Container, Tray, and Bundle Visibility User Guide

Informed Visibility™ with Mail.XML® and *PostalOne!* Reports

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1 Overview

1.1 Scope of this User Guide

This user guide shows mailers how to obtain Container, Tray, and Bundle tracking information.

Informed Visibility™ data for Full-Service Commercial mail containers, trays, and bundles is available through Mail.XML™ messaging and *PostalOne!* reports. These visibility events are captured as USPS processes mail that includes an Intelligent Mail™ container barcode (IMcb), Intelligent Mail tray barcode (IMtb), or Intelligent Mail barcode (IMb) through the following activities:

- Container scans captured at induction
- Scans captured as containers and trays are transported via surface routes
- Scans captured as trays are transported via air routes
- Scans captured as trays are processed by USPS at a facility
- Scans captured as bundles are scanned on automation bundle sorting equipment

Note: This visibility data is limited to Full-Service mailings.

1.2 Out of Scope: Mailpiece Tracking

Mailpiece tracking is also available for all mailers. IMb Tracing™ is a FREE service that provides real-time tracking information for automation-compatible letters and flats. In addition to automation piece scans, IMb Tracing also provides automation bundle scans.

Please see the **IMb Tracing™ page** on RIBBS® for more information on how to obtain automation mailpiece and bundle scan events.

2 Informed Visibility Subscription Recipients

2.1 Determining Mail Owner and Mail Preparer

A user's access to Container, Tray, and Bundle Visibility data is determined based on mailer-submitted information in electronic documentation and profiles in the Mailer ID (MID) system.

Visibility events are made available to both the mail owner and/or preparer (mailing agent) associated with an IMcb, IMtb, or IMb (top piece for bundles). All mail owner(s) and preparer(s) are determined based on the By/For Order of Precedence found in the ***Guide to Intelligent Mail for Letters and Flats*** on RIBBS.

Please note:

1. By default, both the mail owner and mail preparer (as designated by the By/For Order of Precedence) have access to Container, Tray, and Bundle Visibility data.
2. The mail owner (MO) can designate access to an owner delegate. If a mail owner delegates access to an owner delegate, then the mail owner cannot also have access.
3. The mail preparer (MP) can designate access to a preparer delegate. If a mail preparer delegates access to a preparer delegate, then the mail preparer cannot also have access.

2.2 Data Delegation

Third parties can be granted access to Informed Visibility through delegation profiles available in the MID system. In order to delegate data, a MID Profile must be established in the MID System. See Sections 2.2.2 and 2.2.3 for more information.

The following delegation profiles are available for Informed Visibility:

- Container Visibility
- Tray Visibility
- Bundle Visibility

2.2.1 Full Service Data Delegation Overview

Data delegation scenarios by data type:

Scenario ↓ Data Type →	Confirm/ IMb Tracing	Address Correction		Container Vis/STC		Tray Vis		Bundle Vis		How to implement this delegation type
	MID on Piece	Mail Owner	Mail Preparer	Mail Owner	Mail Preparer	Mail Owner	Mail Preparer	Mail Owner	Mail Preparer	
MO/MP	○	●	○	●	●	●	●	●	●	This is the default delegation scenario for all **except IMB tracing.** No action required.
Complete/Third Party	●	●	○	●	●	●	●	●	●	This requires a static complete profile to be completed within the MID system. *Please note, the data owning entity for IMB Tracing is the MID on the piece. Not the mail owner/preparer.*
Partial MID on Piece	●	●	○	○	○	○	○	○	○	**For IMB tracing, this is the default action.** For ACS, a partial MID on Piece profile shoule be created within the MID system.
Partial Mail Preparer	○	●	○	○	○	○	○	○	○	A profile should be created within the MID system for partial mail preparer
Delegated	○	○	○	○	○	○	○	○	○	A delegated profile should be created within the MID system

Figure 1: Data Delegation Scenarios by Data Type

Data delegation scenario descriptions:

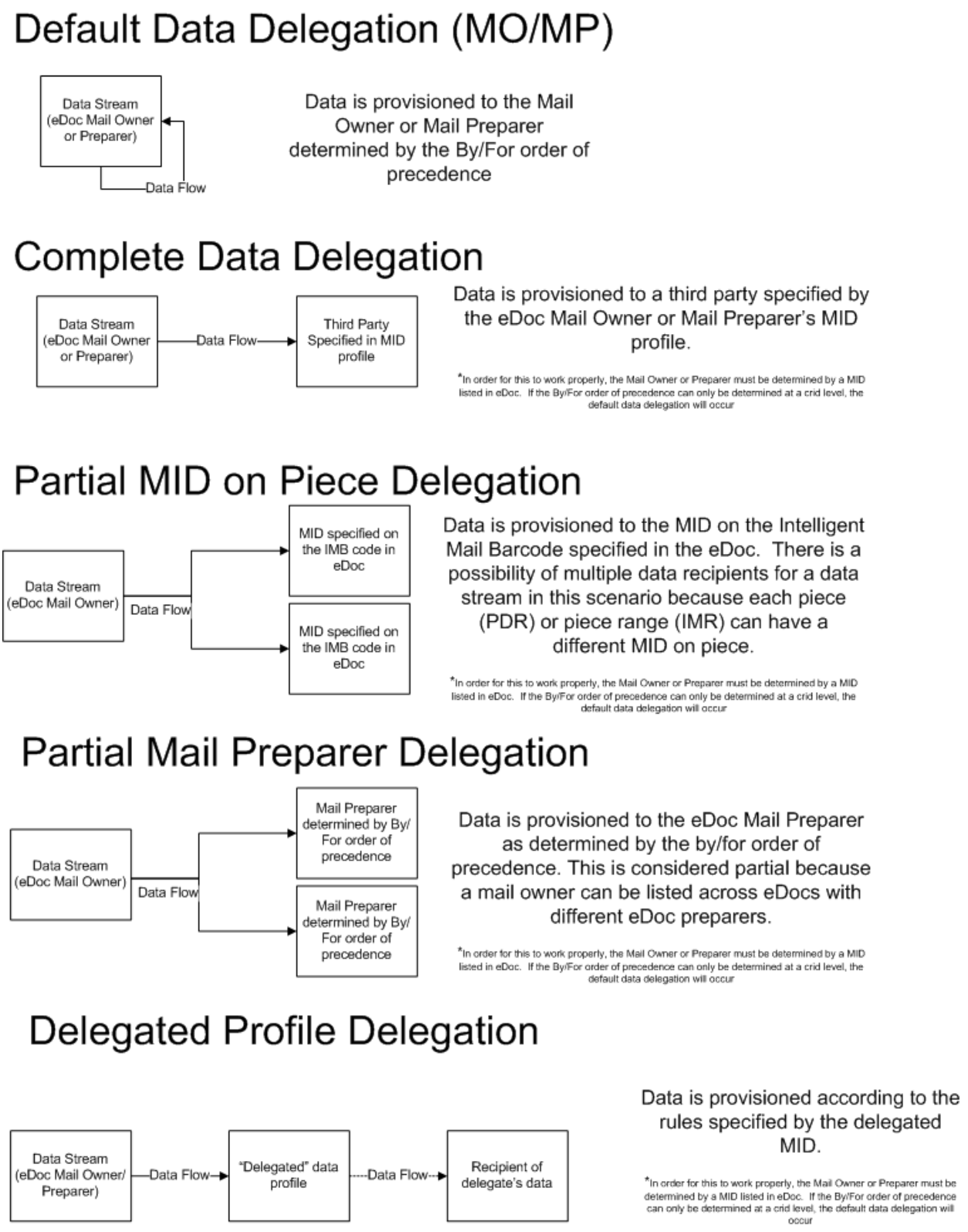


Figure 2: Data Delegation Scenario Descriptions

2.2.2 Accessing the MID Profile Page

MID Data Delegation is managed through the Mailer ID (MID) system, accessible via the *PostalOne!* Business Customer Gateway at **https://gateway.usps.com/bcg/login.htm**.

Refer to the ***User Access to Electronic Mailing Information and Reports Guide*** on RIBBS for a step-by-step approach to requesting access to the Mailer ID system through the BCG.

Following is the step-by-step process of accessing the MID system along with the screen shots of each step:

STEP 1 - Login to Customer gateway at **https://gateway.usps.com/bcg/login.htm** using a valid username and password.

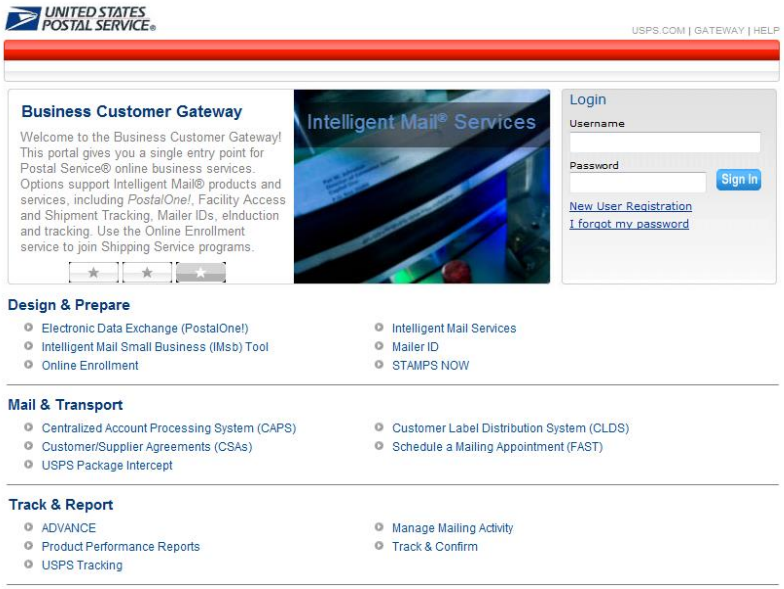


Figure 3: External Customer login through BCG

STEP 2 - Navigate through the home page by clicking on “Mailer ID” under “Design & Prepare” section.

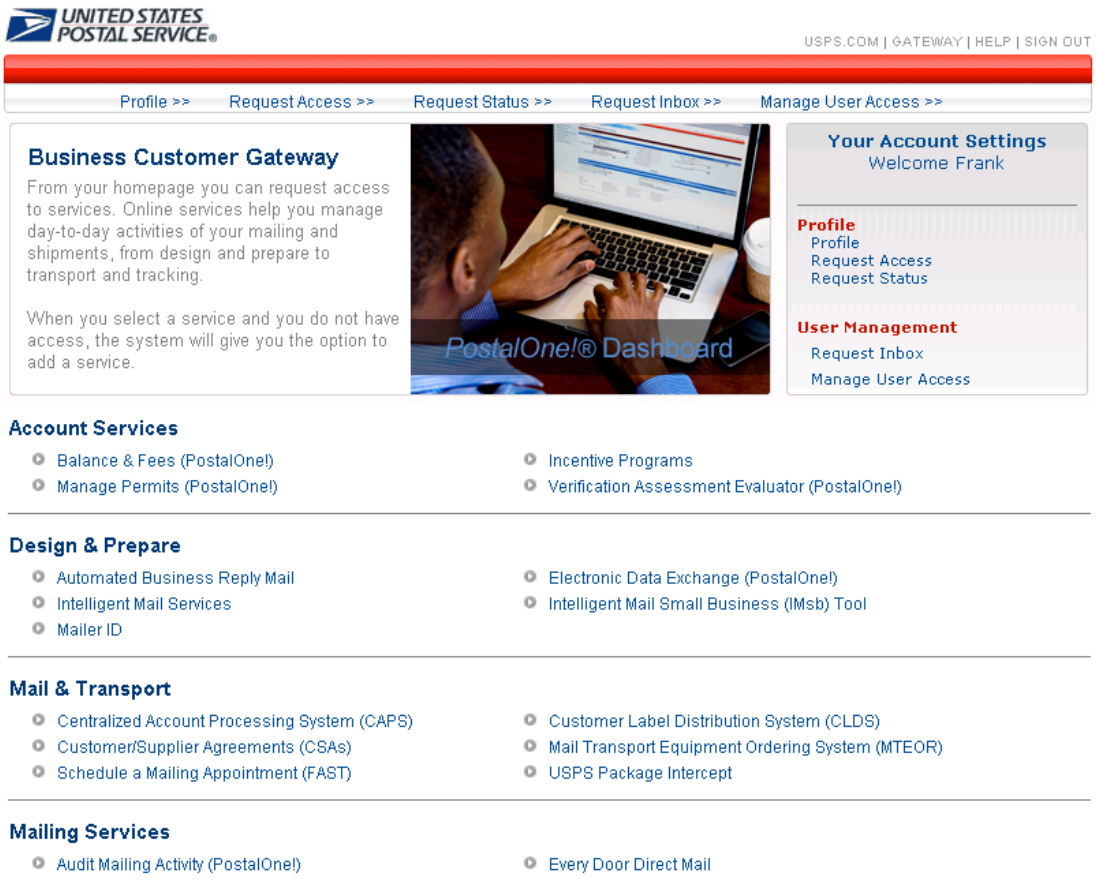


Figure 4: User Home Page

STEP 3 - To get to the Data Distribution Profile Screen the user clicks on the Add Profile link; if a profile already exists the link will be Edit Profile.

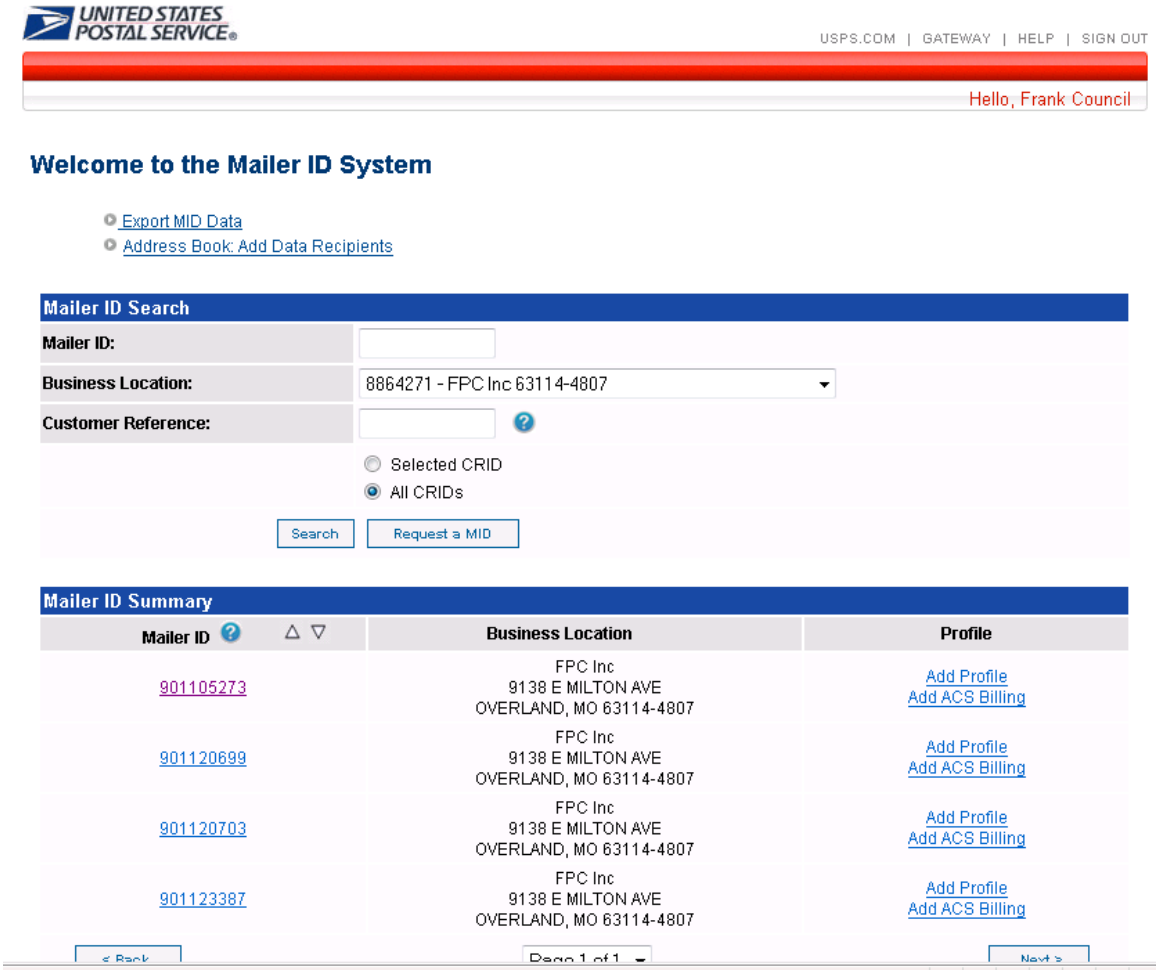


Figure 5: MID System Page

2.2.3 Data Distribution Profile Page

All users have access to the profile page, but for only the MIDs owned by their CRID (or for MIDs that someone else has Delegated maintenance to them).

Data can be delegated separately for container, tray, and bundle visibility. For example, container visibility can be delegated to one party and bundle visibility to another.

Updates to this page are immediate; no approvals are required.

Note: The term ***"Delegation"*** within the MID system refers to the ability to Delegate the maintenance of a Data Distribution Profile to another company (CRID). It does not mean delegating who data is shared with. A user can Delegate the maintenance to another CRID without even creating a profile; it would then be up to the Delegatee to create/edit the profile. The top portion of the screen below is where this Delegation takes place; the bottom portion of the screen is where the Data Distribution Profiles are defined.

The Data Distribution Profile screen is shown below.

Figure 6: Top half of screen, where Delegation of MID management (not data delegation) takes place

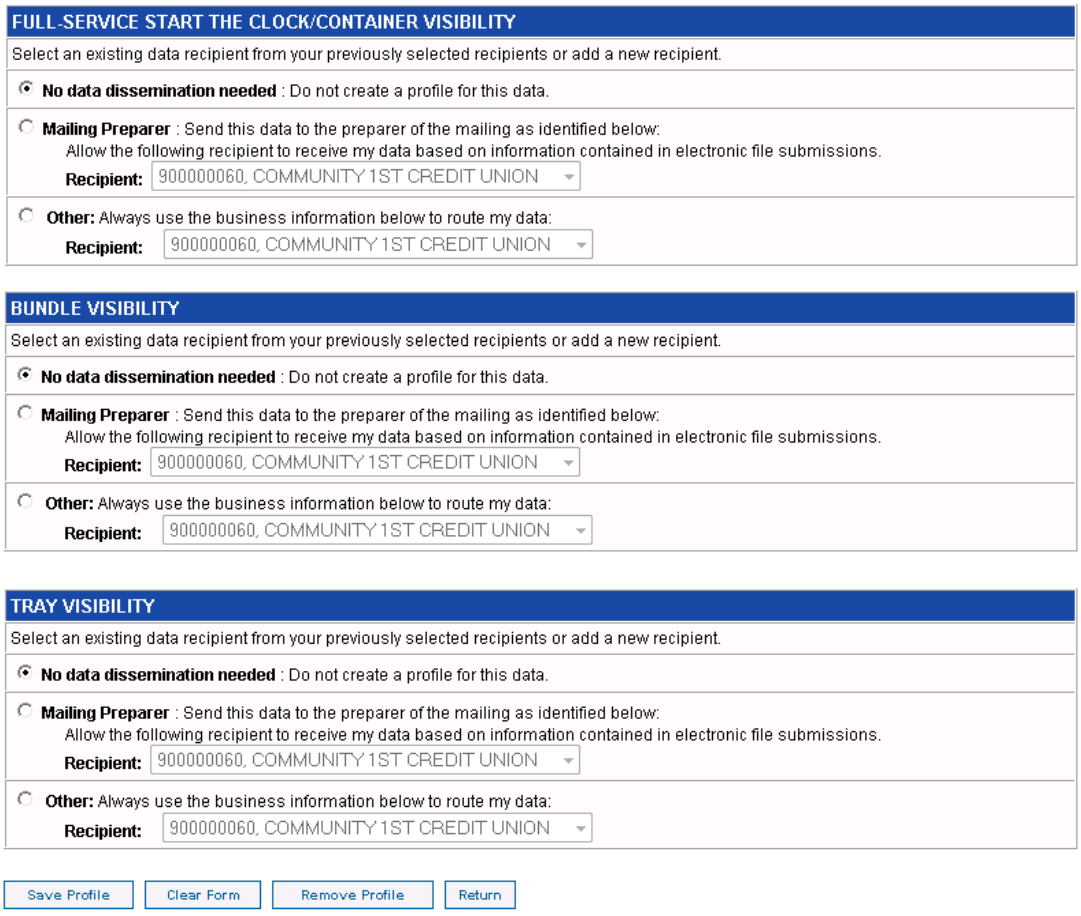


Figure 7: Bottom half of screen, where Data Distribution Profiles are defined

2.2.4 Setting Container Visibility Delegation

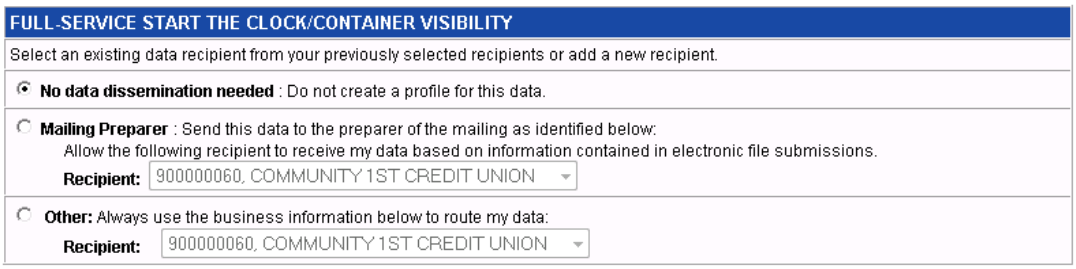


Figure 8: Container Visibility Delegation

2.2.5 Setting Tray Visibility Delegation

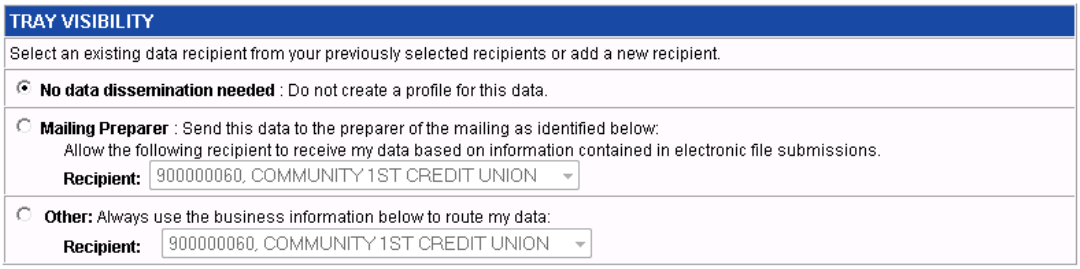


Figure 9: Tray Visibility Delegation

2.2.6 Setting Bundle Visibility Delegation

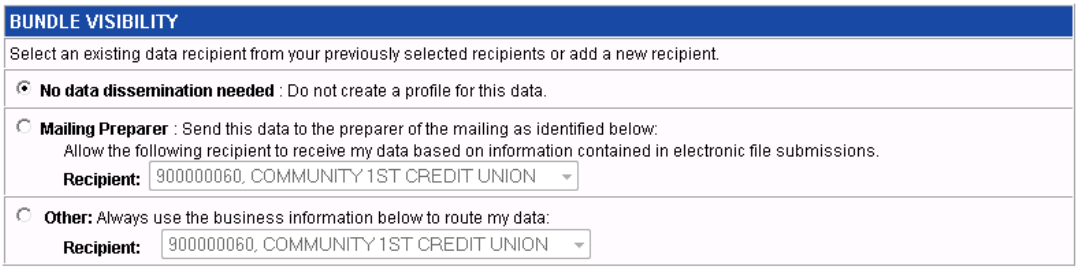


Figure 10: Bundle Visibility Delegation

3 Data Distribution Options

The *PostalOne!* system distributes container, tray and bundle visibility data to authorized users using the following two options:

1. *PostalOne!* Reports (Online and Downloadable)
2. Mail.XML™ messaging

Note: The availability of data is dependent on operational events and system processing. As a result, there will be a delay in data availability.

3.1 PostalOne! Reports

3.1.1 Accessing *PostalOne!* Reports via Data Distribution Dashboard

Container, tray, and bundle visibility reports are available via the *PostalOne!* Business Customer Gateway at **https://gateway.usps.com/bcg/login.htm**.

Following is the step-by-step process of accessing Informed Visibility reports along with the screen shots of each step:

STEP 1 - Login to Customer gateway at **https://gateway.usps.com/bcg/login.htm** using a valid username and password.

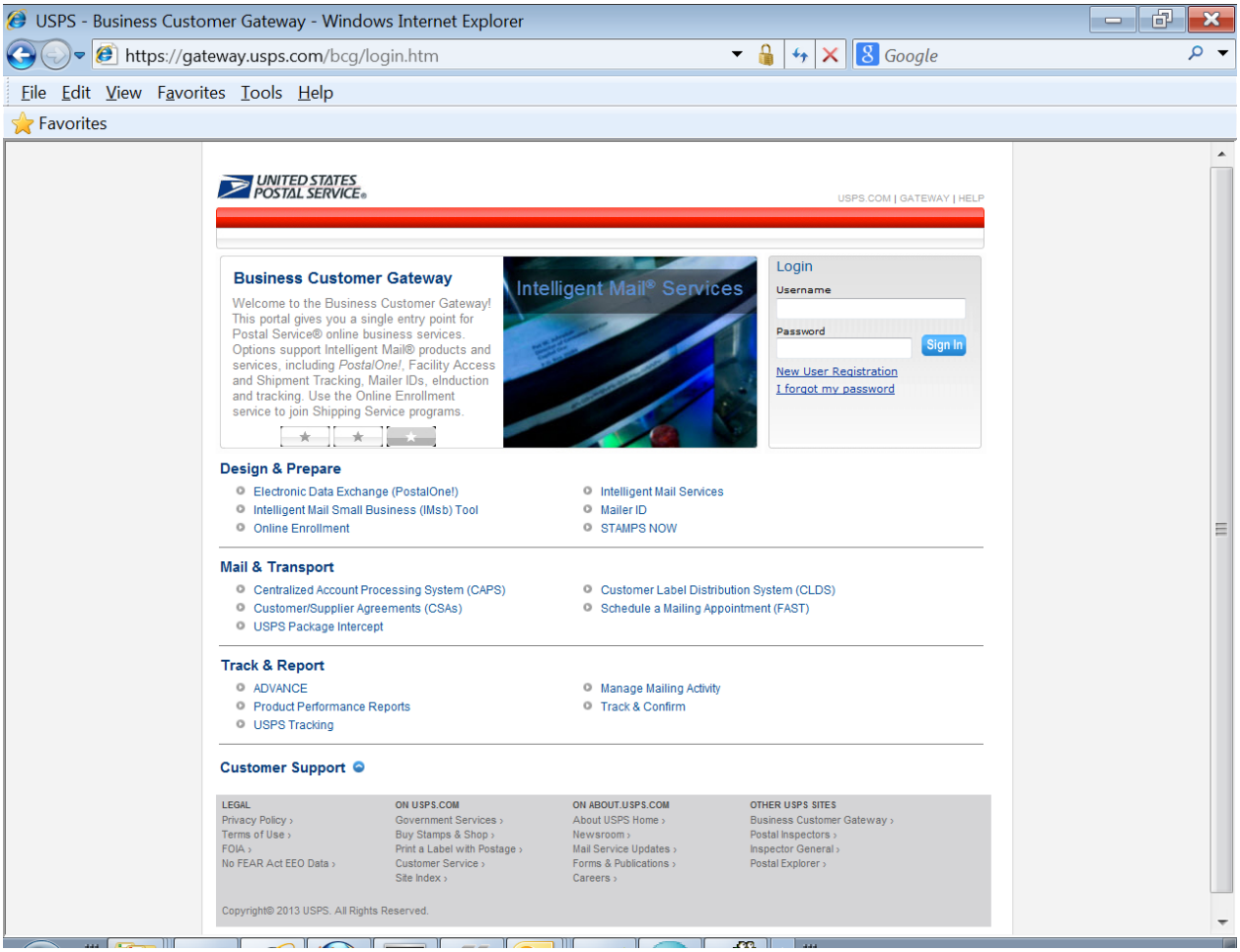


Figure 11: External Customer login through BCG

STEP 2 - Navigate through the home page by clicking on “Mailing Reports (*PostalOne!*)” under “Tools and Wizard” section.

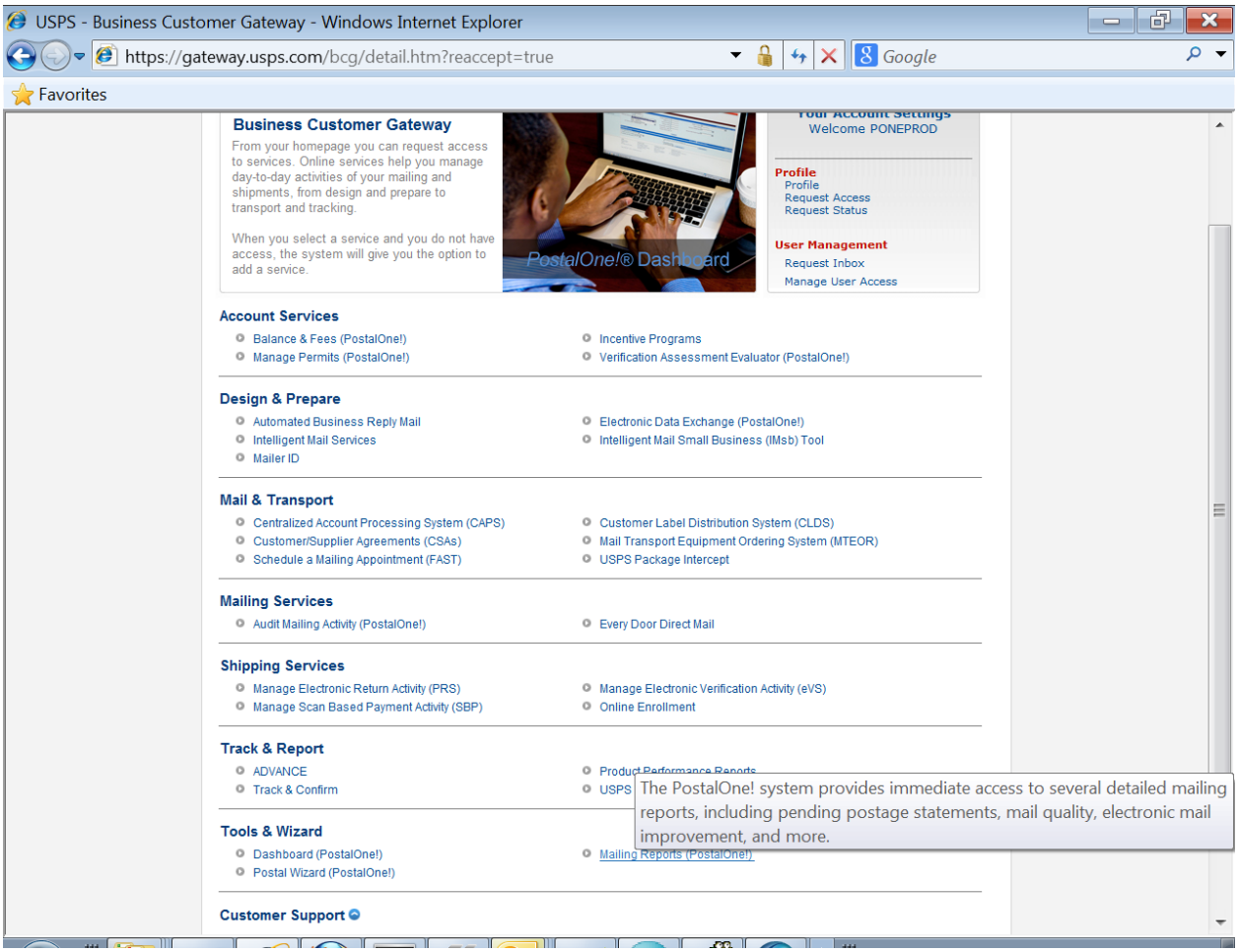


Figure 12: User Home Page

STEP 3 - Navigate through the home page by clicking on the “Data Distribution/Informed Visibility Dashboard” link under “Full Service” section.

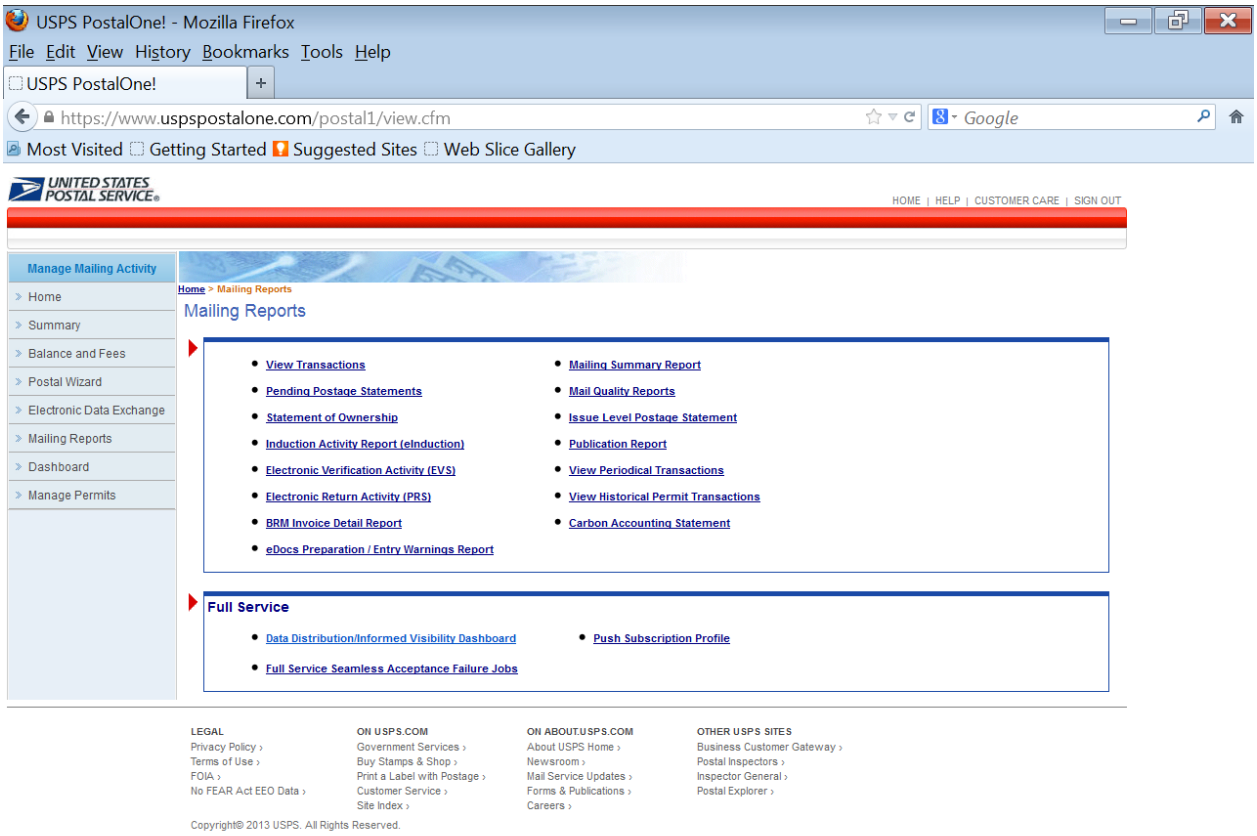


Figure 13: Mailing Reports Page

3.1.2 Accessing the Informed Visibility Query and Reporting Interface

From the *PostalOne!* Data Distribution Dashboard, users can navigate to the Informed Visibility query interface in two ways.

The first way to navigate to the Informed Visibility query interface is to click on the "[Download/Online]" action link associated to the "2. Informed Visibility Report" report type on the "Online & Downloadable Reports" tab of the *PostalOne!* Data Distribution Dashboard. See Figure 3.1.2-1 for a screenshot of this page.

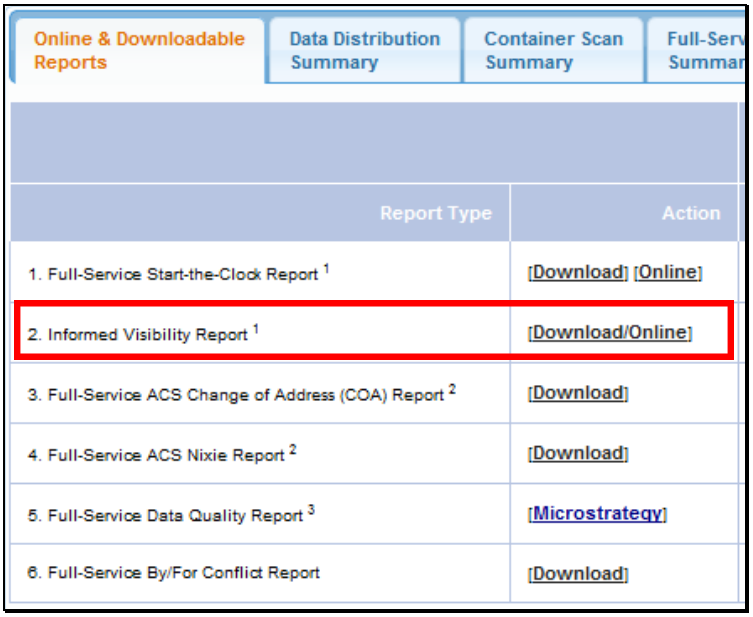


Figure 14: "Online & Downloadable Reports" tab of the PostalOne! Data Distribution Dashboard

The second way to navigate to the Informed Visibility query interface, is to click on the "Informed Visibility" tab of the *PostalOne!* Data Distribution Dashboard. See Figure 3.1.2-2 for a screenshot of this page.

Figure 15: "Informed Visibility" tab of the PostalOne! Data Distribution Dashboard

3.1.3 Informed Visibility Search Page

Clicking on the “Data Distribution/Informed Visibility Dashboard” will bring user to the following search screen.

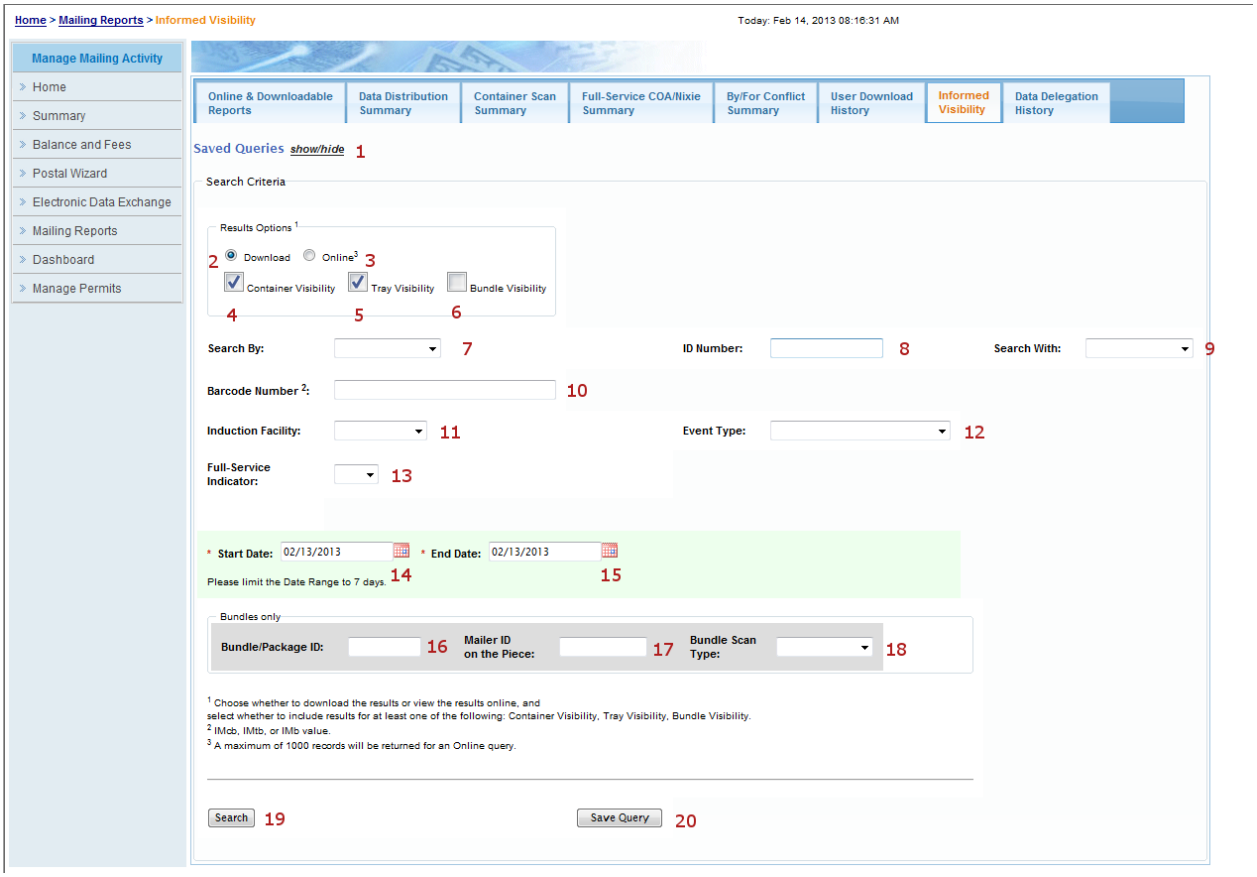


Figure 16: Informed Visibility Search Page

No.	Field	Description	Example
1	Saved Queries show/hide option	Show or hide the saved query of a user	
2	Download radio button	Download the search result	
3	Online radio button	View the search result online	
4	Container Visibility checkbox	Selecting this checkbox will show the results of Container Visibility	
5	Tray Visibility checkbox	Selecting this checkbox will show the results of Tray Visibility	
6	Bundle Visibility checkbox	Selecting this checkbox will show the results of Bundle Visibility	
7	Search By dropdown	Used in conjunction with ID Number text box. Dropdown options consist of: Job ID or Mailing Group ID.	‘Job ID’, ‘Mailing Group ID’
8	ID Number text box	Used in conjunction with Search By dropdown. Can be used to search for Job ID or Mailer Group ID, depending on which Search By dropdown option is selected.	

No.	Field	Description	Example
9	Search With dropdown	Used in conjunction with Barcode Number text box. Dropdown options consist of: 'exact value', 'starting value', 'ending value', 'containing value'	'exact value', 'starting value', 'ending value', 'containing value'
10	Barcode Number text box	Used in conjunction with Search With dropdown. This field is used to search for an Intelligent Barcode – either an IMcb, IMtb, or IMb. A full or partial value can be entered into this field, depending on which Search With dropdown option is selected.	
11	Induction Facility dropdown	Name of the USPS facility where scan event was captured (selectable based on available data). Optional. If left blank, all matching Induction Facilities will be returned.	
12	Event Type dropdown	Used to limit which Event Type is returned. Optional. If left blank, all matching event types will be returned. (1) ***Electronic Information Received:*** USPS received finalized electronic documentation (2) ***Entered at USPS:*** Container or Orphan Handling Unit inducted to USPS network (scan used for Start-the-Clock) (3) ***Enroute Arrive:*** Container or Tray arrived at a USPS facility or Airport (4) ***Enroute:*** Tray or Bundle was processed at a USPS facility on sorting equipment (5) ***Enroute Depart:*** Container or Tray departed a USPS facility or Airport (6) ***Out for Delivery:*** Bundle departed Delivery Unit	'Electronic Information Received', 'Entered at USPS', 'Enroute Arrive', 'Enroute', 'Enroute Depart', 'Out for Delivery'
13	Full-Service Indicator dropdown	Used to filter based on how the mail was prepared. Dropdown options consist of: Yes (Full-Service) and No (Non Full-Service). **Note:** Non Full-Service is not included as of October 2012.	'No', 'Yes'
14	Start Date text box	Start Date of Full-Service available date range. Used in conjunction with End Date. Start Date is required. Please note that data is kept for a period of 45 days.	

No.	Field	Description	Example
15	End Date text box	End Date of Full-Service available date range. Used in conjunction with Start Date. End Date is required. Please note that data is kept for a period of 45 days. **Note:** Full-Service Available Date reflects when data is loaded to the *PostalOne!* System and is available for customer access. This date does not represent the actual scan event date/time. Please limit the Date Range to 7 days.	
16	Bundle/Package ID text box	Bundle/Package ID submitted in electronic documentation. Used to uniquely identify a bundle or a package within a job	
17	Mailer ID on the Piece text box	MID used within the Intelligent Mail Barcode	
18	Bundle Scan Type dropdown	Scan Type of the Bundle or Mailpiece a. ***Actual Only*** – includes IMb records on which bundle scan event was captured b. ***Assumed Only*** – includes IMb records on which mailpiece scan event is assumed based on bundle preparation/nesting in electronic documentation c. ***Both*** – includes both Actual bundle and Assumed mailpiece scan events **Note:** Mail Owners of Flats can subscribe to the Assumed scan data as a precaution, assuming that their mailpice may not be the top piece on the bundle. Assumed Scan data time will match the date/time of the top piece scan on a bundle.	'Actual Only', 'Assumed Only', 'Both'
19	Search button	Executes search using selected criteria.	
20	Save Query button	Save the search criteria to a query in the database, for use later.	

Table 1: Informed Visibility Search Page Field Description

3.1.3.1 Saving a Query

Informed Visibility Search page gives user an option to save the query for later use. After selection all the option the customer has to click on 'Save Query' button and the following screen will appear. Customer has to then give a name the query and click on 'Save' button to save the query for later use. A confirmation message will appear on the screen with the name of the query that has been saved in the *PostalOne!* database.

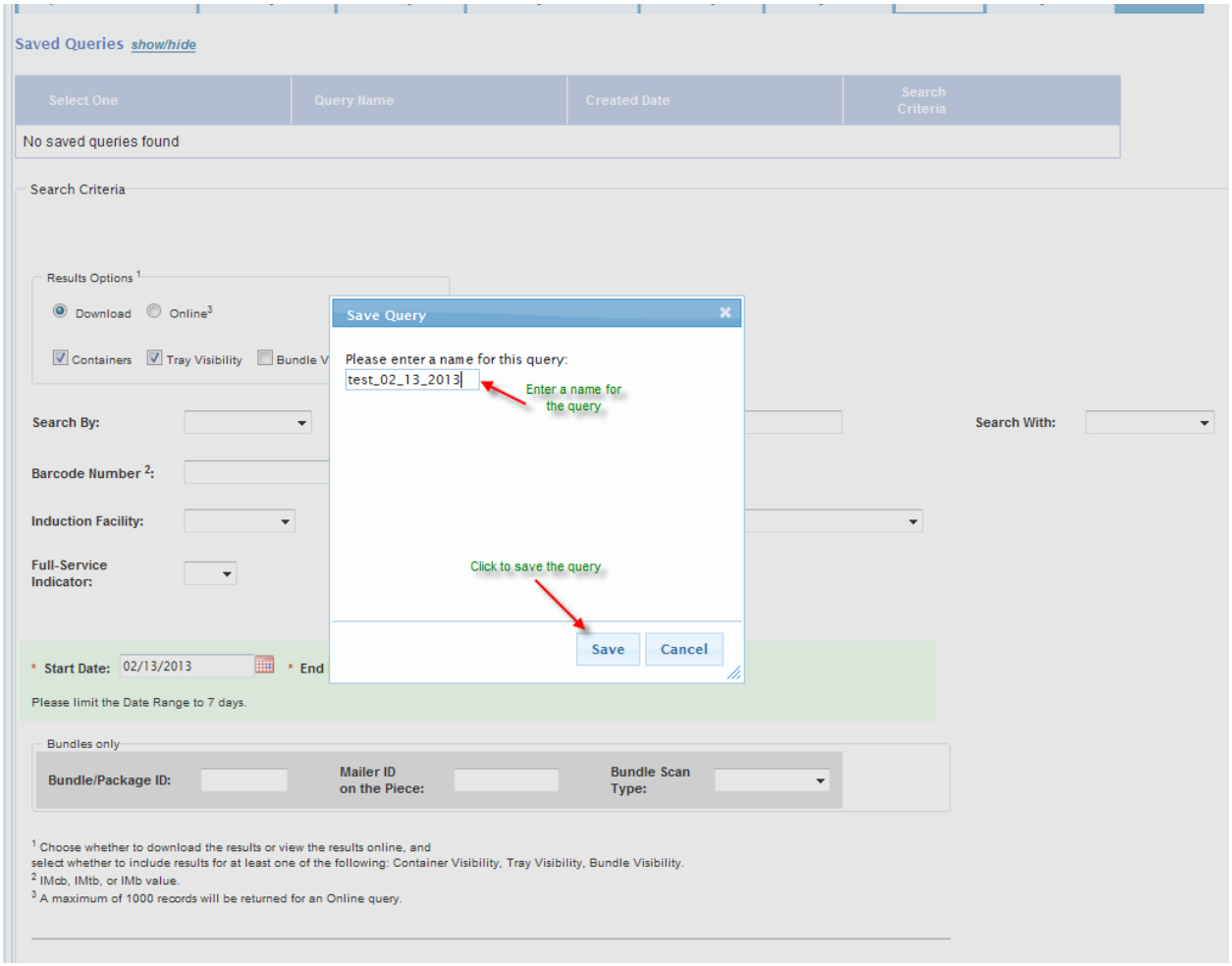


Figure 17: Saving a Query

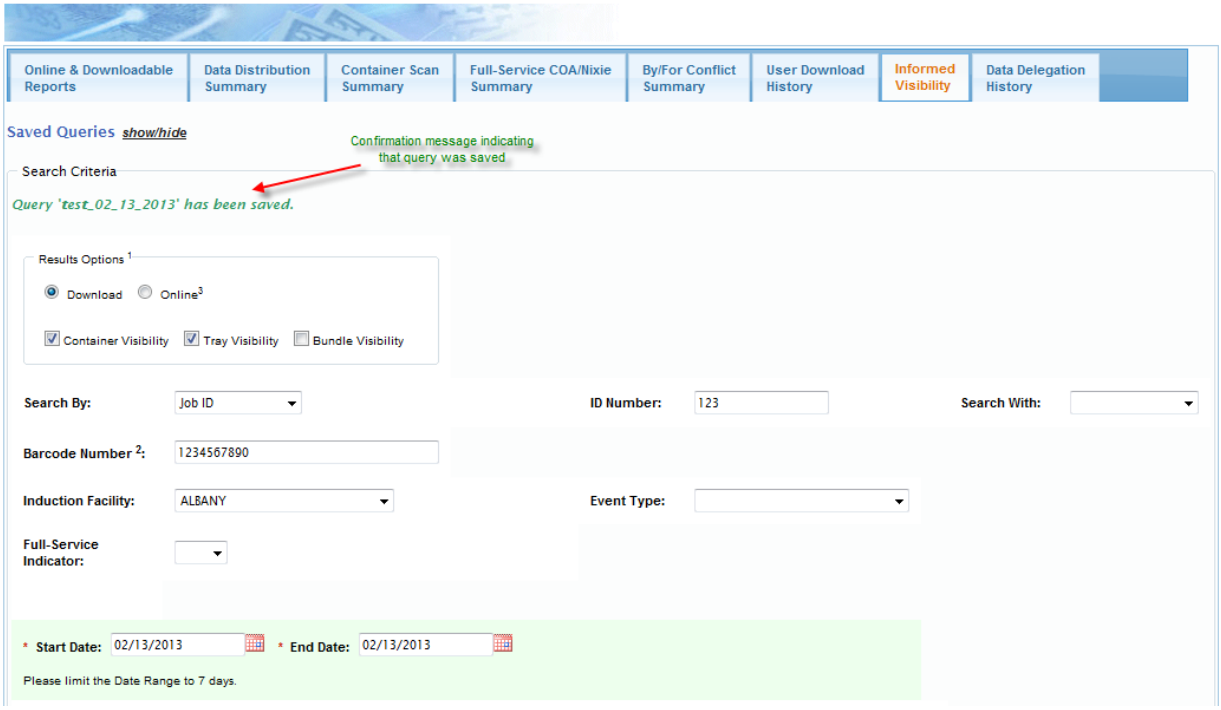


Figure 18: Saving a Query Confirmation

3.1.3.2 Using a Saved Query

Customer can use its saved query for its search instead of selecting all the options again. The names of the queries saved in the database appear on the screen and customer can select the query by clicking on the Select Radio button.

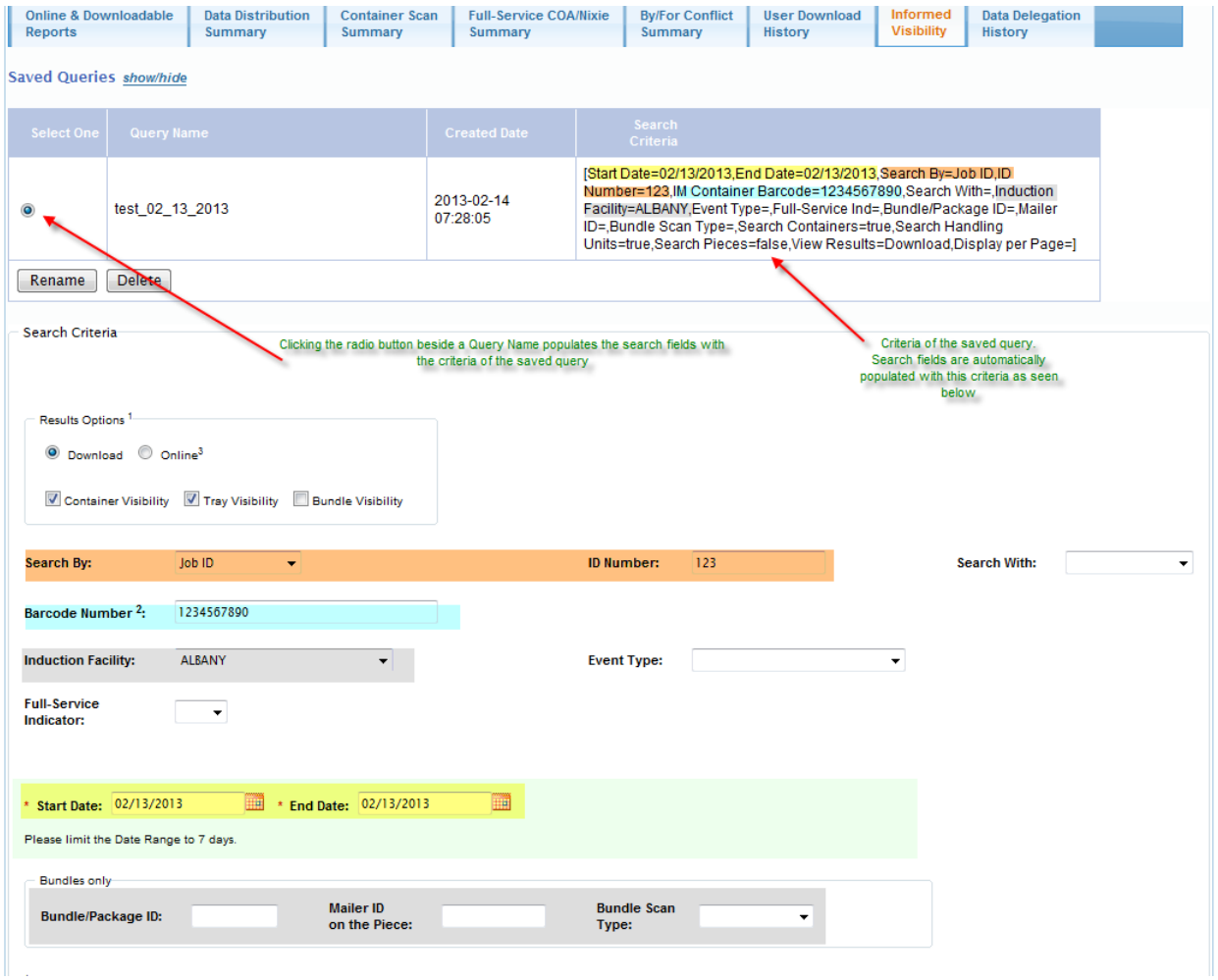
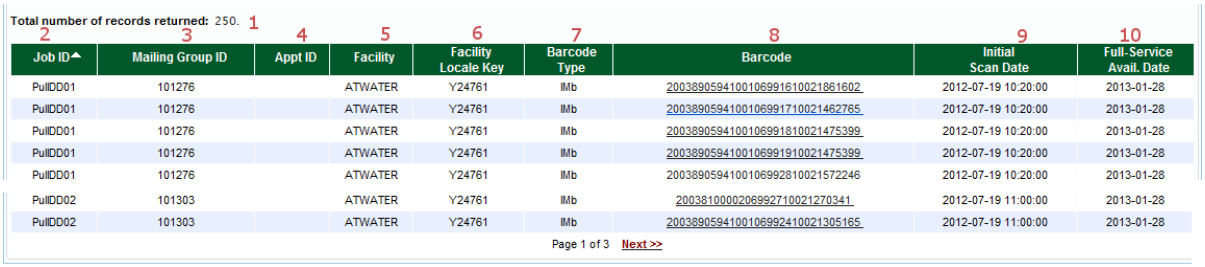


Figure 19: Using a Saved Query

3.1.4 Informed Visibility Online Report

As of October 2012, in-line report functionality has been made available on the Informed Visiblity page. Results will be limited to a subset of 1000 records returned for online functionality. Report pages for container, tray, and piece data are shown below.



Total number of records returned: 250. 1

2 Job ID	3 Mailing Group ID	4 Appt ID	5 Facility	6 Facility Locale Key	7 Barcode Type	8 Barcode	9 Initial Scan Date	10 Full-Service Avail. Date
PullDD01	101276		ATWATER	Y24761	IMb	00389059410010699161002186 1602	2012-07-19 10:20:00	2013-01-28
PullDD01	101276		ATWATER	Y24761	IMb	00389059410010699171002146 2765	2012-07-19 10:20:00	2013-01-28
PullDD01	101276		ATWATER	Y24761	IMb	00389059410010699181002147 5399	2012-07-19 10:20:00	2013-01-28
PullDD01	101276		ATWATER	Y24761	IMb	00389059410010699191002147 5399	2012-07-19 10:20:00	2013-01-28
PullDD01	101276		ATWATER	Y24761	IMb	00389059410010699281002157 2246	2012-07-19 10:20:00	2013-01-28
PullDD02	101303		ATWATER	Y24761	IMb	00381000020699271002127 0341	2012-07-19 11:00:00	2013-01-28
PullDD02	101303		ATWATER	Y24761	IMb	00389059410010699241002130 5165	2012-07-19 11:00:00	2013-01-28

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Figure 20: BCG Informed Visibility Online Results

NOTE: Results will be limited to a subset of 1000 records returned for online reports.

No.	Field	Description	Example
1	Total number of records returned	Total number of records returned by the search criteria, will be paginated if exeeds the page limit.	
2	Job ID	Mail.dat Job ID for the specific container/bundle/package or piece	
3	Mailing Group ID	Mailing Group ID for the specific container/bundle/package or piece	
4	Appt ID	FAST Appointment Number for the specific container (if available)	
5	Facility	Name of the Facility where Container/Tray/Bundle is scanned	
6	Facility Locale Key	Locale Key of the Facility where Container/Tray/Bundle is scanned	
7	Barcode Type	Type of the Barcode for Container/Tray/Bundle.	
8	Barcode	The actual barcode on the Container, Tray or Bundle.	
9	Initial Scan Date	Date when the container/tray/bundle is first scanned	
10	Full-Service Avail. Date	Date the data is available in *PostalOne!* system for reporting	

Table 2: BCG Informed Visibility Online Results Field Description

3.1.4.1 Container Screen

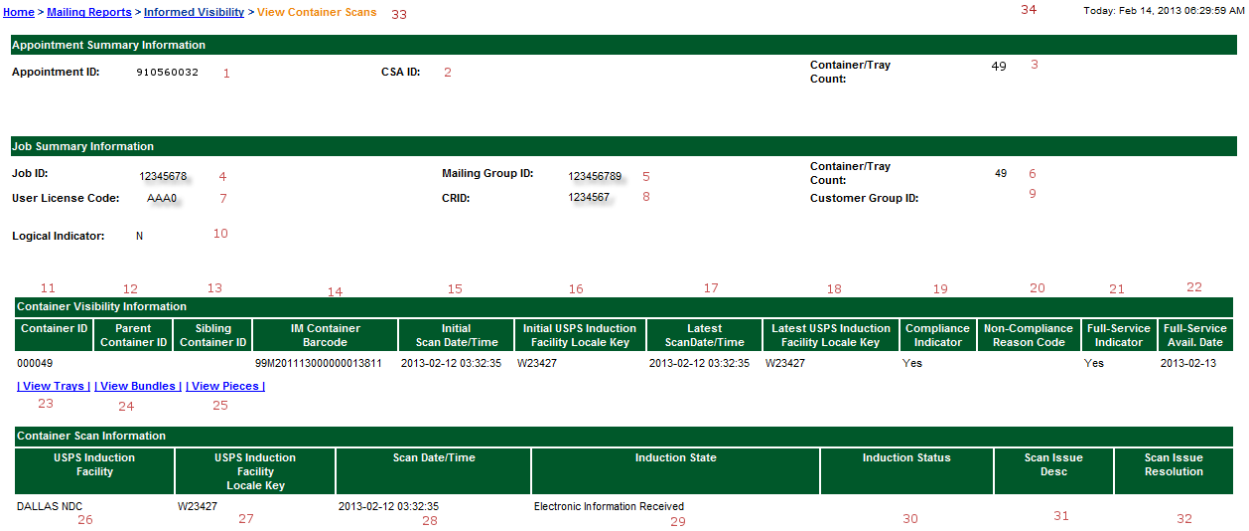


Figure 21: View Container Scans (select Parent Container Barcode on View Piece Scans)

No.	Field	Description	Example
1	Appointment ID	FAST Appointment Number for the specific container (if available)	
2	CSA ID	CSA Trip ID for the specific container (if available)	
3	Container/Tray Count	Container/Tray counts grouped by Appointment ID/CSA ID	
4	Job ID	Mail.dat Job ID for the specific container/bundle/package or piece	
5	Mailing Group ID	Mailing Group ID for the specific container/bundle/package or piece	
6	Container/Tray Count	Container/Tray counts grouped by Maildat Job ID/Mailing Group ID	
7	User License Code	Four character code to uniquely identify the customer	
8	CRID	USPS-assigned id, Customer Registration ID to uniquely identify the submitter of electronic documentation to the PostalOne! system	
9	Customer Group ID	Mail.XML Customer Group ID for the specific container/bundle/package or piece	
10	Logical Indicator	Flag to indicate if the container is Physical or Logical Container	
11	Container ID	Six character container id to uniquely identify a container within a specific job.	
12	Parent Container ID	ID of the parent container, in case of parent/child relationship	
13	Sibling Container ID	ID of the sibling container in case of sibling/sibling relationship	
14	IM Container Barcode	Container Barcode	

No.	Field	Description	Example
15	Initial Scan Date/Time	Date the container is first scanned	
16	Initial USPS Induction Facility Locale Key	Locale Key of the facility where the container is first scanned	
17	Latest Scan Date/Time	Date the container is last scanned	
18	Latest USPS Induction Facility Locale Key	Locale Key of the facility where the container is last scanned	
19	Compliance Indicator	Flag to indicate if container is in Full Service compliance or not	
20	Non-compliance Reason Code	Reason code in case container is not in compliance.	
21	Full-Service Indicator	Flag to indicate if the container is a Full Service container or not	
22	Full-Service Avail. Date	Date the data is available in *PostalOne!* system for reporting	
23	View Trays	Hyper link to view Tray data	
24	View Bundles	Hyper link to view Bundle data	
25	View Pieces	Hyper link to view pieces inside the bundle	
26	USPS Induction Facility	Name of the Induction Facility	
27	USPS Induction Facility Locale Key	Locale Key of the Induction Facility.	
28	Scan Date/Time	Date/Time the scan is occurred	
29	Induction State	Scan State	Electronic Information Received, Entered at USPS, Enroute Arrive, Enroute, Enroute Depart
30	Induction Status	Scan Status	A = Accepted, R = Rejected
31	Scan Issue Desc	Description of any scan issues	
32	Scan Issue Resolution	Resolution of any scan issues	
33	Bread Crumb	Bread Crumb to show user navigation	
34	Current Date	Date the page is last refreshed	

Table 3: View Container Scans Field Description

3.1.4.2 *Tray Screen*

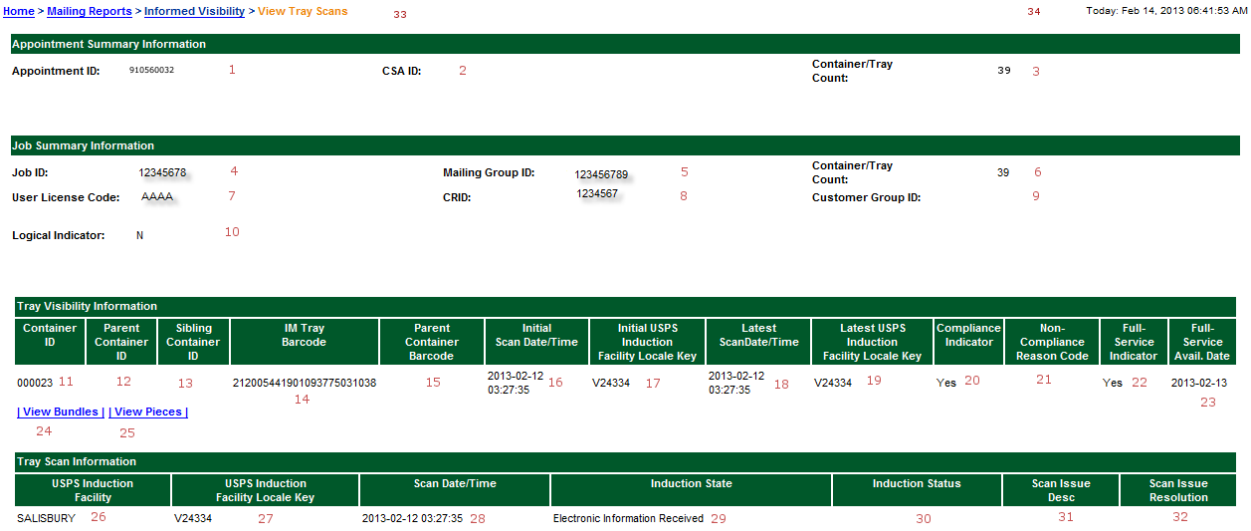


Figure 22: View Handling Unit Scans (select Parent Handling Unit Barcode on View Piece Scans)

No.	Field	Description	Example
1	Appointment ID	FAST Appointment Number for the specific container (if available)	
2	CSA ID	CSA Trip ID for the specific container (if available)	
3	Container/Tray Count	Container/Tray counts grouped by Appointment ID/CSA ID	
4	Job ID	Mail.dat Job ID for the specific container/bundle/package or piece	
5	Mailing Group ID	Mailing Group ID for the specific container/bundle/package or piece	
6	Container/Tray Count	Container/Tray counts grouped by Maildat Job ID/Mailing Group ID	
7	User License Code	Four character code to uniquely identify the customer	
8	CRID	USPS-assigned id, Customer Registration ID to uniquely identify the submitter of electronic documentation to the PostalOne! system	
9	Customer Group ID	Mail.XML Customer Group ID for the specific container/bundle/package or piece	
10	Logical Indicator	Flag to indicate if the container is Physical or Logical Container	
11	Container ID	Six character container id to uniquely identify a container within a specific job.	
12	Parent Container ID	ID of the parent container, in case of parent/child relationship	
13	Sibling Container ID	ID of the sibling container in case of sibling/sibling relationship	
14	IM Tray Barcode	Barcode of the tray	

No.	Field	Description	Example
15	Parent Container Barcode	Barcode of the parent container, in case of parent/child relationship	
16	Initial Scan Date/Time	Date the container is first scanned	
17	Initial USPS Induction Facility Locale Key	Locale key of the induction facility where the container is first scanned	
18	Latest Scan Date/Time	Date the container is last scanned	
19	Latest USPS Induction Facility Locale Key	Locale key of the induction facility where the container is last scanned	
20	Compliance Indicator	Flag to indicate if container is in Full Service compliance or not	
21	Non-compliance Reason Code	Reason code in case container is not in compliance.	
22	Full-Service Indicator	Flag to indicate if the container is a Full Service container or not	
23	Full-Service Avail. Date	Date the data is available in *PostalOne!* system for reporting	
24	View Bundles	Hyper link to view Bundle data	
25	View Pieces	Hyper link to view pieces inside the bundle	
26	USPS Induction Facility	Name of the Induction Facility	
27	USPS Induction Facility Locale Key	Locale Key of the Induction Facility.	
28	Scan Date/Time	Date/Time the scan is occurred	
29	Induction State	Scan State	Electronic Information Received, Entered at USPS, Enroute Arrive, Enroute, Enroute Depart
30	Induction Status	Scan Status	A = Accepted, R = Rejected
31	Scan Issue Desc	Description of any scan issues	
32	Scan Issue Resolution	Resolution of any scan issues	
33	Bread Crumb	Bread Crumb to show user navigation	
34	Current Date	Date the page is last refreshed	

Table 4: View Handling Unit Scans Field Description

3.1.4.3 Bundle screen

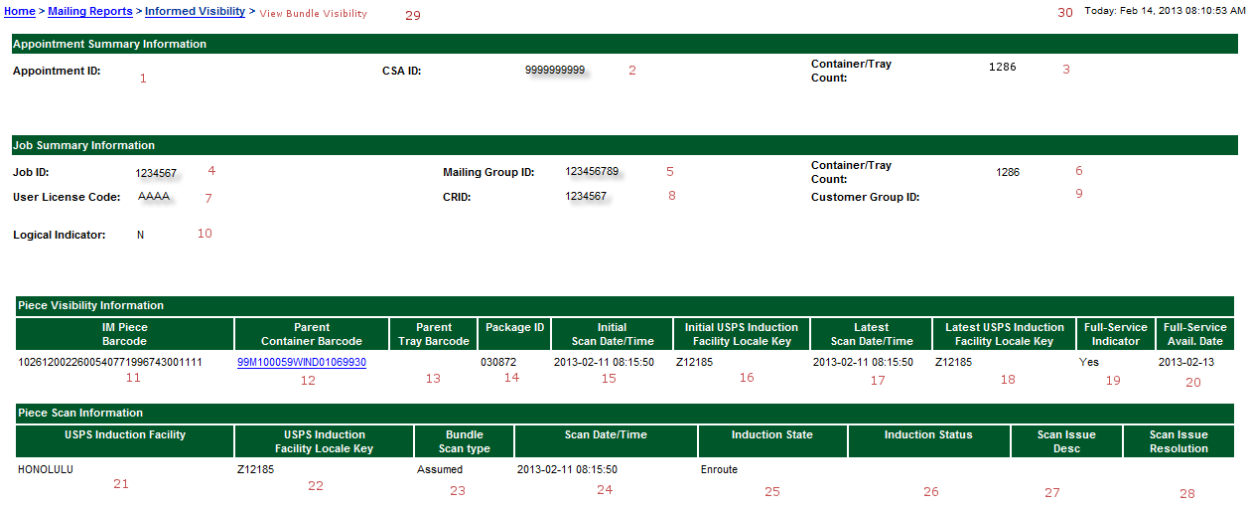


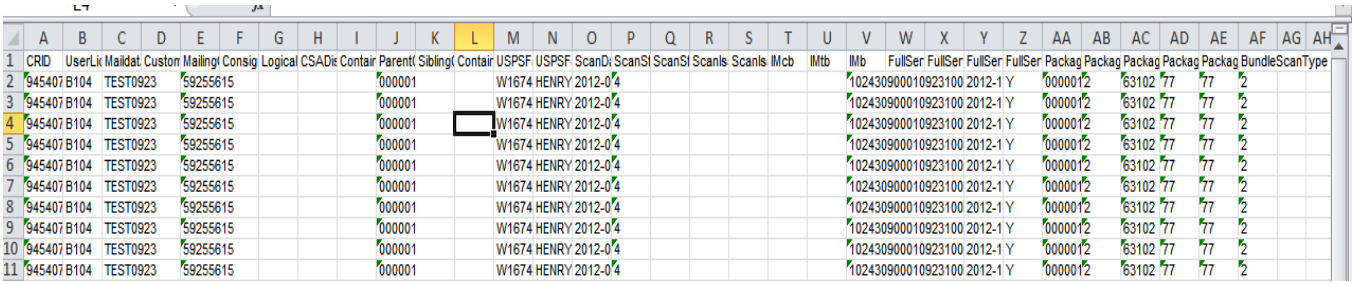
Figure 23: View Piece Scans (select Barcode after Pieces returned on Query page)

No.	Field	Description	Example
1	Appointment ID	FAST Appointment Number for the specific container (if available)	
2	CSA ID	CSA Trip ID for the specific container (if available)	
3	Container/Tray Count	Container/Tray counts grouped by Appointment ID/CSA ID	
4	Job ID	Mail.dat Job ID for the specific container/bundle/package or piece	
5	Mailing Group ID	Mailing Group ID for the specific container/bundle/package or piece	
6	Container/Tray Count	Container/Tray counts grouped by Maildat Job ID/Mailing Group ID	
7	User License Code	Four character code to uniquely identify the customer	
8	CRID	USPS-assigned id, Customer Registration ID to uniquely identify the submitter of electronic documentation to the PostalOne! system	
9	Customer Group ID	Mail.XML Customer Group ID for the specific container/bundle/package or piece	
10	Logical Indicator	Flag to indicate if the container is Physical or Logical Container	
11	IM Piece Barcode	Piece Barcode	
12	Parent Container ID	ID of the parent container, in case of parent/child relationship	
13	Parent Tray Barcode	ID of the sibling container in case of sibling/sibling relationship	
14	Package ID	ID of the package	
15	Initial Scan Date/Time	Date the container is first scanned	
16	Initial USPS Induction Facility Locale Key	Locale Key of the facility where the container is first scanned	
17	Latest Scan Date/Time	Date the container is last scanned	
18	Latest USPS Induction Facility Locale Key	Locale Key of the facility where the container is last scanned	
19	Full-Service Indicator	Flag to indicate if container is in Full Service compliance or not	
20	Full-Service Avail. Date	Date the data is available in *PostalOne!* system for reporting	
21	USPS Induction Facility	Name of the Induction Facility	
22	USPS Induction Facility Locale Key	Locale Key of the Induction Facility.	
23	Bundle Scan Type	Scan Type of the Bundle	‘Actual’ or ‘Assumed’
24	Scan Date/Time	Date/Time the scan is occurred	
25	Induction State	Scan State	Electronic Information Received, Entered at USPS, Enroute Arrive, Enroute, Enroute Depart
26	Induction Status	Scan Status	A = Accepted, R = Rejected
27	Scan Issue Desc	Description of any scan issues	
28	Scan Issue Resolution	Resolution of any scan issues	

No.	Field	Description	Example
29	Bread Crumb	Bread Crumb to show user navigation	
30	Current Date	Date the page is last refreshed	

Table 5: View Piece Scans Field Description

3.1.5 Informed Visibility Downloadd Report



	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	AA	AB	AC	AD	AE	AF	AG	AH
1	CRID	UserLic	Maildat	Custom	Mailing(	Consig	Logical	CSADis	Contair	Parent(	Sibling(	Contair	USPSF	USPSF	ScanDa	ScanSt	ScanSt	ScanIs	ScanIs	IMcb	IMtb	IMb	FullSer	FullSer	FullSer	FullSer	Packag	Packag	Packag	Packag	Packag	BundleScanType		
2	945407	B104	TEST0923		59255615					000001			W1674	HENRY	2012-0	4						1024309000109231002012-1			Y	000001	2	63102	77	77	2		
3	945407	B104	TEST0923		59255615					000001			W1674	HENRY	2012-0	4						1024309000109231002012-1			Y	000001	2	63102	77	77	2		
4	945407	B104	TEST0923		59255615					000001			W1674	HENRY	2012-0	4						1024309000109231002012-1			Y	000001	2	63102	77	77	2		
5	945407	B104	TEST0923		59255615					000001			W1674	HENRY	2012-0	4						1024309000109231002012-1			Y	000001	2	63102	77	77	2		
6	945407	B104	TEST0923		59255615					000001			W1674	HENRY	2012-0	4						1024309000109231002012-1			Y	000001	2	63102	77	77	2		
7	945407	B104	TEST0923		59255615					000001			W1674	HENRY	2012-0	4						1024309000109231002012-1			Y	000001	2	63102	77	77	2		
8	945407	B104	TEST0923		59255615					000001			W1674	HENRY	2012-0	4						1024309000109231002012-1			Y	000001	2	63102	77	77	2		
9	945407	B104	TEST0923		59255615					000001			W1674	HENRY	2012-0	4						1024309000109231002012-1			Y	000001	2	63102	77	77	2		
10	945407	B104	TEST0923		59255615					000001			W1674	HENRY	2012-0	4						1024309000109231002012-1			Y	000001	2	63102	77	77	2		
11	945407	B104	TEST0923		59255615					000001			W1674	HENRY	2012-0	4						1024309000109231002012-1			Y	000001	2	63102	77	77	2		

Figure 24: Download Excel Format

No.	Column	Description	Example	Comments
A	CRID	Shows the Customer Registration ID (CRID) of the electronic documentation submitter		
B	UserLicenseCode	Four character USPS-assigned code to uniquely identify the customer		
C	MaildatJobID	Mail.dat Job ID for the specific container/bundle/package or piece		
D	CustomerGroupID	Mail.XML Customer Group ID for the specific container/bundle/package or piece		
E	MailingGroupID	Mailing Group ID for the specific container/bundle/package or piece		
F	ConsigneeApptID	FAST Appointment Number for the specific container (if available)		
G	LogicalIndicator	Flag to indicate if the container is Physical or Logical Container		
H	CSADispatchNumber	CSA Trip ID for the specific container (if available)		
I	ContainerID	Six character container id to uniquely identify a container within a specific job.		
J	ParentContainerID	ID of the parent container, in case of parent/child relationship		
K	SiblingContainerID	ID of the sibling container in case of sibling/sibling relationship		

No.	Column	Description	Example	Comments
L	ContainerType	Type of Container or Tray as indicated in the electronic documentation.	D, O, P, G, 1, S, E, 5, 3, 2, T, Z, F, 4	P = Pallet S = Sack (general) 1 = #1 Sack 2 = #2 Sack 3 = #3 Sack 4 = 01V Sack 5 = 03V Sack O = 1' Tray T = 2' Tray E = EMM Tray F = Flat Tub Z = User Pallet G = EIRS 66 – General Purpose Mail Container w/Gate D = EIRS 68 – Eastern Region Mail Container w/Web Door
M	USPSFacilityLocaleKey	Locale Key of the facility where the container, tray, or bundle was scanned		
N	USPSFacilityName	Name of the facility where the container, tray, or bundle was scanned		
O	ScanDateTime	Date/Time the scan occurred		
P	ScanState	Scan State	1, 2, 3, 4, 5, 6	1 = Electronic Information Received, 2 = Entered at USPS, 3 = Enroute Arrive, 4 = Enroute, 5 = Enroute Depart, 6 = Out for Delivery
Q	ScanStatus	Scan Status	A, R	A = Accepted, R = Rejected
R	ScanIssueDescription	Description of any scan issues		
S	ScanIssueResolution	Resolution of any scan issues		
T	IMcb	Barcode of Container		
U	IMtb	Barcode of Tray		
V	IMb	Barcode of Bundle/Piece		
W	FullServiceComplianceIndicator	Flag to indicate if container is in Full Service compliance or not		
X	FullServiceNonComplianceReasonCode	Reason for Non-Compliance, if not Full Service compliant		
Y	FullServiceAvailabilityDate	Date the data is available in PostalOne for reporting		
Z	FullServiceIndicator	Full Service Indicator		
AA	PackageId	Package ID to uniquely identifies a bundle within a job		

No.	Column	Description	Example	Comments
AB	PackageLevelCode	Bundle sortation level code	1,2,3,4,5,6,7,8, A, B, C, D, E, F, G, H, I, P, V, K, W, X, W	1 = Urban Direct 6 = FCP 2 = Rural Direct 7 = Residual 3 = Station 8 = Foreign 4 = City 5 = DCF Y = Alt Del - Bas A = Firm G = reserve M = MxAADC S = Multi-pc Parcel B = Carrier Route H = ADC N = reserve T = 3-D Scheme C = 5 Digit I = AADC O = Working U = 5-D Scheme + L007 D = Unique 3-Digit J = reserve P = reserve V = NDC E = reserve K = Origin MxADC Q = reserve W = 5-Digit Super Scheme F = 3 Digit L = MxADC R = Parcel X= FSS Sort plan
AC	PackageZipCode	ZIP Code for the bundle.		
AD	PackagePieceCount	Count of pieces inside the bundle		
AE	PackageCopiesCount	Count of copies inside the bundle.		
AF	BundleScanType	Scan Type of the Bundle	Online: 'Actual' or 'Assumed' Download: 1 or 2	'Actual', "Assumed is shown for Online results. 1,2 is shown for downloaded results where 1='Assumed', 2="Actual'

Figure 25: Download Excel Format Field Description

NOTE: Downloadable reports are available in .csv and .xls format.

3.2 Mail.XML™ Message Options

In addition to obtaining Container, Tray, and Bundle Visibility data through *PostalOne!* Reports (as described in Section 3.1), user can also obtain data using MailXML messages by using the following two options:

1. PUSH Messages – (Scheduled Subscriptions)
2. PULL Messages – (On Demand Requests)

Before using any of these two options customer has to go through a certification process (as described in appendix H) to ensure that its system is capable and ready to receive MailXML messages.

3.2.1 PUSH Messages

PUSH Messages are a set of MailXML 'Delivery' and 'Notification' messages. Customer can subscribe to either Delivery or Notification on a scheduled interval. If customer is subscribed to Delivery option, all the available data is PUSHed to customer at the specified interval. If customer is subscribed to Notification option, a notification message is sent to customer for the available data at the specified interval, customer can then PULL the data as needed.

3.2.1.1 PUSH Subscription Steps

In order to use PUSH functionality customer has to subscribe for a specific type of delivery or notification message via the *PostalOne!* Business Customer Gateway at **https://gateway.usps.com/bcg/login.htm**

Following is the step by step subscription process for PUSH messages along with the screen shots of each step:

STEP 1 - Login to Customer gateway at **https://gateway.usps.com/bcg/login.htm** using a valid username and password.

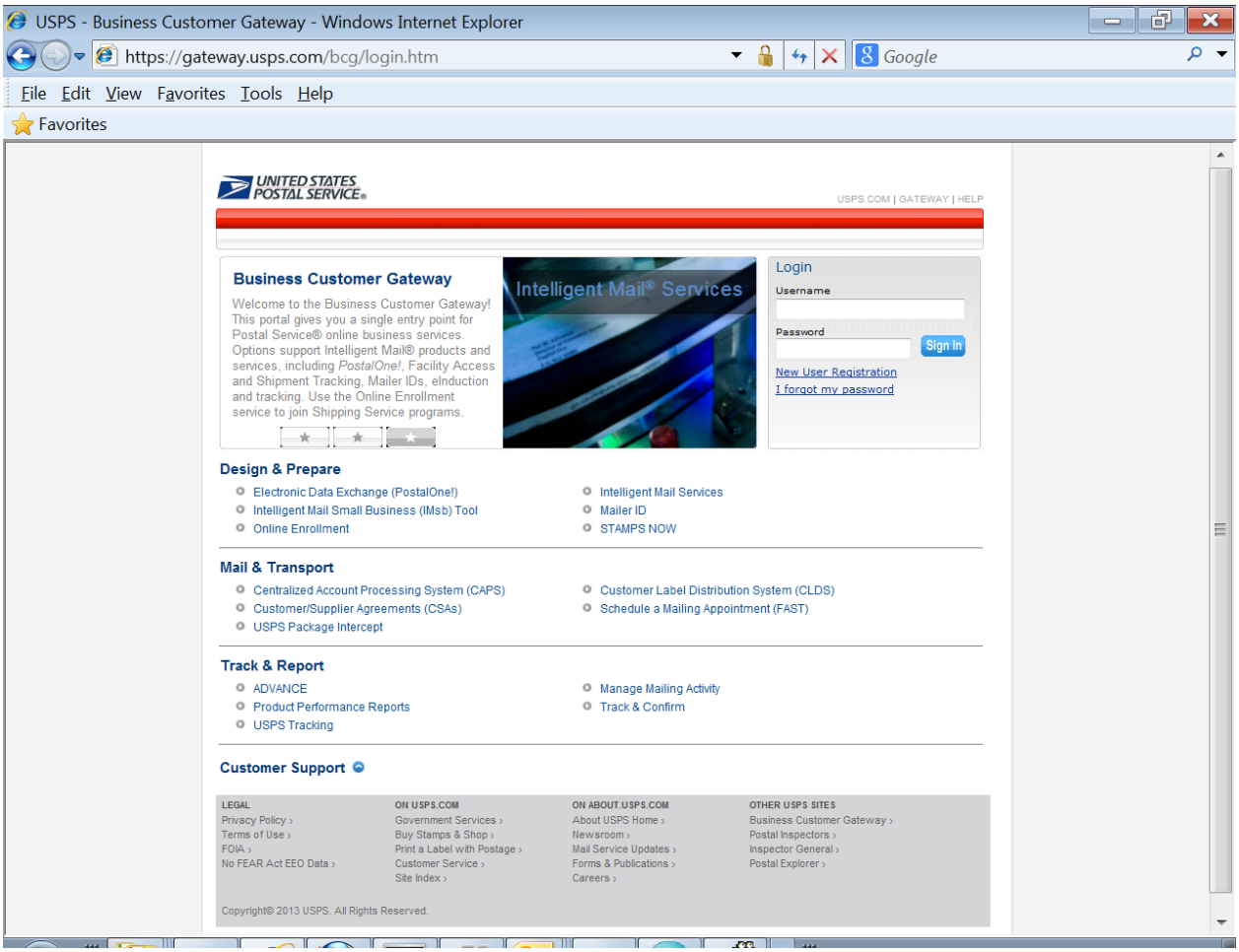


Figure 26: External user login page through Business Customer Gateway (BCG)

STEP 2 - Navigate through the home page by clicking on “Mailing Reports(PostalOne!)” under “Tools and Wizard” section.

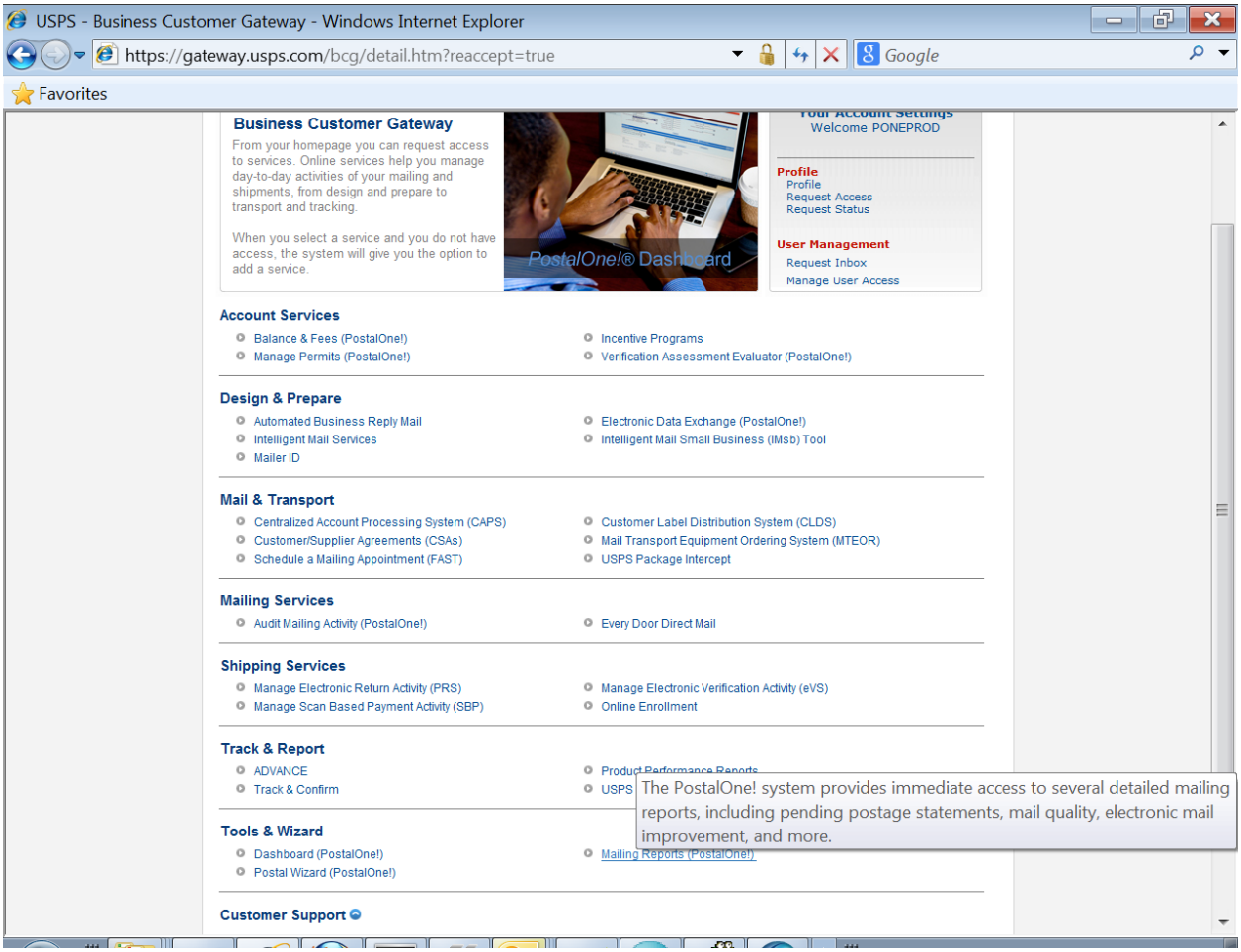


Figure 27: User Home Page

STEP 3 - Click the link “Push Subscription Profile” under “Full Service” section.

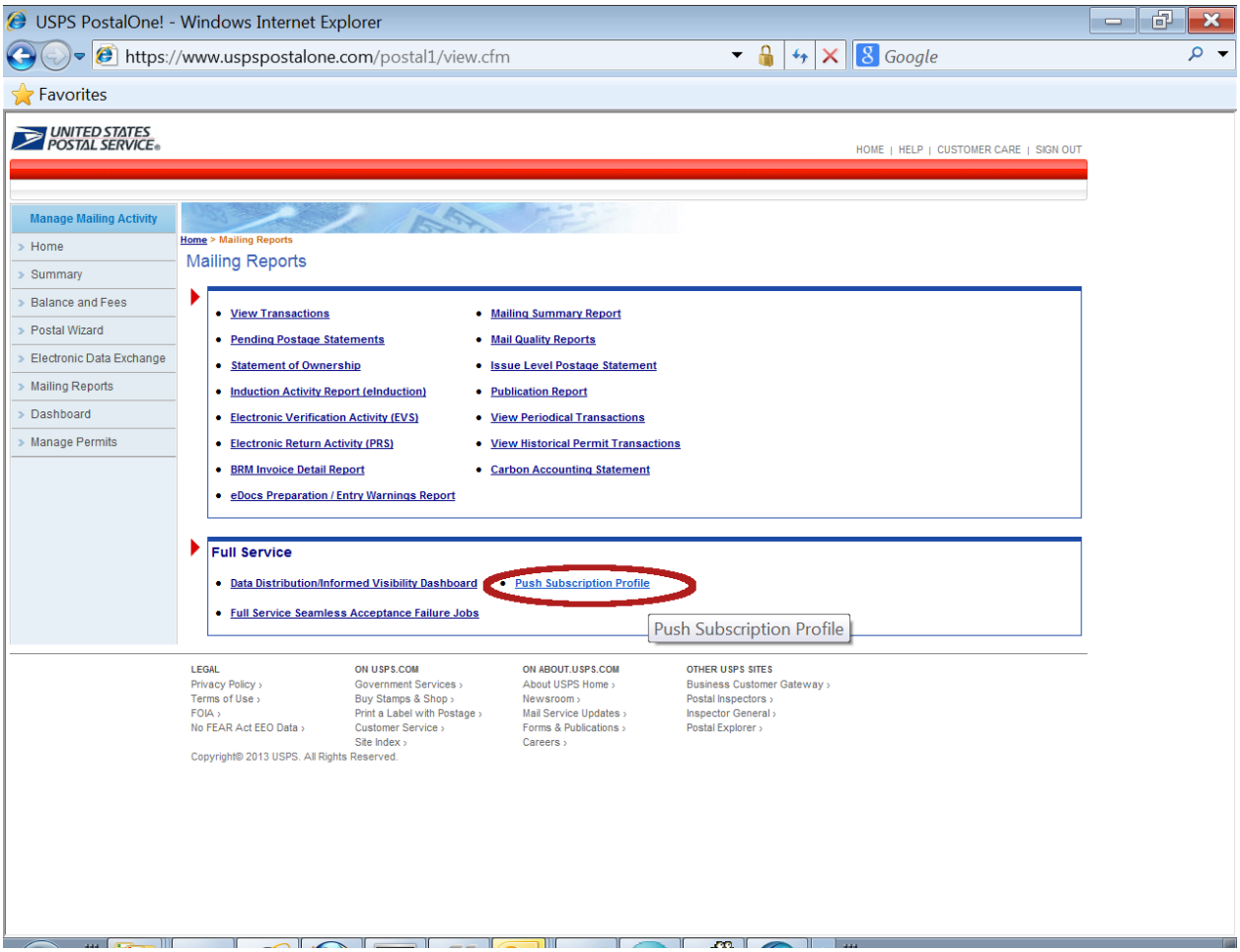


Figure 28: Mailing Reports Page

STEP 4 – Select a business entity (CRID) from the dropdown list for subscription.

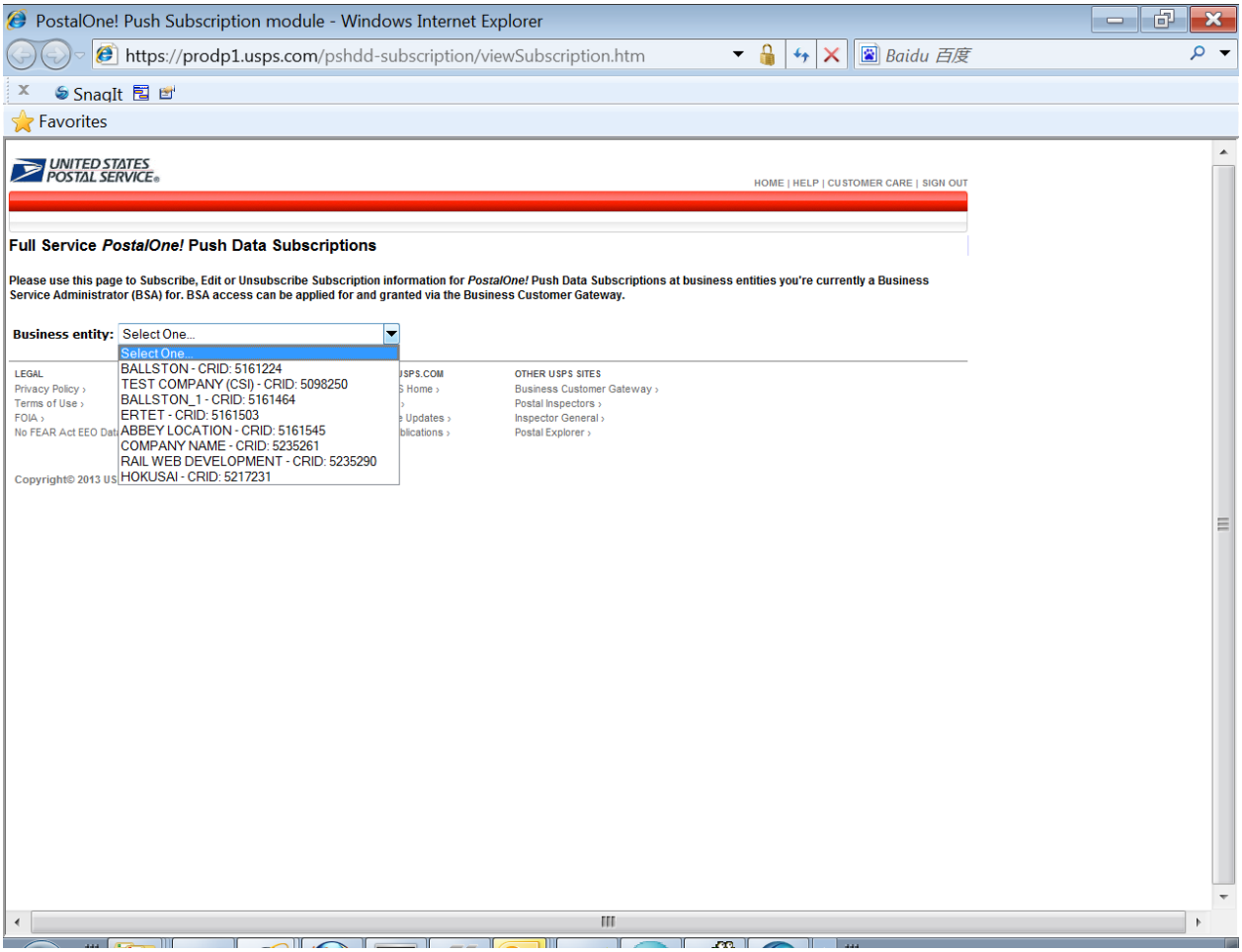


Figure 29: List of Business Entities (CRIDs) associated with the User

STEP 5 – Click on the “Push Data Type” to be subscribed, two available options for Informed Visibility data are “Container Visibility” and “Mail Piece Scan”.

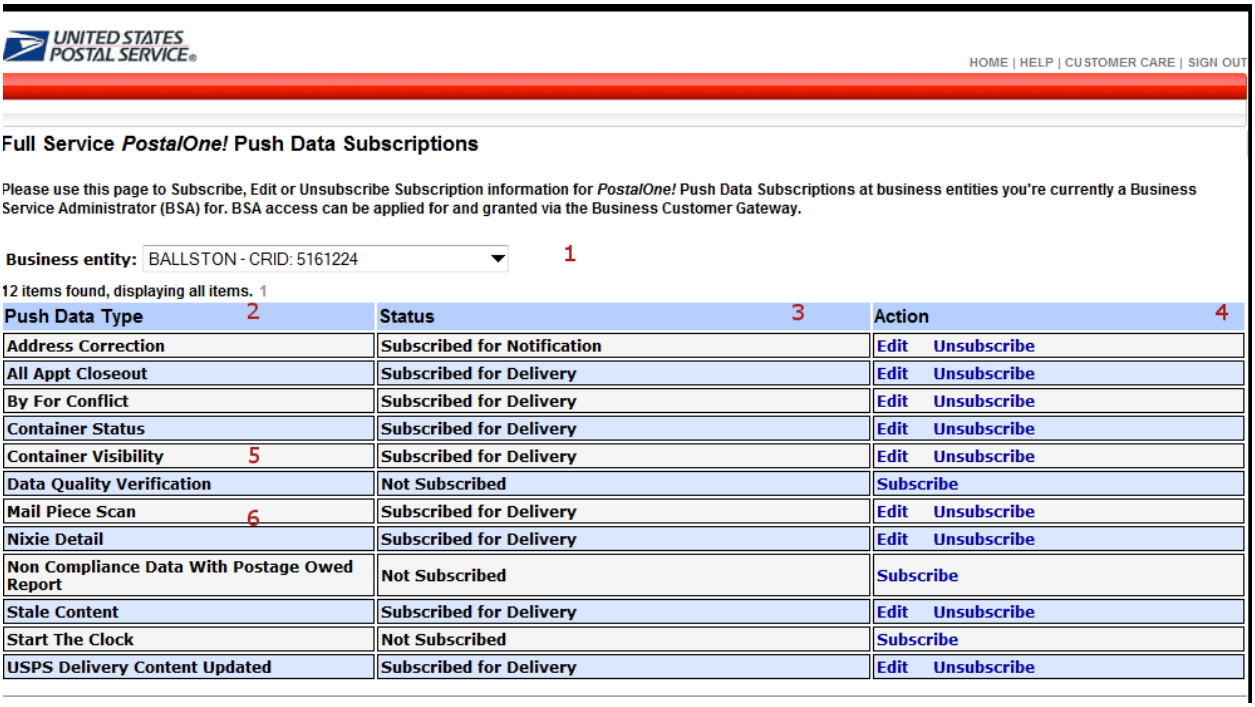


Figure 30: Push Data Subscriptions Page for a Selected Business Entity

No.	Field	Description	Example
1	Business Entity	Business Location linked with the User	
2	Push Data Type	List of messages User can subscribe to	‘Container Visibility’, ‘Mail Piece Scan’
3	Status	Status of the current message	‘Subscribed for Delivery’, ‘Subscribed for Notification’ or ‘Not Subscribed’
4	Action	Actions customer can perform on the message	‘Subscribe’, ‘Edit’ or ‘Unsubscribe’
5	Container Visibility	Subscription to Container and Tray Visbility data	
6	Mail Piece Scan	Subscription to Bundle Visibility data	

Table 6: Push Data Subscriptions Field Description

STEP 6a – Fill out the required information for Container Visibility Subscription (which provides Container and Tray Visibility)

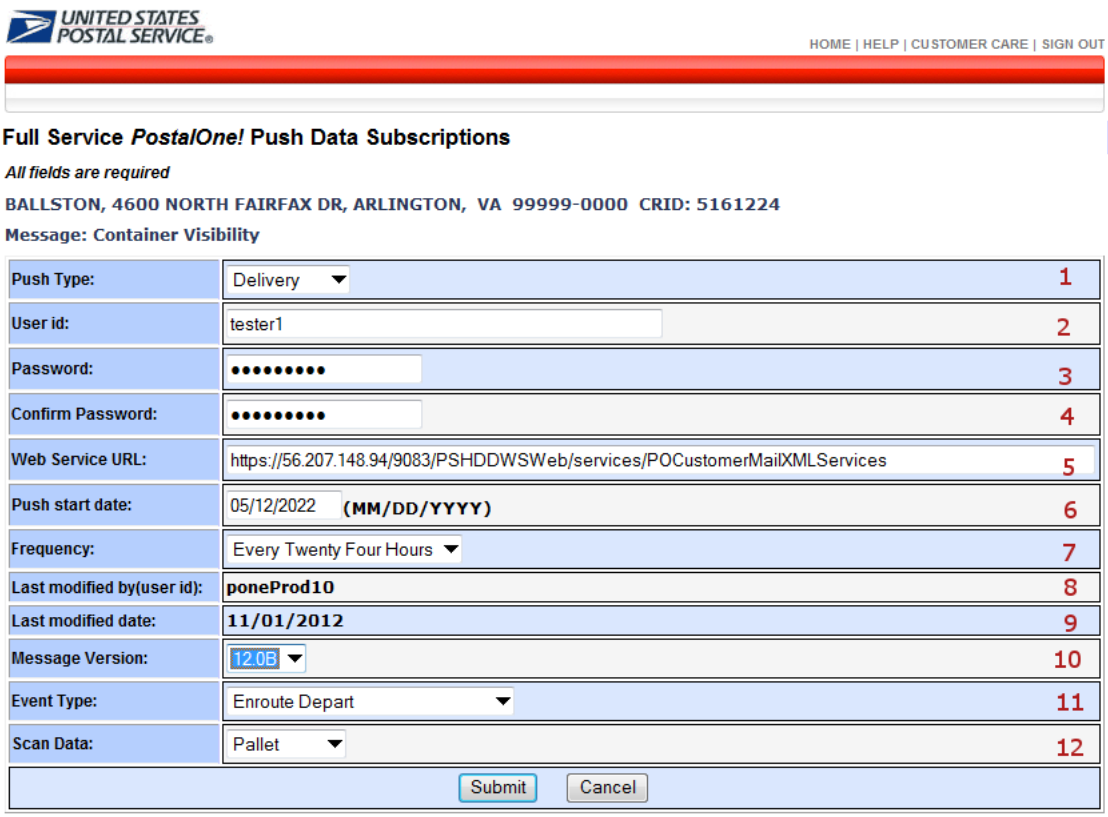


Figure 31: Push Data Subscriptions Page for Container Visibility Message

No.	Field	Description	Example
1	Push Type	Type of Push methods available for subscription	'Delivery' or 'Notification'
2	User id	User id of the web service hosted by the user where to push the messages	
3	Password	Password of the web service hosted by the user.	
4	Confirm Password	Confirm the password for the web service hosted by the user as the above	
5	Web Service URL	Web Service URL of the user's web service	
6	Push start date	Date the Push service needs to be started, must be a future date.	
7	Frequency	Frequency of Push Service	6 hours, 12 hours or 24 hours
8	Last modified by	User Id of the user that modified the subscription last time.	
9	Last modified date	Date the subscription last modified	
10	Message Version	MailXML supported versions, currently 12.0B is the latest supported version	

No.	Field	Description	Example
11	Event Type	Type of events customer can subscribe to	'All', 'Electronic Information Received', 'Entered at USPS', 'Enroute Arrive', 'Enroute', or 'Enroute Depart'
12	Scan Data	Scan types customer can subscribe to	"All", "Pallet" or "Tray/Sack."

Table 7: Push Data Subscriptions Page Field Description

STEP 6b - Fill out the required information for Mail Piece Scan Subscription (which provides Bundle Visibility).

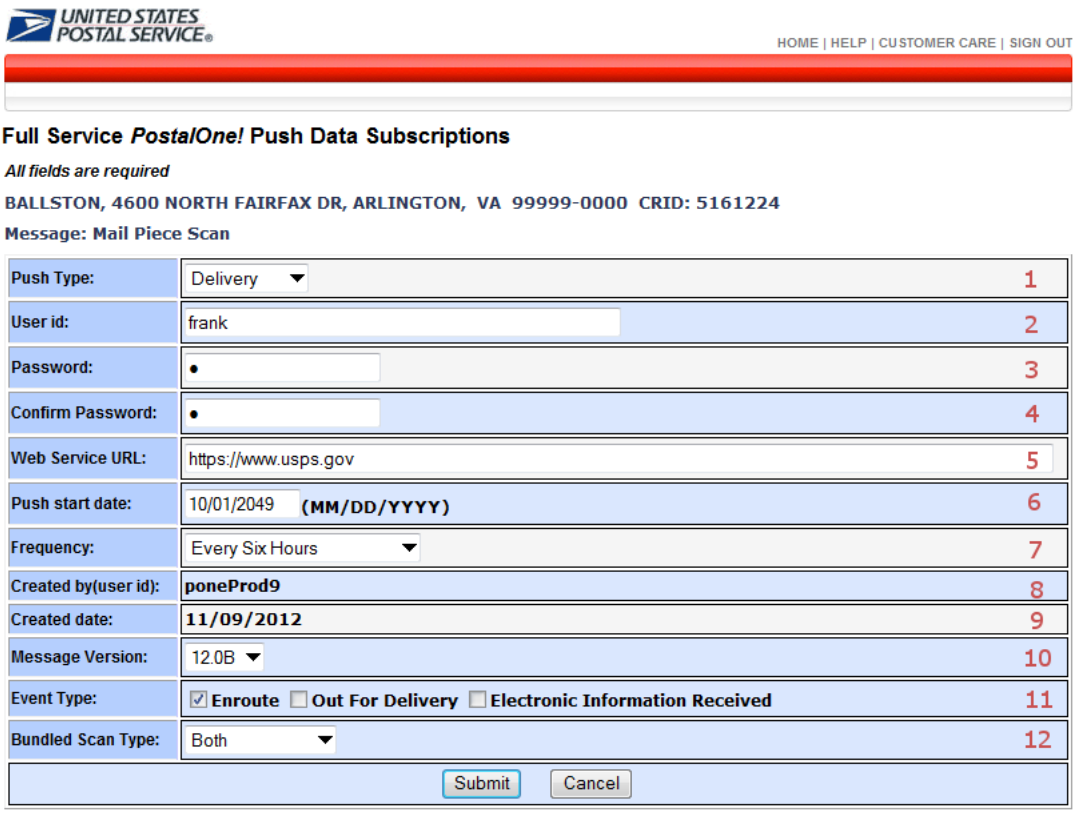


Figure 32: Push Data Subscriptions Page for Mail Piece Scan Message

No.	Field	Description	Example
1	Push Type	Type of Push methods available for subscription	'Delivery' or 'Notification'
2	User id	User id of the web service hosted by the user where to push the messages	
3	Password	Password of the web service hosted by the user.	
4	Confirm Password	Confirm the password for the web service hosted by the user as the above	
5	Web Service URL	Web Service URL of the user's web service	

No.	Field	Description	Example
6	Push start date	Date the Push service needs to be started, must be a future date.	
7	Frequency	Frequency of Push Service	6 hours, 12 hours or 24 hours
8	Last modified by	User Id of the user that modified the subscription last time.	
9	Last modified date	Date the subscription last modified	
10	Message Version	MailXML supported versions, currently 12.0B is the latest supported version	
11	Event Type	Available event types to be selected by customer, customer can check one or more event types.	
12	Bundled Scan Type	Scan types customer can subscribe to	'Both', 'Assumed Only', 'Actual Only'

Table 8: Push Data Subscriptions Page Field Description

STEP 7 – Click on OK to confirm changes to subscription.

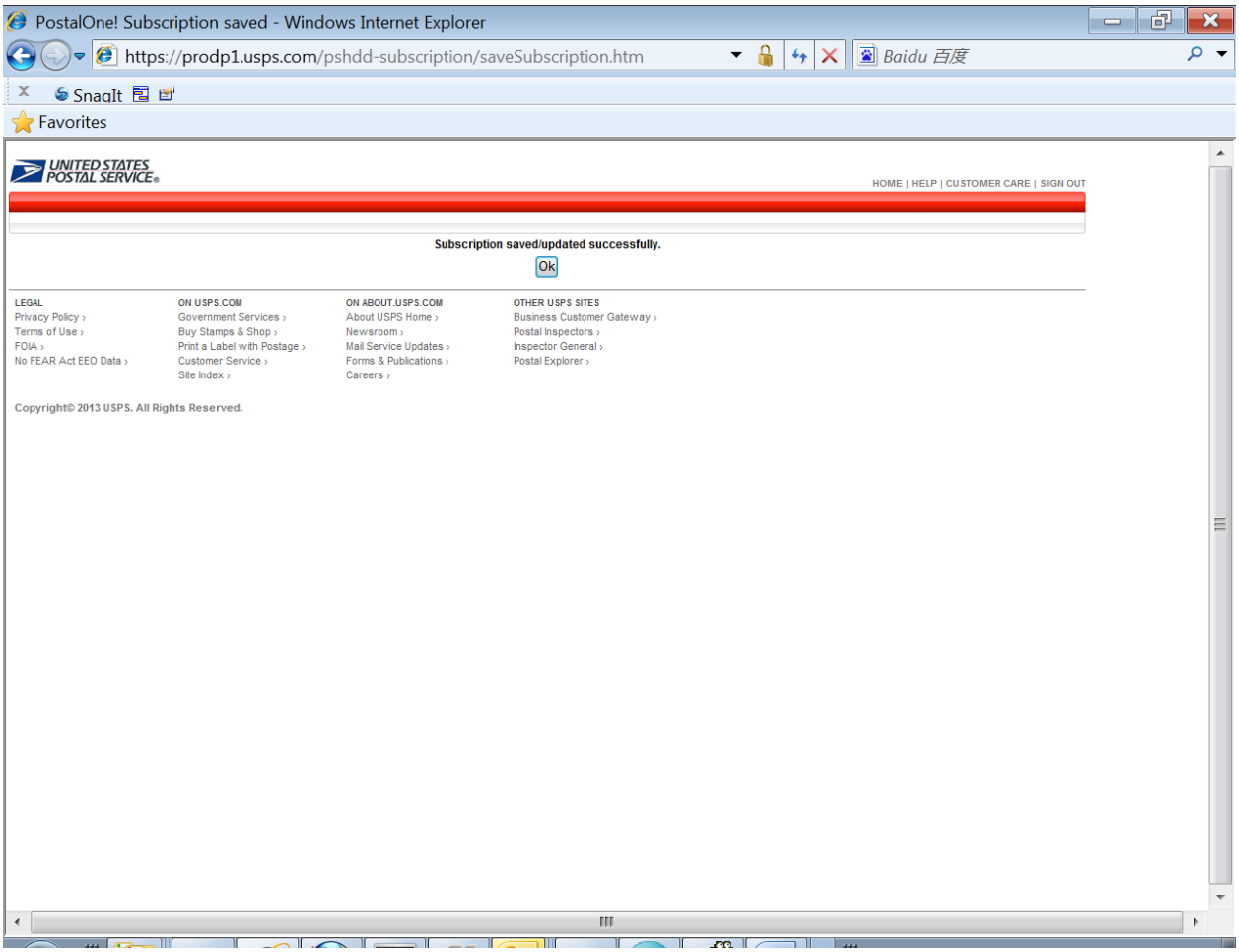


Figure 33: Subscription Confirmation page

3.2.1.2 Push Message Examples

Messages to expect through this subscription are:

- **ContainerVisibilityDelivery**: USPS sends this detail data delivery to the customer with all available ContainerVisibilityEntry
- **ContainerVisibilityDeliveryNotification**: USPS sends this notification to the customer and provides the Job information for the ContainerVisibilityEntry data that are available
- **MPSVisDelivery:** USPS sends detail data delivery to the customer for bundle visibility
- **MPSVisNotification:** USPS sends this notification to the customer for bundle visibility that is available

Note: The following schema is made available as a sample only. For actual details on the rules and data elements, please review the Data Distribution guides for the current Full-Service release. See Appendix J for step-by-step instructions on how to obtain the latest guides.

3.2.1.3 ContainerVisibilityDelivery

USPS sends this detail data delivery to the customer with all available ContainerVisibilityEntry

3.2.1.3.1 ContainerVisibilityDelivery Definition

The XML Schema Definition of *ContainerVisibilityDelivery* is shown below:

```
<xs:element name="ContainerVisibilityDelivery">
	<xs:annotation>
		<xs:documentation>Delivery of full service container visibility information by uSPS.</xs:documentation>
	</xs:annotation>
	<xs:complexType>
		<xs:sequence>
			<xs:element name="SubmittingParty" type="mailxml_defs:participantIDType" minOccurs="0"/>
			<xs:element name="SubmittingSoftware" type="mailxml_defs:submittingSoftwareType" minOccurs="0"/>
			<xs:element ref="mailxml_defs:DataRecipient" minOccurs="0"/>
			<xs:element name="PushMessageID" type="mailxml_base:s25" minOccurs="0"/>
			<xs:element ref="mailxml_dd:ContainerVisibilityEntry" minOccurs="1" maxOccurs="unbounded"/>
		</xs:sequence>
		<xs:attributeGroup ref="mailxml_defs:LargeTransactionDividerGroupOptionalType"/>
	</xs:complexType>
</xs:element>

<xs:element name="ContainerVisibilityEntry">
	<xs:complexType>
		<xs:sequence>
			<xs:choice minOccurs="0">
				<xs:sequence>
					<xs:element name="UserLicenseCode" type="mailxml_base:userLicenseCodeType"/>
					<xs:element name="MaildatJobID" type="mailxml_base:jobIDType"/>
				</xs:sequence>
				<xs:sequence>
					<xs:element name="CustomerGroupID" type="mailxml_base:s25" minOccurs="0"/>
					<xs:element name="MailingGroupID" type="xs:nonNegativeInteger"/>
				</xs:sequence>
			</xs:choice>
			<xs:element name="ConsigneeApptID" type="mailxml_base:s12" minOccurs="0"/>
			<xs:element name="LogicalIndicator" type="mailxml_base:yesNo" minOccurs="0"/>
			<xs:element name="CSAID" type="mailxml_base:s10" minOccurs="0"/>
			<xs:element name="ContainerID" type="mailxml_base:s06" minOccurs="0"/>
			<xs:element name="ParentContainerID" type="mailxml_base:s06" minOccurs="0"/>
			<xs:element name="SiblingContainerID" type="mailxml_base:s06" minOccurs="0"/>
			<xs:element name="ContainerType" type="mailxml_base:mailXMLContainerType" minOccurs="0"/>
			<xs:element name="ScanEvent" type="mailxml_dd:scanEventType" minOccurs="0"/>
			<xs:choice>
				<xs:element name="IMcb" type="mailxml_base:IMcbType" minOccurs="0"/>
				<xs:element name="IMtb" type="mailxml_base:IMtbType" minOccurs="0"/>
				<xs:element name="IMpb" type="mailxml_base:IMpbType" minOccurs="0"/>
			</xs:choice>
			<xs:element name="FullServiceComplianceIndicator" type="mailxml_dd:fullServiceComplianceIndicatorType" minOccurs="0"/>
			<xs:element name="FullServiceNonComplianceReasonCode" type="mailxml_dd:reasonCodeType" minOccurs="0"/>
			<xs:element name="FSNonFSAvailabilityDate" type="xs:date" minOccurs="0"/>
			<xs:element name="FullServiceIndicator" type="mailxml_base:yesNo" minOccurs="0"/>
		</xs:sequence>
	</xs:complexType>
</xs:element>
```

Figure 34: ContainerVisibilityDelivery XSD Text

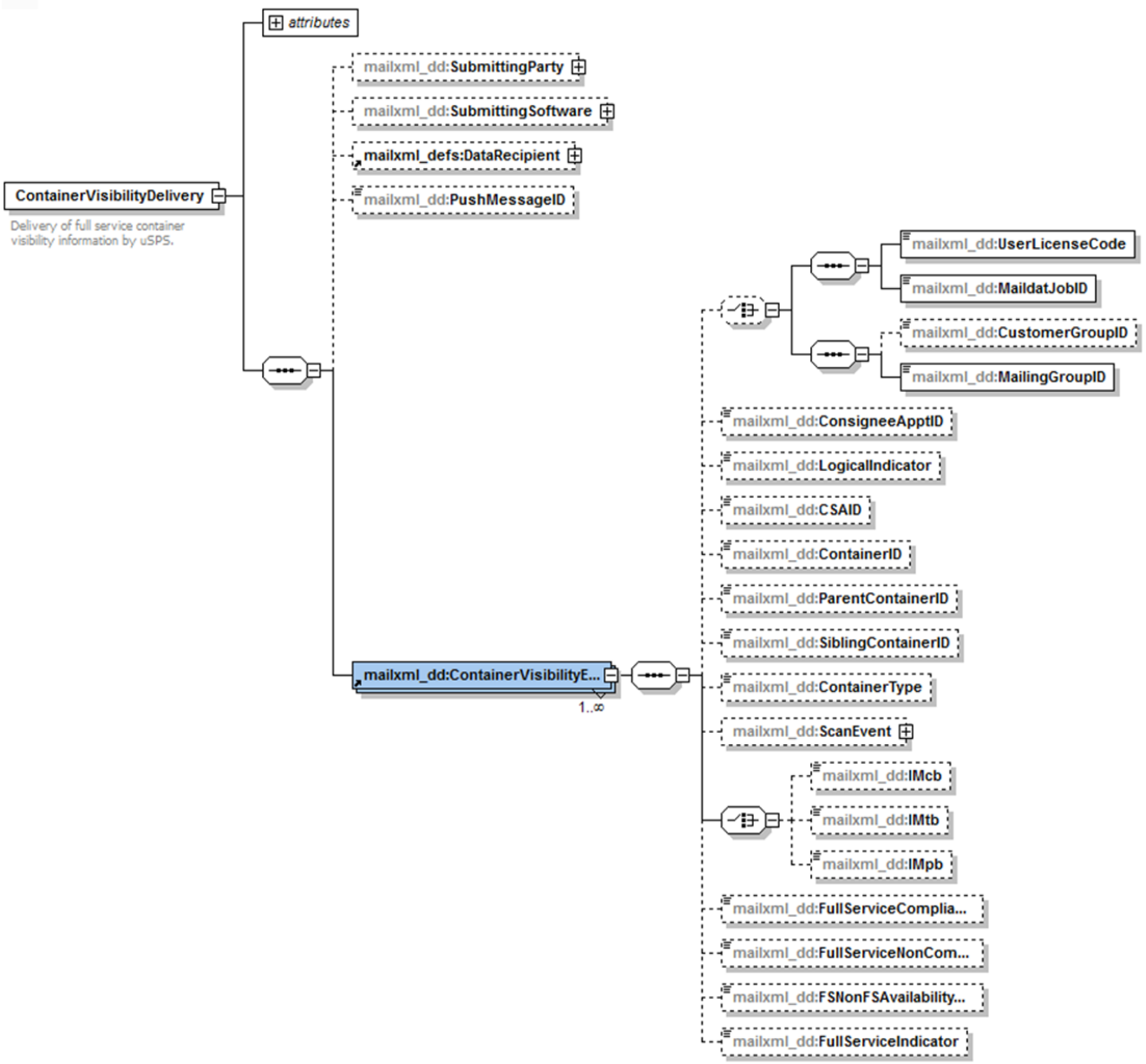


Figure 35: ContainerVisibilityDelivery XSD Schema

3.2.1.3.2 ContainerVisibilityDelivery Business Rules

With each ContainerVisibilityDelivery message, if the customer has registered with the PostalOne! system to receive the message, the PostalOne! system will provide the OPTIONAL LargeTransactionDividerGroupOptionalType. 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.

- 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.
- TotalRecordsAcrossMessages – 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

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

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 ContainerVisibility blocks.
Electronic Shipping info Received - USPS received finalized electronic documentation
Entered at USPS - Container or Orphan Handling Unit inducted to USPS network (scan used for Start-the-Clock)
Enroute Arrive - Container or Tray arrived at a USPS facility or Airport
Enroute - Tray or Bundle was processed at a USPS facility on sorting equipment
Enroute Depart - Container or Tray departed a USPS facility or Airport

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.

3.2.1.3.3 ContainerVisibilityDelivery Field Description

ContainerVisibilityDelivery				
Field	**Format**	**Acceptable Values**	**Business Rules**	**Comments**
ContainerVisibilityDelivery BEGINS				
LargeTransactionDividerGroup OptionalType	**LargeTransactionDividerGroup OptionalType Attribute**	-	Required	Refer to this attribute block in Appendix I

ContainerVisibilityDelivery				
Field	**Format**	**Acceptable Values**	**Business Rules**	**Comments**
SubmittingParty	**participantIDType complex type**	-	Optional	Refer to this complex type in Appendix I
SubmittingSoftware	**SubmittingSoftware complex type**	-	Optional	Refer to this complex type in Appendix I
DataRecipient	**dataRecipient complex type**	-	Optional	Refer to this complex type in Appendix I
PushMessageID	String 25	-	Optional	-
ContainerVisibilityEntry	**ContainerVisibilityEntry complex type**	-	Required 1 to many	Refer to this complex type in Appendix I
ContainerVisibilityDelivery ENDS				

Table 9: ContainerVisibilityDelivery Field Description

3.2.1.4 ContainerVisibilityNotification

USPS sends this notification to the customer and provides the Job information for the ContainerVisibilityEntry data that are available

3.2.1.4.1 ContainerVisibilityNotification Definition

The XML Schema Definition of ContainerVisibilityNotification is shown below:

```
<xs:element name="ContainerVisibilityNotification">
        <xs:complexType>
                <xs:sequence>
                        <xs:element name="SubmittingParty" type="mailxml_defs:participantIDType" minOccurs="0"/>
                        <xs:element name="SubmittingSoftware" type="mailxml_defs:submittingSoftwareType" minOccurs="0"/>
                        <xs:element name="PushMessageID" type="mailxml_base:s25" minOccurs="0"/>
                        <xs:choice minOccurs="0">
                                <xs:sequence>
                                        <xs:element name="UserLicenseCode" type="mailxml_base:userLicenseCodeType"/>
                                        <xs:element name="MaildatJobID" type="mailxml_base:jobIDType"/>
                                </xs:sequence>
                                <xs:sequence>
                                        <xs:element name="CustomerGroupID" type="mailxml_base:s25" minOccurs="0"/>
                                        <xs:element name="MailingGroupID" type="xs:nonNegativeInteger"/>
                                </xs:sequence>
                        </xs:choice>
                        <xs:element name="FSNonFSAvailabilityDate" type="xs:date"/>
                        <xs:sequence minOccurs="0" maxOccurs="unbounded">
                                <xs:element name="AvailableRecordCount" type="xs:nonNegativeInteger"/>
                                <xs:element name="CountType" type="mailxml_dd:countTypeType"/>
                        </xs:sequence>
                        <xs:element name="NotificationDate" type="xs:date"/>
                </xs:sequence>
        </xs:complexType>
</xs:element>
```

Figure 36: ContainerVisibilityNotification XSD Text

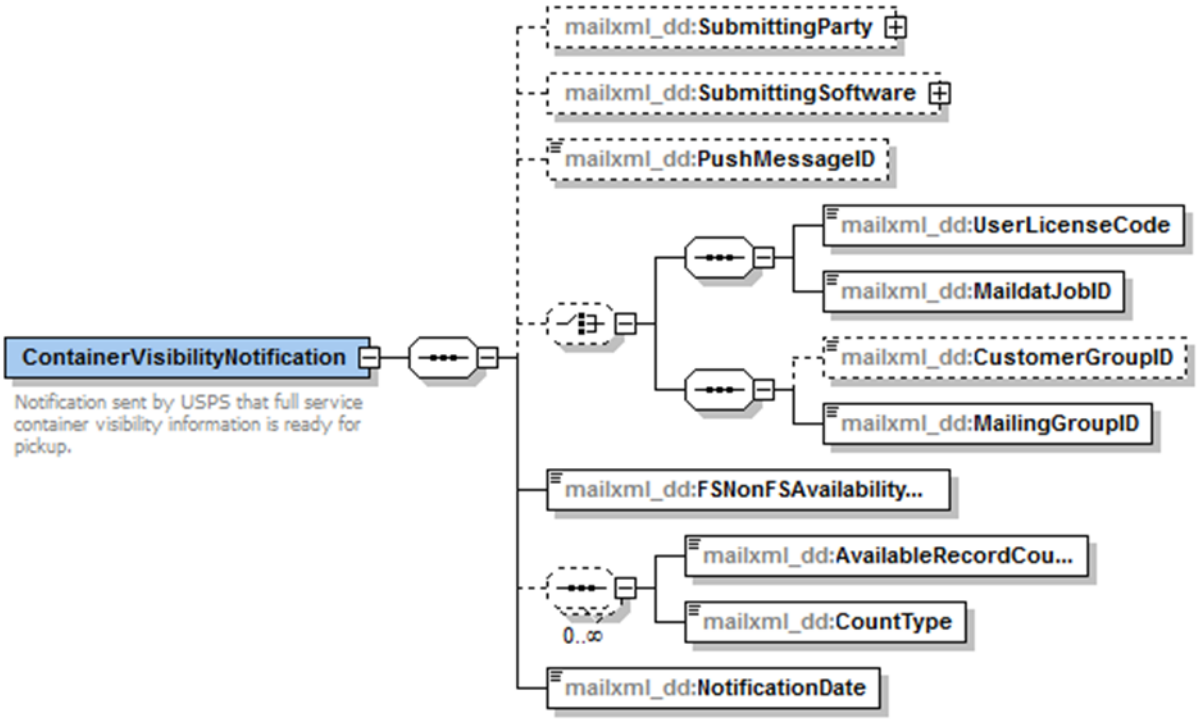


Figure 37: ContainerVisibilityNotification XSD Schema

3.2.1.4.2 ContainerVisibilityNotification Business Rules

With each ContainerVisibilityNotification 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.

3.2.1.4.3 ContainerVisibilityNotification Field Description

ContainerVisibilityNotification				
Field	**Format**	**Acceptable Values**	**Business Rules**	**Comments**
ContainerVisibilityNotification BEGINS				
Sequence Block BEGINS			Optional	
SubmittingParty	**participantIDType complex type**	-	Optional	Refer to this complex type in Appendix I
SubmittingSoftware	**submittingSoftwareType complex type**	-	Optional	Refer to this complex type in Appendix I
PushMessageID	String 25	-	Optional	-
Choice Block BEGINS				
Sequence Block BEGINS				
UserLicenseCode	**userLicenseCodeType simple type**		Required when Mail.dat is used	Refer to this simple type in Appendix J
MaildatJobID	**jobIDType simple type**	-	Required when Mail.dat is used	Refer to this simple type in Appendix J
CustomerGroupID	String, 25 character	-	Optional	-
MailingGroupID	Non Negative Integer	-	Required when Mail.XML is used	-
Sequence Block ENDS				
Choice Block ENDS				
FSnonFSAvailabilityDate	Date	YYYY-MM-DD	Required	-
Sequence Block BEGINS			Unbounded	
AvailableRecordCount	nonNegativeInteger		Required	

ContainerVisibilityNotification				
Field	**Format**	**Acceptable Values**	**Business Rules**	**Comments**
CountType	mailxml_dd:countTypeType		Required	
Sequence Block ENDS				
NotificationDate	Date	YYYY-MM-DD	Required	-
Sequence Block ENDS				
ContainerVisibilityNotification ENDS				

Table 10: ContainerVisibilityNotification Field Description

3.2.1.5 MPSVisDelivery

USPS sends detail data delivery to the customer for bundle visibility

3.2.1.5.1 MPSDelivery Definition

The XML Schema Definition of MPSDelivery message is shown below:

```
<xs:element name="MPSVisDelivery">
	<xs:complexType>
		<xs:sequence>
			<xs:element name="SubmittingParty" type="mailxml_defs:participantIDType" minOccurs="0"/>
			<xs:element name="SubmittingSoftware" type="mailxml_defs:submittingSoftwareType" minOccurs="0"/>
			<xs:element name="AssumedScans" type="mailxml_base:yesNo" minOccurs="0"/>
			<xs:element name="eDocType" type="mailxml_dd:eDocTypeType" minOccurs="0"/>
			<xs:element ref="mailxml_defs:DataRecipient" minOccurs="0"/>
			<xs:element name="PushMessageID" type="mailxml_base:s25" minOccurs="0"/>
			<xs:choice>
				<xs:element ref="mailxml_dd:IMbMailpieceScanData" maxOccurs="unbounded"/>
				<xs:element name="ManifestScanEvent">
					<xs:complexType>
						<xs:sequence>
							<xs:element name="ConsigneeManifestID" type="mailxml_base:ns22"/>
							<xs:element name="ManifestScanEventDetail" type="mailxml_dd:manifestScanEventDetailType"
							    maxOccurs="unbounded"/>
						</xs:sequence>
					</xs:complexType>
				</xs:element>
				<xs:element name="UnManifestedScanEventDetail" type="mailxml_dd:manifestScanEventDetailType" maxOccurs="unbounded",
			</xs:choice>
		</xs:sequence>
		<xs:attributeGroup ref="mailxml_defs:LargeTransactionDividerGroupOptionalType"/>
	</xs:complexType>
</xs:element>
<xs:element name="IMbMailpieceScanData">
	<xs:complexType>
		<xs:sequence>
			<xs:choice minOccurs="0">
				<xs:sequence>
					<xs:element name="UserLicenseCode" type="mailxml_base:userLicenseCodeType"/>
					<xs:element name="MaildatJobID" type="mailxml_base:jobIDType"/>
				</xs:sequence>
				<xs:sequence>
					<xs:element name="CustomerGroupID" type="mailxml_base:s25" minOccurs="0"/>
					<xs:element name="MailingGroupID" type="xs:nonNegativeInteger"/>
				</xs:sequence>
			</xs:choice>
			<xs:sequence maxOccurs="unbounded">
				<xs:choice>
					<xs:element name="MailBundleCount" type="xs:nonNegativeInteger"/>
					<xs:element name="MPSCount" type="xs:nonNegativeInteger"/>
				</xs:choice>
				<xs:element name="IMbScanRec" type="mailxml_base:s200" maxOccurs="unbounded"/>
			</xs:sequence>
		</xs:sequence>
	</xs:complexType>
</xs:element>
```

Figure 38: MPSDelivery XSD Text

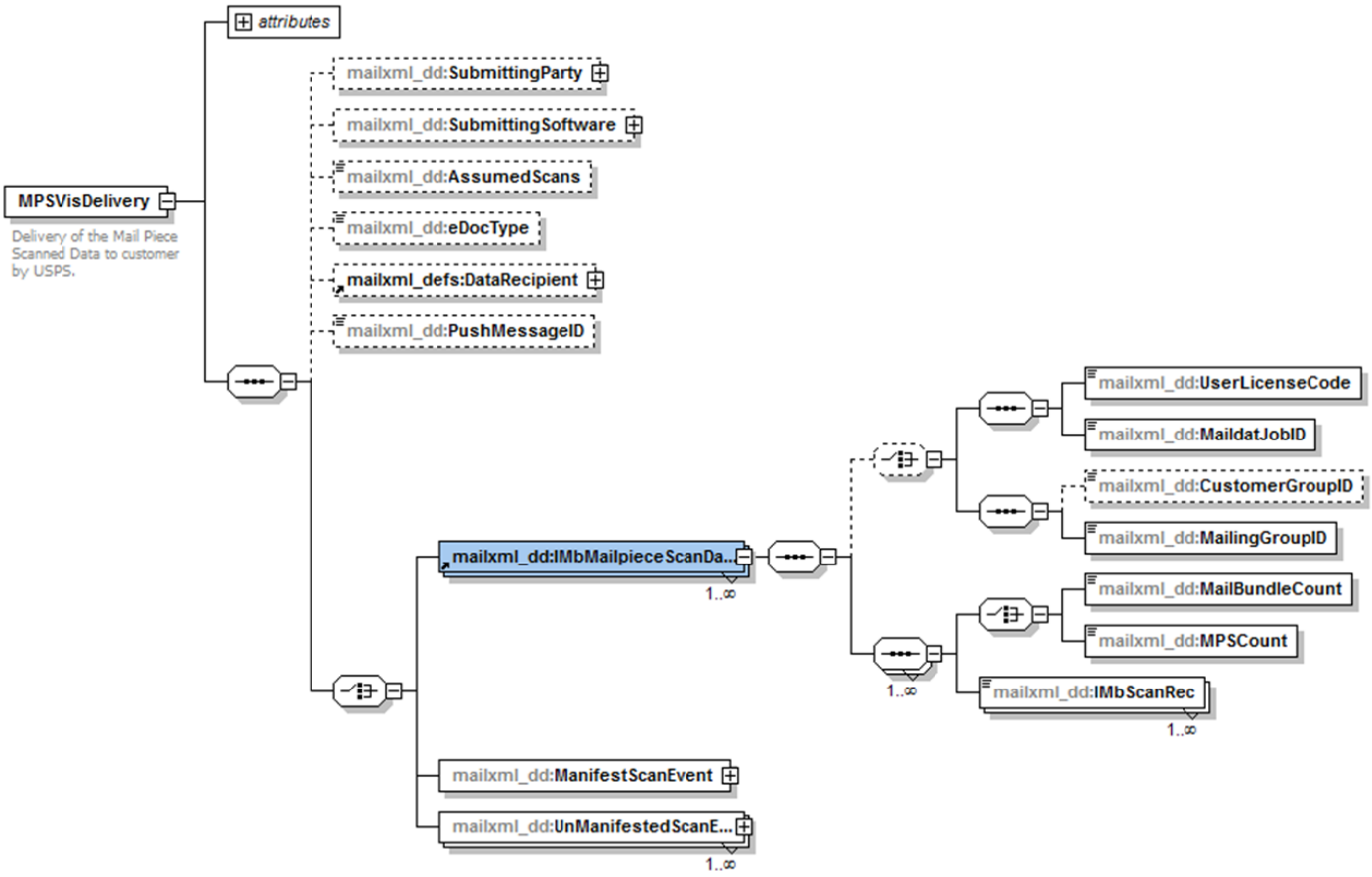


Figure 39: MPSDelivery XSD Schema

3.2.1.5.2 MPSDelivery 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

3.2.1.5.3 MPSDelivery Field Description

MPSVisDelivery				
Field	**Format**	**Acceptable Value**	**Business Rules**	**Comments**
MPSVisDelivery BEGINS				

MPSVisDelivery				
Field	**Format**	**Acceptable Value**	**Business Rules**	**Comments**
Sequence Block BEGINS			**Optional**	
SubmittingParty	**mailxml_defs:participantIDType**		Optional	Refer to this complex type in Appendix I
SubmittingSoftware	**submittingSoftwareType**		Optional	Refer to this complex type in Appendix I
DataRecipient	**mailxml_defs:DataRecipient**			Refer to this complex type in Appendix I
PushMessageID	**mailxml_base:s25**			Refer to this simple type in Appendix J
Sequence Block BEGINS			Unbounded	
IMbMailpieceScanData	**mailxml_dd:IMbMailpieceScanData**		Optional Unbounded	Refer to this complex type in Appendix I
Sequence Block ENDS				
Sequence Block ENDS				
MPSVisDelivery ENDS				

Table 11: MPSDelivery Field Description

3.2.1.6 MPSVisNotification

USPS sends this notification to the customer for bundle visibility that is available

3.2.1.6.1 MPSNotification Definition

The XML Schema Definition of MPSNotification message is shown below:

```
<xs:element name="MPSVisNotification">
	<xs:annotation>
		<xs:documentation>Notification from USPS that the Mail Piece Scanned  Data is ready.</xs:documentation>
	</xs:annotation>
	<xs:complexType>
		<xs:sequence>
			<xs:element name="SubmittingParty" type="mailxml_defs:participantIDType" minOccurs="0"/>
			<xs:element name="SubmittingSoftware" type="mailxml_defs:submittingSoftwareType" minOccurs="0"/>
			<xs:element name="AssumedScans" type="mailxml_base:yesNo" minOccurs="0"/>
			<xs:element name="eDocType" type="mailxml_dd:eDocTypeType" minOccurs="0"/>
			<xs:element ref="mailxml_defs:DataRecipient" minOccurs="0"/>
			<xs:element name="PushMessageID" type="mailxml_base:s25" minOccurs="0"/>
			<xs:element name="AvailableRecordCount" type="xs:nonNegativeInteger"/>
			<xs:element name="NotificationDate" type="xs:date"/>
			<xs:choice>
				<xs:element name="MPSNotificationData" type="mailxml_dd:MPSNotificationDataType"/>
				<xs:element name="ManifestScanNotification" type="mailxml_dd:manifestScanNotificationDataType"/>
			</xs:choice>
		</xs:sequence>
	</xs:complexType>
```

Figure 40: MPSDelivery XSD Text

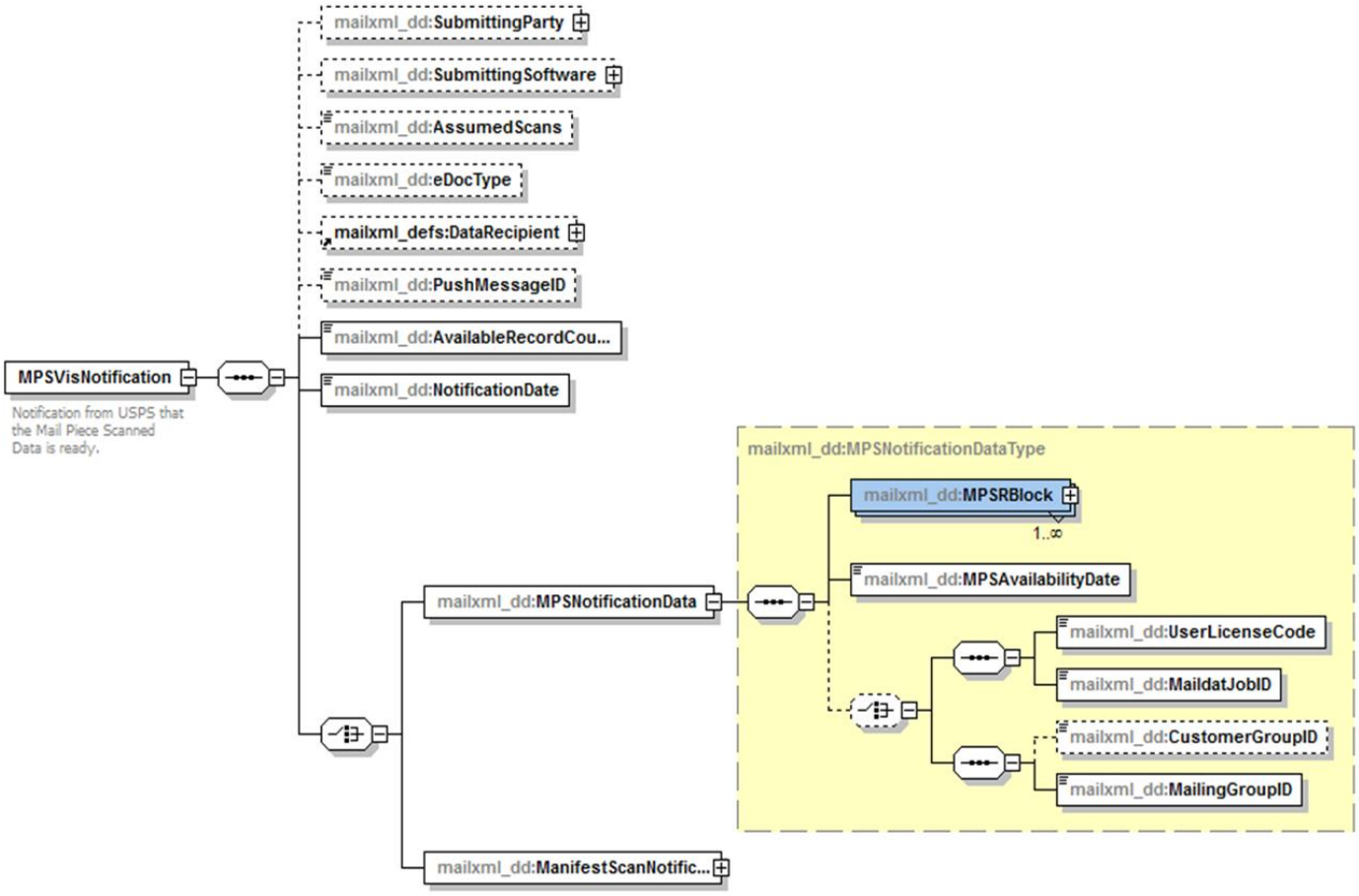


Figure 41: MPSDelivery XSD Schema

3.2.1.6.2 MPSNotification Business Rules

3.2.1.6.3 MPSNotification Field Description

MPSVisNotification				
Field	**Format**	**Acceptable Value**	**Business Rules**	**Comments**
MPSVisNotification Block BEGINS				
Sequence Block BEGINS				
SubmittingParty	**mailxml_defs:participantIDType**		Optional	Refer to this complex type in Appendix I
SubmittingSoftware	**mailxml_defs:submittingSoftwareType**		Optional	Refer to this complex type in Appendix I
DataRecipient	**mailxml_defs:DataRecipient**		Optional	Refer to this complex type in Appendix I

MPSVisNotification				
Field	**Format**	**Acceptable Value**	**Business Rules**	**Comments**
PushMessageID	**mailxml_base:s25**		Optional	Refer to this simple type in Appendix J
Choice Block BEGINS			Optional	
Sequence Block BEGINS				
UserLicenseCode	**mailxml_base:userLicenseCodeType**		Required	Refer to this simple type in Appendix J
MaildatJobID	**mailxml_base:jobIDType**		Required	Refer to this simple type in Appendix J
Sequence Block ENDS				
Choice Block ENDS				
Sequence Block BEGINS				
CustomerGroupID	**mailxml_base:s25**		Optional	Refer to this simple type in Appendix J
MailingGroupID	nonNegativeInteger		Required	Refer to this simple type in Appendix J
Sequence Block ENDS				
Choice Block BEGINS				
MPSAvailabilityDate	xs:date			Refer to this simple type in Appendix J
AvailableRecordCount	nonNegativeInteger			Refer to this simple type in Appendix J
NotificationDate	xs:date			Refer to this simple type in Appendix J
Sequence Block ENDS				
MPSVisNotification Block ENDS				

Table 12: MPSNotification Field Description

3.2.2 Pull Messages (Adhoc)

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.

Messages involved in pulling scan data are:

- **ContainerVisibilityQueryRequest**: Customers can request container visibility information from USPS by providing the job information, appointment/trip information, facility id, container information or Intelligent Mail Container/Tray barcodes.
- **ContainerVisibilityQueryResponse**: USPS responds to customer's request with any available ContainerVisibilityEntry data
- **MPSVisQueryRequest:** Customers can request bundle visibility information from USPS
- **MPSVisQueryResponse:** USPS responds to customer's request with any available bundle visibility data

Note: The following schema is made available as a sample only. For actual details on the rules and data elements, please review the Data Distribution guides for the current Full-Service release. See Appendix J for step-by-step instructions on how to obtain the latest guides.

3.2.2.1 ContainerVisibilityQueryRequest

Customers can request container visibility information from USPS by providing the job information, appointment/trip information, facility id, container information or Intelligent Mail Container/Tray barcodes.

3.2.2.1.1 ContainerVisibilityQueryRequest Definition

The XML Schema Definition of ContainerVisibilityQueryRequest message is shown below:

```
<xs:element name="ContainerVisibilityQueryRequest">
    <xs:annotation>
        <xs:documentation>Query request for for full service container visisbility information.</xs:documentation>
    </xs:annotation>
    <xs:complexType>
        <xs:sequence>
            <xs:element name="SubmittingParty" type="mailxml_defs:participantIDType" minOccurs="0"/>
            <xs:element name="SubmittingSoftware" type="mailxml_defs:submittingSoftwareType" minOccurs="0"/>
            <xs:element name="SubmitterTrackingID" type="mailxml_base:s20" minOccurs="0"/>
            <xs:choice minOccurs="0">
                <xs:sequence>
                    <xs:element name="UserLicenseCode" type="mailxml_base:userLicenseCodeType"/>
                    <xs:element name="MaildatJobID" type="mailxml_base:jobIDType"/>
                </xs:sequence>
                <xs:sequence>
                    <xs:element name="CustomerGroupID" type="mailxml_base:s25" minOccurs="0"/>
                    <xs:element name="MailingGroupID" type="xs:nonNegativeInteger"/>
                </xs:sequence>
            </xs:choice>
            <xs:element name="DateRange">
                <xs:complexType>
                    <xs:sequence>
                        <xs:element name="LowerDateRange" type="xs:date"/>
                        <xs:element name="UpperDateRange" type="xs:date"/>
                    </xs:sequence>
                </xs:complexType>
            </xs:element>
            <xs:element name="ConsigneeApptID" type="mailxml_base:s12" minOccurs="0"/>
            <xs:element name="CSAID" type="mailxml_base:s10" minOccurs="0"/>
            <xs:choice>
                <xs:element name="IMcb" type="mailxml_base:IMcbType" minOccurs="0" maxOccurs="unbounded"/>
                <xs:element name="IMtb" type="mailxml_base:IMtbType" minOccurs="0" maxOccurs="unbounded"/>
                <xs:element name="IMpb" type="mailxml_base:IMpbType" minOccurs="0" maxOccurs="unbounded"/>
            </xs:choice>
            <xs:element name="USPSFacilityLocaleKey" type="mailxml_base:localeKeyType" minOccurs="0"/>
            <xs:element name="ContainerScanState" type="mailxml_dd:containerScanStateType" minOccurs="0"/>
            <xs:element name="retrieveDataBy" type="mailxml_dd:retrieveDataByType" minOccurs="0"/>
        </xs:sequence>
    </xs:complexType>
</xs:element>
```

Figure 42: ContainerVisibilityQueryRequest XSD Text

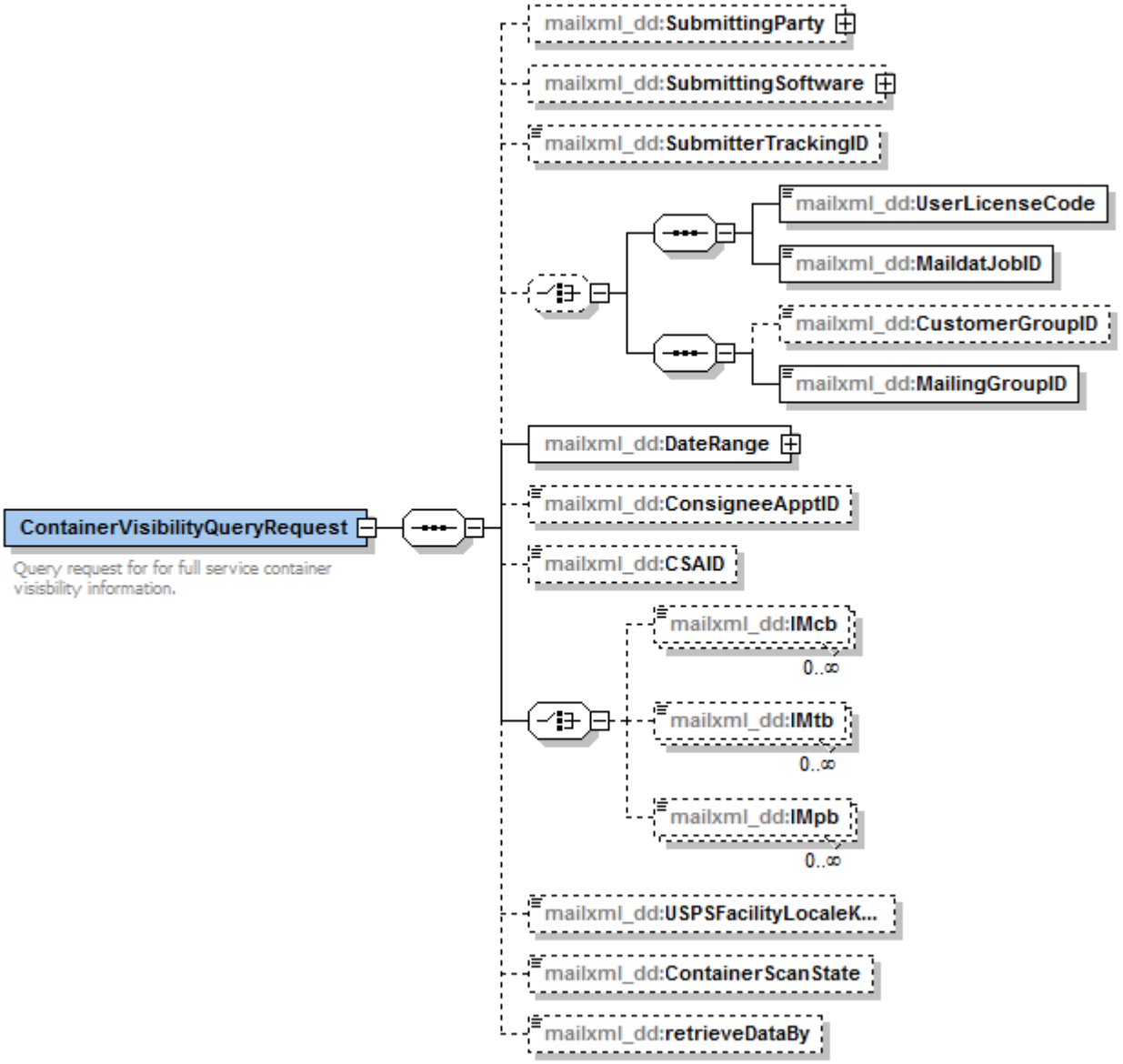


Figure 43: ContainerVisibilityQueryRequest XSD Schema

3.2.2.1.2 ContainerVisibilityQueryRequest Business Rules

With each ContainerVisibilityQueryRequest 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 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.

3.2.2.1.3 ContainerVisibilityQueryRequest Field Description

ContainerVisibilityQueryRequest				
Field	**Format**	**Acceptable Values**	**Business Rules**	**Comments**
ContainerVisibilityQueryRequest BEGINS				
SubmittingParty	**participantIDType complex type**	-	Optional	Refer to this complex type in Appendix I
SubmittingSoftware	**submittingSoftwarType complex type**	-	Optional	Refer to this complex type in Appendix I
SubmitterTrackingID	**mailxml_base:s20**		Required	Refer to this simple type in Appendix J
Choice Block BEGINS			Optional	
UserLicenseCode	**userLicenseCodeType simple type**		Required when Mail.dat is used	Refer to this simple type in Appendix J
MaildatJobID	**jobIDType simple type**	-	Required when Mail.dat is used	Refer to this simple type in Appendix J

ContainerVisibilityQueryRequest				
Field	**Format**	**Acceptable Values**	**Business Rules**	**Comments**
CustomerGroupID	**String, 25 character**	-	Optional	-
MailingGroupID	Non Negative Integer	-	Required when Mail.XML is used	-
DateRange Block BEGINS				
Sequence Block BEGINS				
LowerDateRange	**xs:date**		Required	
UpperDateRange	**xs:date**		Required	
Sequence Block ENDS				
DateRange Block ENDS				
Choice Block END				
Choice Block BEGINS			Optional	
ConsigneeApptID	Numeric String, 12	-	Optional between this field and CSA Dispatch Number	-
CSAID		-	Optional between this field and Consignee Appt ID	
Choice Block END				
IMcb	**IMcbType simple type**	-	Optional 0 to many	Refer to this simple type in Appendix J
USPSInductionFacilitylocaleKey	**localeKeyType simple type**	-	Optional	Refer to this simple type in Appendix J
ContainerVisibilityQueryRequest ENDS				

Table 13: ContainerVisibilityQueryRequest Field Description

3.2.2.1.4 ContainerVisibilityQueryRequest Example

```
<?xml version="1.0" encoding="UTF-8"?>
<mailxml_dd:ContainerVisibilityQueryRequest xmlns:mailxml_base="http://idealliance.org/Specs/mailxml11.0D/base" xmlns:mailxml_dd="http
    <mailxml_dd:SubmittingParty/>
    <mailxml_dd:SubmittingSoftware mailxml_defs:SoftwareName="POFS/Pull" mailxml_defs:Vendor="USPS" mailxml_defs:Version="29.0"/>
    <mailxml_dd:UserLicenseCode>PDSM</mailxml_dd:UserLicenseCode>
    <mailxml_dd:MaildatJobID>PDSM3621</mailxml_dd:MaildatJobID>
    <mailxml_dd:retrieveDataBy>FS</mailxml_dd:retrieveDataBy>
</mailxml_dd:ContainerVisibilityQueryRequest>
```

Figure 44: ContainerVisibilityQueryRequest Example

3.2.2.2 ContainerVisibilityQueryResponse

USPS responds to customer's request with any available ContainerVisibilityEntry data

3.2.2.2.1 ContainerVisibilityQueryResponse Definition

The XML Schema Definition of ContainerVisibilityQueryResponse message is shown below:

```
<xs:element name="ContainerVisibilityQueryResponse">
    <xs:annotation>
        <xs:documentation>Response to the Query request for for full service container visisbility information.</xs:documentation>
    </xs:annotation>
    <xs:complexType>
        <xs:sequence>
            <xs:element name="TrackingID" type="mailxml_base:s20" minOccurs="0"/>
            <xs:element name="SubmitterTrackingID" type="mailxml_base:s20" minOccurs="0"/>
            <xs:choice>
                <xs:element name="QueryResults">
                    <xs:annotation>
                        <xs:documentation/>
                    </xs:annotation>
                    <xs:complexType>
                        <xs:sequence maxOccurs="unbounded">
                            <xs:element ref="mailxml_defs:LargeTransactionDividerResult" minOccurs="0"/>
                            <xs:element ref="mailxml_dd:ContainerVisibilityEntry" minOccurs="0" maxOccurs="unbounded"/>
                            <xs:element name="ReturnInfo" type="mailxml_defs:basicReturnInfoType" minOccurs="0"/>
                        </xs:sequence>
                    </xs:complexType>
                </xs:element>
                <xs:element ref="mailxml_defs:QueryError"/>
            </xs:choice>
        </xs:sequence>
        <xs:attributeGroup ref="mailxml_defs:LargeTransactionDividerGroupOptionalType"/>
    </xs:complexType>
</xs:element>
```

Figure 45: ContainerVisibilityQueryResponse XSD Text

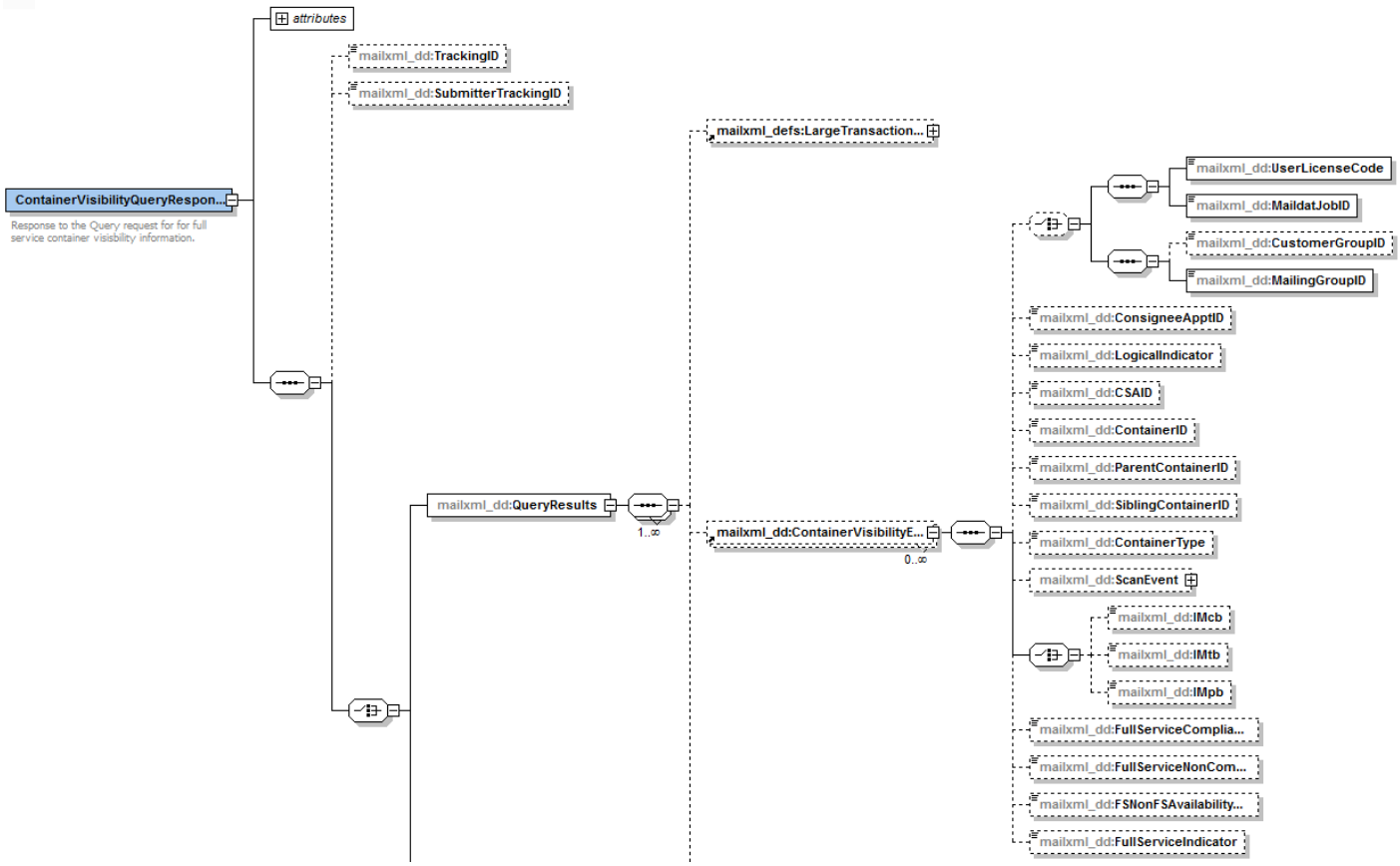


Figure 46: ContainerVisibilityQueryResponse XSD Schema

3.2.2.2.2 ContainerVisibilityQueryResponse Business Rules

With each ContainerVisibilityQueryResponse 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. TotalRecordsAcrossMessages – 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 ContainerVisibilityQueryResponse has two major choice blocks. One is QueryResults and the other is QueryErrors.

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 following Scan Types will be provided:

- Electronic Shipping info received - USPS received finalized electronic documentation
- Entered at USPS - Container or Orphan Handling Unit inducted to USPS network (scan used for Start-the-Clock)
- Enroute Arrive - Container or Tray arrived at a USPS facility or Airport
- Enroute - Tray or Bundle was processed at a USPS facility on sorting equipment
- Enroute Depart - Container or Tray departed a USPS facility or Airport
- Out for Delivery - Bundle departed Delivery Unit

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.

3.2.2.2.3 ContainerVisibilityQueryRequest Field Description

ContainerVisibilityQueryResponse				
Field	**Format**	**Acceptable Values**	**Business Rules**	**Comments**
ContainerVisibilityQueryResponse BEGINS				
Tracking ID	**String 12**	-	Optional Allows the user to retrieve the date without requerying	-
SubmitterTrackingID	**mailxml_base:s20**		Required	Refer to this simple type in Appendix J

ContainerVisibilityQueryResponse				
Field	**Format**	**Acceptable Values**	**Business Rules**	**Comments**
Choice Block BEGINS			Either QueryResult or QueryError will be returned	
QueryResult block BEGINS			1 to many allowed	
LargeTransactionDividerResult	**LargeTransactionDividerResult attribute**	-	Optional	Refer to this attribute block in Appendix I
ContainerVisibilityEntry	**ContainerVisibilityEntry complex type**	-	Optional 0 to many allowed	Refer to this complex type in Appendix I
ReturnInfo	**basicReturnInfo complex type**	-	Optional	Refer to this complex type in Appendix I
Query Result Block ENDS				
Query Error Block BEGINS				
ReturnInfo	**basicReturnInfo complex type**	-	Required	Refer to this complex type in Appendix I
Query Error Block ENDS				
LargeTransactionDividerGroupoptionalType Attribute Group	**Mailxml_defs:LargeTransactionDividerGroupOptionalType**	-	Required	Refer to this attribute block in Appendix I
ContainerVisibilityQueryResponse ENDS				

Table 14: ContainerVisibilityQueryRequest Field Description

3.2.2.2.4 ContainerVisibilityQueryResponse Example

```
<?xml version="1.0" encoding="UTF-8"?><mailxml_dd:ContainerVisibilityQueryResponse xmlns:mailxml_base="http://idealliance.org/Specs/mailxml11.0D/base"
    <mailxml_dd:TrackingID>560002586587</mailxml_dd:TrackingID>
    <mailxml_dd:QueryResults>
        <mailxml_dd:ContainerVisibilityEntry>
            <mailxml_dd:UserLicenseCode>PDSM</mailxml_dd:UserLicenseCode>
            <mailxml_dd:MaildatJobID>PDSM3621</mailxml_dd:MaildatJobID>
            <mailxml_dd:ConsigneeApptID>111833221</mailxml_dd:ConsigneeApptID>
            <mailxml_dd:LogicalIndicator>Yes</mailxml_dd:LogicalIndicator>
            <mailxml_dd:CSAID>1000000456</mailxml_dd:CSAID>
            <mailxml_dd:ContainerID>010466</mailxml_dd:ContainerID>
            <mailxml_dd:ParentContainerID>010465</mailxml_dd:ParentContainerID>
            <mailxml_dd:ContainerType>P</mailxml_dd:ContainerType>
            <mailxml_dd:USPSFacilityLocaleKey>W10400</mailxml_dd:USPSFacilityLocaleKey>
            <mailxml_dd:USPSFacilityName>DES MOINES</mailxml_dd:USPSFacilityName>
            <mailxml_dd:ScanDateTime>2012-01-06T03:22:29.000-06:00</mailxml_dd:ScanDateTime>
            <mailxml_dd:ScanState>1</mailxml_dd:ScanState>
            <mailxml_dd:USPSFacilityLocaleKey>W10400</mailxml_dd:USPSFacilityLocaleKey>
            <mailxml_dd:USPSFacilityName>DES MOINES</mailxml_dd:USPSFacilityName>
            <mailxml_dd:ScanDateTime>2012-01-06T03:36:00.000-06:00</mailxml_dd:ScanDateTime>
            <mailxml_dd:ScanState>2</mailxml_dd:ScanState>
            <mailxml_dd:IMcb>99M0000000000195138118</mailxml_dd:IMcb>
            <mailxml_dd:FullServiceComplianceIndicator>Yes</mailxml_dd:FullServiceComplianceIndicator>
            <mailxml_dd:FSNonFSAvailabilityDate>2012-01-09-06:00</mailxml_dd:FSNonFSAvailabilityDate>
            <mailxml_dd:FullServiceIndicator>Yes</mailxml_dd:FullServiceIndicator>
        </mailxml_dd:ContainerVisibilityEntry>
    </mailxml_dd:QueryResults>
</mailxml_dd:ContainerVisibilityQueryResponse>
```

Figure 47: ContainerVisibilityQueryResponse Example

3.2.2.3 MPSVisQueryRequest

Customers can request bundle visibility information from USPS

3.2.2.3.1 MPSVisQueryRequest Definition

The XML Schema Definition of MPSVisQueryRequest message is shown below:

```
<xs:element name="MPSVisQueryRequest">
    <xs:complexType>
        <xs:sequence>
            <xs:element name="SubmittingParty" type="mailxml_defs:participantIDType" minOccurs="0"/>
            <xs:element name="SubmittingSoftware" type="mailxml_defs:submittingSoftwareType" minOccurs="0"/>
            <xs:element name="SubmitterTrackingID" type="mailxml_base:s20" minOccurs="0"/>
            <xs:choice>
                <xs:element name="ManifestScanQuery" type="mailxml_dd:manifestScanQueryType"/>
                <xs:element name="MPSVisScanQueryType" type="mailxml_dd:MPSVisScanQueryType"/>
            </xs:choice>
        </xs:sequence>
    </xs:complexType>
</xs:element>
```

Figure 48: MPSVisQueryRequest XSD Text

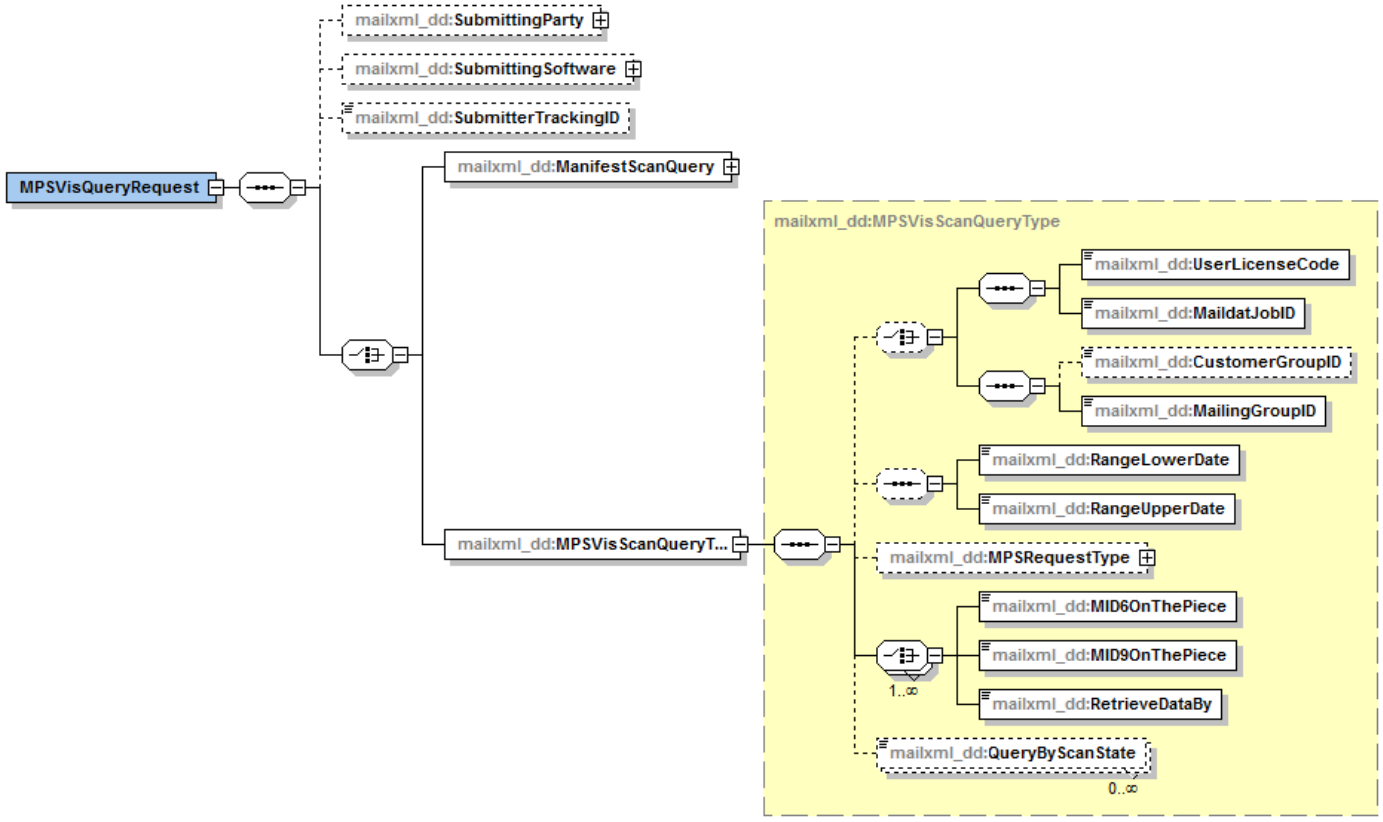


Figure 49: MPSVisQueryRequest XSD Schema

3.2.2.3.2 MPSVisQueryRequest Business Rules

3.2.2.3.3 MPSVisQueryRequest Field Description

MPSVisQueryRequest				
Field	**Format**	**Acceptable Value**	**Business Rules**	**Comments**
MPSVisQueryRequest BEGINS				
Sequence Block BEGINS				
SubmittingParty	**participantIDType complex type**	-	Optional	Refer to this complex type in Appendix I
SubmittingSoftware	**submittingSoftwareType complex type**	-	Optional	Refer to this complex type in Appendix I
Choice Block BEGINS				
Sequence Block BEGINS				

MPSVisQueryRequest				
Field	**Format**	**Acceptable Value**	**Business Rules**	**Comments**
UserLicenseCode	**simpleType: userLicenseCodeType**			Refer to this simple type in Appendix J
MaildatJobID	**simpleType: jobIDType**			Refer to this simple type in Appendix J
Sequence Block ENDS				
Sequence Block BEGINS				
CustomerGroupID	**mailxml_base: s25**		Optional	Refer to this simple type in Appendix J
MailingGroupID	nonNegativeInteger			Refer to this simple type in Appendix J
Sequence Block ENDS				
Choice Block ENDS				
Choice Block BEGINS			Optional	
LowerDateRange	**xs:date**		Required	Refer to this simple type in Appendix J
UpperDateRange	**xs:date**		Required	Refer to this simple type in Appendix J
Choice Block ENDS				
QueryByScanState	**mailxml_dd:MPSStateType**			Refer to this simple type in Appendix J
Sequence Block ENDS				
MPSVisQueryRequest ENDS				

Table 15: MPSVisQueryRequest Field Description

3.2.2.3.4 MPSVisQueryRequest Example

```
<mailxml_dd:MPSVisQueryRequest xmlns:mailxml_base="http://idealliance.org/Specs/mailxml12.0b/base" xmlns:mailxml_dd="http://ideal
 <mailxml_dd:SubmittingParty/>
   <mailxml_dd:SubmittingSoftware mailxml_defs:SoftwareName="POFS/Pull" mailxml_defs:Vendor="USPS" mailxml_defs:Version="32.0"/>
   <mailxml_dd:SubmitterTrackingID>test_tracking_id</mailxml_dd:SubmitterTrackingID>
  <mailxml_dd:MPSVisScanQueryType>
        <mailxml_dd:UserLicenseCode>B104</mailxml_dd:UserLicenseCode>
        <mailxml_dd:MaildatJobID>TEST0923</mailxml_dd:MaildatJobID>
        <mailxml_dd:RangeLowerDate>2012-09-27</mailxml_dd:RangeLowerDate>
        <mailxml_dd:RangeUpperDate>2012-10-02</mailxml_dd:RangeUpperDate>
        <mailxml_dd:RetrieveDataBy>FS</mailxml_dd:RetrieveDataBy>
</mailxml_dd:MPSVisScanQueryType>
</mailxml_dd:MPSVisQueryRequest>
```

Figure 50: MPSVisQueryRequest Example

3.2.2.4 MPSVisQueryResponse

USPS responds to customer's request with any available bundle visibility data

3.2.2.4.1 MPSVisQueryResponse Definition

The XML Schema Definition of MPSVisQueryResponse message is shown below:

```
<xs:element name="MPSVisQueryResponse">
    <xs:complexType>
        <xs:sequence>
            <xs:element name="TrackingID" type="mailxml_base:s12" minOccurs="0"/>
            <xs:element name="SubmitterTrackingID" type="mailxml_base:s20" minOccurs="0"/>
            <xs:element name="AssumedScans" type="mailxml_base:yesNo" minOccurs="0"/>
            <xs:element name="eDocType" type="mailxml_dd:eDocTypeType" minOccurs="0"/>
            <xs:choice>
                <xs:element name="QueryResults">
                    <xs:annotation>
                        <xs:documentation/>
                    </xs:annotation>
                    <xs:complexType>
                        <xs:sequence maxOccurs="unbounded">
                            <xs:element ref="mailxml_defs:LargeTransactionDividerResult" minOccurs="0"/>
                            <xs:sequence maxOccurs="unbounded">
                                <xs:element name="ReturnInfo" type="mailxml_defs:basicReturnInfoType" minOccurs="0"/>
                                <xs:choice>
                                    <xs:element ref="mailxml_dd:IMbMailpieceScanData" maxOccurs="unbounded"/>
                                    <xs:element name="ManifestScanEvent">
                                        <xs:complexType>
                                            <xs:sequence>
                                                <xs:element name="ConsigneeManifestID" type="mailxml_base:ns22"/>
                                                <xs:element name="ManifestScanEventDetail" type="mailxml_dd:manifestScanEventDetailType" maxOccurs="unbounded"/>
                                            </xs:sequence>
                                        </xs:complexType>
                                    </xs:element>
                                    <xs:element name="UnManifestedScanEventDetail" type="mailxml_dd:manifestScanEventDetailType" maxOccurs="unbounded"/>
                                </xs:choice>
                            </xs:sequence>
                        </xs:sequence>
                    </xs:complexType>
                </xs:element>
                <xs:element ref="mailxml_defs:QueryError"/>
            </xs:choice>
        </xs:sequence>
        <xs:attributeGroup ref="mailxml_defs:LargeTransactionDividerGroupType"/>
    </xs:complexType>
</xs:element>
```

Figure 51: MPSVisQueryResponse XSD Text

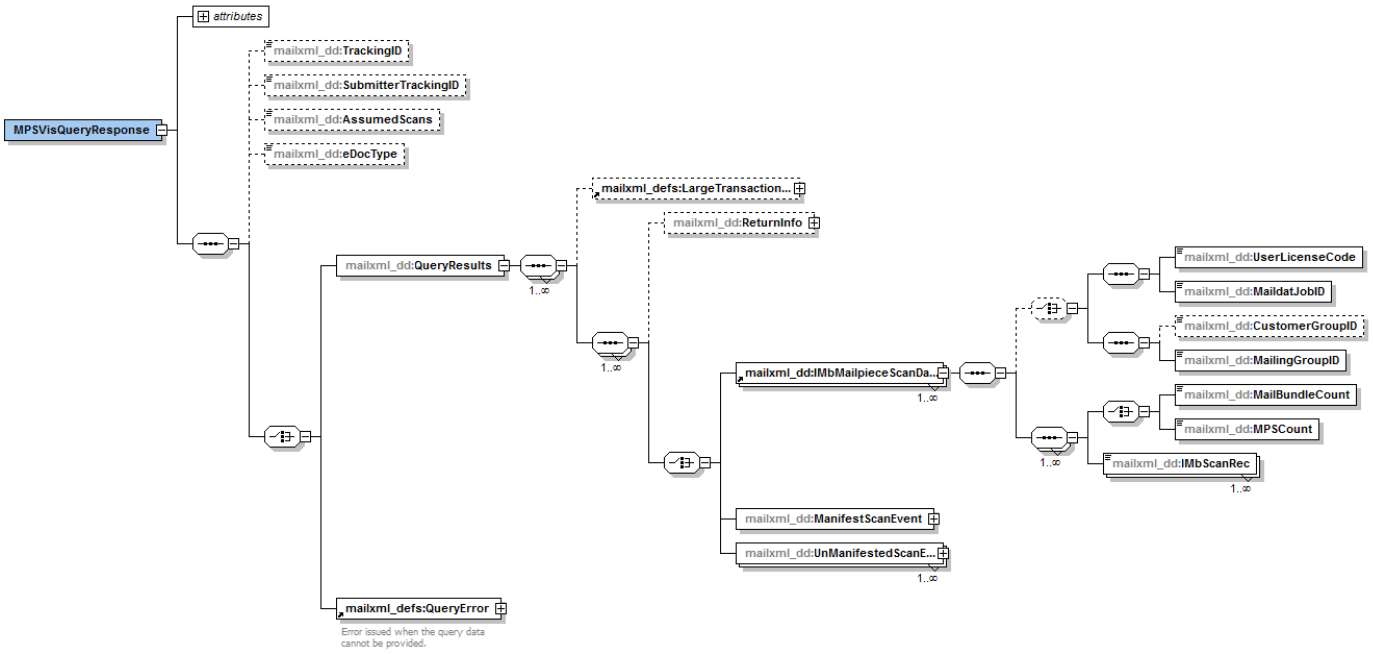


Figure 52: MPSVisQueryResponse XSD Schema

3.2.2.4.2 MPSVisQueryResponse Business Rules

3.2.2.4.3 MPSVisQueryResponse Field Description

MPSVisQueryResponse				
Field	**Format**	**Acceptable Value**	**Business Rules**	**Comments**
MPSVisQueryResponse BEGINS				
Sequence Block BEGINS				
TrackingID	**mailxml_base:s12**		Optional	Refer to this simple type in Appendix J
Choice Block BEGINS				
QueryResults Block BEGINS				
Sequence Block BEGINS			Unbounded	
LargeTransactionDividerResult	**mailxml_defs:LargeTransactionDividerResult**		Optional	Refer to this complex type in Appendix I
Sequence Block BEGINS			Unbounded	
IMbMailpieceScanData	**mailxml_dd:IMbMailpieceScanData**		Optional Unbounded	Refer to this complex type in Appendix I
ReturnInfo	**mailxml_defs:basicReturnInfoType**		Optional	Refer to this complex type in Appendix I
Sequence Block ENDS				
Sequence Block ENDS				
QueryError	mailxml_defs:QueryError			Refer to this complex type in Appendix I
Choice Block ENDS				
Sequence Block ENDS				
LargeTransactionDividerGroup	**mailxml_defs:LargeTransactionDividerGroupType**			Refer to this attribute block in Appendix I
QueryResults Block ENDS				
MPSVisQueryResponse ENDS				

Table 16: MPSVisQueryResponse Field Description

3.2.2.4.4 MPSVisQueryResponse Example


```
<?xml version="1.0" encoding="UTF-8"?><soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" xmlns:soapenc="http://schemas.xml
   <mailxml_dd:SubmitterTrackingID>MW_2012_10_01_002</mailxml_dd:SubmitterTrackingID>
   <mailxml_dd:QueryResults>
      <mailxml_dd:IMbMailpieceScanData>
         <mailxml_dd:UserLicenseCode>B104</mailxml_dd:UserLicenseCode>
         <mailxml_dd:MaildatJobID>TEST0923</mailxml_dd:MaildatJobID>
         <mailxml_dd:MailBundleCount>14</mailxml_dd:MailBundleCount>
         <mailxml_dd:IMbScanRec>10243090001092312466631464110002|000079|W16741|Mon Sep 24 17:06:25 CDT 2012|4|N|90</mailxml_dd:IMbScanRec>
         <mailxml_dd:IMbScanRec>10243090001092312466631464110002|000079|W16741|Tue Sep 25 15:07:04 CDT 2012|6|N|1</mailxml_dd:IMbScanRec>
         <mailxml_dd:IMbScanRec>10243090001092312467631464110002|000079|W16741|Mon Sep 24 17:06:28 CDT 2012|4|N|90</mailxml_dd:IMbScanRec>
         <mailxml_dd:IMbScanRec>10243090001092312467631464110002|000079|W16741|Tue Sep 25 15:07:04 CDT 2012|6|Y|1</mailxml_dd:IMbScanRec>
         <mailxml_dd:IMbScanRec>10243090001092312468631464001010|000079|W16741|Mon Sep 24 17:06:31 CDT 2012|4|N|90</mailxml_dd:IMbScanRec>
         <mailxml_dd:IMbScanRec>10243090001092312468631464001010|000079|W16741|Tue Sep 25 15:07:04 CDT 2012|6|Y|1</mailxml_dd:IMbScanRec>
         <mailxml_dd:IMbScanRec>10243090001092312469631464001010|000079|W16741|Mon Sep 24 17:06:34 CDT 2012|4|N|90</mailxml_dd:IMbScanRec>
         <mailxml_dd:IMbScanRec>10243090001092312469631464001010|000079|W16741|Tue Sep 25 15:07:04 CDT 2012|6|Y|1</mailxml_dd:IMbScanRec>
         <mailxml_dd:IMbScanRec>10243090001092312470631464039010|000079|W16741|Mon Sep 24 17:06:37 CDT 2012|4|N|90</mailxml_dd:IMbScanRec>
         <mailxml_dd:IMbScanRec>10243090001092312470631464039010|000079|W16741|Tue Sep 25 15:07:04 CDT 2012|6|Y|1</mailxml_dd:IMbScanRec>
         <mailxml_dd:IMbScanRec>10243090001092312471631464001310|000079|W16741|Mon Sep 24 17:06:40 CDT 2012|4|N|90</mailxml_dd:IMbScanRec>
         <mailxml_dd:IMbScanRec>10243090001092312471631464001310|000079|W16741|Tue Sep 25 15:07:04 CDT 2012|6|Y|1</mailxml_dd:IMbScanRec>
         <mailxml_dd:IMbScanRec>10243090001092312472631464003150|000079|W16741|Mon Sep 24 17:06:43 CDT 2012|4|N|90</mailxml_dd:IMbScanRec>
         <mailxml_dd:IMbScanRec>10243090001092312472631464003150|000079|W16741|Tue Sep 25 15:07:04 CDT 2012|6|Y|1</mailxml_dd:IMbScanRec>
         <mailxml_dd:IMbScanRec>10243090001092312473631464003150|000079|W16741|Mon Sep 24 17:06:46 CDT 2012|4|N|90</mailxml_dd:IMbScanRec>
         <mailxml_dd:IMbScanRec>10243090001092312473631464003150|000079|W16741|Tue Sep 25 15:07:04 CDT 2012|6|Y|1</mailxml_dd:IMbScanRec>
```


Figure 53: MPSVisQueryResponse Example

Appendix A: Change History

These are the changes from Version 3.0 (03/16/2013) to Version 3.1 (03/24/2014).

Section #	Title	Description
3.1.3	Informed Visibility Search Page	Added missing number for “Out for Delivery” Scan State.
3.1.5	Informed Visibility Downloaded Report	Updated values for “Enroute Arrive” from ‘5’ to ‘3’. Updated value for “Enroute Depart” from ‘3’ to ‘5’. Added missing value for “Out for Delivery”.
3.2.2.2.2	ContainerVisibility-QueryResponse Business Rules	Updated descriptions for Scan State values.
3.2.2.4.1	ContainerVisibility-Delivery Business Rules	Updated descriptions for Scan State values.

Table 17: Change History for Version 3.1

These are the changes from Version 2.0 (10/15/2012) to Version 3.0 (03/16/2013).

Section #	Title	Description
Entire	Page Numbering	Added page numbering
Entire	Format	Made format changes
Entire	Name Change	**From:** Quick Start User Guide | Informed Visibility with Mail.XML™ and PostalOne! **To:** Container, Tray, and Bundle Visibility User Guide (subtitle: Informed Visibility with Mail.XML™ and PostalOne! Reports)
Appendix A	Sample XML Messages	Removed Appendix A: Sample XML Messages. These examples were incorporated in Sections: 3.2.2.1.4 ContainerVisibilityQueryRequest Example 3.2.2.2.4 ContainerVisiblityQueryResponse Example 3.2.2.3.4 MPSVisQueryRequest Example 3.2.2.4.4 MPSVisQueryResponse Example
Appendix A	Change History	Added Appendix A: Change History
Appendix B	List of Figures	Added Appendix B: List of Figures
Appendix C	List of Tables	Added Appendix C: List of Tables
Appendix D	Acronyms and Abbreviations	Added Appendix D: Acronyms and Abbreviations
Appendix E	References	Added Appendix E: References
Appendix H	Mail.XML 12.0B Complex and Attribute Groups Definitions	Added Appendix H: Extract of Mail.XML 12.0B Complex and Attribute Groups Definitions
Appendix I	Mail.XML 12.0B Simple Types Definitions	Added Appendix I: Extract of Mail.XML 12.0B Simple Types Definitions
Appendix J	Data Distribution Guides	Added Appendix J: Data Distribution Guides

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Appendix D: Acronyms and Abbreviations

Acronym	Term
BCG	Business Customer Gateway
CRID	Customer Registration ID
eDoc	Electronic Documentation
IMb	Intelligent Mail Barcode
IMcb	Intelligent Mail Container Barcode
IMtb	Intelligent Mail Tray Barcode
IV	Informed Visibility
MID	Mailer ID
MO	Mail Owner
MP	Mail Preparer
USPS	United States Postal Service

Table 19: Acronyms and Abbreviations

Appendix E: References

Business Customer Gateway (BCG)
https://gateway.usps.com/bcg/login.htm

eDoc and Full-Service Authorization Guide for Mail.XML
https://ribbs.usps.gov/intelligentmail_guides/documents/tech_guides/temguides/eDocFullServiceAuthorizationMailXML.pdf

Guide to Intelligent Mail for Letters and Flats, A
https://ribbs.usps.gov/intelligentmail_guides/documents/tech_guides/GuidetoIntelligentMailLettersandFlats.pdf

IMb Tracing™
https://ribbs.usps.gov/index.cfm?page=confirm

IMb Tracing™ Customer Support
IMbTracing@usps.gov
(800) 238-3150

Postal Service Mail.XML Specific Documents
https://ribbs.usps.gov/intelligentmail_guides/documents/tech_guides/xmlspec/xmlspec.htm
See Appendix J for step-by-step instructions on how to obtain the latest Data Distribution guides.

***PostalOne!* Customer Care Center**
http://www.usps.com/postalone/contact.htm
postalone@usps.gov
(800) 522-9085

RIBBS®
https://ribbs.usps.gov/

Test Environment for Mailers (TEM): Checklist and Troubleshooting
https://ribbs.usps.gov/intelligentmail_gateway/documents/tech_guides/TEMCHECKLIST.pdf

User Access to Electronic Mailing Information and Reports Guide, Volume 1:
Business Customer Gateway Information, On-line Services, and Full-Service Tools
https://ribbs.usps.gov/intelligentmail_guides/documents/tech_guides/user_access/ElectronicMailingInfoReportsGuide1.pdf

User Access to Electronic Mailing Information and Reports Guide, Volume 2:
Electronic Mailing Information and Reports Guide
https://ribbs.usps.gov/intelligentmail_guides/documents/tech_guides/user_access/ElectronicMailingInfoReportsGuide2.pdf

Appendix F: Frequently Asked Questions (FAQs)

Q: Can I obtain container, tray, and bundle scan data for Basic mailings?
A: At this time, container and tray scan data are only provided for Full Service mailings. Some bundle scan data can be obtained through IMb Tracing. This scan data is limited to automation (enroute) scans captured as bundles are processed on mail processing equipment (MPE), and does not include handheld scans.

Q: Do I have to use Mail.XML to obtain container, tray, and bundle visibility data?
A: No, customers can obtain the same data through *PostalOne!* reports. See Section 3.1 for information on how to access Informed Visibility reports through the *PostalOne!* Data Distribution Dashboard.

Q: How do I get started with Mail.XML?
A: Please refer to Appendix G: TEM Access, and for further information, look to the *eDoc and Full-Service Authorization Guide for Mail.XML* available at **https://ribbs.usps.gov/intelligentmail_guides/documents/tech_guides/temguides/eDocFullServiceAuthorizationMailXML.pdf** and/or the *Test Environment for Mailers (TEM): Checklist and Troubleshooting* guide available at **https://ribbs.usps.gov/intelligentmail_gateway/documents/tech_guides/TEMCHECKLIST.pdf**

Q: How do I subscribe to XML Messages?
A: A customer can create a Push Subscription via the *PostalOne!* Business Customer Gateway at **https://gateway.usps.com/bcg/login.htm** by navigating to **Home > Mailing Reports (PostalOne!) > Full-Service > Push Subscription Profile.** See Section 3.2.1.1 for step-by-step instructions.

Q: I am having difficulties accessing the Informed Visibility Reports. Who can I reach out to for assistance?
A: Please contact the *PostalOne!* Customer Care Center at (800) 522-9085 or **postalone@usps.gov**, or go to **http://www.usps.com/postalone/contact.htm**

Q: I seem to be receiving duplicate XML messages for scans. Why is this happening?
A: When a new event is captured, the full scan history will be re-sent in the XML message. Previously-received events will not be updated.

Q: Can I filter out the electronic information received events?
A: Push messages, available through subscription via the Push Subscription Profile page on *PostalOne!*, allow filtering container visibility data by scan event type. The 'ContainerVisibilityEntry' block, which is returned for both Push and Pull message, shows the 'ScanState' element, which can be used to determine the type of event. A value of "1" indicates an 'electronic information received' event. Please note that for Mail.XML versions prior to 11.0.D, the 'ContainerVisibilityEntry' block does not contain the 'ScanState' element. The Electronic Information Received event will not be included in Bundle scan data.

Appendix G: TEM (Test Environment for Mailers) Access

Please find below an abbreviated version of the 'The Checklist' from the TEM Checklist and Troubleshooting - Version 2.0.2 (please reference the original document for further information **https://ribbs.usps.gov/intelligentmail_gateway/documents/tech_guides/TEMCHECKLIST.pdf**):

1. **Comply with barcode requirements**
    a. Complete information on Intelligent Mailpiece barcode compliance can be found at **https://ribbs.usps.gov/index.cfm?page=intellmailsuite**.
    b. All barcodes must be unique within a 45-day period and be unique on the following lengths:
        i. IMcb (container barcode) – 21 digits
        ii. IMtb (tray/sack barcode) – 24 digits
        iii. IMb (piece barcode) – 20, 25, 29, or 31 digits
2. **Gain access to the Business Customer Gateway**
    a. Register online for a Business Account
    b. Request Services
        i. Manage Mailing Activity
        ii. Mailer ID
        iii. Schedule a Mailing Appointment (FAST) – if necessary
        iv. Customer/Supplier Agreements (CSAs) – if necessary
    c. Mailer ID
3. **Complete the Mail.XML Test Environment for Mailers (TEM) preparation**
    a. FAST Business-based (Transportation Service Providers and related vendors)
    b. Mail.XML TEM Worksheet - Customer Identification Form
        i. Complete FAST Web Services Mail XML Testing Survey and submit it to the *PostalOne!* Help Desk
    c. Complete the Mail.XML TEM Worksheet - Customer Identification Form
        i. Email as an attachment to the *PostalOne!* IT Data Distribution Team and the *PostalOne!* Help Desk
    d. Full-Service Data Distribution
        i. Pull Method
            - Set up host server and Web Services URLs.
            - Select the 'Verify Web Service in TEM' link in TEM
            - Configure software with expected error codes that are returned in Mail.XML Messages by the USPS

              – download and setup the latest version of WSDL in your web service software and link with the Mail.XML XSD types

              – download and setup USPS® provided user authentication XSD in your web service software

- Obtain confirmed Web Service activation from the PostalOne! IT Data Distribution Team
- For Pull data distribution messages, obtain and use test data usernames and passwords from the PostalOne! Help Desk to use datasets

ii. Push Method

- Acquire a signed certificate from either VeriSign or Comodo certificate authority to enable SSL communication with USPS and setup the SSL certificate on the servers that will receive data from USPS® Servers
- Ensure your Web Service end point to support SSL data communication with USPS TEM servers
- Build your Web Services using the published WSDL
- Complete Section 1 and 2 of the TEM Full-Service Data Feedback using Push Messages – Customer Identification Form and submit to the PostalOne! IT Data Distribution Team and the PostalOne! Help Desk
- Register your Web services end point with USPS to receive data push in TEM environment by setting up push subscription profile in the TEM environment at the Business Customer Gateway (**https://gateway.usps.com/bcg/login.htm**):
    1) Log in
    2) Click "Electronic Data Exchange (PostalOne!)" link under the "Design & Prepare" section
    3) Click "Go to TEM" under "PostalOne! Postal Wizard" section of "Test Environment for Mailers (TEM)" table
    4) Click "Mailing Reports" menu on the left
    5) Click "Push Subscription Profile" link under "Full Service" table

  Refer to the User Access to Electronic Mailing Information and Reports Guide Volume II (Push Subscription Profile).
    1) Enter a Push type: Notification or Delivery
    2) Enter the User ID (your Web Service user ID)
    3) Enter the password (your Web Service password)
    4) Confirm the password
    5) Enter web service URL
    6) Enter a Push active date
    7) Enter a frequency
    8) Select the Mail.XML Version
    9) Click submit
- Notify PostalOne! IT Data Distribution Team once you have registered push subscription in TEM and work with the PostalOne! IT Data Distribution Team to test connectivity to your servers that will receive the Push calls from the USPS TEM servers.
- Send an email request for the production approval to the PostalOne! Help Desk upon completing successful test with USPS TEM servers. In that email, attach the sample test messages successfully received by your Web Service.
- Wait for the formal email approval from the PostalOne! Help Desk

- Register your push subscription profile in production environment via Business Customer Gateway (**https://gateway.usps.com/bcg/login.htm**):
    1) Log in
    2) Click "Mailing Reports (PostalOne!)" link under the "Tools & Wizard" section
    3) Click "Push Subscription Profile" link under "Full Service" table
- Notify PostalOne! IT Data Distribution Team once you have registered push subscription in production so that it can be enabled for push message delivery at the specified intervals registered in your push subscription profile.

4. Enter the Test Environment for Mailers (TEM)

a. Mail.dat

i. Log in to the Business Customer Gateway before logging into the *PostalOne!* Mail.dat Client

ii. Download and extract the Mail.dat Client software

iii. Double click the MDRClient.dat and log into the client application with your existing Gateway logon information

iv. Click the Job Validation/Upload tab and add jobs to be validated or uploaded

v. Click on the Home tab and select a valid date and range to submit with Mail Facility ID box checked

vi. A list of jobs will be displayed

vii. Double click on the job ID and a detailed error screen will display which includes the Message Description, Message Type, Field Name, and Position.

viii. Email the following to the *PostalOne!* Help Desk: Email Subject Line: Mail.dat 09-1 (or 08-2) [*Company Name*] Test Scenario X. In the body of the email, include: Company Name, Address, City, State, ZIP Code, CRID, Contact Name, Phone Number, and the function appended by an F (Full-Service) or B (Basic w/ eDoc).

ix. Perform the required test scenario files.

b. Mail.XML

i. Email the following to the *PostalOne!* Help Desk: Email Subject Line: Mail.XML 8.0 (or 7.0) [*Company Name*] Mail.XML TEM Worksheet. It is recommended to test one function at a time, i.e., FAST, eDoc, or Data Feedback. In the body of the email, include: Company Name, Address, City, State, ZIP Code, CRID, Contact Name, Phone Number, and the function appended by an F (Full-Service) or B (Basic w/ eDoc).

ii. Perform the required test scenario files

iii. Complete the Test Scenario Results Worksheet and submit to the PostalOne! IT Data Distribution Team and the PostalOne! Help Desk

iv. Email TEM Results Worksheet as an attachment, include evidence i.e., if you were successful with a Create Request, save the response.

c. Wait for TEM Assessment when all scenarios have been successfully completed

- Receive email from *PostalOne!* Help Desk with Subject: Mail.XXX PASSED – Official *PostalOne!*® Enrollment of COMPANY X, Notification

of TEM File Validation Completion Customer X. The email conveys: "Your software has been validated to support the eDoc specification and has passed the Official PostalOne!® Enrollment in the TEM."

- **For Mail.dat**, the email from the *PostalOne!* Help Desk is an acknowledgement conveying MAIL.dat Specification OFFICIAL AUTHORIZATION TO PROCEED IN THEPRODUCTION ENVIRONMENT.
- **For Mail.XML**, the email from the *PostalOne!* Help Desk is an acknowledgement email conveying MAIL.XML OFFICIAL AUTHORIZATION TO PROCEED IN THE PRODUCTION ENVIRONMENT.

d. PARALLEL TESTING (Software Vendor)

i. Receive email from PostalOne! Help Desk with Subject: Mail.XXX PASSED – Official PostalOne!® Enrollment of COMPANY X, Notification of TEM File Validation Completion to Software Customer X

e. Existing eDoc Mailers:

i. *PostalOne!* Help Desk will notify Mailer (via email) and cc Business Mail Entry (BME) or Business Mailer Support (BMS) with test validation

f. New eDoc Mailers:

i. If parallel testing is required, the BMS will contact new eDoc mailers who complete the required testing in TEM. The following are subject to parallel testing:

- Weigh Verified mailers – HQ TEM Team will notify Mailer and copy the *PostalOne!* Help Desk and Business Mail Entry (BME).
- Postage Payment System mailers – Receive BMS Authorization. (BMS will run parallel test for the special postage payment systems and then authorize customer to submit files for Production).

5. Establish Data Distribution Controls (required for Full-Service)

a. Comply with By/For section of the electronic documentation

b. Use the Mailer ID system and/or Push Subscription Profile through the Business Customer Gateway.

i. Set-up Data Distribution to recipients (use Mailer ID System). Follow these steps if you are the Mail Owner or Preparer and plan to distribute data.

ii. If you are the Mail Owner or Mail Preparer and data distribution is planned for Third Party:

- Obtain Third Party MID:_____
- Establish Data Recipient Profile in Mailer ID System
  a. None (default)
  b. To Preparer
  c. To MID on mailpiece
  d. Single Recipient
  e. Multiple Recipient
- Submit Cast-of Characters messages

- Full-Service ACS data includes Change of Address (COA) and Nixie information and is provided to the Mail Owner by default and Start-the-Clock and Container Visibility data is provisioned to the Mail Owner and the Mail Preparer as indicated in the info block
- Determine data receipt method:
    a. Online downloadable reports
    b. Mail.XML pull (retrieve when Response message is received from USPS)
    c. Mail.XML push (use Push Subscription Profile)

iii. If PUSH method will be used in Production follow these steps.

- Download Production WSDL(s) and XSDs, Go to (http://ribbs.usps.gov/intelligentmail_guides/documents/tech_guides/xmlspec/xmlspec.htm).
- Enable support to SSL communication between your Web Service end point and USPS Production environment servers using the published WSDLs. USPS supports signed certificates obtained from VeriSign and Comodo.
- Complete and submit the TEM Full-Service Data Feedback using Push Messages – Customer Identification Form to the *PostalOne!* IT Data Distribution Team to the *PostalOne!* IT Data Distribution Team and the *PostalOne!* Help Desk
- Register your web services end point(s) with USPS to receive data push in PRODUCTION environment
- Work with the *PostalOne!* IT Data Distribution Team to obtain the signed (SSL) security certificate to be set up on servers that will receive the Push calls from the USPS servers for the Production environment
- Receive notification by USPS from the *PostalOne!* IT Data Distribution Team that connectivity is complete
- In Web services server software, set up (Production) ‘User ID’ and ‘Password’ with a USPS code for User License Code Note: Obtain the User License Code from mail preparer or the entity who will submit original Mail.dat files in the Production environment
- Set up this information on the subscription profile at the Business Customer gateway> Mailing Reports > Push Data Subscription
    a. Enter a Push type: Notification or Delivery
    b. Enter the User id (use your Business Customer Gateway log in ID)
    c. Enter your password (use your Business Customer Gateway log in ID)
    d. Confirm your password
    e. Enter your Web Service URL for the production environment
    f. Enter a Push date
    g. Enter a frequency (six, twelve or twenty four hours)
    h. Select the Message Version to be supported

i. Click submit

- PostalOne*!* will not be able to send messages to the mailer if the certificate has expired when the SSL communication cannot be authenticated

6. Enter the Production environment

a. Proceed in the Production environment only after receiving the email OFFICIAL AUTHORIZATION TO PROCEED IN THE PRODUCTION ENVIRONMENT

Appendix H: Extract of Mail.XML 12.0B Complex and Attribute Groups Definitions

The definitions contained within this appendix are an extract from the Mail.XML 12.0B Complex and Attribute Groups Definitions. Please see the latest Data Distribution guide (see Appendix J for instructions to obtain guide) for a full list of complex and attribute groups definitions.

1.1 Complex Type: ContainerVisibilityEntry

Complex Type: ContainerVisibilityEntry				
Field	**Format**	**Acceptable Values**	**Business Rules**	**Comments**
ContainerVisibilityEntry BEGINS				
Choice Block BEGINS	-	-	Optional	-
UserLicenseCode	**userLicenseCodeType simple type**	-	Required when Mail.dat is used	Refer to this simple type in Appendix J
MaildatJobID	**jobIDType simple type**	-	Required when Mail.dat is used	Refer to this simple type in Appendix J
CustomerGroupID	**String 25**	-	Optional	-
MailingGroupID	nonNegativeInteger	-	Required	-
Choice Block ENDS				
ConsigneeApptID	**String 12**	-	Optional	-
LogicalIndicator	**mailxml_base:yesNo**		Optional	Refer to this simple type in Appendix J
CSAID	**mailxml_base:s10**		Optional	Refer to this simple type in Appendix J
ContainerID	**String 6**		Optional	Refer to this simple type in Appendix J
ParentContainerID	**String 6**		Optional	Refer to this simple type in Appendix J
SiblingContainerID	**String 6**		Optional	Refer to this simple type in Appendix J
ContainerType	**mailxml_base:mailXMLContainerType**		Optional	Refer to this simple type in Appendix J
ScanEvent	**mailxml_dd: ScanEventType**		Optional	Refer to this Complex type in Appendix I
Choice Block BEGINS				

Complex Type: ContainerVisibilityEntry				
Field	**Format**	**Acceptable Values**	**Business Rules**	**Comments**
IMcb	**mailxml_base:IMcbType**		Optional	Refer to this simple type in Appendix J
IMtb	**mailxml_base:IMtbType**		Optional	Refer to this simple type in Appendix J
IMpb	**mailxml_base:IMpbType**		Optional	Refer to this simple type in Appendix J
Choice Block ENDS				
FullServiceCompliance Indicator	**fullServiceComplianceIndicatorType simple type**	-	Optional	Refer to this simple type in Appendix J
FullServiceNonComplianceReasonCode	**reasonCodeType simple type**	-	Optional	Refer to this simple type in Appendix J
FSNonFSAvailabilityDate	Date	-	Optional	-
FullServiceIndicator	**mailxml_base:yesNo**		Optional	Refer to this simple type in Appendix J
ContainerVisibilityEntry ENDS				

1.2 Complex Type: ContainerErrorWarningBlockType

Complex Type: ContainerErrorWarningBlockType				
Field	**Format**	**Acceptable Value**	**Business Rules**	**Comments**
ContainerErrorWarningBlockType BEGINS				
ConsigneeContainerGroupingID	**String 16**		Optional	-
ConsigneeContentID	**String 12**	-	Optional	-
ShipperContainerGroupingID	**String 16**	-	Optional	-
IMcb	**IMcbType simple type**	-	Optional	Refer to this simple type in Appendix J
IMtb	**IMtbType simple type**	-	Optional	Refer to this simple type in Appendix J
IMpb	**IMpbType simple type**	-	Optional	Refer to this simple type in Appendix J
MailContentName	**String 30**	-	Optional	-
SchedulerContentID	**String 12**	-	Optional	-

1.3 Complex Type: DataRecipient

Complex Type: DataRecipient

Field	Format	Acceptable Values	Business Rules	Comments
CRID	**CRIDType simple type**	-	Required	Refer to this simple type in Appendix J
Roles	**roleType simple type**	-	Required	Refer to this simple type in Appendix J

1.4 Complex Type: IMbMailpieceScanData

Complex Type: IMbMailpieceScanData				
Field	**Format**	**Acceptable Values**	**Business Rules**	**Comments**
Sequence Block BEGINS			Optional	
Choice Block BEGINS				
Sequence Block ENDS				
UserLicenseCode	**mailxml_base:userLicenseCodeType**			Refer to this simple type in Appendix J
MaildatJobID	**mailxml_base:jobIDType**			Refer to this simple type in Appendix J
Sequence Block ENDS				
Sequence Block BEGINS				
CustomerGroupID	**mailxml_base:s25**			Refer to this simple type in Appendix J
MailingGroupID	nonNegativeInteger		Optional	
Sequence Block ENDS				
Choice Block ENDS				
MPSCount	nonNegativeInteger			
Sequence Block BEGINS			Unbounded	
IMbScanRec	mailxml_base:s200		Unbounded	See pipe-delimination below
Sequence Block ENDS				
IMbMailpieceScanData ENDS				

IMbScanRec

IMBCode(31)|**PackageID**(6)|**USPSFacilityLocaleKey**(6)|**ScanDateTime**(30)|**ScanState**(1)|**BundleScanType**(1)|**OperationsCode**(3)

ScanState: The enumeration values for **ScanState** are 4 and 6.
4 = Enroute

6 = Out for Delivery

BundleScanType: The enumeration values for **BundleScanType** field are 1 and 2.
1 = Yes (Assumed)
2 = No (Actual)

Refer to Appendix H and Appendix I for further details on the data types of other fields

1.5 Attribute Group: LargeTransactionDividerResult

Attribute Group: LargeTransactionDividerResult				
Field	**Format**	**Acceptable Values**	**Business Rules**	**Comments**
LargeTransactionDividerResult BEGINS	-	-	-	-
TrackingID	**String 20**	-	Required	-
LargeTransactionDividerResult ENDS	-	-	-	-

1.6 Attribute Group: LargeTransactionDividerGroupType

Attribute Group: LargeTransactionDividerGroupType				
Field	**Format**	**Acceptable Values**	**Business Rules**	**Comments**
MessageGroupID	**String, Length 20**	-	Required	-
TotalMessageCount	Positive Integer	-	Required	-
MessageSerialNumber	Positive Integer	-	Required	-
TransmittedRecordCount	Positive Integer	-	Required	-
TotalRecordsAcrossMessages	Positive Integer	-	Required	-
LastMessage	**yesNo simple type**	-	Optional Default is set to "NO"	Refer to this simple type in Appendix J

1.7 Attribute Group: LargeTransactionDividerGroupOptionalType

Attribute Group: LargeTransactionDividerGroupOptionalType				
Field	**Format**	**Acceptable Values**	**Business Rules**	**Comments**
MessageGroupID	**String, Length 20**	-	Optional	-

Attribute Group: LargeTransactionDividerGroupOptionalType				
Field	**Format**	**Acceptable Values**	**Business Rules**	**Comments**
TotalMessageCount	Positive Integer	-	Optional	-
MessageSerialNumber	Positive Integer	-	Optional	-
TransmittedRecordCount	Positive Integer	-	Optional	-
TotalRecordsAcrossMessage	Positive Integer	-	Optional	-
LastMessage	**yesNo simple type**	-	Optional Default is set to "NO"	Refer to this simple type in Appendix J

1.8 Complex Type: basicReturnInfo

Complex Type: basicReturnInfo				
Field	**Format**	**Acceptable Values**	**Business Rules**	**Comments**
Sequence Block BEGIN			Optional 0 to many allowed	
Return Code	**Numeric String – Length 4**	-	Optional	
Return Description	**String, Length 260**	-	Required	
ContainerErrorWarningBlock	**containerErrorWarningBlockType complex type**	-	Optional	Refer to this complex type in Appendix I
Sequence Block END				

1.9 Complex Type: SubmittingParty, participantIDType

Complex Type: SubmittingParty, participantIDType				
Field	**Format**	**Acceptable Values**	**Business Rules**	**Comments**
MailerID6	**mailID6Type simple type**		Not required (attribute) Either MailerID6 or MailerID9 can be provided, not both	Refer to this simple type in Appendix J
MailerID9	**mailerID9Type**		Not required (attribute) Either MailerID6 or MailerID9 can be provided, not both	Refer to this simple type in Appendix J

Complex Type: SubmittingParty, participantIDType				
Field	**Format**	**Acceptable Values**	**Business Rules**	**Comments**
CRID	**CRIDType**		Not required (attribute), Either CRID or MID can be provided for authorization	Refer to this simple type in Appendix J
SchedulerID	**String, 12**		Optional	
MaildatUserLicense	**userLicenseCodeType simple type**		Optional	Refer to this simple type in Appendix J
ShippingAgentID	**String 12**	-	Optional	-
ReceivingAgentID	**String 12**	-	Optional	-

1.10 Complex Type: SubmittingSoftware

Complex Type: SubmittingSoftware				
Field	**Format**	**Acceptable Values**	**Business Rules**	**Comments**
SoftwareName	String		Required	
Vendor	String		Required	
Version	String		Required	
ApprovalDate	Date	YYYY-MM-DD	Optional	Changed the type to 'Date' based on errata
ApprovalKey	String		Optional	

1.11 Complex Type: ScanEventType

Complex Type: ScanEventType				
Field	**Format**	**Acceptable Values**	**Business Rules**	**Comments**
Sequence Block BEGINS			**Unbounded**	
USPSFacilityLocaleKey	**mailxml_base:localeKeyType**		Optional	Refer to this simple type in Appendix J
Sequence Block BEGINS				

Complex Type: ScanEventType				
Field	**Format**	**Acceptable Values**	**Business Rules**	**Comments**
City	**mailxml_base:s45**		Optional	Refer to this simple type in Appendix J
State	**mailxml_base:stateCode**		Optional	Refer to this simple type in Appendix J
Sequence Block ENDS				
USPSFacilityName	**mailxml_base:s50**		Optional	Refer to this simple type in Appendix J
ScanDateTime	xs:dateTime		Optional	
ContainerScanState	**mailxml_dd:ContainerScanStateType**		Optional	Refer to this simple type in Appendix J
ScanStatus	**mailxml_base:inductionStatusType**		Optional	Refer to this simple type in Appendix J
ScanIssueDescription	**mailxml_base:s50**		Optional	Refer to this simple type in Appendix J
ScanIssueResolution	**mailxml_base:s50**		Optional	Refer to this simple type in Appendix J
Sequence Block ENDS				

Appendix I: Extract of Mail.XML 12.0B Simple Types Definitions

The definitions contained within this appendix are an extract from the Mail.XML 12.0B Simple Types Definitions. Please see the latest Data Distribution guide (see Appendix J for instructions to obtain guide) for a full list of simple types definitions.

1.1 simpleType: CRIDType

Tag	Mail.XML 12.0B
Base	xs:string
maxLength	15
minLength	1
pattern	([0-9])*

1.2 simpleType: IMcbType

Tag	Mail.XML 12.0B
Base	xs:string
maxLength	24
minLength	21

1.3 simpleType: IMpbType

Tag	Mail.XML 12.0B
Base	String
maxLength	34
minLength	34

1.4 simpleType: IMtbType

Tag	Mail.XML 12.0B
Base	String
maxLength	24
minLength	24

1.5 simpleType: jobIDType

Tag	Mail.XML 12.0B
Base	xs:string
maxLength	8
minLength	1
whiteSpace	Preserve

1.6 simpleType: localeKeyType

Tag	Mail.XML 12.0B
Base	mailxml_base:s09

1.7 simpleType: inductionStatusType

Tag	Mail.XML 12.0B
Base	xs:string
enumeration	A = Accepted
enumeration	N = Rejected

1.8 simpleType: mailerID6Type

Tag	Mail.XML 12.0B
Base	mailxml_base:ns06

1.9 simpleType: mailerID9Type

Tag	Mail.XML 12.0B
Base	mailxml_base:ns09

1.10 simpleType: mailXMLContainerType

Tag	Mail.XML 12.0B
Base	xs:string
enumeration	1 = #1 Sack
enumeration	2 = #2 Sack
enumeration	3 = #3 Sack
enumeration	4 = 01V Sack
enumeration	5 = 03V Sack
enumeration	6 = OD Sack
enumeration	7 = OD Parcel
enumeration	8 = OD Full Tray Box
enumeration	9 = OD Half Tray Box
enumeration	10 = Flat Trays
enumeration	11 = FRE/FRB
enumeration	12 = OD Surface Transported Pallets
enumeration	13 = OD Full Pallet Box (Surface Only)
enumeration	14 = OD Half Pallet Box (Surface Only)
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)
enumeration	AB = Air Box *Note: For Mail.XML 12.0B Awhen this value is provided – the PostalOne! system will reject the message with appropriate message.*
enumeration	Y = PMOD Sack

1.11 simpleType: reasonCodeType

Tag	Mail.XML 12.0B
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

1.12 simpleType: roleType

Tag	Mail.XML 12.0B
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
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

1.13 simpleType: s06

Tag	Mail.XML 12.0B
Base	xs:string
maxLength	6
minLength	1
whiteSpace	preserve

1.14 simpleType: s10

Tag	Mail.XML 12.0B
Base	xs:string
maxLength	10
minLength	1
whiteSpace	preserve

1.15 simpleType: s12

Tag	Mail.XML 12.0B
Base	xs:string
maxLength	12
minLength	1
whiteSpace	preserve

1.16 simpleType: s20

Tag	Mail.XML 12.0B
Base	xs:string
maxLength	20
minLength	1
whiteSpace	preserve

1.17 simpleType: s25

Tag	Mail.XML 12.0B
Base	xs:string
maxLength	25
minLength	1
whiteSpace	preserve

1.18 simpleType: s30

Tag	Mail.XML 12.0B
Base	xs:string

maxLength	30
minLength	1
whiteSpace	preserve

1.19 simpleType: s45

Tag	Mail.XML 12.0B
Base	xs:string
maxLength	45
minLength	1
whiteSpace	preserve

1.20 simpleType: s50

Tag	Mail.XML 12.0B
Base	xs:string
maxLength	50
minLength	1
whiteSpace	preserve

1.21 simpleType: s260

Tag	Mail.XML 12.0B
Base	xs:string
maxLength	260
minLength	1
whiteSpace	preserve

1.22 simpleType: stateCode

Tag	Mail.XML 12.0B
Base	xs:string
enumeration	AA = Armed Forces Americas (except Canada)
enumeration	AE = Armed Forces Europe (covers all USARAEUR) Armed Forces Canada Armed Forces Middle East Armed Forces Africa
enumeration	AP = Armed Forces Pacific
enumeration	AL = ALABAMA
enumeration	AK = ALASKA
enumeration	AS = AMERICAN SAMOA
enumeration	AZ = ARIZONA
enumeration	AR = ARKANSAS
enumeration	CA = CALIFORNIA
enumeration	CO = COLORADO
enumeration	CT = CONNECTICUT
enumeration	DE = DELAWARE
enumeration	DC = DISTRICT OF COLUMBIA
enumeration	FM = FEDERATED STATES OF MICRONESIA
enumeration	FL = FLORIDA
enumeration	GA = GEORGIA
enumeration	uGU = GUAM
enumeration	HI = HAWAII
enumeration	IL = ILLINOIS

Tag	Mail.XML 12.0B
enumeration	IN = INDIANA
enumeration	IA = IOWA
enumeration	ID = IDAHO
enumeration	KS = KANSAS
enumeration	KY = KENTUCKY
enumeration	LA = LOUISIANA
enumeration	MH = MARSHALL ISLANDS
enumeration	MD = MARYLAND
enumeration	MA = MASSACHUSETTS
enumeration	MO = MISSOURI
enumeration	MI = MICHIGAN
enumeration	MN = MINNESOTA
enumeration	MS = MISSISSIPPI
enumeration	MT = MONTANA
enumeration	NE = NEBRASKA
enumeration	NH = NEW HAMPSHIRE
enumeration	NV = NEVADA
enumeration	NJ = NEW JERSEY
enumeration	NM = NEW MEXICO
enumeration	NY = NEW YORK
enumeration	NC = NORTH CAROLINA
enumeration	ND = NORTH DAKOTA
enumeration	MP = NORTHERN MARIANA ISLANDS
enumeration	OH = OHIO
enumeration	OR = OREGON
enumeration	OK = OKLAHOMA
enumeration	PW = PALAU
enumeration	PA = PENNSYLVANIA
enumeration	PR = PUERTO RICO
enumeration	RI = RHODE ISLAND
enumeration	SC = SOUTH CAROLINA
enumeration	SD = SOUTH DAKOTA
enumeration	TN = TENNESSEE
enumeration	TX = TEXAS
enumeration	UT = UTAH
enumeration	VT = VERMONT
enumeration	VI = VIRGIN ISLANDS
enumeration	VA = VIRGINIA
enumeration	WA = WASHINGTON
enumeration	WV = WEST VIRGINIA
enumeration	WI = WISCONSIN
enumeration	WY = WYOMING

1.23 simpleType: userLicenseCodeType

Tag	Mail.XML 12.0B
Base	xs:string
maxLength	4
minLength	1
whiteSpace	preserve

1.24 simpleType: yesNo

Tag	Mail.XML 12.0B
Base	xs:string
enumeration	Yes
enumeration	No

1.25 simpleType: MailPieceScanAvailabilityDate

Tag	Mail.XML 12.0B
Base	xs:date

1.26 simpleType: MailPieceScanRecordCount

Tag	Mail.XML 12.0B
Base	xs:nonNegativeInteger

1.27 simpleType: ScanState

Tag	Mail.XML 12.0B
Base	xs: MPSStateType

1.28 simpleType: LowerDateRange

Tag	Mail.XML 12.0B
Base	xs:date

1.29 simpleType: UpperDateRange

Tag	Mail.XML 12.0B
Base	xs:date

1.30 simpleType: MPSStateType

Tag	Mail.XML 12.0B
Base	xs:string
enumeration	1
enumeration	2
enumeration	3
enumeration	4
enumeration	5
enumeration	6
enumeration	7
enumeration	8
enumeration	9
enumeration	10
enumeration	11
enumeration	12
enumeration	13
enumeration	14
enumeration	15
enumeration	16
enumeration	17
enumeration	18
enumeration	19
enumeration	20

Tag	Mail.XML 12.0B
enumeration	21
enumeration	22
enumeration	23
enumeration	24
enumeration	25
enumeration	26
enumeration	27
enumeration	28
enumeration	29
enumeration	30

1.31 simpleType:ContainerScanStateType

Tag	Values
Base	xs:string
enumeration	Electronic Information Received
enumeration	Entered at USPS
enumeration	Enroute Arrive
enumeration	Enroute
enumeration	Enroute Depart
enumeration	All Scan States

Appendix J: Data Distribution Guides

The Mail.XML schema shown within this user guide is made available as a sample only. For actual details on the rules and data elements, please review the Data Distribution guides for the current Full-Service release. This appendix shows step-by-step instructions on how to obtain the latest guides.

STEP 1: Go to the Postal Service Mail.XML Specific Documents page on RIBBS. Link:
https://ribbs.usps.gov/intelligentmail_guides/documents/tech_guides/xmlspec/xmlspec.htm

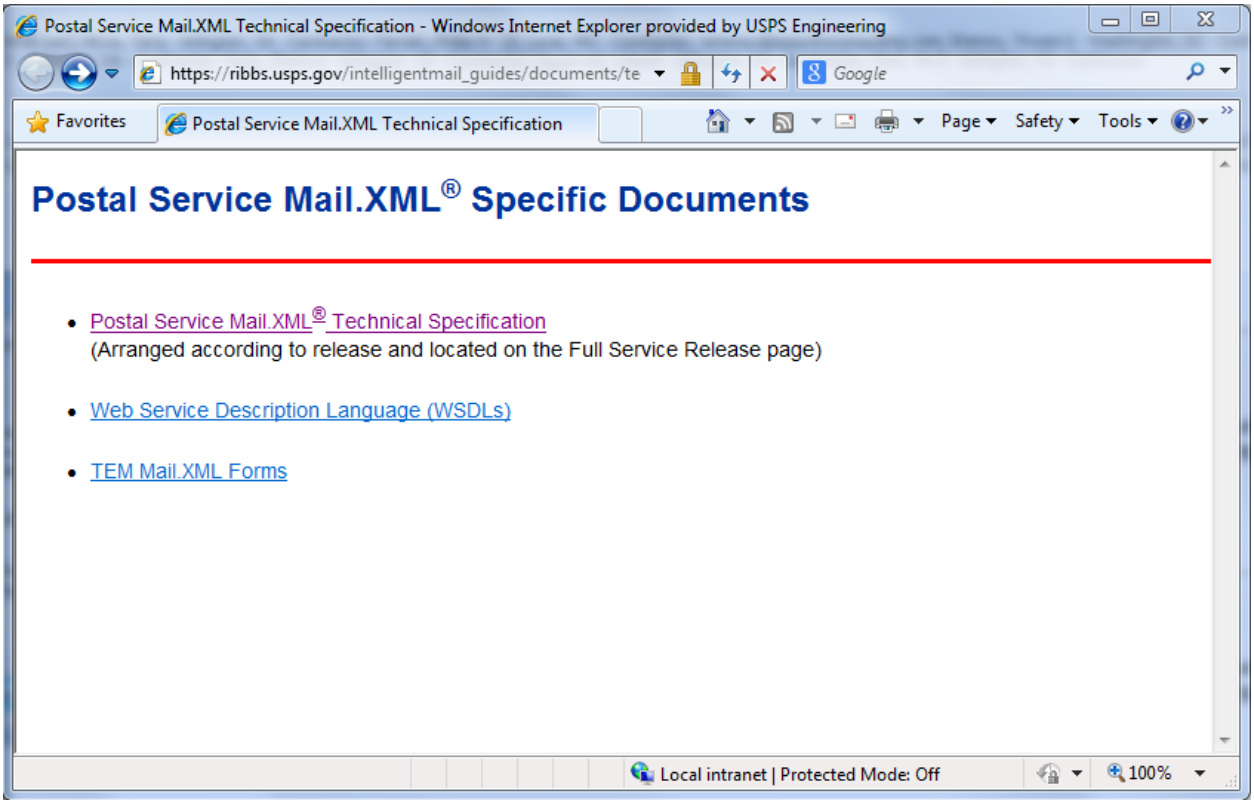

Figure 54: Postal Service Mail.XML Specific Documents Page on RIBBS

STEP 2: Click on “Postal Service Mail.XML® Technical Specification” link to go to the current Full Service Releases page on RIBBS

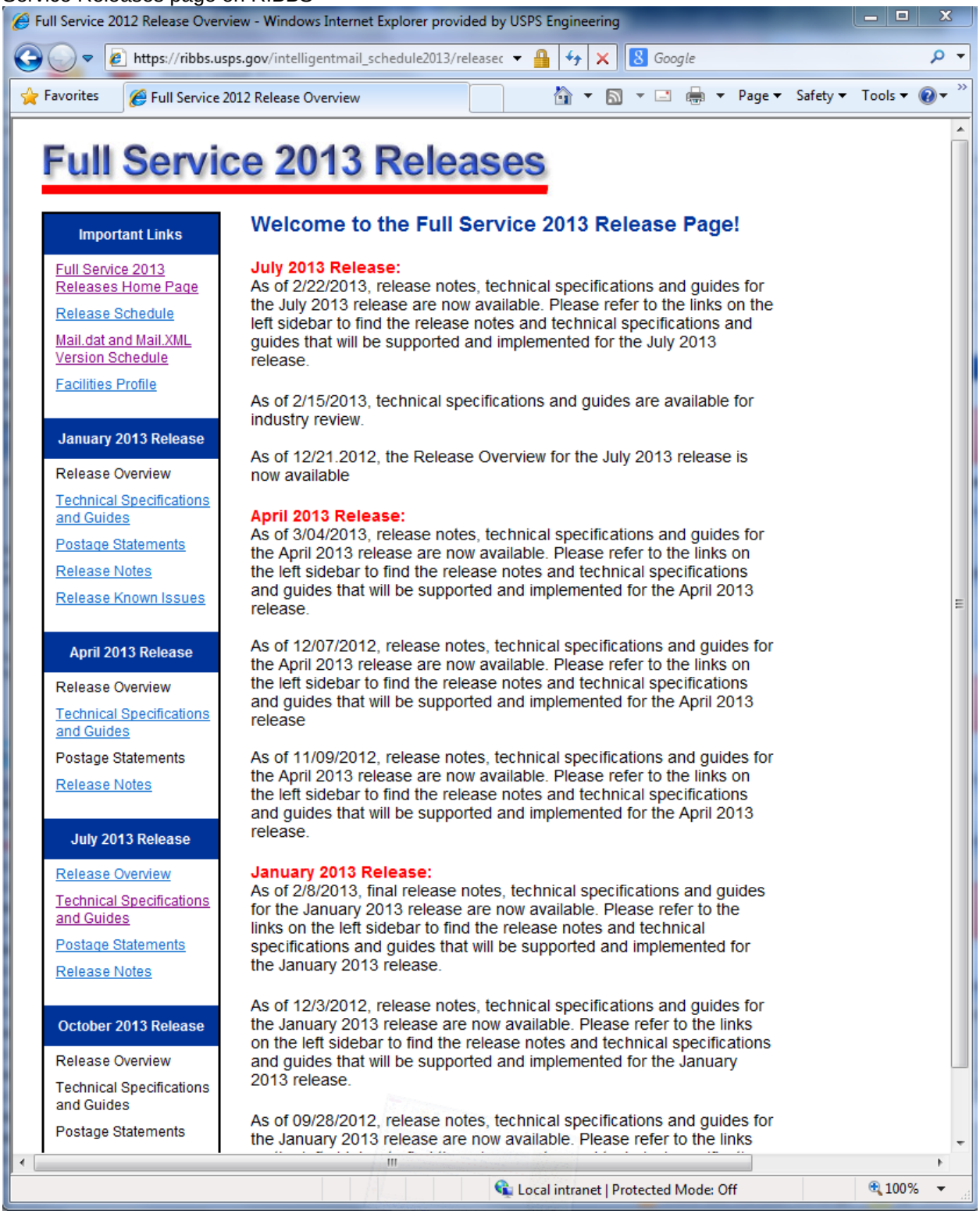

Figure 55: Full Service Release Page on RIBBS

STEP 3: Under the current release, click on the "Technical Specifications and Guides" link to view the currently supported Technical Specifications and Guides.

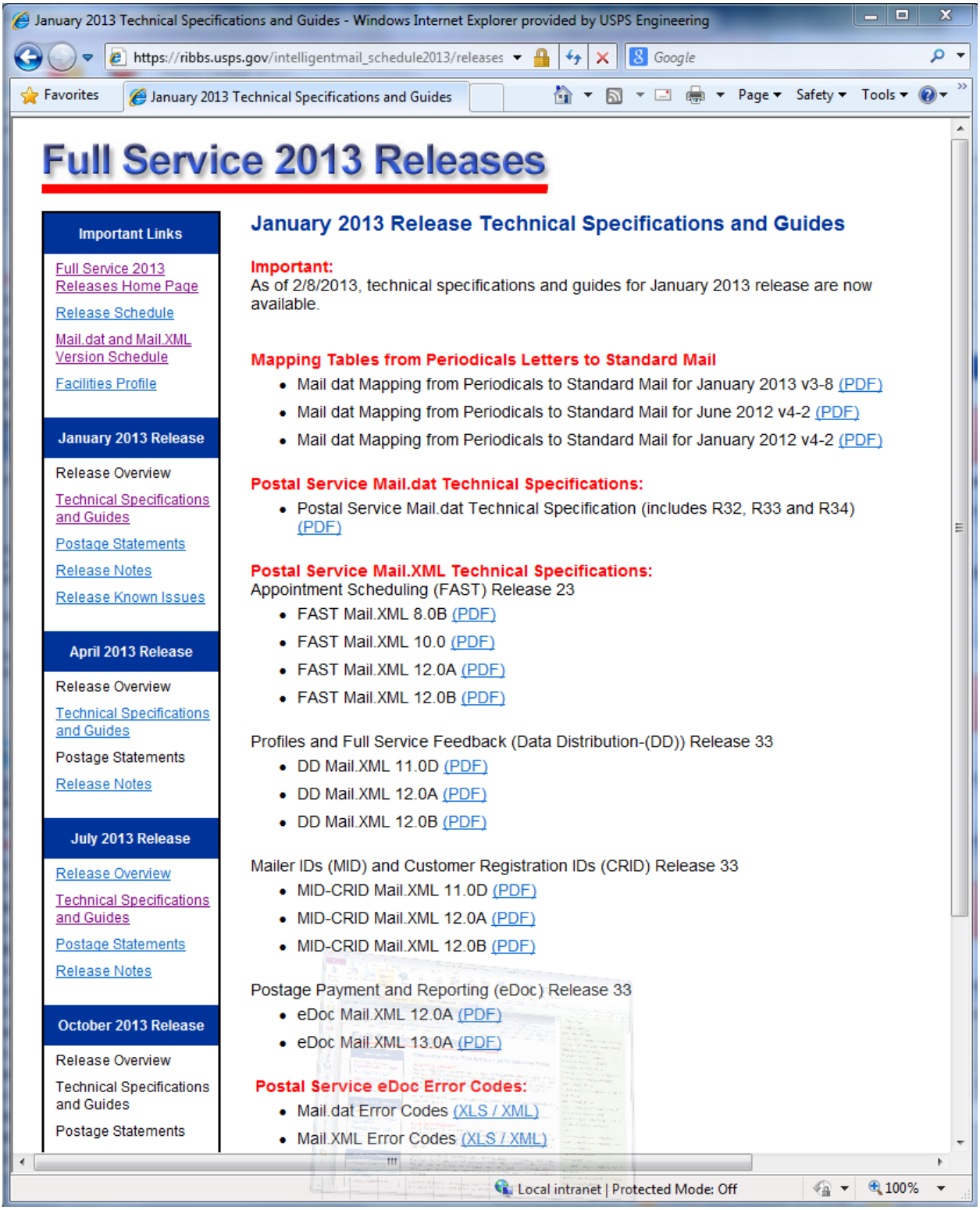

Figure 56: Full Service Technical Specifications and Guides

STEP 4: Under the “Profiles and Full Service Feedback (Data Distribution-(DD))” section, open the Data Distribution technical guide that is applicable to the Mail.XML version you wish to use.

Profiles and Full Service Feedback (Data Distribution-(DD)) Release 33

- DD Mail.XML 11.0D (PDF)
- DD Mail.XML 12.0A (PDF)
- DD Mail.XML 12.0B (PDF)

Figure 57: Profiles and Full Service Feedback (Data Distribution-(DD)) Section

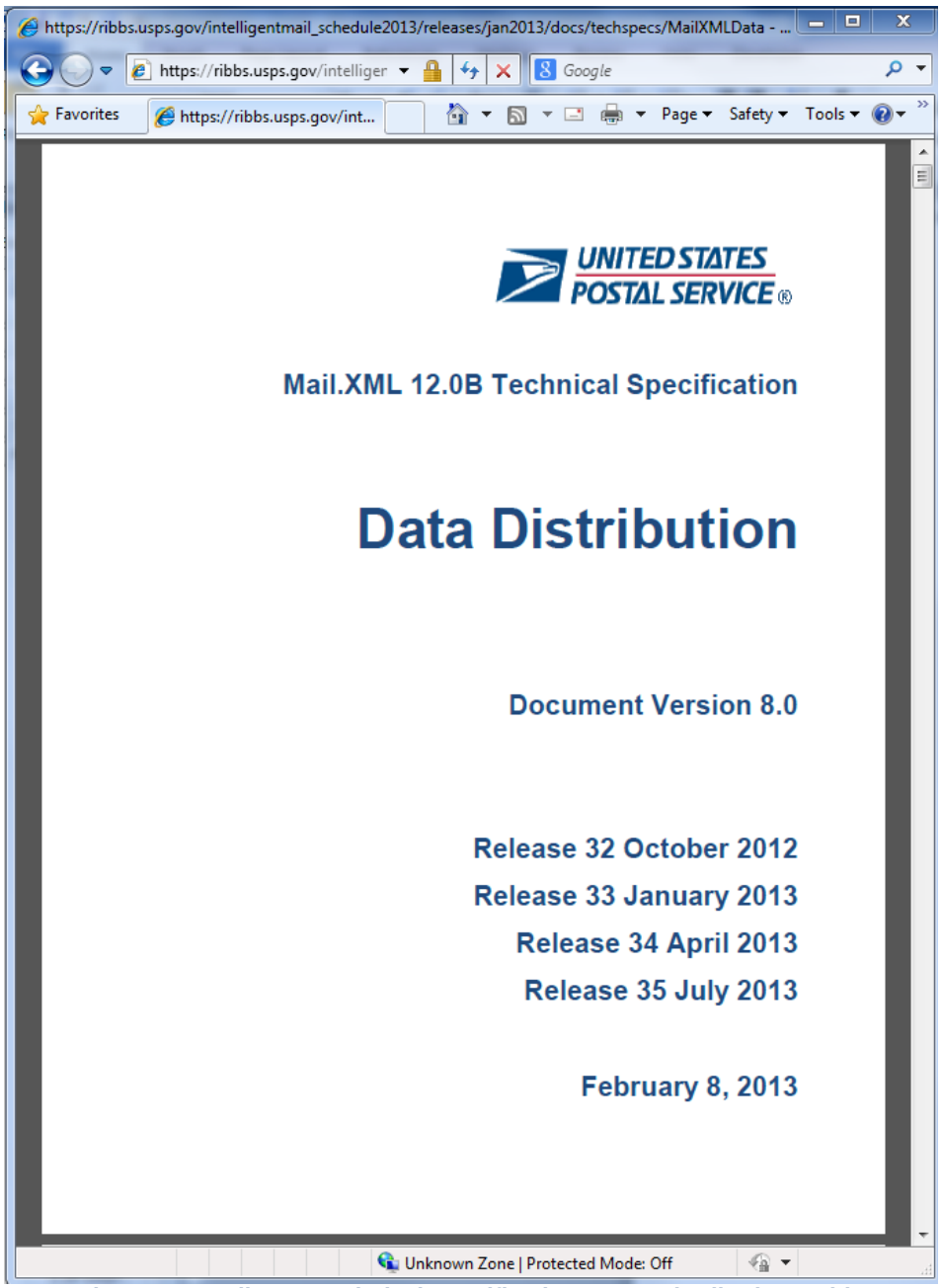

Figure 58: Mail.XML Technical Specification: Data Distribution Guide