enumeration	DropShipCoordinator
enumeration	ApptCoordinator
enumeration	Plant
enumeration	InboundFreightCoordinator
enumeration	SalesOffice
enumeration	TruckDriver
enumeration	Warehouse
enumeration	Other

6.45 simpleType: containerType

Tag	Mail.XML 8.1
Base	Removed
enumeration	
enumeration	
enumeration	
enumeration	

6.46 simpleType: containerStatusType

Tag	Mail.XML 8.1
Base	xs:string
enumeration	Accepted
enumeration	OnHold

Copyright © 2011 USPS®. All Rights Reserved.

enumeration	Rejected

6.47 simpleType: containerHeightSourceType

Tag	Mail.XML 8.1
Base	xs:string
enumeration	A = Actual
enumeration	E = Estimated

6.48 simpleType: cptPeriodicalAdPercentageType

Tag	Mail.XML 8.1
Base	Removed
maxLength	
minLength	
whiteSpace	

6.49 simpleType: cptPeriodicalAdPercentageBasisType

Tag	Mail.XML 8.1
Base	Removed
totalDigits	

6.50 simpleType: cptPeriodicalAdPercentageBasisType

Tag	Mail.XML 8.1
Base	Removed
maxLength	
minLength	
whiteSpace	

6.51 simpleType: CQTdatabaseIDType

Tag	Mail.XML 8.1
Base	xs:nonNegativeInteger
totalDigits	8
whiteSpace	collapse

6.52 simpleType: creditDebitIndicator

Tag	Mail.XML 8.1
Base	xs:string
enumeration	C = Credit
enumeration	D = Debit

6.53 simpleType: CRIDType

Tag	Mail.XML 8.1
Base	xs:string

Copyright © 2011 USPS®. All Rights Reserved.

maxLength	15
minLength	1
pattern	([0-9])*

6.54 simpleType: cRIDStatusType

Tag	Mail.XML 8.1
Base	xs:string
enumeration	New
enumeration	Existing

6.55 simpleType: csaTemplateType

Tag	Mail.XML 8.1
Base	xs:string
enumeration	PVDS-PER
enumeration	DMU-C
enumeration	DMU-P
enumeration	BMEU
enumeration	UPVDS-PER
enumeration	UDMU-C
enumeration	UDMU-P
enumeration	UBMEU
enumeration	U

6.56 simpleType: csaStatusType

Tag	Mail.XML 8.1
Base	xs:string
enumeration	ACT
enumeration	PEN
enumeration	INACT
enumeration	INCOMP
enumeration	PREAPP

6.57 simpleType: databaseContainerIDType

Tag	Mail.XML 8.1
Base	xs:nonNegativeInteger
totalDigits	6

6.58 simpleType: dayFrequencyType

Tag	Mail.XML 8.1
Base	xs:string
enumeration	Daily
enumeration	Monday
enumeration	Tuesday
enumeration	Wednesday
enumeration	Thursday
enumeration	Friday

Copyright © 2011 USPS®. All Rights Reserved.

enumeration	Saturday
enumeration	Sunday

6.59 simpleType: daysOfWeekType

Tag	Mail.XML 8.1
Base	xs:string
enumeration	MON
enumeration	TUE
enumeration	WED
enumeration	THU
enumeration	FRI
enumeration	SAT
enumeration	SUN
enumeration	MF
enumeration	MS
enumeration	ALL
enumeration	H

6.60 simpleType: daysType

Tag	Mail.XML 8.1
Base	Removed
maxInclusive	
minInclusive	

6.61 simpleType: dec03-2

Tag	Mail.XML 8.1
Base	Removed
totalDigits	
fractionDigits	

6.62 simpleType: dec04-3

Tag	Mail.XML 8.1
Base	Removed
totalDigits	
fractionDigits	

6.63 simpleType: dec18-6

Tag	Mail.XML 8.1
Base	Removed
totalDigits	
fractionDigits	

Copyright © 2011 USPS®. All Rights Reserved.

6.64 simpleType: dec10-4

Tag	Mail.XML 10.0	Mail.XML 8.1
Base	Removed	Removed
totalDigits		
fractionDigits		

6.65 simpleType: dec18-8

Tag	Mail.XML 8.1
Base	xs:decimal
totalDigits	18
fractionDigits	8

6.66 simpleType: deliverabilityCodeType

Tag	Mail.XML 8.1
Base	xs:string
enumeration	K = COA Match, No Forwarding Address
enumeration	G = COA Match, PO Box Closed, No Forwarding Address
enumeration	W = COA Match with a temporary COA

6.67 simpleType: electronicFileType

Tag	Mail.XML 8.1
Base	String 1
enumeration	1=Postage & Tracking File
enumeration	2=Tracking File
enumeration	3=Return Service
enumeration	4=Corrections
enumeration	5=Electronic Verification
enumeration	C=Parcel Return Service

6.68 simpleType: emailType

Tag	Mail.XML 8.1
Base	xs:string

6.69 simpleType: eMD8125ASNBarcodeType

Tag	Mail.XML 8.1
Base	Removed

6.70 simpleType: enclosedByType

Tag	Mail.XML 8.1
Base	xs:string

Copyright © 2011 USPS®. All Rights Reserved.

enumeration	SM = Standard Mail
enumeration	BP = Bound Printed Matter
enumeration	PE = Periodicals
enumeration	PP = Parcel Post
enumeration	ML = Media/Library Mail

6.71 simpleType: entryDiscountType

Tag	Mail.XML 8.1
Base	xs:string
enumeration	N = None
enumeration	B = DNDC (previous DBMC)
enumeration	S = DSCF
enumeration	D = DDU
enumeration	A = DADC

6.72 simpleType: entryFacilityType

Tag	Mail.XML 8.1
Base	xs:string
enumeration	O = Origin
enumeration	B = NDC (Previous BMC)
enumeration	S = SCF
enumeration	D = DDU
enumeration	A = ADC

6.73 simpleType: entryPointEDPostalCodeType

Tag	Mail.XML 8.1
Base	mailxml_base:s06

6.74 simpleType: entryPointEDFacilityTypeType

Tag	Mail.XML 8.1
Base	mailxml_base:s01

6.75 simpleType: entryPointADLocaleKeyType

Tag	Mail.XML 8.1
Base	mailxml_base:s09

6.76 simpleType: entryPointADPostalCodeType

Tag	Mail.XML 8.1
Base	mailxml_base:s09

6.77 simpleType: es2

Tag	Mail.XML 8.1

Copyright © 2011 USPS®. All Rights Reserved.

Base	Removed
maxLength	
minLength	
whiteSpace	

6.78 simpleType: es3

Tag	Mail.XML 8.1
Base	xs:string
maxLength	3
minLength	3
whiteSpace	preserve

6.79 simpleType: es4

Tag	Mail.XML 8.1
Base	xs:string
maxLength	4
minLength	4
whiteSpace	preserve

6.80 simpleType: es5

Tag	Mail.XML 8.1
Base	xs:string
maxLength	5
minLength	5
whiteSpace	preserve

6.81 simpleType: es31

Tag	Mail.XML 8.1
Base	Removed
maxLength	
minLength	
whiteSpace	

6.82 simpleType: exemptionCodeType

Tag	Mail.XML 8.1
Base	xs:string
enumeration	APO
enumeration	APS
enumeration	CAPC
enumeration	DUE
enumeration	HC

6.83 simpleType: fASTContentIDType

Tag	Mail.XML 8.1

Copyright © 2011 USPS®. All Rights Reserved.

Base	Removed

6.84 simpleType: fASTSchedulerIDType

Tag	Mail.XML 8.1
Base	mailxml_base:s12

6.85 simpleType: feeNotificationType

Tag	Mail.XML 8.1
Base	Removed
enumeration	
enumeration	
enumeration	
enumeration	

6.86 simpleType: flatRateIndicatorType

Tag	Mail.XML 8.1
Base	xs:string
enumeration	B = Box – Priority Mail Flat Rate Only
enumeration	-
enumeration	E = Envelope – Priority Mail Flat Rate Only
enumeration	-
enumeration	L = Box – Large Priority Mail Flat Rate Only
enumeration	M = Box – Large Military Destination Priority Mail Flat Rate Only
enumeration	-
enumeration	-
enumeration	S = Small – Priority Mail Flat Rate Only

6.87 simpleType: formType

Tag	Mail.XML 8.1
Base	xs:string
enumeration	PM = Priority Mail
enumeration	FC = First-Class
enumeration	SM = Standard Mail
enumeration	BP = Bound Printed Matters
enumeration	PE = Periodicals
enumeration	PP = Parcel Post
enumeration	ML = Media/Library Mail
enumeration	-

6.88 simpleType: fullServiceComplianceIndicatorType

Tag	Mail.XML 8.1
Base	mailxml_base:yesNo
enumeration	
enumeration	

Copyright © 2011 USPS®. All Rights Reserved.

6.89 simpleType: fspiType

Tag	Mail.XML 8.1
Base	xs:string
enumeration	M
enumeration	F

6.90 simpleType: gPSSystemType

Tag	Mail.XML 8.1
Base	xs:string
enumeration	ECEF
enumeration	HAE
enumeration	MSL

6.91 simpleType: IDType

Tag	Mail.XML 8.1
Base	xs:string
enumeration	DriversLicense
enumeration	EmployeeID

6.92 simpleType: IMcbType

Tag	Mail.XML 8.1
Base	xs:string
maxLength	24
minLength	21

6.93 simpleType: iMBType

Tag	Mail.XML 8.1
Base	xs:string
maxLength	34
minLength	20
pattern	([0-9])+

6.94 simpleType: iMBarcodeIDType

Tag	Mail.XML 8.1
Base	mailxml_base:ns02

6.95 simpleType: iMBSerialNumber6Type

Tag	Mail.XML 8.1
Base	mailxml_base:ns06

Copyright © 2011 USPS®. All Rights Reserved.

6.96 simpleType: iMBSerialNumber9Type

Tag	Mail.XML 8.1
Base	mailxml_base:ns09

6.97 simpleType: iMBUpperSerializationType

Tag	Mail.XML 8.1
Base	mailxml_base:s18

6.98 simpleType: iMBLowerSerializationType

Tag	Mail.XML 8.1
Base	mailxml_base:s18

6.99 simpleType: includedInOtherDocType

Tag	Mail.XML 8.1
Base	xs:string
enumeration	L = Linked
enumeration	O = Original

6.100 simpleType: internalDateType

Tag	Mail.XML 8.1
Base	xs:date

6.101 simpleType: inOutCountyIndicatorType

Tag	Mail.XML 8.1
Base	Removed
enumeration	
enumeration	
enumeration	
enumeration	

6.102 simpleType: inCountyOutCountyIndicatorType

Tag	Mail.XML 8.1
Base	xs:string
enumeration	I – In County
enumeration	N = Outside County
enumeration	

6.103 simpleType: int04

Tag	Mail.XML 8.1
Base	Removed
TotalDigits	

Copyright © 2011 USPS®. All Rights Reserved.

6.104 simpleType: jobIDType

Tag	Mail.XML 8.1
Base	xs:string
maxLength	8
minLength	1
whiteSpace	preserve

6.105 simpleType: localeKeyType

Tag	Mail.XML 8.1
Base	mailxml_base:s09

6.106 simpleType: inductionStatusType

Tag	Mail.XML 8.1
Base	xs:string
enumeration	A = Accepted
enumeration	N = Rejected

6.107 simpleType: logicalPhysicalBundleIndicatorType

Tag	Mail.XML 8.1
Base	xs:string
enumeration	P = Physical
enumeration	L = Logical

6.108 simpleType: logicalPhysicalContainerIndicatorType

Tag	Mail.XML 8.1
Base	xs:string
enumeration	P = Physical
enumeration	L = Logical

6.109 simpleType: mailAgreementTypeType

Tag	Mail.XML 8.1
Base	xs:string
enumeration	A = Alternate Mailing System
enumeration	B = Optional Procedure
enumeration	C = Manifest Mailing
enumeration	D = Value Added
enumeration	E = Combined Mail
enumeration	F = Combined and Value Added

6.110 simpleType: mailClassType

Tag	Mail.XML 8.1
Base	xs:string
enumeration	1 = First-Class Mail

Copyright © 2011 USPS®. All Rights Reserved.

enumeration	2 = Periodicals
enumeration	3 = Standard Mail
enumeration	4 = Package Services
enumeration	6 = (Future Placeholder)

6.111 simpleType: maildatContainerStatusType

Tag	Mail.XML 8.1
Base	xs:string
enumeration	R = Ready to Pay
enumeration	X = Paid
enumeration	C = Cancel
enumeration	D = Delete
enumeration	P = Preliminary Postage Statement
enumeration	T = Transportation Information Update

6.112 simpleType: maildatRecordStatus

Tag	Mail.XML 8.1
Base	Removed
enumeration	

6.113 simpleType: mailerID6Type

Tag	Mail.XML 8.1
Base	mailxml_base:ns06

6.114 simpleType: mailerID9Type

Tag	Mail.XML 8.1
Base	mailxml_base:ns09

6.115 simpleType: mailIssueType

Tag	Mail.XML 8.1
Base	Removed
maxLength	
minLength	
whiteSpace	

6.116 simpleType: mailXMLContainerType

Tag	Mail.XML 8.1
Base	xs:string
enumeration	1 = #1 Sack
enumeration	2 = #2 Sack
enumeration	3 = #3 Sack
enumeration	4 = 01V Sack

Copyright © 2011 USPS®. All Rights Reserved.

enumeration	5 = 03V Sack
enumeration	E = EMM Tray
enumeration	F = Flat Tub
enumeration	L = Logical Tray
enumeration	O = 1' Tray
enumeration	P = Pallet
enumeration	S = Sack (General)
enumeration	T = 2' Tray
enumeration	V = Sack (Virtual)
enumeration	B = Bedload
enumeration	U – Unit Load Device
enumeration	Z = User Pallet
enumeration	X = (Future Placeholder)
enumeration	H = EIRS 61 – Hamper, Large Canvas
enumeration	A = EIRS 61P – Hamper, Large Plastic
enumeration	G = EIRS 66 – General Purpose Mail Container w/Gate
enumeration	D = EIRS 68 – Eastern Region Mail Container w/Web Door
enumeration	R = EIRS 84 – Wire Container Rigid
enumeration	C = EIRS 84C – Collapsible Wire Container
enumeration	M = Logical Pallet (MLOCR)

6.117 simpleType: mailXMLPresentationCategoryType

Tag	Mail.XML 8.1
Base	xs:string
enumeration	M = MLOCR
enumeration	P = Conventional Presort
enumeration	I = Manifest Individual
enumeration	N = Single Piece
enumeration	S = Manifest Summary

6.118 simpleType: mailXMLStatusType

Tag	Mail.XML 8.1
Base	Removed
enumeration	

6.119 simpleType: mIDStatusType

Tag	Mail.XML 8.1
Base	xs:string
enumeration	New
enumeration	Existing

Copyright © 2011 USPS®. All Rights Reserved.

6.120 simpleType: meteredAffixedMethodType

Tag	Mail.XML 8.1
Base	xs:string
enumeration	C = Metered - Correct
enumeration	L = Metered – Lowest
enumeration	M = Metered - Neither

6.121 simpleType: monthType

Tag	Mail.XML 8.1
Base	xs:nonNegativeInteger
maxInclusive	12
minInclusive	1

6.122 simpleType: moveUpdateMethodType

Tag	Mail.XML 8.1
Base	xs:integer
enumeration	0 = None
enumeration	1 = ACS
enumeration	2 = NCOA
enumeration	3 = FAST Forward
enumeration	4 = Mailer Move Update Process
enumeration	5 = Ancillary Service Endorsement
enumeration	6 = Multiple
enumeration	7 = N/A
enumeration	8 = OneCode ACS

6.123 simpleType: moveUpdateType

Tag	Mail.XML 8.1
Base	Removed
enumeration	
enumeration	

6.124 simpleType: MPUIDType

Tag	Mail.XML 8.1
Base	xs:nonNegativeInteger
totalDigits	5

6.125 simpleType: ns02

Tag	Mail.XML 8.1
Base	xs:string
pattern	[0-9]{2}

Copyright © 2011 USPS®. All Rights Reserved.

6.126 simpleType: ns03

Tag	Mail.XML 8.1
Base	xs:string
pattern	[0-9]{3}

6.127 simpleType: ns04

Tag	Mail.XML 8.1
Base	xs:string
pattern	[0-9]{4}

6.128 simpleType: ns05

Tag	Mail.XML 8.1
Base	xs:string
pattern	[0-9]{5}

6.129 simpleType: ns06

Tag	Mail.XML 8.1
Base	xs:string
pattern	[0-9]{6}

6.130 simpleType: ns08

Tag	Mail.XML 8.1
Base	Removed
pattern	

6.131 simpleType: ns09

Tag	Mail.XML 8.1
Base	xs:string
pattern	[0-9]{9}

6.132 simpleType: ns10

Tag	Mail.XML 8.1
Base	xs:string
pattern	[0-9]{10}

6.133 simpleType: ns11

Tag	Mail.XML 8.1
Base	xs:string
pattern	[0-9]{11}

Copyright © 2011 USPS®. All Rights Reserved.

6.134 simpleType: ns13

Tag	Mail.XML 8.1
Base	Removed
pattern	

6.135 simpleType: ns22

Tag	Mail.XML 8.1
Base	xs:string
pattern	[0-9]{22}

6.136 simpleType: n01

Tag	Mail.XML 8.1
Base	xs:positiveInteger
totalDigits	1

6.137 simpleType: n02

Tag	Mail.XML 8.1
Base	xs:positiveInteger
totalDigits	2

6.138 simpleType: n03

Tag	Mail.XML 8.1
Base	xs:nonNegativeInteger
totalDigits	3

6.139 simpleType: n04

Tag	Mail.XML 8.1
Base	Removed
totalDigits	

6.140 simpleType: n05

Tag	Mail.XML 8.1
Base	xs:nonNegativeInteger
totalDigits	5

6.141 simpleType: n06

Tag	Mail.XML 8.1
Base	xs:nonNegativeInteger
totalDigits	6

Copyright © 2011 USPS®. All Rights Reserved.

6.142 simpleType: newAddressType

Tag	Mail.XML 8.1
Base	Removed
enumeration	
enumeration	

6.143 simpleType: addressType

Tag	Mail.XML 8.1
Base	xs:string
enumeration	F = Foreign
enumeration	G = General Delivery
enumeration	H = Highway Route Contract
enumeration	P = Post Office Box
enumeration	R = Rural Route
enumeration	S = Street Address
enumeration	U = Urbanization Name
enumeration	V = Highway Contract Route with box number
enumeration	X = Rural Route with box number

6.144 simpleType: onePassPlannedOrActualFlagType

Tag	Mail.XML 8.1
Base	xs:string
enumeration	A = Actual
enumeration	P = Planned

6.145 simpleType: packageIDType

Tag	Mail.XML 8.1
Base	mailxml_base:s06

6.146 simpleType: PackageServicesType

Tag	Mail.XML 8.1
Base	xs:string
enumeration	PS
enumeration	BPM
enumeration	LIB
enumeration	MEDIA
enumeration	PP

6.147 simpleType: packagingMethodType

Tag	Mail.XML 8.1
Base	xs:string
enumeration	0 = Piece Count

Copyright © 2011 USPS®. All Rights Reserved.

enumeration	1 = Weight
enumeration	2 = Both

6.148 simpleType: palletHandlingUnitType

Tag	Mail.XML 8.1
Base	xs:string
enumeration	Sacks
enumeration	Bundles
enumeration	MixedLengthTrays
enumeration	1ft Tray
enumeration	2ft Tray
enumeration	EMM Tray
enumeration	Flat Tub
enumeration	Parcels

6.149 simpleType: palletType

Tag	Mail.XML 8.1
Base	xs:string
enumeration	Pallet
enumeration	EIRS 61 - Hamper, Large Canvas
enumeration	EIRS 61P - Hamper, Large Plastic
enumeration	EIRS 66 - General Purpose Mail Container w/Gate
enumeration	EIRS 68 - Eastern Region Mail Container w/Web Door
enumeration	EIRS 84 - Wire Container Rigid
enumeration	EIRS 84C - Collapsible Wire Container

6.150 simpleType: parentContainerRefIDType

Tag	Mail.XML 8.1
Base	mailxml_base:s06

6.151 simpleType: percentageType

Tag	Mail.XML 8.1
Base	xs:decimal
totalDigits	5
fractionDigits	2
minInclusive	0.00
maxInclusive	100.00

6.152 simpleType: periodicalPriceType

Tag	Mail.XML 8.1
Base	xs:string
enumeration	D = Non-Advertising Pound Rate – DSCF (B13)
enumeration	C = Non-advertising Pound Rate – DDU (B12)

Copyright © 2011 USPS®. All Rights Reserved.

enumeration	E = Non-Advertising Pound Rate – DADC (B14)
enumeration	R = Repositionable notes (surcharge) (A21, F2)
enumeration	Z = Non-Advertising Pound Rate – All Others (B15)
enumeration	5 = Non-Advertising Piece Rate (C30)
enumeration	9 = Ride-along Surcharge (A20, F1)
enumeration	1 = DDU (A17)

6.153 simpleType: periodicalStatementType

Tag	Mail.XML 8.1
Base	xs:string
enumeration	N

6.154 simpleType: permitTypeType

Tag	Mail.XML 8.1
Base	xs:string
enumeration	PI = Permit Imprint
enumeration	MT = Metered Tape
enumeration	PC = Pre-cancelled Stamps
enumeration	BR = Business Reply
enumeration	PE = Periodicals
enumeration	GH = Ghost
enumeration	OI = Official Imprint
enumeration	OM = Official Imprint
enumeration	PP = Pending Periodicals

6.155 simpleType: phoneNumberType

Tag	Mail.XML 8.1
Base	xs:string
maxLength	25
minLength	1
whiteSpace	preserve

6.156 simpleType: pickupOrDeliveryType

Tag	Mail.XML 8.1
Base	xs:string
enumeration	Pickup
enumeration	Delivery

6.157 simpleType: planetCodeType

Tag	Mail.XML 8.1
Base	xs:string
maxLength	13
minLength	11
pattern	[0-9]{2}

Copyright © 2011 USPS®. All Rights Reserved.

6.158 simpleType: postageGroupingIDType

Tag	Mail.XML 8.1
Base	mailxml_base:s08

6.159 simpleType: postagePaymentMethodType

Tag	Mail.XML 8.1
Base	xs:string
enumeration	S
enumeration	M
enumeration	P

6.160 simpleType: postageStatementLineNumber1Type

Tag	Mail.XML 8.1
Base	xs:string
enumeration	E26
enumeration	E27
enumeration	E28
enumeration	E29
enumeration	E30
enumeration	E31
enumeration	E32
enumeration	E33
enumeration	E34
enumeration	E35
enumeration	E36
enumeration	E37
enumeration	E38
enumeration	E39
enumeration	E40
enumeration	E41
enumeration	E42
enumeration	E43
enumeration	E44
enumeration	E45
enumeration	E46

6.161 simpleType: postageStatementLineNumber2Type

Tag	Mail.XML 8.1
Base	xs:string
enumeration	E1
enumeration	E2
enumeration	E3
enumeration	E4
enumeration	E5
enumeration	E6
enumeration	E7
enumeration	E8

Copyright © 2011 USPS®. All Rights Reserved.

enumeration	E9
enumeration	E10
enumeration	E11
enumeration	E12
enumeration	E13
enumeration	E14
enumeration	E15
enumeration	E16
enumeration	E17
enumeration	E18
enumeration	E19
enumeration	E20
enumeration	E21
enumeration	E22
enumeration	E23
enumeration	E24

6.162 simpleType: postageStatementLineNumber3Type

Tag	Mail.XML 8.1
Base	xs:string
enumeration	D1
enumeration	D2
enumeration	D3
enumeration	D4
enumeration	D5
enumeration	D6
enumeration	D7
enumeration	D8
enumeration	D9
enumeration	D10
enumeration	D11
enumeration	D12
enumeration	D13
enumeration	D14
enumeration	D15
enumeration	D16
enumeration	D17

6.163 simpleType: postageStatementStateType

Tag	Mail.XML 8.1
Base	Removed
enumeration	
enumeration	

6.164 simpleType: postageStatementStatusType

Tag	Mail.XML 8.1
Base	xs:string
enumeration	UPD = Updated
enumeration	FIN = Finalized

Copyright © 2011 USPS®. All Rights Reserved.

enumeration	REW = Rework
enumeration	REV = Reversed
enumeration	CAN = Cancelled
enumeration	FAI = Failed Verification
enumeration	PEN = Pending
enumeration	PAS = Passed
enumeration	INC = Incomplete
enumeration	NAP = Not Available for Processing
enumeration	EST = Estimate Postage
enumeration	CON = Consolidated Postage Statement
enumeration	ERR = Error
enumeration	COM = Complete
enumeration	AVW = Address Verification Warning
enumeration	PAV = Pending Address Verification
enumeration	FPP = Finalized Pending Payment

6.165 simpleType: priceType

Tag	Mail.XML 8.1
Base	xs:string
enumeration	commercial
enumeration	commercialplus
enumeration	retail
enumeration	-

6.166 simpleType: primarySecondaryIndicatorType

Tag	Mail.XML 8.1
Base	xs:string
enumeration	P = Primary
enumeration	S = Secondary

6.167 simpleType: processingCategoryType

Tag	Mail.XML 8.1
Base	xs:string
enumeration	LT = Letter
enumeration	FL = Flat
enumeration	CD = Card
enumeration	OS = Outside Parcel
enumeration	MP = Machinable Parcel
enumeration	IR = Irregular Parcel
enumeration	PF = Parcel, First Class
enumeration	CM = Custom Mail
enumeration	NP = Non-Machinable Parcel
enumeration	NA = Non-Flat Machinable Piece < 6oz
enumeration	NB = Non-Flat Machinable Piece > 6oz

6.168 simpleType: processingCodeType

Tag	Mail.XML 8.1

Copyright © 2011 USPS®. All Rights Reserved.

Base	xs:string
enumeration	S = Surface
enumeration	MXDS = Mixed Surface
enumeration	L = Locale
enumeration	WKG = Working Mail
enumeration	A = Air Separation
enumeration	MXDA = Mixed Air
enumeration	SP = Single Piece

6.169 simpleType: pvdsContainerType

Tag	Mail.XML 8.1
Base	Removed
enumeration	

6.170 simpleType: pvdsContainerSubType

Tag	Mail.XML 8.1
Base	Removed
enumeration	
enumeration	

6.171 simpleType: qualificationReportClassType

Tag	Mail.XML 8.1
Base	xs:string
enumeration	FC = First Class
enumeration	S = Standard
enumeration	P = Periodicals
enumeration	PM = Priority Mail
enumeration	PP = Parcel Post
enumeration	A = Air Mail

6.172 simpleType: rateCategoryType

Tag	Mail.XML 8.1
Base	xs:string
enumeration	A = Saturation ECR
enumeration	AF = Saturation ECT Letter
enumeration	B = High Density ECR
enumeration	BF = High Density SCR Letter
enumeration	D = Carrier Route
enumeration	DF = Carrier Letter
enumeration	E = 5 Digit Barcode
enumeration	FB = Firm Bundle (Not In-County)
enumeration	G = 5D Non-Barcode
enumeration	GF = 5D Letter
enumeration	H = 3 Digit Barcode
enumeration	K = 3D Non-Barcode
enumeration	KF = 3D Letter
enumeration	L = Basic Barcode

Copyright © 2011 USPS®. All Rights Reserved.

enumeration	L1 = AADC Barcode
enumeration	L2 = Mixed AADC Barcode
enumeration	L3 = ADC Barcode
enumeration	L4 = Mixed ADC Barcode
enumeration	L5 = ADC Non-Barcode
enumeration	L6 = Mixed ADC Non-Barcode
enumeration	L7 = AADC Non-Barcode
enumeration	L8 = Mixed AADC Non-Barcode
enumeration	N = Basic Non-Automation (Basic Presorted)
enumeration	NG = 5 Digit Non Flat Machinable
enumeration	NK = 3 Digit Non Flat Machinable
enumeration	N5 = NDC Non Flat Machinable
enumeration	N6 = Mixed NDC Non Flat Machinable
enumeration	PI = 5 Digit Parcel 0.2063 Pounds or less
enumeration	PM = 3 Digit Parcel 0.2063 Pounds or less
enumeration	P7 = NDC Parcel 0.2063 pounds or less
enumeration	P8 = Mixed NDC Parcel 0.2063 Pounds or less
enumeration	PE = 5 Digit Machinable Parcel over 0.2063 Pounds
enumeration	PQ = NDC Machinable Parcel over 0.2063 Pounds
enumeration	PR = Mixed NDC Machinable Parcel over 0.2063 Pounds
enumeration	PG = 5 Digit Irregular Parcel over 0.2063 Pounds
enumeration	PK = 3 Digit Irregular Parcel over 0.2063 Pounds
enumeration	P5 = NDC Irregular Parcel over 0.2063 Pounds
enumeration	P6 = Mixed NDC Irregular Parcel over 0.2063 Pounds
enumeration	S = Single Piece
enumeration	Z1 = Parcel Post (NDC Sort)
enumeration	Z2 = Parcel Post (ONDC Sort)

6.173 simpleType: rateLevelType

Tag	Mail.XML 8.1
Base	xs:string
enumeration	SP = Single Piece
enumeration	5B = Auto 5 Digit
enumeration	3B = Auto 3 Digit
enumeration	AB = Auto ADC/AADC
enumeration	PSRT = Presort
enumeration	5D = Presort 5 Digit
enumeration	3D = Presort 3 Digit
enumeration	NDC = NDC Presort
enumeration	ONDC = ONDC Presort
enumeration	BP = Standard Mail NDC
enumeration	MP = Mixed NDC Standard
enumeration	AD = ADC Presort
enumeration	MD = Mixed ADC Presort
enumeration	WS = Carrier Route Saturation
enumeration	HD = Carrier Route High Density
enumeration	CR = Carrier Route Basic
enumeration	MB = Auto Mixed

Copyright © 2011 USPS®. All Rights Reserved.

	ADC/AADC
enumeration	FB = Firm Bundle
enumeration	BB = Barcode Basic
enumeration	

6.174 simpleType: rateLevelIndicatorType

Tag	Mail.XML 8.1
Base	xs:string
enumeration	A = Auto (use with Rate Level 5B, 3B, AB, MB)
enumeration	B = Non-Auto (use with Rate Level 5D, 3D, AD, MD)
enumeration	C = ECR (use with Rate Level WS, HD, CR)
enumeration	M = Machinable (use with Rate Level AB, MB)
enumeration	N = Non-Machinable (use with Rate Level 5D, 3D, AD, MD)

6.175 simpleType: rateType

Tag	Mail.XML 8.1
Base	xs:string
enumeration	R = Regular
enumeration	L = Library Mail
enumeration	B = Bound Printed Matter
enumeration	C = Classroom
enumeration	S = Science of Agriculture
enumeration	F = Media Mail
enumeration	A = Alt Delivery
enumeration	N = Non-Profit
enumeration	P = Parcel Post
enumeration	T = Priority Mail
enumeration	D = Parcel Select
enumeration	X = Other
enumeration	H = (Placeholders)
enumeration	M = (Placeholders)
enumeration	Z = (Placeholders)
enumeration	E = Priority Mail Flat Fixed (Rate Envelope)
enumeration	G = Priority Mail Flat Fixed (rate Box)
enumeration	1 = UA (International)
enumeration	2 = UL (International)
enumeration	3 = UM (International)
enumeration	4 = UR (International)
enumeration	J = Priority Mail Flat – Large Box
enumeration	K = Priority Mail Flat – Large Box APO/FPO
enumeration	W = Science and Agriculture Limited
enumeration	Y = Regular Limited Circulation

Copyright © 2011 USPS®. All Rights Reserved.

6.176 simpleType: reasonCodeType

Tag	Mail.XML 8.1
Base	xs:string
enumeration	A = Attempted – Not Known
enumeration	B = Returned for Better Address
enumeration	D = Outside Delivery Limits
enumeration	E = In Dispute
enumeration	I = Insufficient Address
enumeration	L = Illegible
enumeration	M = No Mail Receptacle
enumeration	N = No such number
enumeration	P = Deceased
enumeration	Q = Not Deliverable as Addressed/ Unable to Forward
enumeration	R = Refused
enumeration	S = No Such Street
enumeration	U = Unclaimed
enumeration	V = Vacant
enumeration	X = No Such Office

6.177 simpleType: recipientType

Tag	Mail.XML 8.1
Base	Removed
enumeration	

6.178 simpleType: recurringStatusType

Tag	Mail.XML 8.1
Base	xs:string
enumeration	Active
enumeration	Pending
enumeration	All

6.179 simpleType: reservationNumberType

Tag	Mail.XML 8.1
Base	mailxml_base:s15

6.180 simpleType: roleType

Tag	Mail.XML 8.1
Base	xs:string
enumeration	Data Update Agent
enumeration	Owner
enumeration	Confirm Subscriber
enumeration	Confirm Data Receiver
enumeration	ACS Data Receiver
enumeration	ACS Subscriber
enumeration	List Owner

Copyright © 2011 USPS®. All Rights Reserved.

enumeration	Mail Creator
enumeration	Addressor
enumeration	Comail
enumeration	CoMingler
enumeration	MLOCR
enumeration	Mail Owner
enumeration	Mail Agent
enumeration	Entry Point Planner
enumeration	Shipment Planner
enumeration	Consolidator
enumeration	Secondary Consolidator
enumeration	Appointment Management Receiver
enumeration	Consignee/Product Receiver
enumeration	Dispatcher
enumeration	Tracker CONFIRM-scan
enumeration	Tracker CONFIRM-payer
enumeration	Tracker Seed Source
enumeration	Tracker Piece-level-scan
enumeration	Tracker ASN-scan
enumeration	Tracker Induction-scan
enumeration	Tracker Planet-code
enumeration	ACS receiver
enumeration	ACS payer
enumeration	Seamless Acceptance
enumeration	Seamless Verification
enumeration	Security
enumeration	Logistics Provider
enumeration	Carrier
enumeration	Data Brokering Agent
enumeration	Nixie
enumeration	StartTheClock
enumeration	ContainerVisibility
enumeration	DeliveryPointValidation

6.181 simpleType: responsibleTransportationPartyType

Tag	Mail.XML 8.1
Base	xs:string
enumeration	Shipper
enumeration	Consignee

6.182 simpleType: RoutingZipCodeType

Tag	Mail.XML 8.1
Base	xs:string
maxLength	11
minLength	0

6.183 simpleType: s01

Tag	Mail.XML 8.1

Copyright © 2011 USPS®. All Rights Reserved.

Base	xs:string
maxLength	1
minLength	1
whiteSpace	preserve

6.184 simpleType: s02

Tag	Mail.XML 8.1
Base	xs:string
maxLength	2
minLength	1
whiteSpace	preserve

6.185 simpleType: s03

Tag	Mail.XML 8.1
Base	xs:string
maxLength	3
minLength	1
whiteSpace	preserve

6.186 simpleType: s04

Tag	Mail.XML 8.1
Base	xs:string
maxLength	4
minLength	1
whiteSpace	preserve

6.187 simpleType: s05

Tag	Mail.XML 8.1
Base	xs:string
maxLength	5
minLength	1
whiteSpace	preserve

6.188 simpleType: s06

Tag	Mail.XML 8.1
Base	xs:string
maxLength	6
minLength	1
whiteSpace	preserve

6.189 simpleType: s07

Tag	Mail.XML 8.1
Base	xs:string
maxLength	7

Copyright © 2011 USPS®. All Rights Reserved.

minLength	1
whiteSpace	preserve

6.190 simpleType: s08

Tag	Mail.XML 8.1
Base	xs:string
maxLength	8
minLength	1
whiteSpace	preserve

6.191 simpleType: s09

Tag	Mail.XML 8.1
Base	xs:string
maxLength	9
minLength	1
whiteSpace	preserve

6.192 simpleType: s10

Tag	Mail.XML 8.1
Base	xs:string
maxLength	10
minLength	1
whiteSpace	preserve

6.193 simpleType: s11

Tag	Mail.XML 8.1
Base	xs:string
maxLength	11
minLength	1
whiteSpace	preserve

6.194 simpleType: s12

Tag	Mail.XML 8.1
Base	xs:string
maxLength	12
minLength	1
whiteSpace	preserve

6.195 simpleType: s15

Tag	Mail.XML 8.1
Base	xs:string
maxLength	15
minLength	1
whiteSpace	preserve

Copyright © 2011 USPS®. All Rights Reserved.

6.196 simpleType: s16

Tag	Mail.XML 8.1
Base	xs:string
maxLength	16
minLength	1
whiteSpace	preserve

6.197 simpleType: s18

Tag	Mail.XML 8.1
Base	xs:string
maxLength	18
minLength	1
whiteSpace	preserve

6.198 simpleType: s20

Tag	Mail.XML 8.1
Base	xs:string
maxLength	20
minLength	1
whiteSpace	preserve

6.199 simpleType: s22

Tag	Mail.XML 8.1
Base	xs:string
maxLength	22
minLength	1
whiteSpace	preserve

6.200 simpleType: s25

Tag	Mail.XML 8.1
Base	xs:string
maxLength	25
minLength	1
whiteSpace	preserve

6.201 simpleType: s28

Tag	Mail.XML 8.1
Base	xs:string
maxLength	28
minLength	1
whiteSpace	preserve

Copyright © 2011 USPS®. All Rights Reserved.

6.202 simpleType: s30

Tag	Mail.XML 8.1
Base	xs:string
maxLength	30
minLength	1
whiteSpace	preserve

6.203 simpleType: s31

Tag	Mail.XML 8.1
Base	Removed
maxLength	
minLength	
whiteSpace	

6.204 simpleType: s37

Tag	Mail.XML 8.1
Base	xs:string
maxLength	37
minLength	1
whiteSpace	preserve

6.205 simpleType: s40

Tag	Mail.XML 8.1
Base	xs:string
maxLength	40
minLength	1
whiteSpace	preserve

6.206 simpleType: s45

Tag	Mail.XML 8.1
Base	xs:string
maxLength	45
minLength	1
whiteSpace	preserve

6.207 simpleType: s50

Tag	Mail.XML 8.0B
Base	xs:string
maxLength	50
minLength	1
whiteSpace	preserve

Copyright © 2011 USPS®. All Rights Reserved.

6.208 simpleType: s60

Tag	Mail.XML 8.1
Base	xs:string
maxLength	60
minLength	1
whiteSpace	preserve

6.209 simpleType: s64

Tag	Mail.XML 8.1
Base	xs:string
maxLength	64
minLength	1
whiteSpace	preserve

6.210 simpleType: s66

Tag	Mail.XML 8.1
Base	xs:string
maxLength	66
minLength	1
whiteSpace	preserve

6.211 simpleType: s72

Tag	Mail.XML 8.1
Base	Removed
maxLength	
minLength	
whiteSpace	

6.212 simpleType: s80

Tag	Mail.XML 8.1
Base	xs:string
maxLength	80
minLength	1
whiteSpace	preserve

6.213 simpleType: s255

Tag	Mail.XML 8.1
Base	Removed
maxLength	
minLength	
whiteSpace	

Copyright © 2011 USPS®. All Rights Reserved.

6.214 simpleType: s256

Tag	Mail.XML 8.1
Base	xs:string
maxLength	256
minLength	1
whiteSpace	preserve

6.215 simpleType: s260

Tag	Mail.XML 8.1
Base	xs:string
maxLength	260
minLength	1
whiteSpace	preserve

6.216 simpleType: sackingBasisType

Tag	Mail.XML 8.1
Base	xs:string
enumeration	0 = Piece Count
enumeration	1 = 20 lbs.
enumeration	2 = 125 Pieces
enumeration	3 = 15 lbs.
enumeration	4 = Both

6.217 simpleType: scheduledInductionDateType

Tag	Mail.XML 8.0B
Base	xs:date

6.218 simpleType: scheduledInductionTimeType

Tag	Mail.XML 8.1
Base	xs:time

6.219 simpleType: segmentIDType

Tag	Mail.XML 8.1
Base	Removed
maxLength	
minLength	
whiteSpace	

6.220 simpleType: serviceLevelIndicatorType

Tag	Mail.XML 8.1
Base	xs:string
enumeration	F = Full-Service
enumeration	B = Basic

Copyright © 2011 USPS®. All Rights Reserved.

enumeration	P = POSTNET
enumeration	O = Other

6.221 simpleType: serviceCodeType

Tag	Mail.XML 8.1
Base	xs:string
enumeration	CM = Certified Mail
enumeration	COD = Collect on Delivery
enumeration	COM = Certificate of Mailing
enumeration	DC = Delivery Confirmation
enumeration	IM = Insured Mail
enumeration	PAL = Parcel Airlift
enumeration	RD = Restricted Delivery
enumeration	RM = Registered Mail
enumeration	RR = Return Receipt
enumeration	RRE = Return Receipt Electronic
enumeration	RRM = Return Receipt for Merchandise
enumeration	SC = Signature Confirmation
enumeration	SH = Special Handling

6.222 simpleType: ServiceTypeCodeType

Tag	Mail.XML 8.1
Base	mailxml_base:ns03

6.223 simpleType: sortationLevelType

Tag	Mail.XML 8.1
Base	xs:string
enumeration	CRD
enumeration	5DG
enumeration	CR5
enumeration	5DGS
enumeration	CR5S
enumeration	M5D
enumeration	M5DS
enumeration	MET
enumeration	3DG
enumeration	CR3
enumeration	3DGS
enumeration	ADC
enumeration	AADC
enumeration	MADC
enumeration	MAAD
enumeration	SCF
enumeration	PSCF
enumeration	NDC
enumeration	PNDC
enumeration	MNDC

Copyright © 2011 USPS®. All Rights Reserved.

enumeration	ASF
enumeration	OMX
enumeration	PADC
enumeration	MRDC
enumeration	SP
enumeration	MXDS
enumeration	MXDA
enumeration	WORKING
enumeration	SINGLEPIECE
enumeration	SURFACE
enumeration	AIR
enumeration	LOCAL

6.224 simpleType: serviceSubCodeType

Tag	Mail.XML 8.1
Base	xs:string
enumeration	N = None or Not Bulk
enumeration	E = Electronic
enumeration	R = Retail or Registered
enumeration	T = Requested at Time of Mailing
enumeration	B = Bulk

6.225 simpleType: stateCode

Tag	Mail.XML 8.1
Base	xs:string
enumeration	AA
enumeration	AE
enumeration	AP
enumeration	AL
enumeration	AK
enumeration	AS
enumeration	AZ
enumeration	AR
enumeration	CA
enumeration	CO
enumeration	CT
enumeration	DE
enumeration	DC
enumeration	FM
enumeration	FL
enumeration	GA
enumeration	GU
enumeration	HI
enumeration	IL
enumeration	IN
enumeration	IA
enumeration	ID
enumeration	KS
enumeration	KY

Copyright © 2011 USPS®. All Rights Reserved.

enumeration	LA
enumeration	MH
enumeration	MD
enumeration	MA
enumeration	MO
enumeration	MI
enumeration	MN
enumeration	MS
enumeration	MT
enumeration	NE
enumeration	NH
enumeration	NV
enumeration	NJ
enumeration	NM
enumeration	NY
enumeration	NC
enumeration	ND
enumeration	MP
enumeration	OH
enumeration	OR
enumeration	OK
enumeration	PW
enumeration	PA
enumeration	PR
enumeration	RI
enumeration	SC
enumeration	SD
enumeration	TN
enumeration	TX
enumeration	UT
enumeration	VT
enumeration	VI
enumeration	VA
enumeration	WA
enumeration	WV
enumeration	WI
enumeration	WY

6.226 simpleType: statusType

Tag	Mail.XML 8.1
Base	xs:string
enumeration	Accepted
enumeration	Amended
enumeration	Cancelled
enumeration	Counterproposal
enumeration	New
enumeration	NoAction
enumeration	Original
enumeration	PartiallyAccepted
enumeration	Pending
enumeration	Rejected
enumeration	Replaced

Copyright © 2011 USPS®. All Rights Reserved.

6.227 simpleType: stopDesignatorType

Tag	Mail.XML 8.1
Base	mailxml_base:s02

6.228 simpleType: surchargeType

Tag	Mail.XML 8.1
Base	xs:string
enumeration	2 = Oversized Surcharge
enumeration	A = First-Class Mail Parcel Surcharge
enumeration	D = Dimensional Rate
enumeration	N = Not Oversized
enumeration	P = Balloon Surcharge
enumeration	E = Permit Reply Mail
enumeration	R = First-Class Mail Non-machinable Letters (0.0625 lbs or less)
enumeration	L = Detached Address Labels Used

6.229 simpleType: totalWeightType

Tag	Mail.XML 8.1
Base	mailxml_base:s05

6.230 simpleType: trailerLengthType

Tag	Mail.XML 8.1
Base	xs:string
enumeration	20ft
enumeration	40ft
enumeration	45ft
enumeration	48ft
enumeration	53ft

6.231 simpleType: transportationMethodType

Tag	Mail.XML 8.1
Base	xs:string
enumeration	USPS
enumeration	Mailer

6.232 simpleType: transShipBoLNumberType

Tag	Mail.XML 8.1
Base	mailxml_base:s05

Copyright © 2011 USPS®. All Rights Reserved.

6.233 simpleType: trayType

Tag	Mail.XML 8.1
Base	xs:string
enumeration	MixedLengthTrays
enumeration	1ft Tray
enumeration	2ft Tray
enumeration	EMM Tray
enumeration	Flat Tub

6.234 simpleType: truckDispatchNumberType

Tag	Mail.XML 8.1
Base	mailxml_base:s10

6.235 simpleType: unitLoadType

Tag	Mail.XML 8.1
Base	xs:string
enumeration	CrossDockPallets
enumeration	WorkingPallets
enumeration	Trailers

6.236 simpleType: unloadStateType

Tag	Mail.XML 8.1
Base	Removed
enumeration	
enumeration	
enumeration	

6.237 simpleType: uOMType

Tag	Mail.XML 8.1
Base	xs:string
enumeration	AirDryMetricTonne
enumeration	AirDryPercent
enumeration	AirDryShortTon
enumeration	Bale
enumeration	BoardFoot
enumeration	BookUnit
enumeration	Box
enumeration	Bundle
enumeration	C-Size
enumeration	Centimeter
enumeration	Cord
enumeration	CubicFoot
enumeration	CubicMeter
enumeration	Cubit
enumeration	Day

Copyright © 2011 USPS®. All Rights Reserved.

enumeration	DotsPerInch
enumeration	Foot
enumeration	Gallon
enumeration	Gram
enumeration	GramsPerSquareMeter
enumeration	Hour
enumeration	HundredBoardFeet
enumeration	HundredLinealFeet
enumeration	HundredPound
enumeration	HundredSquareFeet
enumeration	Inch
enumeration	Kilogram
enumeration	KilogramsPerDay
enumeration	KilogramsPerWeek
enumeration	KnownBreaks
enumeration	Layer
enumeration	Leaves
enumeration	LinearFoot
enumeration	LinesPerInch
enumeration	Load
enumeration	MagazineUnit
enumeration	Megabyte
enumeration	Meter
enumeration	MetricTon
enumeration	MetricTonsPerDay
enumeration	MetricTonsPerWeek
enumeration	Micron
enumeration	Millimeter
enumeration	Minute
enumeration	Month
enumeration	None
enumeration	Package
enumeration	Page
enumeration	PagesPerInch
enumeration	PalletUnit
enumeration	Percentage
enumeration	PerThousand
enumeration	Picas
enumeration	Piece
enumeration	PixelsPerInch
enumeration	Pound
enumeration	PoundsPerDay
enumeration	PoundsPerHour
enumeration	PoundsPerWeek
enumeration	PulpUnit
enumeration	Ream
enumeration	Reel
enumeration	Set
enumeration	Sheet
enumeration	ShortTon
enumeration	ShortTonsPerDay
enumeration	ShortTonsPerHour
enumeration	ShortTonsPerWeek
enumeration	Signature

Copyright © 2011 USPS®. All Rights Reserved.

enumeration	Skid
enumeration	SquareInch
enumeration	SquareFeet
enumeration	SquareMeter
enumeration	ThousandBoardFeet
enumeration	ThousandLinealFeet
enumeration	ThousandPieces
enumeration	ThousandSquareCentimeters
enumeration	ThousandSquareFeet
enumeration	ThousandSquareInch
enumeration	Ton
enumeration	TonsPerHour
enumeration	Unit
enumeration	UnknownBreaks
enumeration	Week
enumeration	Yard

6.238 simpleType: uniqueContainerIDType

Tag	Mail.XML 8.1
Base	xs:string
maxLength	12
minLength	1
whiteSpace	preserve

6.239 simpleType: userInformationLine1Type

Tag	Mail.XML 8.1
Base	mailxml_base:s40

6.240 simpleType: userInformationLine2Type

Tag	Mail.XML 8.1
Base	mailxml_base:s40

6.241 simpleType: userLicenseCodeType

Tag	Mail.XML 8.1
Base	xs:string
maxLength	4
minLength	1
whiteSpace	preserve

6.242 simpleType: uspsPickupType

Tag	Mail.XML 8.1
Base	xs:string
enumeration	Y
enumeration	N

Copyright © 2011 USPS®. All Rights Reserved.

6.243 simpleType: verificationLocationType

Tag	Mail.XML 8.1
Base	xs:string
enumeration	BMEU
enumeration	DMU

6.244 simpleType: verificationReportType

Tag	Mail.XML 8.1
Base	xs:string
enumeration	CSAVerification
enumeration	ContainerBarcodeVerification
enumeration	HandlingUnitBarcodeVerification
enumeration	PieceBarcodeVerification
enumeration	ByForConflictVerification
enumeration	ServiceTypeVerification
enumeration	AppointmentVerification
enumeration	MailerIDVerification
enumeration	All
enumeration	NoErrors

6.245 simpleType: wastedPieceIndicatorType

Tag	Mail.XML 8.1
Base	xs:string
enumeration	W = Wasted
enumeration	S = Shortage
enumeration	X = Wasted piece and postage adjustment should NOT be triggered
enumeration	T = Shortage pieces not produced and postage adjustment should NOT be triggered

6.246 simpleType: weekFrequencyType

Tag	Mail.XML 8.1
Base	xs:string
enumeration	Weekly
enumeration	Bi-Weekly
enumeration	First
enumeration	Second
enumeration	Third
enumeration	Fourth
enumeration	Fifth
enumeration	Sixth

Copyright © 2011 USPS®. All Rights Reserved.

6.247 simpleType: weightBreakType

Tag	Mail.XML 8.1
Base	xs:string
enumeration	A = For standard Mail Non-Letters, Piece Weight is over 0.2063 lbs. For First-Class Mail Permit Reply, piece weight is over 0.0625 lbs.
enumeration	B = For standard mail, piece weight is 0.2063 lbs or less For First-Class Mail Permit Reply, piece weight is 0.0625 lbs or less.
enumeration	H = For standard Mail Letters, piece weight is over 0.2063 lbs
enumeration	N = None

6.248 simpleType: yesNo

Tag	Mail.XML 8.1
Base	xs:string
enumeration	Yes
enumeration	No

6.249 simpleType: zipCodeThreeOrFiveDigit

Tag	Mail.XML 8.1
Base	xs:string
pattern	"[0-9]{3}|[0-9]{5}" - Space removed

6.250 simpleType: zoneICType

Tag	Mail.XML 8.1
Base	xs:string
enumeration	N = None
enumeration	M = [Future Placeholder]
enumeration	LC = Local
enumeration	1 = Zone 1 & 2
enumeration	3 = Zone 3
enumeration	4 = Zone 4
enumeration	5 = Zone 5
enumeration	6 = Zone 6
enumeration	7 = Zone 7
enumeration	8 = Zone 8
enumeration	ICD
enumeration	IC
enumeration	DDU
enumeration	SCF
enumeration	ADC
enumeration	

Copyright © 2011 USPS®. All Rights Reserved.

6.251 simpleType: onePassOrTwoPassType

Tag	Mail.XML 8.1
Base	xs:string
enumeration	One
enumeration	Two

Copyright © 2011 USPS®. All Rights Reserved.

7. Appendix C - WSDLs and XSDs

The WSDL specification are posted on RIBBS® and can be downloaded from the following location:
http://ribbs.usps.gov/intelligentmail_guides/documents/tech_guides/xmlspec/wsdls/wsdls.htm

The above RIBBS® URL provides WSDLs for both TEM and production environments. User should always use this link to access the correct and updated version of WSDLs in future.

PULL WSDL LINKS FOR TEM ENVIRONMENT

To consume the WSDL services, the customer must use one of the following URLs in the TEM environments:

STRING-TYPE WSDL URL Link(s)

https://mailxmltem.uspspostalone.com/MLXMLServicesWeb/services/POAppointmentServices/wsdl/POAppointmentServices-MailXML60.wsdl

The USPS is no longer supporting the string type as of the Mail.XML 9.0X implementation. Currently, the USPS only accepts Message-Types WSDLs.

MESSAGE-TYPE WSDL URL Link(s)

The following link supports Mail.XML 8.1 version:
https://mailxmltem.uspspostalone.com/MailXML81ALLMsgType/WebServices/wsdl/USPSMailXML81ALLMsgType.wsdl

The following link supports Mail.XML Modular Specification (9.x and above):

On the Modular XSD, we support following WSDL points based on the Messages Group (Mailing, Supply Chain, Transportation, Data Distribution, and Identification). The WSDL endpoint for the message group will not change, will support multiple versions of Modular spec. In Release 25 – only Mailing, Supply Chain and Transportation (limited messages) will be supported.

Mailing:
https://mailxmltem.uspspostalone.com/Mailing/WebServices/wsdl/Mailing.wsdl

Supply Chain:
https://mailxmltem.uspspostalone.com/SupplyChain/WebServices/wsdl/SupplyChain.wsdl

Transportation:
https://mailxmltem.uspspostalone.com/Transportation/WebServices/wsdl/Transportation.wsdl

Data Distribution:
https://mailxmltem.uspspostalone.com/DataDistribution/WebServices/wsdl/DataDistribution.wsdl

Identification:
https://mailxmltem.uspspostalone.com/Identification/WebServices/wsdl/Identification.wsdl

PULL WSDL LINKS FOR PRODUCTION ENVIRONMENT

To consume the WSDL services, the customer must use one of the following URLs in the Production environments:

STRING-TYPE WSDL URL Link(s)

Copyright © 2011 USPS®. All Rights Reserved.

https://fast.uspspostalone.com/MLXMLServicesWeb/services/POAppointmentServices/wsdl/POAppointmentServices-MailXML60.wsdl

MESSAGE-TYPE WSDL URL Link(s)

The following link supports Mail.XML 8.1 version:
https://p1webservices.uspspostalone.com/MailXML81ALLMsgType/WebServices/wsdl/USPSMailXML81ALLMsgType.wsdl

The following link supports Mail.XML Modular Specification (9.x and above):

On the Modular XSD, we support following WSDL points based on the Messages Group (Mailing, Supply Chain, Transportation, Data Distribution, and Identification). The WSDL endpoint for the message group will not change, will support multiple versions of Modular spec. In Release 25 – only Mailing, Supply Chain and Transportation (limited messages) will be supported.

Mailing:
https://p1webservices.uspspostalone.com/Mailing/WebServices/wsdl/Mailing.wsdl

Supply Chain:
https://p1webservices.uspspostalone.com/SupplyChain/WebServices/wsdl/SupplyChain.wsdl

Transportation:
https://p1webservices.uspspostalone.com/Transportation/WebServices/wsdl/Transportation.wsdl

Data Distribution:
https://p1webservices.uspspostalone.com/DataDistribution/WebServices/wsdl/DataDistribution.wsdl

Identification:
https://p1webservices.uspspostalone.com/Identification/WebServices/wsdl/Identification.wsdl

PUSH WSDLs INFORMATION

Customers interested in using the Push Subscription model to receive the data feedback automatically at a specified time to their servers must understand the following WSDL name change information for both string-type and message-type WSDLs:

STRING-TYPE PUSH WSDL

The customer need to provide URL for their Web Server and uses the following WSDL for all Mail.XML versions i.e. 8.1.The String-type Push WSDL will retire after Mail.XML 9.0X release. USPS encourages users to move to message-type WSDL as soon as possible.

WSDL NAME: POCustomerMailXMLServices.wsdl

MESSAGE-TYPE PUSH WSDL

The customer need to provide URL for their Web Server and uses the following WSDL that only supports Mail.XML version 8.1. The Message-type WSDL will be strictly implemented post Mail.XML 9.0X version

For Mail.XML 8.1 – following WSDL name shall be used:
WSDL NAME: UserMailXML81PushMsgType.wsdl

Copyright © 2011 USPS®. All Rights Reserved.

For Mail.XML 10.A & 10.0A and future versions – following WSDL name shall be used:
WSDL NAME for Data Distribution: DataDistributionPush.wsdl
WSDL NAME for Transportation: TransportationPush.wsdl.

PUSH MESSAGES XSD NAME CHANGES INFORMATION

The USPS is implementing a new XSD name to support Mail.XML 8.1, and Mail.XML 9.0B Push subscription messages.

Copyright © 2011 USPS®. All Rights Reserved.

8. INDEX

A

acknowledgment, 41, 42
ACS, 123, 135, 136
ACS COA, 20, 22, 43, 45, 46, 53, 68
Address Correction, 19, 20, 21, 51
AddressType, 46, 81
Approval, 47, 55, 70, 77
approval date, 47, 55, 70, 77
approved, 18, 21, 24, 47, 55, 70, 77
asynchronous, 11
Asynchronous, 25
authenticate, 18, 23
authorization, 23, 47, 55, 70, 77, 94, 98

B

Business Customer Gateway, 21, 22, 23, 24
By/For, 23, 43, 44, 53, 58, 59, 66, 67
ByForConflictDelivery, 14
ByForConflictNotification, 14
ByForConflictQueryRequest, 14
ByForConflictQueryResponse, 14

C

cancelled, 128
Cast of Characters, 28, 53
CastofCharactersCancelRequest, 14
CastofCharactersCancelResponse, 14, 28, 29
CastofCharactersCreateRequest, 14
CastofCharactersCreateResponse, 14, 28, 29
CastofCharactersUpdateRequest, 15
CastofCharactersUpdateResponse, 15, 28, 29
ClassNotificationType, 46, 68
COA, 46, 47, 49, 53
Confirm, 20
conflict, 22
ConsigneeApptID, 55, 77, 84, 85
container, 107
Container, 20, 21, 22, 38, 52, 53, 54, 55, 56, 87
Container Scans, 22
Container Visibility/Scan, 20
ContainerID, 55, 88, 95, 96
copalletization, 11
CRID, 19, 27, 29, 35, 38, 43, 44, 45, 47, 53, 54, 66, 67, 68, 70, 71, 77, 88, 94, 98
CSA Dispatch ID, 55, 77
CSADispatchNumber, 55, 77
CSV, 20, 23
Customer Group ID, 42, 43, 44, 45, 47, 48, 50, 51, 52, 53, 54, 55, 57, 58, 59, 63, 66, 67, 68, 69, 71, 73, 74, 75, 76, 77, 78, 79, 80, 87, 97
CustomerContainerID, 55

D

data distribution, 11, 23, 47, 54, 70, 77
Data Distribution, 17, 24, 27, 30, 38, 43, 45, 66, 67
Data Quality reports, 20, 22, 23
date range, 38, 70, 77
Deceased, 69
DeliveryResponse, 15, 27, 39, 41, 42

E

eDoc, 11, 20, 23, 47, 51, 52, 53, 54, 58, 59, 62, 70, 74, 75, 77, 98
eDocumentation, 23
electronic documentation, 11
Excel, 20, 23

F

feedback, 12, 20, 22
Feedback, 1, 11, 14, 19, 20, 22, 23, 41, 43, 45, 51, 52, 58, 59, 66, 67, 74, 75
Feet Ahead, 45, 49, 52, 56, 67, 72
File Transfer Protocol. *See* FTP
First-Class, 17, 46, 68
First-Class Mail, 17
Foreign, 19
Forwarded, 68
FTP, 20
Full Service eDoc Data Quality Verification, 20
Full-Service, 1, 11, 14, 17, 19, 20, 22, 23, 142
Full-Service ACS, 17
FullServiceAddressCorrectionDelivery, 15, 39, 44, 45
FullServiceAddressCorrectionNotification, 15, 39, 43
FullServiceAddressCorrectionQueryRequest, 15, 38, 47
FullServiceAddressCorrectionQueryResponse, 15, 38, 39, 49, 50
FullServiceContainerVisibilityDelivery, 15, 39, 52
FullServiceContainerVisibilityNotification, 15, 39, 51
FullServiceContainerVisibilityQueryRequest, 15, 38, 54
FullServiceContainerVisibilityQueryResponse, 15, 38, 39, 41, 56
FullServiceDataQualityVerificationQueryReport Request, 15
FullServiceDataQualityVerificationQueryReport Response, 15
FullServiceDataQualityVerificationReport Notification, 15
FullServiceDataQualityVerificationReportDelivery, 15, 59
FULLSERVICE-EDOC, 35, 36
FullServiceNixieDetailDelivery, 15, 16, 39, 67
FullServiceNixieDetailNotification, 15, 16, 39, 41, 65, 66
FullServiceNixieDetailQueryRequest, 15, 16, 38, 41, 70
FullServiceNixieDetailQueryResponse, 15, 16, 39, 72
~~FullServiceStartTheClockDelivery~~, 15, 16, 75
~~FullServiceStartTheClockNotification~~, 15, 16, 74

Copyright © 2011 USPS®. All Rights Reserved.

~~FullServiceStartTheClockQueryRequest~~, 15, 16, 18, 77
~~FullServiceStartTheClockQueryResponse~~, 15, 16, 79

G

Gateway. *See* Business Customer Gateway

H

HTTPS, 20, 21
Hyper Text Transport Protocol - Secure. *See* HTTPS

I

IDEAlliance, 11, 16, 21, 23
IMB, 48, 71, 89, 90, 96
IMCB, 55, 89

L

LargeTransactionDividerGroupOptionalType, 93
last, 45, 49, 50, 52, 53, 56, 67, 68, 72, 73
Lower Date Range, 49, 72, 78, 79

M

machinable, 105, 146
Mail Class, 17, 48, 71, 86
Mail.XML, 1, 11, 14, 16, 17, 18, 19, 20, 21, 22, 23, 24, 26, 34, 35, 36, 41, 44, 45, 47, 49, 51, 52, 53, 54, 55, 56, 57, 58, 59, 62, 63, 66, 68, 70, 72, 74, 75, 76, 77, 78, 79, 80, 84, 85, 86, 87, 92, 100, 101, 102, 103, 104, 105, 106, 107, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127, 128, 129, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 142, 143, 144, 145, 146, 147, 149, 150, 151, 152, 153, 154
Mail.XML 7.0C, 16, 22
Mail.XML 8.0B, 16, 22, 34
Maildat Job ID, 42, 43, 44, 47, 48, 50, 52, 54, 55, 57, 67, 69, 71, 73, 75, 76, 78, 80, 87, 97
Mailer ID, 28, 29, 35, 90, 94
Mailing Group ID, 42, 43, 44, 47, 48, 50, 52, 54, 55, 57, 67, 69, 71, 73, 75, 76, 78, 80, 87, 97
mailing supply chain, 11
MailingGroupID, 44, 45, 51, 53, 55, 57, 58, 59, 60, 62, 63, 64, 66, 68, 74, 76, 77, 79, 96
MailPieceGroup, 87
manifest, 11
MessageGroupID, 45, 49, 50, 52, 53, 56, 67, 68, 72, 73
MID, 19, 23, 35, 38, 43, 44, 45, 47, 53, 54, 58, 59, 66, 67, 70, 73, 77, 94, 98
MLOCR, 11, 122, 136

N

Nixie, 20, 21, 22, 24, 38, 53, 65, 66, 67, 70, 72, 73, 74
NotificationResponse, 16, 27, 39, 42

O

OneCode ACS, 17
OwningParty, 48

P

Package Services, 17, 46, 68, 104, 121
Pallets, 104, 105, 107
Password, 18, 24, 27
Periodicals, 17, 46, 68, 104, 115, 117, 121, 128, 132
Permit, 77, 78, 83, 88, 98
PermitNumber, 77
PermitType, 77
PermitZip4, 77
piece ranges, 48, 70
pieces, 11, 150
postage, 150
Postage, 101, 121, 131
postage statements, 11, 17
PostalOne!, 11, 17, 18, 20, 21, 22, 23, 24, 26, 27, 28, 30, 35, 36, 38, 42, 43, 44, 45, 46, 47, 49, 51, 52, 53, 54, 56, 57, 58, 59, 62, 63, 66, 67, 68, 70, 72, 74, 75, 76, 77, 78, 79, 107
Profiles, 1, 11, 12, 14
Pull, 19, 20, 21, 24
pulled, 22, 24, 42
Push, 19, 20, 22, 23, 24, 27, 42, 47, 54, 69, 76
PushMessageID, 42

Q

qualification, 11, 22
qualification reports, 11
Query, 24, 50, 51, 57, 58, 73, 74, 79, 80

R

Receiver, 83
Recipient, 43, 44, 45, 47, 53, 54, 58, 59, 66, 67, 69, 75, 76
Refused, 69
registered, 19, 21, 22, 23, 24, 43, 45, 51, 52, 58, 59, 63, 66, 67, 74, 76
Returned, 68, 90
RIBBS, 17, 18, 21, 23, 24

S

Sequence, 45, 49, 52, 56, 60, 61, 62, 64, 65, 67, 72, 79, 80, 89
Services Oriented Architecture. See SOA
SOA, 11
SOAP, 23, 26
Software Vendor, 47, 55, 70, 77
specification, 11, 16, 17, 18, 21, 22, 23, 35, 36, 41
spoilage, 11
Standard Mail, 17, 46, 68, 104, 115, 117, 121, 133
Start-the-Clock, 20, 24, 38, 52, 74, 75
StartTheClock, 22, 23, 24, 74, 75, 77, 79

Copyright © 2011 USPS®. All Rights Reserved.

StartTheClockBMEUBlock, 76, 79
StartTheClockDelivery, 39
StartTheClockDropShipBlock, 76, 79
StartTheClockNotification, 38
StartTheClockPlantLoadBlock, 76, 79
StartTheClockQueryRequest, 18, 38, 77
StartTheClockQueryResponse, 38, 39
SubmittingParty, 17, 26, 43, 45, 46, 47, 48, 52, 53, 54, 55, 58, 60, 62, 63, 66, 68, 69, 70, 71, 75, 76, 77, 98
SubmittingSoftware, 43, 45, 47, 48, 52, 53, 54, 55, 58, 60, 62, 63, 66, 68, 69, 70, 71, 75, 76, 77, 98
subscriber, 22
Subscription, 23, 24, 27
synchronous, 11

T

Test Environment for Mailers Checklist and Troubleshooting Guide, 18
TotalMessageCount, 45, 50, 53, 56, 68, 72, 73
Tracking ID, 25, 26, 50, 57, 73
TrackingID, 64, 79
transactions, 11, 18, 22, 23, 45, 49, 50, 52, 53, 56, 67, 68, 72
transmission, 22, 26
Trays, 104, 107

U

Unclaimed, 69
unique message identifier, 42
UniqueContainerBarcode, 55, 95
UPD, 130
Upper Date Range, 49, 72, 79
User License Code, 42, 43, 44, 45, 47, 48, 50, 51, 52, 53, 54, 55, 57, 58, 59, 63, 66, 67, 68, 69, 71, 73, 74, 75, 76, 77, 78, 79, 80, 87, 97
USPS, 11, 12, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 34, 35, 38, 39, 41, 42, 43, 44, 45, 47, 49, 51, 52, 53, 54, 55, 56, 57, 58, 59, 62, 63, 66, 67, 68, 70, 72, 74, 75, 76, 77, 79, 94, 146, 154, 155
USPSCRIDCreateRequest, 35
USPSCRIDCreateResponse, 35
USPSMIDCreateRequest, 35
USPSMIDCreateResponse, 35, 36

V

Vacant, 69
validates, 47, 49, 51, 52, 54, 56, 62, 63, 70, 72, 74, 75, 77, 79
vendor, 43, 45, 47, 53, 55, 66, 68, 70, 77

W

Wasted, 68
WSDL, 18, 19, 23, 24, 153, 154, 155

Z

zero, 19, 50, 57, 73, 79
Zone, 151

Copyright © 2011 USPS®. All Rights Reserved.