Specifications for the EMMA Primary Market Submission Service

Version 1.7, September 2023
## Revision History

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<tr>
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<th>Date</th>
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<tr>
<td>1.0</td>
<td>June 2009</td>
<td>Initial Version of EMMA Primary Market Dataport Manual.</td>
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<tr>
<td>1.1</td>
<td>November 2010</td>
<td>Specifications for the EMMA Primary Market Submission Service manual created.</td>
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| 1.2     | February 2013 | For CUSIP-9 based new issues and remarketings:  
  - Added field for Formal Award Date/Time  
  - Added field for First Trade Execution Date/Time  
  - Provided two distinct fields for Initial Offering Price and Yield, replacing the former Initial Offering Price/Yield field |
| 1.3     | March 2014    | Add Retail Order Period; Remove Underwriter Assessment Exemption Indicator and Underwriter Assessment Discount Indicator |
| 1.4     | August 2015   | Updated the Resources and Support section to reflect the change in hours of operation for Email Support. |
| 1.5     | August 2021   | Updated the Data Tag Description for new data elements. |
| 1.6     | July 2023     | Updated the VariableInterestIndexName Data Tag to reflect the new “SOFR” value |
| 1.7     | September 2023| Updated the AdvancedRefundingMethod Data Tag Definition and Specification. |
Resources and Support

MSRB Website: www.msrb.org
EMMA Website: emma.msrb.org

For assistance, contact MSRB Support at 202-838-1330 or MSRBsupport@msrb.org.
Live Support: 7:30 a.m. - 6:30 p.m. ET
Email Support: 7:00 a.m. – 7:00 p.m. ET

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Introduction

The Municipal Securities Rulemaking Board (MSRB) protects investors, issuers of municipal securities, entities whose credit stands behind municipal securities and public pension plans by promoting a fair and efficient municipal market. The MSRB fulfills this mission by regulating securities firms, banks and municipal advisors that engage in municipal securities and advisory activities. To further protect market participants, the MSRB promotes disclosure and market transparency through its Electronic Municipal Market Access (EMMA®) website, provides education and conducts extensive outreach. The MSRB has operated under Congressional mandate with oversight by the Securities and Exchange Commission since 1975.

The EMMA website is a centralized online database operated by the MSRB that provides free public access to official disclosure documents and trade data associated with municipal bonds issued in the United States. In addition to current credit rating information, the EMMA website also makes available real-time trade prices and primary market and continuing disclosure documents for over one million outstanding municipal bonds, as well as current interest rate information, liquidity documents and other information for most variable rate municipal securities.

The EMMA Dataport Manual for Primary Market Submissions should be read prior to this Specifications document for an underwriter to understand the requirements to submit primary market disclosure documents and related information under MSRB’s Rule G-32. The EMMA Dataport Manual for Primary Market Submissions is located on www.msrb.org

The purpose of this document is to provide an overview and summary for making continuous submissions of multiple offerings of securities. This document contains figures and specifications for making a submission through a computer-to-computer interface.
Specifications for Computer-to-Computer Submission

This section gives an overview and summary directions for computer-to-computer submission. A full explanation and set of specifications are appended at the end of this document. Note that the specifications can be implemented in a wide variety of programming languages and can run on a wide variety of platforms.

Files and Documents

The computer-to-computer interface, like the web form interface, accepts primary market documents solely as Portable Document Format (“PDF”) files configured to permit documents to be saved, viewed, printed and retransmitted by electronic means. If the submitted file is a reproduction of the original document, the submitted file must maintain the graphical and textual integrity of the original document. PDF files must be word-searchable allowing the user to search for specific terms used within the document through a search or find function available in most standard software packages. The word-searchable function will allow users to search for specific terms used within the submitted document through a search or find function available in most standard software packages. Diagrams, images and other non-textual elements are not required to be word-searchable due to current technical hurdles to uniformly producing such elements in word-searchable form without incurring undue costs.

Four types of documents may be submitted in a primary market disclosure or advance refunding submission: official statements, preliminary official statements, remarketing supplements and advance refunding documents. Submissions for municipal fund security offerings cannot be made through the automated computer-to-computer interface at this time.

Normally, a document will consist of a single PDF file, and this is the preferred method of submission. Where an official statement or other document exists as multiple files, the MSRB strongly encourages submitters to merge such files into a single PDF file for submission. If a document is to be submitted as multiple files, each file must be submitted in a separate document message.
Preparing for Computer-to-Computer Submission

The main steps in preparing to use the computer-to-computer interface are:

- Review the schema, which defines the structure and content of submission messages (data messages and document messages). Data messages consist of required Form G-32 information other than documents. Document messages consist of document files.

- Identify, within your organization, the sources of data and files to be submitted within the schema.

- Set up a client proxy using commercially available tools (some examples are Java or .NET or other tools).

- Establish a connection between your firm’s client proxy and the EMMA web service interface.

- Set up test cases.

- Communicate with the MSRB to arrange test interoperability between your client proxy and EMMA.

- Conduct systems testing.

Using the Computer-to-Computer Interface

While the specifications are intended for technical specialists, non-technical submitters may note these features.

- The EMMA Dataport web interface (sometimes termed the “web form”) is the portion of the EMMA tailored for individual users to manually submit official statements, advance refunding documents, primary disclosure information and continuing disclosure information. Submissions made through the computer-to-computer interface may be viewed and updated by the submitter on the web form. Generally, the submission appears immediately on the web form after receipt through the computer-to-computer interface.

- Generally, the submission also appears immediately on the EMMA website after receipt through the computer-to-computer interface.
Each message that reaches EMMA will be followed immediately by a response message to the submitter’s computer.

Response messages will include the Submission ID, which can be used in the web form to view or modify the submission. You must submit a data message before the corresponding document message. EMMA includes the Submission ID in the response to the data message, and you must include this Submission ID in subsequent messages.

You may submit data through one interface and a document file through the other interface, provided that the same Submission ID is included for each update and that EMMA receives the data before it receives the file.

Response messages will be returned to the submitter system when certain types of conditions exist with respect to the data submitted. Response messages are classified as Error, Warning and Information depending on the nature and severity of the exception as follows:

- Error – message indicates termination of message processing with failure of the intended action. The submitter should take appropriate corrective action and re-submit as appropriate.

- Warning – message indicates a potential problem that deserves attention and correction as appropriate; however, the requested action is fulfilled.

- Information – message indicates certain action taken by EMMA that does not materially affect completeness of the submission but of which the submitter should be aware.

Web Service Interface Specifications

The MSRB exposes a web service interface allowing for the submission of SOAP (Simple Object Access Protocol) standard XML (extensible markup language) messages and PDF (portable document format) documents using secure, computer-to-computer communications. This interface is remotely consumed by applications written by or for submitters in a wide variety of programming languages and running on a wide variety of platforms. Submitters using the automated submission interface connect to the web service interface as follows:
For primary market submissions, the current version of the MSRB’s web service is available at: https://services.emma.msrb.org/DisclosureServices/DisclosureService.svc

The automated submission interface accepts submissions for primary offerings of bonds, notes, commercial paper, certificates of participation and other debt obligations, including remarketing, fixed rate, variable rate and zero coupon debt, which will be classified as the offering type “Bond.”

The automated submission interface accepts two submission types for bond offerings, with each type having both a data message and a document message, as described below:

**Primary Market Disclosure Submission**

This submission type is used to submit data and official statements (including any amendments or supplements or any preliminary official statements) for a primary offering of municipal securities (including remarketings). All primary market disclosure submissions have at least one data message and most primary market disclosure submissions have at least one document message. The typical primary market disclosure submission involves the submission of one official statement, together with indexing and related data, describing one or more new issues. All issues described in a single official statement are treated as a single offering for EMMA submission purposes.

**Advance Refunding Disclosure Submission**

This submission type is used to submit data and advance refunding documents (including any amendments) in connection with an advance refunding of outstanding municipal securities. All advance refunding disclosure submissions have at least one data message and at least one document message. The typical advance refunding disclosure submission involves one or more refunding new issues from a single offering, one or more advance refunding documents, and one or more outstanding (refunded) issues, together with indexing and related data.

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1 The automated submission interface will not accept submissions for the “Municipal Fund Security” offering type, consisting of interests in 529 college savings plans, local government investment pools and any other forms of municipal fund securities. Submissions for municipal fund securities will be limited to the web form submission interface.
Overview of Message Processing, Schemas, Data Tags and Required Elements

At the end of this section, a series of figures provide more detailed information about the automated submission interface process. A message processing overview is included in Figure 1. See the other figures for the remainder of the detailed information.

Primary Market Disclosure Submission – Data Message

Standard Data Submission

Data is submitted through the automated submission interface as SOAP messages. Data elements submitted in a data message for a primary market disclosure submission are organized in a hierarchical relationship into the following categories: (i) submission data; (ii) offering data; (iii) issue data; (iv) security data; (v) underwriter data; and (vi) limited offering contact data. These categories and the available data tags applicable to each category must be included in the XML message payload. Each message also must include a header containing an authentication token and web services protocol support as future detailed in section entitled XML Message Schemas.

The most common submission is expected to be for offerings for which: (i) an official statement is submitted, (ii) a single underwriter or underwriting syndicate underwrites all issues in the offering, (iii) CUSIP numbers are assigned to the securities, and (iv) the underwriting spread is disclosed in the official statement. In this case, the minimum data elements provided in a data message, together with the value to be selected or entered, are:

- **submission data** –
  1. submission (distribution) type (select ‘primary market disclosure’)
  2. submission status (select ‘publish’)
- **offering data** –
  1. offering type (select ‘bond’)
  2. underwriting spread disclosure indicator (select ‘disclosed in official statement’)
  3. sale method (competitive or negotiated)
- **issue data** (each element provided for each issue in the offering) –
  1. issue type (select ‘new issue’)
  2. security type (select ‘CUSIP-9’)
  3. issuer name (enter full plain English name as it appears in the official statement)
  4. issue description (enter full plain English description as it appears in the official statement)
  5. issue closing date i.e. Expected Closing Date / First Trade Settlement Date (enter date)
  6. issuer or other obligated persons have agreed to undertake to provide Continuing Disclosure information as contemplated by Exchange Rule 15c2-12 (enter Yes or No) annual filing will
be available on or about (enter Month and Day) or annual filing will be available on or about
(enter count) of (select Days or Months) after fiscal year ending on (enter Month and Day)

vii) retail order period flag (select Yes or No)
viii) retail order period date time (enter date and time for each period if applicable)
ix) repayment source (revenue, general obligation or double-barreled)
x) certificate type (BEOL - Book Entry Only REGC - Registered (Certificated) (R) BERR – Bearer
INCH – Interchangeable DMAT - Dematerialized

• security data (each element provided for each security of each issue in the offering) –
  (i) CUSIP-9 (enter nine-digit number)
  (ii) maturity date (enter value)
  (iii) coupon, i.e. interest rate (enter value)
  (iv) maturity principal amount (enter value)
  (v) initial offering price (enter value)
  (vi) initial offering yield (enter value)
  (vii) security status (as applicable if underwrite is only underwriting a portion of an issue –
        not underwritten indicates that this security is underwritten by a different underwriter, partially
        underwritten indicates that underwriter is underwriting a portion of this security and the
        remaining portion is underwritten by another underwriter)
  (viii) Principal Value Underwritten, i.e. Principal Amount Underwritten (if security is partially
          underwritten, represents portion of security underwritten by the underwriter)
  (ix) new money (select Yes or No)
  (x) serial or term
  (xi) minimum denomination (Original minimum denomination required for transfer or
       change of ownership of a security (tradable) as determined in the bond indenture.)
  (xii) multiples of denomination (Original multiple or incremental denomination, to the
       minimum denomination required for transfer or change of ownership of a security (tradable) as
       determined in the bond indenture.)
  (xiii) par value (enter face value of the bond)

• underwriter data –
  (i) managing underwriter MSRB ID (enter MSRB ID)

• limited offering contact data – no limited offering contact data submitted

Special Data Submission Cases and Sample XML Messages

Additional or different data elements not listed above may be required in special
submission cases. The complete set of data elements is described below. Also sample
XML messages representing a standard document submission as well as certain special
submission cases are provided at the end of this document.

Primary Market Disclosure Submission – Document Submission Message

Documents are submitted through the automated submission interface as SOAP
messages. Elements submitted in a document message are organized in a hierarchical
relationship into the following categories: (i) submission data; (ii) document data; (iii)
file data; and (iv) underwriter data. These categories, and the available data tags
applicable to each category, are described herein. The document message will be
organized so that these data elements are including in the message header, along with an authentication token and web services protocol support. The PDF file of the document, as a binary file encoded in MTOM (SOAP Message Transmission Optimization Mechanism); will constitute the body of the document message.

Documents, Files and Order of Files

Three types of documents may be submitted in a primary market disclosure submission: official statements, preliminary official statements, and remarketing supplements. Normally, a document will consist of a single PDF file, and this is the preferred method of submission. Where an official statement or other document exists as multiple files, the MSRB strongly encourages submitters to merge such files into a single PDF file for submission. If a document is to be submitted as multiple files, each file must be submitted in a separate document message. The document types are described below:

- **Official statement (including amendments)** – In most cases, an official statement consists of a single PDF file. As noted above, where an official statement exists as multiple files, the MSRB strongly encourages submitters to merge such files into a single PDF file for submission. An amendment to an official statement would be submitted as an additional file to the original official statement file, rather than as a separate document.

- **Preliminary official statement (including amendments)** – A preliminary official statement will be accepted by EMMA only if the underwriter indicates that no official statement has been produced or that the official statement will not be available for submission by closing. Preliminary official statement files are handled in the same manner as official statement files. However, if an issuer has supplemented its preliminary official statement to produce the final official statement (for example, where a preliminary official statement prepared for a competitive offering is supplemented by a revised cover reflecting the terms of the winning bid, and no separate official statement is produced), then the preliminary official statement, as supplemented, should be submitted as an official statement (rather than as a preliminary official statement and an amendment), preferably as a single merged PDF file rather than as separate files.

- **Remarketing supplement** – A remarketing supplement generally consists of a relatively short addendum or wrap in the form of a single PDF, produced for a remarketing of an outstanding issue that is designed to supplement the original official statement produced for the initial issuance of the outstanding issue. EMMA will permit a submitter to submit solely the addendum or wrap and to identify the original official statement posted on the EMMA portal to which such addendum or wrap applies. In that
case, the EMMA portal would display the remarketing supplement, together with the original official statement, as two separate documents associated with the remarketed issue. In cases where an entirely new disclosure document is produced in connection with a remarketing of an outstanding issue, such new disclosure document should be submitted as an official statement rather than as a remarketing supplement.

**Standard Document Submission**

The most common document submission is expected to be the official statement submitted as a single PDF file. The minimum elements to be provided in a document message, together with the value to be selected or entered, would be:

- **submission data** –
  (i) submission type (select ‘primary market disclosure’)
  (ii) submission status (select ‘publish’)
  (iii) either (A) submission identifier (enter identification number assigned by EMMA to related data message – do not use if submission underwritten CUSIP-9 identifier is used) or (B) submission underwritten CUSIP-9 identifier (enter nine-digit number of latest maturity in the offering – do not use if submission identifier is used)

- **document data** –
  (i) document type (select ‘official statement’)
  (ii) document description (optional – if no submitter supplied document name provided, EMMA will provide default description)

- **file data** –
  (i) date received from issuer (enter date)

- **underwriter data** –
  (i) managing underwriter MSRB ID (enter MSRB ID)

**Special Document Submission Cases and Sample XML Messages**

Additional or different data elements not listed above may be required in special submission cases. The complete set of data elements is described below. Also sample XML messages representing a standard document submission as well as certain special submission cases are provided at the end of this document.

**Advance Refunding Disclosure Submission – Data Message**

Data for advance refunding disclosure submissions are submitted through the automated submission interface as SOAP messages. Data elements submitted for an advance refunding disclosure submission are organized in a hierarchical relationship into the following categories: (i) submission data; (ii) offering data; (iii) issue data; (iv) security data; and (v) underwriter data. These categories, and the available data tags applicable to each category, are included herein. Each message also must include a header containing an authentication token and web services protocol support.
Specifications for the EMMA Primary Market Submission Service

Standard Data Submission

The most common submission of an advance refunding disclosure submission is expected to have the following characteristics: (i) each security that is refunded is refunded in whole, (ii) CUSIP numbers had been assigned to the refunded securities, and (iii) these CUSIP numbers are not changed by the refunding. In this scenario, the minimum data elements relating to the refunded outstanding issues (i.e., not the refunding new issue) to be provided in a data message, together with the value to be selected or entered, would be:

- **submission data** –
  - (i) submission type (select ‘advance refunding disclosure’)
  - (ii) submission status (select ‘publish’)

- **offering data** –
  - (i) offering type (select ‘bond’)

- **issue data** (each element provided for each issue refunded in whole or in part in an advance refunding) –
  - (i) issue type (select ‘refunded’)
  - (ii) security type (select ‘CUSIP-9’)

- **security data** (provided for each refunded security of each refunded issue – data not to be submitted for any security that is not refunded) –
  - (i) original CUSIP-9 of refunded security (enter nine-digit number)

- **underwriter data** –
  - (i) managing underwriter MSRB ID (enter MSRB ID)

Special Data Submission Cases and Sample XML Messages

Additional or different data elements not listed above may be required in special submission cases. The complete set of data elements is described below. Also sample XML messages representing a standard document submission as well as certain special submission cases are provided at the end of this document.

Advance Refunding Disclosure Submission – Document Submission and Message

Documents are submitted through the automated submission interface as SOAP messages. Elements submitted in a document message are organized in a hierarchical relationship into the following categories: (i) submission data; (ii) document data; (iii) file data; and (iv) underwriter data. These categories, and the available data tags applicable to each category, are included herein. The document messages are organized so that these data elements are including in the message header, along with an authentication token and web services protocol support. The PDF file of the document, as a binary file encoded in MTOM, will constitute the body of the document message.
Specifications for the EMMA Primary Market Submission Service

Advance Refunding Documents, Files and Order of Files

An advance refunding document (including amendments) is the only type of document that may be submitted in an advance refunding disclosure submission. Normally, an advance refunding document consists of a single PDF file, and this is the preferred method of submission. Where an advance refunding document consists of multiple files, the MSRB strongly encourages submitters to merge such files into a single PDF file for submission. If a document is to be submitted as multiple files, each file must be submitted in a separate document message. An amendment to an advance refunding document would be submitted as an additional file to the original advance refunding document file, rather than as a separate document. However, if more than one advance refunding document is used in an advance refunding, each advance refunding document must be submitted as a separate document in a separate document message.

Standard Document Submission

The most common document submission is expected to be a single advance refunding document submitted as a single PDF file. The minimum elements to be provided in a document message, together with the value to be selected or entered, would be:

- **submission data** –
  (i) submission type (select ‘advance refunding disclosure’)
  (ii) submission status (select ‘publish’)
  (iii) submission identifier (enter identification number assigned by EMMA to related data message)
- **document data** –
  (i) document type (select ‘advance refunding document’)
  (ii) document description (optional – if no submitter supplied document name provided, EMMA will provide default description)
  (iii) original CUSIP-9 of refunded security (enter nine-digit number for each refunded security applicable to such document)
  (iv) CUSIP-9 identifier of refunding issue (enter nine-digit number of the latest maturity of each advance refunding issue applicable to such document)
- **file data** –
  (i) date received from issuer (enter date)
- **underwriter data** –
  (i) managing underwriter MSRB ID (enter MSRB ID)

Special Document Submission Cases and Sample XML Messages

Additional or different data elements not listed above may be required in special submission cases. The complete set of data elements is described below. Also sample XML messages representing a standard document submission as well as certain special submission cases are provided at the end of this document.
Figure 1: Message Processing Overview

**Specifications for the EMMA Primary Market Submission Service**

**Municipal Securities Rulemaking Board**

**Figure 1: Message Processing Overview**

**EMMA Web Service**

**Submitter**

- **Form G-32 Submission Messages**
  - **DATA Message**
  - **DOCUMENT Message**

**Response Messages**

- **Response Messages**
  - **Confirmation** - Success, Error, Warning, Info

**Database**

- **Transaction Log**

**Header Validation**

- **Is Header Valid?**
  - **YES**
  - **NO**
  - **Perform Required Field Validation**

**Physical Message Processed Successful?**

- **YES**

**Business Validation Successful?**

- **YES**

**Add / Update Offering Submission**

- **DataBase**
Below is a schema model showing the two message types (Data and Document) required to make a submission. Within each message type are information containers (Submission, Offering, Issue, Securities, Document, Files, and Underwriter) and the information types and values associated with each.
Figure 3: Primary Market Type Schema

Below are the information types and allowed values associated with primary market disclosure data and document messages. All primary market data messages include a submission type of “primary market disclosure” with an offering type of “bond.” Issue and security types are included as appropriate to describe the nature of the offering. Three types of documents may be submitted in a primary market disclosure submission: official statements, preliminary official statements, and remarketing supplements. Normally, a document consists of a single PDF file. If a document consists of multiple files, each file must be submitted in a separate document message.
Figure 4: Primary Market Data Tag Structure
Figure 5: Advance Refunding Type Schema

Below are the information types and allowed values associated with advance refunding disclosure data and document messages. All advance refunding data messages include a submission type of “advance refunding disclosure” with an offering type of “bond.” Issue and security types are included as appropriate to describe the nature of the offering. An advance refunding document is the only type of document that may be submitted in an advance refunding disclosure submission. Normally, a document consists of a single PDF file. If a document consists of multiple files, each file must be submitted in a separate document message.
Figure 6: Advance Refunding Data Tag Structure

Specifications for the EMMA Primary Market Submission Service
TAG GLOSSARY AND REQUIREMENTS FOR DISCLOSURE

Table 1: Message Data Tag Glossary

Below is a glossary of all data tags to be used in EMMA’s automated submission interface for submissions of data messages and document messages. These data elements are organized in a hierarchical data relationship. This glossary lists each data element’s XML container, data tag, definition and data specifications, including a listing of enumerated values for those data elements where the submitter is to choose a value and an example of the data format where the submitter is to enter a value.

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<thead>
<tr>
<th>Submission Data Tags</th>
<th>Description and Specification</th>
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<tr>
<td><strong>XML Container</strong></td>
<td><strong>Data Tag</strong></td>
</tr>
</tbody>
</table>
| Submission            | SubmissionType               | Indicates base category of disclosure, consisting of primary market or advance refunding disclosure. | Enumerated Value:  
|                       |                              | • PrimaryMarketDisclosure  
|                       |                              | • AdvanceRefundingDisclosure |
| Submission            | SubmissionStatus             | Indicates the intention to publish the information in the EMMA public portal or as official notice of cancellation of the offering. | Enumerated Value:  
|                       |                              | • Publish  
|                       |                              | • NoticeOfCancellationOfOffering  
|                       |                              | • Test |
| Submission            | SubmissionIdentifier         | Unique identifier assigned by EMMA at time of initiation of submission (the initial submission event) and used by the submitter in connection with subsequent submission events. | Max25Text  
|                       |                              | ex: S212345678910 |
| SubmissionUnderwritten| CUSIP9 Identifier            | CUSIP9 of a security in the offering used to link each submission event during the submission sequence for a particular submission – available only for primary market disclosure submission, cannot be used for advance refunding submission. | String{Min9,Max9}  
|                       |                              | ex: 123456AB7 |
| Offering              | OfferingType                 | Identifies the offering as debt securities, including bonds, notes, certificates of participation and other debt obligations. | Enumerated Value:  
|                       |                              | • Bond |
|                       | CUSIP9OfLatestMaturityOn     | Nine-digit CUSIP number of the latest maturity of each issue in the offering that is not underwritten by the underwriter, if any. | String{Min9,Max9}  
|                       | IssueNotUnderwritten         | ex: 123456AB7 |
### Submission Data Tags

**Description and Specification**

**EMMA Primary Market Disclosure Service**

<table>
<thead>
<tr>
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</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>OSAvailabilityStatus</td>
<td>Indicates special availability conditions with respect to the official statement, including whether (i) the official statement will be made available late (after closing); (ii) an official statement has not been produced; or (iii) the official statement produced for a limited offering under Rule 15c2-12(d)(1)(i) is available only from the underwriter.</td>
<td>Enumerated Value:</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>• OSNotAvailableAtClosing</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>• OSAvailableOnlyFromUnderwriter_15c212ExemptLimitedOffering</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>• OSNotProduced_15c212ExemptLimitedOffering</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>• OSNotProduced_15c212ExemptShortTermOffering</td>
</tr>
<tr>
<td></td>
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<td></td>
<td>• OSNotProduced_15c212ExemptPuttableOffering</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>• OSNotProduced_15c212ExemptSmallOffering</td>
</tr>
<tr>
<td></td>
<td>POSAvailabilityStatus</td>
<td>Indicates special availability conditions with respect to the preliminary official statement where an official statement is not available by closing, including whether (i) the preliminary official statement is being made available or (ii) preliminary official statement has not been produced.</td>
<td>Enumerated Value:</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>• POSSubmitted</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>• NoPOSPrepared</td>
</tr>
<tr>
<td></td>
<td>UnderwritingSpread</td>
<td>If underwriting spread not submitted to EMMA, indicates whether underwriting spread or agency fee paid is disclosed in official statement or if not disclosed for a competitive sale.</td>
<td>Enumerated Value:</td>
</tr>
<tr>
<td></td>
<td>DisclosureIndicator</td>
<td></td>
<td>• DisclosedInOfficialStatement</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>• NotDisclosedCompetitiveSale</td>
</tr>
<tr>
<td></td>
<td>UnderwritingSpread</td>
<td>Underwriting spread or agency fee paid to underwriter in a negotiated offering, if not disclosed in official statement. (if Underwriting Spread is in dollars – e.g., express $1,000,000.00 as 1000000; otherwise if in basis points – e.g., express 25 basis points as 0.25). Interpretation of value: If Underwriting Spread value is greater than 100.00 the value will be interpreted as dollars, otherwise as percent.</td>
<td>Float ex: 450245.55 [dollars] or 0.85 [basis points]</td>
</tr>
<tr>
<td></td>
<td>G32Issue</td>
<td>Indicates whether the issuer or other obligated persons have agreed to undertake to provide continuing disclosure information as contemplated by Exchange Act Rule 15c2-12.</td>
<td>Enumerated Value:</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>• Yes</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>• No</td>
</tr>
</tbody>
</table>
# Submission Data Tags

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</table>
|                | IssueType | Indicates whether issue is (i) a new issue (including new money issues and current and advance refunding issues), (ii) an outstanding issue that is being remarketed, or (iii) an outstanding issue that is being refunded. | Enumerated Value:  
• NewIssue  
• Remarketed  
• Refunded |
|                | SecurityType | Indicates whether (i) nine-digit CUSIP numbers are assigned to the securities in the issue, (ii) no CUSIP numbers are assigned to the securities in the issue, or (iii) only a six-digit CUSIP number has been submitted to EMMA for a commercial paper issue. | Enumerated Value:  
• CUSIP9  
• CommercialPaper  
• nonCUSIP |
|                | AdvancedRefundingFlag | Indicates that this issue/series was issued to refinance outstanding bonds. | Enumerated Value:  
• Yes  
• No |
|                | IssuerName | Full issuer name as it appears on the official statement. | Max250Text  
ex: Emma County Infrastructure Finance Authority |
|                | IssueDescription | Full issue description as it appears on the official statement. | Max250Text  
ex: Road Improvement Refunding Bonds, Series 2008A |
|                | RestrictionOnNewIssueFlagIssuerState | Standard state abbreviation. | String;StateCode;2  
ex: VA |
|                | IssueClosingDate (i.e. Expected Closing Date / First Trade Settlement Date) | Date on which the issue is expected to settle. | CCYY-MM-DD  
ex: 2008-12-15 |
|                | OriginalDatedDateIssueDatedDate | Original dated date of an issue if a new dated date is assigned for the remarketed issue in which the CUSIP number has not changed the Dated date of the issue. | CCYY-MM-DD  
ex: 2008-12-01CCYY-MM-DD  
ex: 2008-12-01 |
|                | NewMoneyFlag | Indicates that the Securities are issued for a new project or purpose. | Enumerated Value:  
• Yes  
• No |
|                | DistributionType | This field describes whether the issue is a Primary Offering or Secondary Offering. | Enumerated Value:  
• PRIM_Primary  
• Other  
Type= String{Min1,Max20} |
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<tbody>
<tr>
<td>CertificateType</td>
<td>Certificate Type</td>
<td>Identifies the certificate type in which the security can be held. (ex: Registered, Book Entry Only.)</td>
<td>Enumerated Value: • BEOL - Book Entry Only • REGC - Registered (Certificated) • (R) • BERR - Bearer • INCH - Interchangeable • DMAT – Dematerialized</td>
</tr>
<tr>
<td>SaleMethod</td>
<td>Sale Method</td>
<td>Identifies the Sale Method for the offering as competitive, negotiated or a private placement.</td>
<td>Enumerated Value: • COMP_Competitive • NEGO_Negotiated</td>
</tr>
<tr>
<td>MinimumDenomination</td>
<td>Minimum Denomination</td>
<td>Original minimum denomination required for transfer or change of ownership of a security (tradable) as determined in the bond indenture.</td>
<td>Max20digits</td>
</tr>
<tr>
<td>MultipleDenomination</td>
<td>Multiple Denomination</td>
<td>Original multiple or incremental denomination, to the minimum denomination required for transfer or change of ownership of a security (tradable) as determined in the bond indenture.</td>
<td>Type= Float ex: 100.5</td>
</tr>
<tr>
<td>ChangeInOriginalMinimumDenominationAllowedFlag</td>
<td>Change in Original Minimum Denomination Allowed Flag</td>
<td>Indicate whether the minimum denomination for a new issue has the ability to change over the course of the security’s life.</td>
<td>Enumerated Value: • Yes • No</td>
</tr>
<tr>
<td>TotalParValue</td>
<td>Total Par Value</td>
<td>The stated face value of the bond. In case of share, an amount assigned and expressed on a per share basis.</td>
<td>Type= Decimal ex: 2500000</td>
</tr>
<tr>
<td>SeriesId</td>
<td>Series Id</td>
<td>A identifier to identify a collection of securities within an Issue with same Expected Closing Date.</td>
<td>Max10digits</td>
</tr>
<tr>
<td>RepaymentSource</td>
<td>Repayment Source</td>
<td>The limitations of the resources and issuer can avail themselves to repay the debt. The values are Revenue, General Obligation or Double Barreled.</td>
<td>Enumerated Value: • RV - Revenue • GO - General Obligation • DB - Double Barreled</td>
</tr>
<tr>
<td>FirstPaymentDate</td>
<td>First Payment Date</td>
<td>Date the first payment is due to the holders of the security.</td>
<td>Format: YYY-MM-DD</td>
</tr>
</tbody>
</table>
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<tr>
<td></td>
<td>AdvancedRefundingMethod</td>
<td>Identifies the advanced refunding method. For purposes of certain tax and securities laws and regulations, a refunding in which the refunded issue remains outstanding for a period of more than 90 days after the issuance of the refunding issue.</td>
<td>Enumerated Value:&lt;br&gt;• ADVR - Advance Refunding&lt;br&gt;• CRSR - Crossover Refunding&lt;br&gt;• FGGR - Full Cash or Gross Refunding&lt;br&gt;• NCHR - Net Cash Refunding&lt;br&gt;• SYNR - Synthetic Refunding&lt;br&gt;• CRNR - Current Refunding&lt;br&gt;• DEFN - Defeasance</td>
</tr>
<tr>
<td></td>
<td>CreditEnhancementApplicableFlag</td>
<td>The use of the credit of an entity other than the issuer or obligor to provide additional security in a bond or note financing.</td>
<td>Enumerated Value:&lt;br&gt;• Yes&lt;br&gt;• No</td>
</tr>
<tr>
<td></td>
<td>StepUpFlag</td>
<td>Indicates that the coupon rate of the bond changes per a pre-determined schedule.</td>
<td>Enumerated Value:&lt;br&gt;• Yes&lt;br&gt;• No</td>
</tr>
<tr>
<td></td>
<td>PACBondFlag</td>
<td>Planned Amortization Class Bond (PAC Bond) Flag – The proposed rule change would include a “yes/no” flag on Form G-32 to indicate whether the offering is an asset-backed bond payable with a fixed sinking fund schedule.</td>
<td>Enumerated Value:&lt;br&gt;• Yes&lt;br&gt;• No</td>
</tr>
<tr>
<td></td>
<td>InterestClassification</td>
<td>Identifies whether interest is paid:&lt;br&gt;- Periodic&lt;br&gt;- At Maturity&lt;br&gt;- Discounted&lt;br&gt;- None of the Above.</td>
<td>Enumerated Value:&lt;br&gt;• PRDC - Periodic&lt;br&gt;• ATMA - At Maturity&lt;br&gt;• DISC - Discounted&lt;br&gt;• NONE - None of the Above</td>
</tr>
<tr>
<td></td>
<td>InterestCalculationMethod</td>
<td>The accrual period calculation method that will be used when calculating interest to be paid out.</td>
<td>Enumerated Value:&lt;br&gt;• A360 - Actual/360&lt;br&gt;• 3036 - 30/360&lt;br&gt;• A365 - Actual/365&lt;br&gt;• ACAC - Actual/Actual</td>
</tr>
<tr>
<td></td>
<td>InterestType</td>
<td>Indicates whether the interest if fixed or variable.</td>
<td>Enumerated Value:&lt;br&gt;• FIXD - Fixed&lt;br&gt;• VARB - Variable</td>
</tr>
</tbody>
</table>
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</tr>
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</table>
|               | InterestMethod | The interest accrual method that will be used for the security. | Enumerated Value:  
  - SINT - Simple Interest  
  - CMDL - Compound – Daily  
  - CMMML - Compound – Monthly  
  - CMQL - Compound – Quarterly  
  - CMHL - Compound – Half Yearly  
  - CMYL - Compound – Yearly |
|               | PaymentFrequencyType | Identifies the Payment Frequency Type. | Enumerated Value:  
  - YEAR - Every N Years  
  - HAYR - Every N Half-years  
  - QUAT - Every N Quarters  
  - MTHS - Every N Months  
  - FORT - Every N Fortnights  
  - WEEK - Every N Weeks  
  - DAYS - Every N Days  
  - OTHE - Other |
|               | PaymentFrequencyNumber | The actual number value of the frequency. | Type= Integer  
  ex: 10 |
|               | VariableInterestBasis | Represents the mechanism by which the variable interest is arrived at. Applicable only if the interest type is variable.  
Valid values are:  
- Auction  
- Index.  
- Dealer Set  
- Other | Enumerated Value:  
  - AUCT - Auction  
  - INDX - Index  
  - OTHE - Other  
  - DLST - Dealer Set |
|               | VariableInterestIndexSpread | The symbol of the index that will be used to calculate the interest if it is variable and Index based. | Format: 15d signed +/- |
|               | VariableInterestIndexDateTyp e | The date on which the index should be used for computing the interest. Applicable for variable rate, index based securities. | Enumerated Value:  
  - DALY - Daily  
  - ASTD - At accrual start date  
  - ASED - At accrual end date |
|               | FederalTaxableFlag | Indicates the interest income paid to the bond holder is federally taxable. | Enumerated Value:  
  - Yes  
  - No |
|               | StateTaxableFlag | Indicates the interest income paid to the bond holder is state taxable. | Enumerated Value:  
  - Yes  
  - No |
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<tr>
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</tr>
<tr>
<td>-------------------</td>
</tr>
</tbody>
</table>
|                   | BankQualifiedFlag | Designation given to a public purpose bond offering by the issuer if it reasonably expects to issue in the calendar year of such offering no more than $10 million par amount of bonds of the type required to be included in making such calculation under the Internal Revenue Code. When purchased by a commercial bank for its portfolio, the bank may receive an 80% tax deduction for the interest cost of carry for the issue. A bond that is bank qualified is also known as a “qualified tax-exempt obligation.” | Enumerated Value:  
  - Yes  
  - No |
|                   | FederalAlternativeMinimumTaxFlag | Indicates whether the interest income paid is taxable to the bond holder according to the alternative minimum tax rules. | Enumerated Value:  
  - Yes  
  - No |
|                   | StateAlternativeMinimumTaxFlag | Additional state issuance codes for Bonds that are issued in multiple states and is associated with the state tax rules above. | Enumerated Value:  
  - Yes  
  - No |
|                   | RedemptionFrequencyType | The actual number value of the frequency. | Enumerated Value:  
  - YEAR - Every N Years  
  - HAYR - Every N Half-years  
  - QUAT - Every N Quarters  
  - MTHS - Every N Months  
  - FORT - Every N Fortnights  
  - WEEK - Every N Weeks  
  - DAYS - Every N Days  
  - OTHE - Other |
|                   | RedemptionFrequencyNumber | The actual number value of the frequency. Type= Integer  
  ex: 12 |
|                   | CallType | The type of execution of the call feature. | Enumerated Value:  
  - LOTR - Lottery  
  - PROR - Pro-rata |
|                   | CallScheduleType | Indicates the type Call Schedule:  
  0 = none  
  1 = discrete calls with no notification  
  2 = continuous calls with notification  
  3 = discrete calls with notification | Enumerated Value:  
  - DCNN - Discrete Calls with No Notification  
  - CCWN - Continuous Calls with Notification  
  - DCWN - Discrete Calls with Notification  
  - NONE - None |
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<tbody>
<tr>
<td></td>
<td>DaysToCallNotice</td>
<td>Number of days prior to a call date that the issuer/agent must give notice to holders.</td>
<td>Type = Integer ex: 10</td>
</tr>
</tbody>
</table>
|               | CallNotificationWindow       | Identifies whether a business calendar or an actual calendar is used for the Days to Call Notice. | Enumerated Value:  
• BUSI - Business Days  
• CALD - Calendar Days |
|               | PutType                      | Indicates whether the redemption prior to maturity date feature is Mandatory, Optional or Both to the bond holder. | Enumerated Value:  
• MAND - Mandatory  
• OPTN - Optional  
• BOTH - Both |
|               | PutFrequencyNumber           | The actual number value of the frequency.                                   | Type = Integer ex: 100 |
|               | PutFrequencyType             | Identifies the coupon payment Frequency type.                               | Enumerated Value:  
• YEAR - Every N Years  
• HAYR - Every N Half-years  
• QUAT - Every N Quarters  
• MTHS - Every N Months  
• FORT - Every N Fortnights  
• WEEK - Every N Weeks  
• DAYS - Every N Days  
• OTHE - Other |
|               | VariableInterestIndexName    | The symbol of the index that will be used to calculate the interest, if it is variable and Index based. | Enumerated Value:  
• SOFR - SOFR  
• FEDD - FED  
• BMAA – BMA  
• LIBR - LIBOR  
• OTHE - OTHER |
|               | NIIDSEligibleFlag            | Indicates that a primary offering of municipal securities is a new issue eligible for submission of information to NIIDS under Rule G-34(a)(ii)(C). | Enumerated Value:  
• Yes  
• No |
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<tr>
<td></td>
<td>FormalAwardDateTime (Date)</td>
<td>For competitive issues, the later of the time the issuer formally awards the issue or the time the issuer notifies the underwriter of the award; and, for negotiated issues, the later of the time the contract to purchase the securities from the issuer is executed or the time the issuer notifies the underwriter of its execution of the agreement. Original nine-digit CUSIP number of the latest maturity of an issue being remarketed if one or more new CUSIP numbers are assigned to the remarketed securities. Original dated date of an issue if a new dated date is assigned for the remarketed issue in which the CUSIP number has not changed.</td>
<td>BasicDate</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>ex: 2012-05-20</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>String{Min9,Max9}</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>ex: 123456AB7</td>
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<tr>
<td></td>
<td></td>
<td></td>
<td>CCYY-MM-DD</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>ex: 2008-12-01</td>
</tr>
<tr>
<td></td>
<td>FormalAwardDateTime (Time)</td>
<td>For competitive issues, the later of the time the issuer formally awards the issue or the time the issuer notifies the underwriter of the award; and, for negotiated issues, the later of the time the contract to purchase the securities from the issuer is executed or the time the issuer notifies the underwriter of its execution of the agreement. First Date and Time an underwriter anticipates beginning trade execution in a new issue. Six-digit base CUSIP number for commercial paper issues, as assigned by the CUSIP Service Bureau.</td>
<td>BasicTime</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>ex: 22:55</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>BasicDate</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>ex: 2012-05-20</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>String{Min6,Max6}</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>ex: 123456</td>
</tr>
<tr>
<td></td>
<td>FirstTradeExecutionDateTime (Date) Original Dated Date</td>
<td>For competitive issues, the later of the time the issuer formally awards the issue or the time the issuer notifies the underwriter of the award; and, for negotiated issues, the later of the time the contract to purchase the securities from the issuer is executed or the time the issuer notifies the underwriter of its execution of the agreement. Original nine-digit CUSIP number of the latest maturity of an issue being remarketed if one or more new CUSIP numbers are assigned to the remarketed securities. Original dated date of an issue if a new dated date is assigned for the remarketed issue in which the CUSIP number has not changed.</td>
<td>BasicDate</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>ex: 2012-05-20</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>BasicTime</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>ex: 22:55</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>String{Min9,Max9}</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>ex: 123456AB7</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>CCYY-MM-DD</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>ex: 2008-12-01</td>
</tr>
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</thead>
<tbody>
<tr>
<td>FirstTradeExecutionDateTime</td>
<td>(Time) CUSIP6</td>
<td>Six-digit base CUSIP number for commercial paper issues, as assigned by the CUSIP Service Bureau.</td>
<td>BasicTime&lt;br&gt;ex: 22:55&lt;br&gt;ex: 2012-05-20String</td>
</tr>
<tr>
<td>UnderlyingSecurities – Security</td>
<td>Original nine-digit CUSIP number of the latest maturity of an issue being remarketed if one or more new CUSIP numbers are assigned to the remarketed securities.</td>
<td>String</td>
<td>Min9,Max9&lt;br&gt;ex: 123456AB7</td>
</tr>
<tr>
<td>UnderlyingSecurities – Security – MaturityPrincipalAmount</td>
<td>Total principal amount at maturity of the security – not provided for commercial paper issues.</td>
<td>Type= Decimal&lt;br&gt;ex: 5000000</td>
<td></td>
</tr>
<tr>
<td>UnderlyingSecurities – Security – SecurityStatus</td>
<td>Nine-digit CUSIP number for each security, as assigned by the CUSIP Service Bureau – not provided for securities ineligible for CUSIP numbers and for commercial paper issues.</td>
<td>Enumerated Value:&lt;br&gt;• Underwritten&lt;br&gt;• NotUnderwritten&lt;br&gt;• PartiallyUnderwritten&lt;br&gt;• Remarked&lt;br&gt;• NotRemarked</td>
<td></td>
</tr>
<tr>
<td>UnderlyingSecurities – Security – PrincipalValueUnderwritten</td>
<td>The par value of the security underwritten by underwriter.</td>
<td>Type= Decimal&lt;br&gt;ex: 5000000</td>
<td></td>
</tr>
<tr>
<td>UnderlyingSecurities – Security</td>
<td>Initial offering price of the security – provided for CUSIP9 securities.</td>
<td>Type= Float&lt;br&gt;ex: 100.5</td>
<td></td>
</tr>
<tr>
<td>UnderlyingSecurities – Security</td>
<td>Initial offering yield of the security – provided for CUSIP9 securities.</td>
<td>Type= Float&lt;br&gt;ex: 3.95</td>
<td></td>
</tr>
<tr>
<td>UnderlyingSecurities – Security – RetailOrderPeriodFlag</td>
<td>Indicator of whether a retail order period was conducted. Covers both those retail order periods in which the issuer has specified that only retail orders be accepted and those periods in which the issuer instructs the dealer to prioritize retail orders over other types of orders. (NOTE: Applies to New Issue, Remarketing, Commercial Paper and Offerings having no CUSIP Numbers. Does not apply to Municipal Fund Securities – 529 College Savings Plans and Local Government Investment Pools).</td>
<td>Enumerated Value:&lt;br&gt;• Yes&lt;br&gt;• No</td>
<td></td>
</tr>
<tr>
<td>UnderlyingSecurities – Security – SerialTermIndicator</td>
<td>Indicates whether the bond is part of a Serial or Term issue.</td>
<td>Enumerated Value:&lt;br&gt;• SERL -Serial&lt;br&gt;• TERM -Term</td>
<td></td>
</tr>
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<tr>
<td>UnderlyingSecurities – Security -</td>
<td>SinkingFundFlag</td>
<td>Indicates whether the Sinking Fund will be called by Lottery, Pro-Rata.</td>
<td>Enumerated Value:</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>• Yes</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>• No</td>
</tr>
<tr>
<td>UnderlyingSecurities – Security -</td>
<td>SuperSinkerFlag</td>
<td>Indicates a term maturity, usually from a single family mortgage revenue issue with several term maturities, that will be the first bonds to be called from a sinking fund into which all proceeds from prepayments of mortgages financed by the issue are deposited.</td>
<td>Enumerated Value:</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>• Yes</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>• No</td>
</tr>
</tbody>
</table>
| UnderlyingSecurities – Security -    | CallableFlag                                  | Indicates the existence of a feature that provides the issuer the contractual option to redeem the bonds prior to the scheduled maturity date. (excludes extraordinary calls) Note: Shows the existence of or the requirement for a Call Schedule/ Call Feature.  
MSRB Rule G-12 (f) (i) and G-15 (a) (i) (C) (2) (a) | Enumerated Value:                |
|                                      |                                               |                                                                           | • Yes                             |
|                                      |                                               |                                                                           | • No                             |
| UnderlyingSecurities – Security -    | PutableStartDate                              | The first date from which the instance of the feature is effective.      | Type= ISODate (CCYY-MM-DD)       |
|                                      |                                               |                                                                           | ex: 2025-12-01                   |
|                                      |                                               |                                                                           | ex: 2025-12-01                   |
| UnderlyingSecurities – Security -    | PutableEndDate                                | The last date from which the instance of the feature is effective.       | Type= ISODate (CCYY-MM-DD)       |
|                                      |                                               |                                                                           | ex: 2025-12-01                   |
| UnderlyingSecurities – Security -    | CAV                                           | Indicates whether the primary offering has a call price on which all or a portion of the investment return is received in the form of an accretion from an initial principal amount to a maturity or redemption value. | Enumerated Value:                |
|                                      |                                               |                                                                           | • Yes                             |
|                                      |                                               |                                                                           | • No                             |
| UnderlyingSecurities – Security -    | OriginalIssueDiscountPrice                    | The original issuing price of a security that sold at an amount that is less than the maturity value of the bond. | Type= Float                      |
|                                      |                                               |                                                                           | ex: 100.5                        |
| UnderlyingSecurities – Security -    | OriginalIssueDiscountYield                    | The yield associated with the original issuing price on a security that sold for an amount that is less than the maturity value of the bond. | Type= Float                      |
|                                      |                                               |                                                                           | ex: 3.95                         |
## Submission Data Tags
### Description and Specification

<table>
<thead>
<tr>
<th>XML Container</th>
<th>Data Tag</th>
<th>Definition</th>
<th>Data Specification</th>
</tr>
</thead>
</table>
|               | UnderlyingSecurities – Security - PutableFlag | Indicate the existence of a feature that provides the bond holder the contractual option to redeem the bond prior to the scheduled maturity date. Note: Shows the existence of or the requirement for a Put Schedule/ Put Feature. | Enumerated Value:  
• Yes  
• No |
|               | UnderlyingSecurities – Security - NiidsSecurityStatus | Indicates whether the security has incoming information from DTCC’s NIIDs service. Options for this field include “active”, “cancelled”, “postponed”, and “delete.” | Enumerated Value:  
• Active  
• Cancelled  
• Postponed  
• Delete |
|               | UnderlyingSecurities – Security - Coupon | The periodic rate of interest, usually calculated as an annual rate payable on a security expressed as a percentage of the principal amount. The coupon rate, sometimes referred to as the “nominal interest rate,” does not take into account any discount or premium in the purchase price of the security. | Type= Decimal  
ex: 300.253 |
|               | MaturityDate | Maturity date of the security – not provided for commercial paper issues. | Type= ISODate (CCYY-MM-DD)  
ex: 2025-12-01 |
|               | UnderlyingSecurities – Security - ZeroCouponFlag | Original issue discount bond (OID) on which no periodic interest payments are made but which is issued at a substantial discount from par, accreting (at the rate represented by the offering yield at issuance) to its full value at maturity. | Enumerated Value:  
• Yes  
• No |
|               | UnderlyingSecurities – Security - ExtraOrdinaryCallFlag | Indicates a mandatory or optional redemption triggered by the occurrence of certain one-time or extraordinary events specified in the bond contract. | Enumerated Value:  
• Yes  
• No |
|               | UnderlyingSecurities – Security - MakeWholeCallFlag | Indicates a call provision allowing the issuer to pay off debt early that is designed to protect the investor from losses as a result of the earlier call. | Enumerated Value:  
• Yes  
• No |
|               | UnderlyingSecurities – Security - CapitalAppreciationFlag | Original issue discount (OID) bonds for which the investment return on an initial principal amount is reinvested at a stated compounded rate until maturity. | Enumerated Value:  
• Yes  
• No |
## Submission Data Tags
### Description and Specification

### EMMA Primary Market Disclosure Service

<table>
<thead>
<tr>
<th>XML Container</th>
<th>Data Tag</th>
<th>Definition</th>
<th>Data Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>UnderlyingSecurities – Security – RetailOrderPeriods – Period – RetailOrderPeriodDateTimeBegin - (Date)</td>
<td>Each date and each time (beginning and end) the retail order period was conducted is specified. Omitted if Retail Order Period Flag = “No”.</td>
<td>Type= BasicDate (pattern value=&quot;(19</td>
<td>20)[d\d-][0-9][0-9][1-9]([12][0-9]</td>
</tr>
<tr>
<td>UnderlyingSecurities – Security – RetailOrderPeriods – Period – RetailOrderPeriodDateTimeBegin - (Time)</td>
<td>Each date and each time (beginning and end) the retail order period was conducted is specified. Omitted if Retail Order Period Flag = “No”.</td>
<td>Type= BasicTime (pattern value=&quot;([0-9]-([12]</td>
<td>[1-5][0-9]))&quot;) ex: 22:55</td>
</tr>
<tr>
<td>UnderlyingSecurities – Security – PremiumCalls – Call - (Date)</td>
<td>The first date on which bonds may be called for redemption at a price above par.</td>
<td>Type= ISODate (CCYY-MM-DD) ex: 2025-12-01</td>
<td></td>
</tr>
<tr>
<td>UnderlyingSecurities – Security – PremiumCalls – Call - (Price)</td>
<td>The price of the bonds on the first part call at a price above par.</td>
<td>Type= Float ex: 100.5</td>
<td></td>
</tr>
<tr>
<td>UnderlyingSecurities – Security – ParCalls – Call - (Date)</td>
<td>The first date on which bonds may be called at Par for redemption.</td>
<td>Type= ISODate (CCYY-MM-DD) ex: 2025-12-01</td>
<td></td>
</tr>
<tr>
<td>ObligatedPersonsForContinuingDisclosureFiling – ObligatedPerson (ObligatedPersonType)</td>
<td>Indicates the type of person(s) (issuer or other obligated person) who has agreed to provide to EMMA continuing disclosure documents pursuant to continuing disclosure undertakings entered into consistent with Exchange Act Rule 15c2-12. The name of the entity acting as an obligated person, that has or will undertake, or is otherwise expected to provide, continuing disclosure as identified in the continuing disclosure undertaking.</td>
<td>Enumerated Value: • Issuer • Other</td>
<td></td>
</tr>
<tr>
<td>ObligatedPersonsForContinuingDisclosureFiling – ObligatedPerson (NameOfObligatedPersonForContinuingDisclosureFiling)</td>
<td>The timing for submission of annual financial information can be provided either as a specific date each year (CalendarYear basis, i.e., month and day, such as June 30) or the number of days or months after the end of the fiscal year (FiscalYear basis, i.e., such as 120 days after the end of the fiscal year December 31). Indicates the CalendarYear month of the specific date of each year of the continuing disclosure undertaking.</td>
<td>Max150Text ex: Emma County Infrastructure Finance Authority</td>
<td></td>
</tr>
</tbody>
</table>
### Submission Data Tags
**Description and Specification**

<table>
<thead>
<tr>
<th>XML Container</th>
<th>Data Tag</th>
<th>Definition</th>
<th>Data Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>ObligatedPersonsForContinuingDisclosureFiling – ObligatedPerson – DisclosureFilingSchedule (ScheduleBasisForFiling)</td>
<td>The timing for submission of annual financial information can be provided either as a specific date each year (CalendarYear basis, i.e., month and day, such as June 30) or the number of days or months after the end of the fiscal year (FiscalYear basis, i.e., such as 120 days after the end of the fiscal year December 31).</td>
<td>Enumerated Value: • CalendarYear • FiscalYearEnd</td>
</tr>
<tr>
<td></td>
<td>ObligatedPersonsForContinuingDisclosureFiling – ObligatedPerson – DisclosureFilingSchedule (FiscalYearEndMonth)</td>
<td>Indicates the CalendarYear day of the specific date of each year of the continuing disclosure undertaking.</td>
<td>Enumerated Value: • 1 (for January) • 2 (for February) • 3 (for March) • 4 (for April) • 5 (for May) • 6 (for June) • 7 (for July) • 8 (for August) • 9 (for September) • 10 (for October) • 11 (for November) • 12 (for December)</td>
</tr>
<tr>
<td></td>
<td>ObligatedPersonsForContinuingDisclosureFiling – ObligatedPerson – DisclosureFilingSchedule (FiscalYearEndDay)</td>
<td>Indicates the CalendarYear day of the specific date of each year of the continuing disclosure undertaking.</td>
<td>Type= Integer ex: 31</td>
</tr>
<tr>
<td></td>
<td>ObligatedPersonsForContinuingDisclosureFiling – ObligatedPerson – DisclosureFilingSchedule (MonthOrDayCountAfterFiscalYearEndWhenFilingExpected)</td>
<td>Indicates the FiscalYearEnd month of the obligated person’s fiscal year. Indicates the FiscalYearEnd day of the obligated person’s fiscal year.</td>
<td>Enumerated Value: • 1 (for January) • 2 (for February) • 3 (for March) • 4 (for April) • 5 (for May) • 6 (for June) • 7 (for July) • 8 (for August) • 9 (for September) • 10 (for October) • 11 (for November) • 12 (for December)</td>
</tr>
</tbody>
</table>
## Submission Data Tags

### Description and Specification

<table>
<thead>
<tr>
<th>XML Container</th>
<th>Data Tag</th>
<th>Definition</th>
<th>Data Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>ObligatedPersonsForContinuingDisclosureFiling – ObligatedPerson – DisclosureFilingSchedule (MonthOrDayAfterFiscalYearEndWhenFilingExpected)</td>
<td>Indicates the number of days or months after a specified end date of the issuer’s or obligated person’s fiscal year of the continuing disclosure undertaking.</td>
<td>Integer ex: 30</td>
</tr>
<tr>
<td></td>
<td>SubjectedToObjectiveCriteria</td>
<td>Determines if entities supporting the payment of debt service for an offering of municipal securities are required to provide annual financial information or operating data.</td>
<td>Type = Boolean String ex: Yes/No</td>
</tr>
<tr>
<td></td>
<td>ObligatedPersons – Organization (LeiId)</td>
<td>A 20-digit alpha-numeric code that connects to key reference information providing unique identification of legal entities participating in financial transactions.</td>
<td>Max20text ex: 559300QMBH1DMY67FP77</td>
</tr>
<tr>
<td></td>
<td>ObligatedPersons – Organization (Name)</td>
<td>A party having a financial obligation or arrangement to make the payment of all or part of debt service on municipal securities. The obligor is often the issuer but may be a conduit borrower of municipal securities proceeds.</td>
<td>Max150Text ex: Emma County Infrastructure Finance Authority</td>
</tr>
<tr>
<td></td>
<td>CreditEnhancements – CreditEnhancementDetails CUSIP 9</td>
<td>Provides the original CUSIP number(s) for Credit Enhancement.</td>
<td>Type = CUSIP 9 Type</td>
</tr>
<tr>
<td></td>
<td>CreditEnhancements – CreditEnhancementDetails (CreditEnhancementType)</td>
<td>Credit Enhancement Types include: letter of credit, bond insurance, credit facility, secondary insurance, and surety bond.</td>
<td>Enumerated Value: • LOCR - Letter of Credit • INSU - Insurance • OTHE - Other</td>
</tr>
<tr>
<td></td>
<td>CreditEnhancements – CreditEnhancementDetails (ExpirationDate)</td>
<td>Credit Enhancement Type; Name, Priority Level &amp; Expiration Date can occur multiple times.</td>
<td>Format: YYYY-MM-DD</td>
</tr>
<tr>
<td></td>
<td>CreditEnhancements – CreditEnhancementDetails - Organization (LeiId)</td>
<td>A 20-digit alpha-numeric code that connects to key reference information providing unique identification of legal entities participating in financial transactions.</td>
<td>Max20text ex: 559300QMBH1DMY67FP77</td>
</tr>
</tbody>
</table>
### Submission Data Tags
#### Description and Specification

<table>
<thead>
<tr>
<th>XML Container</th>
<th>Data Tag</th>
<th>Definition</th>
<th>Data Specification</th>
</tr>
</thead>
</table>
|                                   | CreditEnhancements – CreditEnhancementDetails – Organization(Name) | The name of an entity other than the issuer or obligor to provide additional security in a bond or note financing. This term typically is used in the context of bond insurance, bank letters of credit and other facilities, state intercept guarantees and credit programs. | Max150Text  
ex: Emma Incorporated                  |
|                                   | SyndicateManager                                             | Any member of the management group (although the term is often used to refer to a member other than the lead manager).                                                                                           | Select_from_MSRB_REGISTERED_Broker_Dealers               |
|                                   | MunicipalAdvisor                                             | A registered MSRB Municipal Advisor (with certain exceptions) that (a) provides advice to or on behalf of a municipal entity or obligated person with respect to municipal financial products or the issuance of municipal securities. | Select_from_MSRB_REGISTERED_MUNICIPAL_Advisor_Organization |
|                                   | AdvancedRefundingSecurity(CUSIP9)                           | Provides the original CUSIP number(s) for a Security being advance refunded.                                                                                                                               | Type= String[Min9,Max9]  
ex: 123456AB7            |
|                                   | AdvancedRefundingSecurity(RefundedAmount)                    | The dollar amount of each CUSIP number advance refunded in an issue.                                                                                                                                         | Float  
ex: 10000.00                                      |
| Document                          | DocumentDescription                                          | Document name, if any.                                                                                                                                                                                    | Max75Text  
ex: Official Statement or Preliminary Official Statement or Escrow Deposit Agreement or Reoffering Circular |
|                                   | DocumentPostingOperationIndicator                            | Indicates whether file will be appended to any existing files posted for such document or if file will replace all existing files posted for such document.                                                   | Enumerated Value:  
* AppendToPostedDocument  
* ReplacePostedDocument |
|                                   | CUSIP9IdentifierOfRefundingIssue                             | Nine-digit CUSIP number(s) of the refunding issue.                                                                                                                                                        | String[Min9,Max9]  
ex: 123456AB7                        |
|                                   | OriginalCUSIP9ofRefundedSecurity                             | Original CUSIP number for security being refunded, reflecting the CUSIP number of the security immediately preceding the refunding.                                                                    | String[Min9,Max9]  
ex: 123456AB7                        |
|                                   | FileOrder                                                    | If a document consists of more than one electronic file, provides file sequence information.                                                                                                               | Integer  
ex: 1                                           |
### Submission Data Tags
### Description and Specification

**EMMA Primary Market Disclosure Service**

<table>
<thead>
<tr>
<th>XML Container</th>
<th>Data Tag</th>
<th>Definition</th>
<th>Data Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>File</strong></td>
<td>DateReceivedfromIssuer</td>
<td>Date that the document was received from the issuer.</td>
<td>CCYY-MM-DD</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>ex: 2008-12-08</td>
</tr>
<tr>
<td></td>
<td>ManagingUnderwriterMSRBID</td>
<td>MSRB-issued registration number of the managing underwriter.</td>
<td>Max15Text</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>ex: A12345</td>
</tr>
<tr>
<td><strong>Underwriter</strong></td>
<td>OSContactOrganizationName</td>
<td>Long name of the contact organization responsible for making the official statement available upon request.</td>
<td>Max140Text</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>ex: MuniBond Dealer</td>
</tr>
<tr>
<td><strong>Limited Offering Contact</strong></td>
<td>OSContactFirstName</td>
<td>The first name of the contact person responsible for making the official statement available upon request.</td>
<td>Max25Text</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>ex: Emma</td>
</tr>
<tr>
<td><strong>Limited Offering Contact</strong></td>
<td>OSContactLastName</td>
<td>The last name of the contact person responsible for making the official statement available upon request.</td>
<td>Max25Text</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>ex: Jones</td>
</tr>
<tr>
<td><strong>Limited Offering Contact</strong></td>
<td>OSContactTitle</td>
<td>The title of the contact person responsible for making the official statement available upon request.</td>
<td>Max140Text</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>ex: Senior Vice President</td>
</tr>
<tr>
<td><strong>Limited Offering Contact</strong></td>
<td>OSContactPhoneNumber</td>
<td>The phone number of the contact person responsible for making the official statement available upon request.</td>
<td>Max15Text</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>ex: 703-555-2222</td>
</tr>
<tr>
<td><strong>Limited Offering Contact</strong></td>
<td>OSContactPhoneNumberExtension</td>
<td>The extension of the phone number (if any) of the contact person responsible for making the official statement available upon request.</td>
<td>Max6Text</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>ex: 1235</td>
</tr>
<tr>
<td><strong>Limited Offering Contact</strong></td>
<td>OSContactAddress</td>
<td>The street address or post office box of the contact person responsible for making the official statement available upon request.</td>
<td>Max140Text</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>ex: 123 Security Road</td>
</tr>
<tr>
<td><strong>Limited Offering Contact</strong></td>
<td>OSContactCity</td>
<td>The address city of the contact person responsible for making the official statement available upon request.</td>
<td>Max25Text</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>ex: Alexandria</td>
</tr>
<tr>
<td><strong>Limited Offering Contact</strong></td>
<td>OSContactState</td>
<td>The address state of the contact person responsible for making the official statement available upon request.</td>
<td>String;StateCode;2</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>ex: VA</td>
</tr>
<tr>
<td><strong>Limited Offering Contact</strong></td>
<td>OSContactZipCode</td>
<td>The address zip code of the contact person responsible for making the official statement available upon request.</td>
<td>Max15Text</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>ex: 22301-5555</td>
</tr>
<tr>
<td><strong>Limited Offering Contact</strong></td>
<td>OSContactEmailAddress</td>
<td>The email address of the contact person responsible for making the official statement available upon request.</td>
<td>Max50Text</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>ex: <a href="mailto:ejones@munibonddealer.com">ejones@munibonddealer.com</a></td>
</tr>
</tbody>
</table>
Specifications for the EMMA Primary Market Submission Service

Table 2: Required Message Tags

Below is the specification of required or optional data tags for data and document messages. The data elements are organized in a hierarchical data relationship. This specification sets out each data element’s XML container, data tag and if the tag value is required, optional, as applicable, or not applicable and possible qualifying conditions.

<table>
<thead>
<tr>
<th>XML Container</th>
<th>Data Tag</th>
<th>Primary Market Disclosures</th>
<th>Advance Refunding Disclosures</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>[New Issue] CUSIP based (CUSIP-9)</td>
<td>[New Issue] Ineligible for CUSIP Number Assignment (non-CUSIP)</td>
</tr>
<tr>
<td>Submission</td>
<td></td>
<td>R</td>
<td>R</td>
</tr>
<tr>
<td>Submission Identification</td>
<td>O (for subsequent submissions)</td>
<td>R (for subsequent submissions)</td>
<td>O (for subsequent submissions)</td>
</tr>
<tr>
<td>Submission Underwritten CUSIP Identifier</td>
<td>O (for subsequent submissions)</td>
<td>N/A</td>
<td>O (for subsequent submissions)</td>
</tr>
<tr>
<td>Offering Type</td>
<td></td>
<td>R</td>
<td>R</td>
</tr>
<tr>
<td>CUSIP9 Of Latest Maturity On Issue Not Underwritten</td>
<td>R (only if Non-Underwritten Issue in Offering)</td>
<td>N/A</td>
<td>R (only if Non-Underwritten Issue in Offering)</td>
</tr>
<tr>
<td>OS Availability Status</td>
<td></td>
<td>AA</td>
<td>AA</td>
</tr>
<tr>
<td>POS Availability Status</td>
<td></td>
<td>AA</td>
<td>AA</td>
</tr>
<tr>
<td>Underwriting Spread Disclosure Indicator</td>
<td></td>
<td>R</td>
<td>R</td>
</tr>
</tbody>
</table>

Required Message Tags

Form G-32 Submissions
EMMA Primary Market Disclosure Service
### Required Message Tags

**Form G-32 Submissions**  
**EMMA Primary Market Disclosure Service**

<table>
<thead>
<tr>
<th>XML Container</th>
<th>Data Tag</th>
<th>Primary Market Disclosures</th>
<th>Advance Refunding Disclosures</th>
<th>[New Issue] CUSIP based (CUSIP-9)</th>
<th>[New Issue] Ineligible for CUSIP Number Assignment (non-CUSIP)</th>
<th>[Remarketed]</th>
</tr>
</thead>
<tbody>
<tr>
<td>Offering</td>
<td>Underwriting Spread</td>
<td>R (not required if disclosed in official statement or for competitive sale)</td>
<td>R (not required if disclosed in official statement or for competitive sale)</td>
<td>R (not required if disclosed in official statement or for competitive sale)</td>
<td>R (not required if disclosed in official statement or for competitive sale)</td>
<td>N/A</td>
</tr>
<tr>
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<td>Distribution Type</td>
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<td>Sale Method</td>
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<td>Issue</td>
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<td>R</td>
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<td>R</td>
</tr>
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<td>Security Type</td>
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<tr>
<td></td>
<td>Issuer Name</td>
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</tr>
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<td>Issue Description</td>
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<td></td>
<td>Issuer State</td>
<td>O</td>
<td>R</td>
<td>O</td>
<td>O</td>
<td>R (if Security Type = non-CUSIP)</td>
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<tr>
<td></td>
<td>Issue Closing Date</td>
<td>R</td>
<td>R</td>
<td>R</td>
<td>R</td>
<td>N/A</td>
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<tr>
<td></td>
<td>Formal Award Date Time</td>
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<td>N/A</td>
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<tr>
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<td>First Trade Execution Date Time</td>
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<td>N/A</td>
<td>O</td>
<td>N/A</td>
<td>N/A</td>
</tr>
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### Form G-32 Submissions
**EMMA Primary Market Disclosure Service**

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### Form G-32 Submissions

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**Specifications for the EMMA Primary Market Submission Service**
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### Footnotes:
### Required Message Tags

**Form G-32 Submissions**  
**EMMA Primary Market Disclosure Service**

<table>
<thead>
<tr>
<th>XML Container</th>
<th>Data Tag</th>
<th>Primary Market Disclosures</th>
<th>Advance Refunding Disclosures</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>[New Issue] Ineligible for CUSIP Number Assignment (non-CUSIP)</td>
<td>[Remarked]</td>
</tr>
<tr>
<td>R</td>
<td>Required for a complete data submission</td>
<td></td>
<td></td>
</tr>
<tr>
<td>O</td>
<td>Optional</td>
<td></td>
<td></td>
</tr>
<tr>
<td>AA</td>
<td>As Applicable</td>
<td></td>
<td></td>
</tr>
<tr>
<td>N/A</td>
<td>Not Applicable – signifies that no data is to be provided for a particular data element either because such data is not needed for such submission or such data will be derived from other sources available to the MSRB – any data supplied for a data element marked as N/A will not be used for purposes of EMMA portal or subscription dissemination</td>
<td></td>
<td></td>
</tr>
<tr>
<td>(1)</td>
<td>Coupon (i.e., Interest Rate) should be - Blank for Variable Rate, 0 (zero) for Zero Coupon</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

---

**Notes:**

- R: Required for a complete data submission
- O: Optional
- AA: As Applicable
- N/A: Not Applicable – signifies that no data is to be provided for a particular data element either because such data is not needed for such submission or such data will be derived from other sources available to the MSRB – any data supplied for a data element marked as N/A will not be used for purposes of EMMA portal or subscription dissemination

**Special Notes:**

- (1): Coupon (i.e., Interest Rate) should be - Blank for Variable Rate, 0 (zero) for Zero Coupon
XML MESSAGE SCHEMAS

Detailed below are three (3) schemas; Data, Document, and a common Type Definition schema that is included in each of the Data and Document schemas by reference. The Data and Document schemas describe the base structural containers which in turn reference child-level containers and specifications described in the Type Definition schema. The schemas are universally applicable to Data and Document Messages for Primary Market and Advance Refunding submissions.

Data Message Schema

```xml
<?xml version="1.0"?>
<xs:schema xmlns:xs="http://www.w3.org/2001/XMLSchema" xmlns="EMMA-SUBMISSION-XML"
    targetNamespace="EMMA-SUBMISSION-XML" elementFormDefault="qualified"
    attributeFormDefault="unqualified" version="1.0">
    <xs:include schemaLocation="..."/>
    <xs:element name="DisclosureMessage" type="DataMessageType"/>
    <!-- Type Definition starts -->
    <xs:complexType name="DataMessageType">
        <xs:sequence>
            <xs:element name="Submission" type="SubmissionDetailsType" minOccurs="1" maxOccurs="1"/>
            <xs:element name="Offering" type="OfferingDetailsType" minOccurs="1" maxOccurs="1"/>
            <xs:element name="Underwriter" type="UnderwriterDetailsType" minOccurs="1" maxOccurs="1"/>
            <xs:element name="OSAvailabilityContactInformation" type="OSAvailabilityContactInformationType" minOccurs="0" maxOccurs="1"/>
        </xs:sequence>
    </xs:complexType>
    <!-- Type definition ends -->
</xs:schema>
```
Document Message Schema

```xml
<?xml version="1.0"?>
<xs:schema xmlns:xs="http://www.w3.org/2001/XMLSchema" xmlns="EMMA-SUBMISSION-XML"

targetNamespace="EMMA-SUBMISSION-XML" elementFormDefault="qualified"
attributeFormDefault="unqualified" version="1.0">
    <xs:include schemaLocation="..."/>
    <!-- Type Definition starts -->
    <xs:complexType name="DocumentMessageType">
        <xs:sequence>
            <xs:element name="Submission" type="SubmissionDetailsType" minOccurs="1"
                maxOccurs="1" />
            <xs:element name="Document" type="DocumentDetailsType" minOccurs="1"
                maxOccurs="1" />
            <xs:element name="Underwriter" type="UnderwriterDetailsType" minOccurs="1"
                maxOccurs="1" />
        </xs:sequence>
    </xs:complexType>
    <!-- Type definition ends -->
</xs:schema>
```
G32 Type Definition Schema

The IssueType definition schema is being deprecated and will be obsolete after August 2, 2021. Please use the new G32IssuesType instead.

```xml
<?xml version="1.0" encoding="utf-8"?>
<xs:schema elementFormDefault="qualified"
targetNamespace="http://emma.msrb.org/schemas/disclosuremessages/types"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:tns="http://emma.msrb.org/schemas/disclosuremessages/types">
  <xs:import schemaLocation="DisclosureService_3.xsd" namespace="http://schemas.microsoft.com/Message"/>
  <xs:complexType name="DisclosureDataMessageType">
    <xs:sequence>
      <xs:element minOccurs="1" maxOccurs="1" name="Submission" type="tns:SubmissionDetailsType"/>
      <xs:element minOccurs="1" maxOccurs="1" name="Offering" type="tns:OfferingDetailsType"/>
      <xs:element minOccurs="1" maxOccurs="1" name="Underwriter" type="tns:UnderwriterDetailsType"/>
      <xs:element minOccurs="0" maxOccurs="1" name="OSAvailabilityContactInformation" type="tns:OSAvailabilityContactInformationType"/>
    </xs:sequence>
  </xs:complexType>
  <xs:complexType name="SubmissionDetailsType">
    <xs:sequence>
      <xs:choice minOccurs="1" maxOccurs="1">
        <xs:element minOccurs="0" maxOccurs="1" name="SubmissionUnderwrittenCUSIP9Identifier" type="tns:Cusip9Type"/>
        <xs:element minOccurs="0" maxOccurs="1" name="SubmissionIdentifier" type="tns:Max25Text"/>
      </xs:choice>
    </xs:sequence>
    <xs:attribute name="SubmissionType" type="tns:SubmissionType"/>
    <xs:attribute name="SubmissionStatus" type="tns:SubmissionStatusType"/>
  </xs:complexType>
  <xs:simpleType name="SubmissionType">
    <xs:restriction base="xs:string">
      <xs:enumeration value="PrimaryMarketDisclosure"/>
      <xs:enumeration value="AdvanceRefundingDisclosure"/>
    </xs:restriction>
  </xs:simpleType>
  <xs:simpleType name="SubmissionStatusType">
    <xs:restriction base="xs:string">
      <xs:enumeration value="Publish"/>
      <xs:enumeration value="NoticeOfCancellationOfOffering"/>
      <xs:enumeration value="Test"/>
    </xs:restriction>
  </xs:simpleType>
</xs:schema>
```
Specifications for the EMMA Primary Market Submission Service

<xs:restriction>
<xs:complexType name="OfferingDetailsType">
<xs:sequence>
<xs:element minOccurs="0" maxOccurs="unbounded" name="Issue" type="tns:IssuesType"/>
<xs:element minOccurs="0" maxOccurs="4" name="UnderwriterAssessmentExemptionIndicator" type="tns:UnderwriterAssessmentExemptionIndicatorType"/>
<xs:element minOccurs="0" maxOccurs="2" name="UnderwriterAssessmentDiscountIndicator" type="tns:UnderwriterAssessmentDiscountIndicatorType"/>
<xs:element minOccurs="0" maxOccurs="unbounded" name="CUSIP9OfLatestMaturityOnIssueNotUnderwritten" type="tns:Cusip9Type"/>
<xs:element minOccurs="0" maxOccurs="unbounded" name="G32Issue" type="tns:G32IssuesType"/>
</xs:sequence>
<xs:attribute name="OfferingType" type="tns:OfferingType"/>
<xs:attribute name="OSAvailabilityStatus" type="tns:OSAvailabilityStatusType"/>
<xs:attribute name="POSAvailabilityStatus" type="tns:POSAvailabilityStatusType"/>
<xs:attribute name="UnderwritingSpreadDisclosureIndicator" type="tns:UnderwritingSpreadDisclosureIndicatorType"/>
<xs:attribute name="UnderwritingSpread" type="xs:float"/>
</xs:complexType>
<xs:complexType name="IssuesType">
<xs:sequence>
<xs:element minOccurs="0" maxOccurs="unbounded" name="OriginalCUSIP9OfRemarketedSecurity" nillable="true" type="tns:Cusip9Type"/>
<xs:element name="ObligatedPersonsForContinuingDisclosureFiling" type="tns:ObligatedPersonsForContinuingDisclosureFilingType" minOccurs="0" maxOccurs="1"/>
<xs:element minOccurs="0" maxOccurs="1" name="FormalAwardDateTime" type="tns:BasicDateTime"/>
<xs:element minOccurs="0" maxOccurs="1" name="FirstTradeExecutionDateTime" type="tns:BasicDateTime"/>
</xs:sequence>
<xs:attribute name="IssueType" type="tns:IssueType"/>
<xs:attribute name="SecurityType" type="tns:SecurityType"/>
<xs:attribute name="IssueDescription" type="tns:Max250Text"/>
<xs:attribute name="IssuerName" type="tns:Max250Text"/>
<xs:attribute name="IssuerState" type="tns:StateCode"/>
<xs:attribute name="IssueClosingDate" type="tns:ISODate"/>
<xs:attribute name="IssueDatedDate" type="tns:ISODate"/>
<xs:attribute name="OriginalDatedDate" type="tns:ISODate"/>
<xs:attribute name="CUSIP6" type="tns:Cusip6Type"/>
<xs:attribute name="IsSubjectToContinuingDisclosureAgreement" type="tns:IsSubjectToContinuingDisclosureAgreementType"/>
<xs:attribute name="RetailOrderPeriodFlag" type="tns:RetailOrderPeriodFlagType"/>
</xs:complexType>

<xs:complexType name="ObligatedPersonsForContinuingDisclosureFilingType">
  <xs:sequence>
    <xs:element name="ObligatedPerson" type="tns:ObligatedPersonsType" maxOccurs="unbounded"/>
  </xs:sequence>
</xs:complexType>

<xs:complexType name="ObligatedPersonsType">
  <xs:sequence>
    <xs:element name="DisclosureFilingSchedule" type="tns:DisclosureFilingScheduleType" minOccurs="0" maxOccurs="1"/>
  </xs:sequence>
  <xs:attribute name="ObligatedPersonType" type="tns:PersonType"/>
  <xs:attribute name="NameOfObligatedPersonForContinuingDisclosureFiling" type="tns:Max250Text"/>
</xs:complexType>

<xs:complexType name="DisclosureFilingScheduleType">
  <xs:attribute name="ScheduleBasisForFiling" type="tns:ScheduleTypes"/>
  <xs:attribute name="CalendarYearAnnualFilingMonth" type="tns:MonthType"/>
  <xs:attribute name="CalendarYearAnnualFilingDay" type="xs:integer"/>
  <xs:attribute name="FiscalYearEndMonth" type="tns:MonthType"/>
  <xs:attribute name="FiscalYearEndDay" type="xs:integer"/>
  <xs:attribute name="MonthOrDayCountAfterFiscalYearEndWhenFilingExpected" type="xs:integer"/>
  <xs:attribute name="MonthOrDayAfterFiscalYearEndWhenFilingExpected" type="tns:MonthDayType"/>
</xs:complexType>

<xs:complexType name="UnderlyingSecuritiesType">
  <xs:sequence>
    <xs:element name="Security" type="tns:SecurityDetailsType" maxOccurs="unbounded"/>
  </xs:sequence>
</xs:complexType>

<xs:complexType name="SecurityDetailsType">
  <xs:attribute name="CUSIP9" type="tns:Cusip9Type"/>
  <xs:attribute name="MaturityDate" type="tns:ISODate"/>
  <xs:attribute name="SecurityDatedDate" type="tns:ISODate"/>
  <xs:attribute name="InitialOfferingPriceYield" type="xs:float"/>
  <xs:attribute name="InitialOfferingPrice" type="xs:float"/>
  <xs:attribute name="InitialOfferingYield" type="xs:float"/>
  <xs:attribute name="MaturityPrincipalAmount" type="xs:decimal"/>
  <xs:attribute name="InterestRate" type="xs:decimal"/>
  <xs:attribute name="SecurityStatus" type="tns:SecurityStatusType"/>
  <xs:attribute name="ParValueUnderwritten" type="xs:decimal"/>
  <xs:attribute name="OriginalCUSIP9OfRefundedSecurity" type="tns:Cusip9Type"/>
  <xs:attribute name="NewCUSIP9OfUnrefundedBalance" type="tns:Cusip9Type"/>
  <xs:attribute name="NewCUSIP9OfRefundedSecurity" type="tns:Cusip9Type"/>
</xs:complexType>
<xs:complexType name="RetailOrderPeriodsType">
  <xs:sequence>
    <xs:element minOccurs="1" maxOccurs="unbounded" name="Period" type="tns:RetailOrderPeriodDetailsType"/>
  </xs:sequence>
</xs:complexType>

<xs:complexType name="RetailOrderPeriodDetailsType">
  <xs:sequence>
    <xs:element minOccurs="1" maxOccurs="1" name="RetailOrderPeriodDateTimeBegin" type="tns:BasicDateTime"/>
    <xs:element minOccurs="1" maxOccurs="1" name="RetailOrderPeriodDateTimeEnd" type="tns:BasicDateTime"/>
  </xs:sequence>
</xs:complexType>

<xs:simpleType name="SecurityStatusType">
  <xs:restriction base="xs:string">
    <xs:enumeration value="Underwritten"/>
    <xs:enumeration value="PartiallyUnderwritten"/>
    <xs:enumeration value="NotUnderwritten"/>
    <xs:enumeration value="Remarketed"/>
    <xs:enumeration value="NotRemarketed"/>
  </xs:restriction>
</xs:simpleType>

<xs:simpleType name="IssueType">
  <xs:restriction base="xs:string">
    <xs:enumeration value="NewIssue"/>
    <xs:enumeration value="Remarketed"/>
    <xs:enumeration value="Refunded"/>
  </xs:restriction>
</xs:simpleType>

<xs:simpleType name="RetailOrderPeriodFlagType">
  <xs:restriction base="xs:string">
    <xs:enumeration value="Yes"/>
    <xs:enumeration value="No"/>
  </xs:restriction>
</xs:simpleType>

<xs:simpleType name="SecurityType">
  <xs:restriction base="xs:string">
    <xs:enumeration value="CUSIP9"/>
    <xs:enumeration value="CommercialPaper"/>
    <xs:enumeration value="nonCUSIP"/>
  </xs:restriction>
</xs:simpleType>

<xs:simpleType name="UnderwriterAssessmentExemptionIndicatorType">
  <xs:restriction base="xs:string">\n  </xs:restriction>
</xs:simpleType>
<xs:enumeration value="OfferingLessThan1Million"/>
<xs:enumeration value="EntireOfferingMatures9MonthsOrLess"/>
<xs:enumeration value="EntireOfferingPuttable9MonthsOrLess"/>
<xs:enumeration value="Rule15c212ExemptLimitedOffering"/>
</xs:restriction>
</xs:simpleType>
<xs:simpleType name="UnderwriterAssessmentDiscountIndicatorType">
    <xs:restriction base="xs:string">
        <xs:enumeration value="EntireOfferingPuttable2YearsOrLess"/>
        <xs:enumeration value="EntireOfferingMatures2YearsOrLess"/>
    </xs:restriction>
</xs:simpleType>
<xs:simpleType name="OfferingType">
    <xs:restriction base="xs:string">
        <xs:enumeration value="Bond"/>
    </xs:restriction>
</xs:simpleType>
<xs:simpleType name="OSAvailabilityStatusType">
    <xs:restriction base="xs:string">
        <xs:enumeration value="OSNotAvailableAtClosing"/>
        <xs:enumeration value="OSAvailableOnlyFromUnderwriter_15c212ExemptLimitedOffering"/>
        <xs:enumeration value="OSNotProduced_15c212ExemptLimitedOffering"/>
        <xs:enumeration value="OSNotProduced_15c212ExemptShortTermOffering"/>
        <xs:enumeration value="OSNotProduced_15c212ExemptPuttableOffering"/>
        <xs:enumeration value="OSNotProduced_15c212ExemptSmallOffering"/>
    </xs:restriction>
</xs:simpleType>
<xs:simpleType name="POSAvailabilityStatusType">
    <xs:restriction base="xs:string">
        <xs:enumeration value="POSSubmitted"/>
        <xs:enumeration value="NoPOSPrepared"/>
    </xs:restriction>
</xs:simpleType>
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    <xs:restriction base="xs:string">
        <xs:enumeration value="DisclosedInOfficialStatement"/>
        <xs:enumeration value="NotDisclosed_CompetitiveSale"/>
    </xs:restriction>
</xs:simpleType>
<xs:complexType name="UnderwriterDetailsType">
    <xs:attribute name="ManagingUnderwriterMSRBID" type="tns:Max15Text" />
</xs:complexType>
<xs:complexType name="OSAvailabilityContactInformationType">
    <xs:attribute name="OSContactOrganizationName" type="tns:Max140Text"/>
    <xs:attribute name="OSContactFirstName" type="tns:Max25Text"/>
</xs:complexType>
<xs:attribute name="OSContactLastName" type="tns:Max25Text"/>
<xs:attribute name="OSContactTitle" type="tns:Max140Text"/>
<xs:attribute name="OSContactPhoneNumber" type="tns:Max15Text"/>
<xs:attribute name="OSContactPhoneNumberExtension" type="tns:Max6Text"/>
<xs:attribute name="OSContactAddress" type="tns:Max140Text"/>
<xs:attribute name="OSContactCity" type="tns:Max25Text"/>
<xs:attribute name="OSContactState" type="tns:StateCode"/>
<xs:attribute name="OSContactZipCode" type="tns:Max15Text"/>
<xs:attribute name="OSContactEMailAddress" type="tns:Max50Text"/>
</xs:complexType>
<xs:simpleType name="IsSubjectToContinuingDisclosureAgreementType">
  <xs:restriction base="xs:string">
    <xs:enumeration value="Yes"/>
    <xs:enumeration value="No"/>
  </xs:restriction>
</xs:simpleType>
<xs:simpleType name="ScheduleTypes">
  <xs:restriction base="xs:string">
    <xs:enumeration value="CalendarYear"/>
    <xs:enumeration value="FiscalYearEnd"/>
  </xs:restriction>
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    <xs:enumeration value="Month"/>
  </xs:restriction>
</xs:simpleType>
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    <xs:enumeration value="10"/>
    <xs:enumeration value="11"/>
    <xs:enumeration value="12"/>
  </xs:restriction>
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<xs:restriction base="xs:string">
  <xs:enumeration value="Issuer"/>
  <xs:enumeration value="Other"/>
</xs:restriction>
</xs:simpleType>
<xs:element name="DisclosureResponseDetails" type="tns:DisclosureMessageResponseType"/>
<xs:complexType name="DisclosureMessageResponseType">
  <xs:sequence>
    <xs:element minOccurs="0" maxOccurs="1" name="Submission" type="tns:SubmissionStructureType"/>
    <xs:element minOccurs="0" maxOccurs="unbounded" name="Message" type="tns:MessageStructureType"/>
  </xs:sequence>
</xs:complexType>
<xs:complexType name="SubmissionStructureType">
  <xs:attribute name="SubmissionID" type="xs:string"/>
  <xs:attribute name="SubmissionState" type="tns:SubmissionProcessingStateType"/>
  <xs:attribute name="SubmissionStatus" type="tns:SubmissionProcessingStatusType"/>
</xs:complexType>
<xs:simpleType name="SubmissionProcessingStateType">
  <xs:restriction base="xs:string">
    <xs:enumeration value="Published"/>
    <xs:enumeration value="InWorkspace"/>
  </xs:restriction>
</xs:simpleType>
<xs:simpleType name="SubmissionProcessingStatusType">
  <xs:restriction base="xs:string">
    <xs:enumeration value="Added"/>
    <xs:enumeration value="Updated"/>
    <xs:enumeration value="Rejected"/>
    <xs:enumeration value="Deleted"/>
    <xs:enumeration value="Failure"/>
  </xs:restriction>
</xs:simpleType>
<xs:complexType name="MessageStructureType">
  <xs:attribute name="MessageReturnCode" type="tns:MessageReturnCodeType"/>
  <xs:attribute name="MessageContent" type="xs:string"/>
</xs:complexType>
<xs:simpleType name="MessageReturnCodeType">
  <xs:restriction base="xs:string">
    <xs:enumeration value="Error"/>
    <xs:enumeration value="Warning"/>
    <xs:enumeration value="Information"/>
  </xs:restriction>
</xs:simpleType>
<xs:complexType name="MessageReturnCodeType">
  <xs:restriction base="xs:string">
    <xs:enumeration value="Error"/>
    <xs:enumeration value="Warning"/>
    <xs:enumeration value="Information"/>
  </xs:restriction>
</xs:simpleType>
<xs:element name="FileContents" type="q1:StreamBody"/>
<xs:complexType name="DisclosureDocumentMessageType">
    <xs:sequence>
        <xs:element maxOccurs="1" name="Submission" type="tns:SubmissionDetailsType"/>
        <xs:element maxOccurs="1" name="Document" type="tns:DocumentDetailsType"/>
        <xs:element maxOccurs="1" name="Underwriter" type="tns:UnderwriterDetailsType"/>
    </xs:sequence>
</xs:complexType>

<xs:complexType name="DocumentDetailsType">
    <xs:sequence>
        <xs:element minOccurs="0" maxOccurs="unbounded" name="CUSIP9IdentifierOfRefundingIssue" nillable="true" type="tns:Cusip9Type"/>
        <xs:element minOccurs="0" maxOccurs="unbounded" name="OriginalCUSIP9OfRefundedSecurity" nillable="true" type="tns:Cusip9Type"/>
        <xs:element maxOccurs="1" name="UnderlyingFiles" type="tns:UnderlyingFilesType"/>
    </xs:sequence>
    <xs:attribute name="DocumentType" type="tns:DocumentType"/>
    <xs:attribute name="DocumentDescription" type="tns:Max75Text"/>
    <xs:attribute name="DocumentPostingOperationIndicator" type="tns:DocumentPostingOperationIndicatorType"/>
</xs:complexType>

<xs:complexType name="UnderlyingFilesType">
    <xs:sequence>
        <xs:element maxOccurs="1" name="File" type="tns:FileDetailsType"/>
    </xs:sequence>
</xs:complexType>

<xs:complexType name="FileDetailsType">
    <xs:attribute name="FileOrder" type="xs:integer"/>
    <xs:attribute name="DateReceivedFromIssuer" type="tns:ISODate"/>
</xs:complexType>

<xs:simpleType name="DocumentType">
    <xs:restriction base="xs:string">
        <xs:enumeration value="OfficialStatement"/>
        <xs:enumeration value="PreliminaryOfficialStatement"/>
        <xs:enumeration value="AdvanceRefundingDocument"/>
        <xs:enumeration value="RemarketingSupplement"/>
    </xs:restriction>
</xs:simpleType>

<xs:simpleType name="DocumentPostingOperationIndicatorType">
    <xs:restriction base="xs:string">
        <xs:enumeration value="AppendToPostedDocument"/>
        <xs:enumeration value="ReplacePostedDocument"/>
    </xs:restriction>
</xs:simpleType>

<xs:simpleType name="Cusip6Type"/>
<xs:restriction base="xs:string">
  <xs:minLength value="6"/>
  <xs:maxLength value="6"/>
</xs:restriction>
</xs:simpleType>
<xs:simpleType name="Cusip9Type">
  <xs:restriction base="xs:string">
    <xs:minLength value="9"/>
    <xs:maxLength value="9"/>
  </xs:restriction>
</xs:simpleType>
<xs:simpleType name="StateCode">
  <xs:restriction base="xs:string">
    <xs:pattern value="[A-Z][2,2]"/>
  </xs:restriction>
</xs:simpleType>
<xs:simpleType name="Max140Text">
  <xs:restriction base="xs:string">
    <xs:minLength value="1"/>
    <xs:maxLength value="140"/>
  </xs:restriction>
</xs:simpleType>
<xs:simpleType name="Max75Text">
  <xs:restriction base="xs:string">
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    <xs:maxLength value="75"/>
  </xs:restriction>
</xs:simpleType>
<xs:simpleType name="Max50Text">
  <xs:restriction base="xs:string">
    <xs:minLength value="1"/>
    <xs:maxLength value="50"/>
  </xs:restriction>
</xs:simpleType>
<xs:simpleType name="Max25Text">
  <xs:restriction base="xs:string">
    <xs:minLength value="1"/>
    <xs:maxLength value="25"/>
  </xs:restriction>
</xs:simpleType>
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  <xs:restriction base="xs:string">
    <xs:minLength value="1"/>
    <xs:maxLength value="250"/>
  </xs:restriction>
</xs:simpleType>
<xs:complexType name="BasicDateTime">
  <xs:sequence>
    <xs:annotation>
      <xs:documentation>Dates will be in EST. Date and Time fields have been broken up into components so that Timezone is not used.</xs:documentation>
    </xs:annotation>
    <xs:element name="Date" type="tns:BasicDate" />
    <xs:element name="Time" type="tns:BasicTime" />
  </xs:sequence>
</xs:complexType>

<xs:complexType name="G32IssuesType">
  <xs:sequence>
    <xs:element minOccurs="0" maxOccurs="unbounded" name="OriginalCUSIP9OfRemarketedSecurity" nillable="true" type="tns:Cusip9Type" />
    <xs:element minOccurs="0" maxOccurs="1" name="FormalAwardDateTime" type="tns:BasicDateTime" />
    <xs:element minOccurs="0" maxOccurs="1" name="FirstTradeExecutionDateTime" type="tns:BasicDateTime" />
    <xs:element minOccurs="0" maxOccurs="1" name="UnderlyingSecurities" type="tns:G32UnderlyingSecuritiesType" />
    <xs:element minOccurs="0" maxOccurs="1" name="ObligatedPersonsForContinuingDisclosureFiling" type="tns:ObligatedPersonsForContinuingDisclosureFilingType" />
    <xs:element minOccurs="0" maxOccurs="1" name="ObligatedPersons" type="tns:ObligorsType" />
    <xs:element minOccurs="0" maxOccurs="1" name="CreditEnhancements" type="tns:CreditEnhancementsType" />
    <xs:element minOccurs="0" maxOccurs="unbounded" name="SyndicateManager" type="tns:Max250Text" />
    <xs:element minOccurs="0" maxOccurs="unbounded" name="MunicipalAdvisor" type="tns:Max250Text" />
    <xs:element minOccurs="0" maxOccurs="unbounded" name="AdvancedRefundingSecurity" nillable="true" type="tns:RefundedSecurityType" />
  </xs:sequence>
  <xs:attribute name="IssueType" type="tns:IssueType" />
  <xs:attribute name="SecurityType" type="tns:SecurityType" />
  <xs:attribute name="IssueDescription" type="tns:Max250Text" />
  <xs:attribute name="IssuerName" type="tns:Max250Text" />
  <xs:attribute name="IssuerState" type="tns:StateCode" />
  <xs:attribute name="IssueClosingDate" type="tns:ISODate" />
  <xs:attribute name="IssueDatedDate" type="tns:ISODate" />
  <xs:attribute name="OriginalDatedDate" type="tns:ISODate" />
  <xs:attribute name="CUSIP6" type="tns:Cusip6Type" />
  <xs:attribute name="IsSubjectToContinuingDisclosureAgreement" type="tns:BooleanString" />
  <xs:attribute name="NewMoneyFlag" type="tns:BooleanString" />
  <xs:attribute name="RestrictionOnNewIssueFlag" type="tns:BooleanString" />
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<xs:attribute name="CertificateType" type="tns:CertificateType"/>
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<xs:attribute name="FirstPaymentDate" type="tns:ISODate"/>
<xs:attribute name="AdvancedRefundingMethod" type="tns:AdvancedRefundingMethod"/>
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<xs:attribute name="StepUpFlag" type="tns:BooleanString"/>
<xs:attribute name="PACBondFlag" type="tns:BooleanString"/>
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<xs:attribute name="InterestType" type="tns:InterestType"/>
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<xs:enumeration value="CHOP"/>
<xs:enumeration value="CHMO"/>
<xs:enumeration value="NONE"/>
</xs:restriction>
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    <xs:enumeration value="CALD"/>
  </xs:restriction>
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<xs:simpleType name="CallScheduleType">
  <xs:restriction base="xs:string">
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    <xs:enumeration value="CCWN"/>
    <xs:enumeration value="DCWN"/>
    <xs:enumeration value="NONE"/>
  </xs:restriction>
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    <xs:enumeration value="LOTR"/>
    <xs:enumeration value="PROR"/>
  </xs:restriction>
</xs:simpleType>
<xs:simpleType name="VariableInterestIndexDateType">
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    <xs:enumeration value="ASTD"/>
    <xs:enumeration value="ASED"/>
  </xs:restriction>
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    <xs:enumeration value="INDX"/>
    <xs:enumeration value="DLST"/>
    <xs:enumeration value="OTHE"/>
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    <xs:enumeration value="FEDD"/>
    <xs:enumeration value="BMAA"/>
    <xs:enumeration value="LIBR"/>
    <xs:enumeration value="OTHE"/>
  </xs:restriction>
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    <xs:enumeration value="YEAR"/>
    <xs:enumeration value="HAYR"/>
    <xs:enumeration value="QUAT"/>
    <xs:enumeration value="MTHS"/>
    <xs:enumeration value="FORT"/>
    <xs:enumeration value="WEEK"/>
    <xs:enumeration value="DAYS"/>
  </xs:restriction>
</xs:simpleType>

<xs:simpleType name="InterestMethod">
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    <xs:enumeration value="SINT"/>
    <xs:enumeration value="CMDL"/>
    <xs:enumeration value="CMML"/>
    <xs:enumeration value="CMQL"/>
    <xs:enumeration value="CMHL"/>
    <xs:enumeration value="CMYL"/>
  </xs:restriction>
</xs:simpleType>

<xs:simpleType name="InterestType">
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    <xs:enumeration value="VARB"/>
  </xs:restriction>
</xs:simpleType>

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  <xs:restriction base="xs:string">
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    <xs:enumeration value="ATMA"/>
    <xs:enumeration value="DISC"/>
    <xs:enumeration value="NONE"/>
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<xs:restriction base="xs:string">
  <xs:enumeration value="ADVR"/>
  <xs:enumeration value="CRSR"/>
  <xs:enumeration value="FCGR"/>
  <xs:enumeration value="NCHR"/>
  <xs:enumeration value="SYNR"/>
  <xs:enumeration value="CRNR"/>
  <xs:enumeration value="DEFN"/>
</xs:restriction>
</xs:simpleType>

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    <xs:enumeration value="RV"/>
    <xs:enumeration value="GO"/>
    <xs:enumeration value="DB"/>
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</xs:simpleType>

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    <xs:enumeration value="COMP"/>
    <xs:enumeration value="NEGO"/>
  </xs:restriction>
</xs:simpleType>

<xs:simpleType name="CertificateType">
  <xs:restriction base="xs:string">
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    <xs:enumeration value="REGC"/>
    <xs:enumeration value="BERR"/>
    <xs:enumeration value="INCH"/>
  </xs:restriction>
</xs:simpleType>

<xs:simpleType name="DistributionType">
  <xs:restriction base="xs:string">
    <xs:enumeration value="PRIM"/>
    <xs:enumeration value="OTHER"/>
  </xs:restriction>
</xs:simpleType>

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    <xs:element name="Organization" type="tns:LegalEntity" minOccurs="0" maxOccurs="unbounded"/>
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</xs:complexType>

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  <xs:attribute name="Name" type="tns:Max250Text"/>
</xs:complexType>
<xs:complexType>
  <xs:sequence>
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</xs:complexType>

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  <xs:sequence>
    <xs:element name="Security" type="tns:G32SecurityDetailsType" maxOccurs="unbounded"/>
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</xs:complexType>

<xs:complexType name="CreditEnhancementsType">
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    <xs:element name="CreditEnhancementDetails" type="tns:CreditEnhancement" minOccurs="0" maxOccurs="unbounded"/>
  </xs:sequence>
</xs:complexType>

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  </xs:sequence>
  <xs:attribute name="CUSIP9" type="tns:Cusip9Type"/>
  <xs:attribute name="CreditEnhancementType" type="tns:CreditEnhancementType"/>
  <xs:attribute name="ExpirationDate" type="tns:ISODate"/>
</xs:complexType>

<xs:complexType name="G32SecurityDetailsType">
  <xs:sequence>
    <xs:element minOccurs="0" maxOccurs="1" name="RetailOrderPeriods" type="tns:RetailOrderPeriodsType"/>
    <xs:element minOccurs="0" maxOccurs="1" name="PremiumCalls" type="tns:CallSchedules"/>
    <xs:element minOccurs="0" maxOccurs="1" name="ParCalls" type="tns:CallSchedules"/>
  </xs:sequence>
  <xs:attribute name="CUSIP9" type="tns:Cusip9Type"/>
  <xs:attribute name="MaturityDate" type="tns:ISODate"/>
  <xs:attribute name="SecurityDatedDate" type="tns:ISODate"/>
  <xs:attribute name="InitialOfferingPriceYield" type="tns:FloatType"/>
  <xs:attribute name="InitialOfferingPrice" type="tns:FloatType"/>
  <xs:attribute name="InitialOfferingYield" type="tns:FloatType"/>
  <xs:attribute name="MaturityPrincipalAmount" type="xs:decimal"/>
  <xs:attribute name="Coupon" type="tns:DecimalType"/>
  <xs:attribute name="SecurityStatus" type="tns:SecurityStatusType"/>
  <xs:attribute name="PrincipalValueUnderwritten" type="xs:decimal"/>
  <xs:attribute name="OriginalCUSIP9OfRefundedSecurity" type="tns:Cusip9Type"/>
  <xs:attribute name="NewCUSIP9OfUnrefundedBalance" type="tns:Cusip9Type"/>
  <xs:attribute name="NewCUSIP9OfRefundedSecurity" type="tns:Cusip9Type"/>
  <xs:attribute name="SerialTermIndicator" type="tns:SerialTermIndicator"/>
  <xs:attribute name="RetailOrderPeriodFlag" type="tns:BooleanString"/>
  <xs:attribute name="CallableFlag" type="tns:BooleanString"/>
  <xs:attribute name="SinkingFundFlag" type="tns:BooleanString"/>
  <xs:attribute name="SuperSinkerFlag" type="tns:BooleanString"/>
</xs:complexType>
<xs:attribute name="PutableFlag" type="tns:BooleanString"/>
<xs:attribute name="PutableStartDate" type="tns:ISODate"/>
<xs:attribute name="PutableEndDate" type="tns:ISODate"/>
<xs:attribute name="CAV" type="tns:BooleanString"/>
<xs:attribute name="OriginalIssueDiscountPrice" type="tns:FloatType"/>
<xs:attribute name="OriginalIssueDiscountYield" type="tns:FloatType"/>
<xs:attribute name="NiidsSecurityStatus" type="tns:NiidsSecurityStatusType"/>
<xs:attribute name="CapitalAppreciationFlag" type="tns:BooleanString"/>
<xs:attribute name="ExtraOrdinaryCallFlag" type="tns:BooleanString"/>
<xs:attribute name="MakeWholeCallFlag" type="tns:BooleanString"/>
<xs:attribute name="ZeroCouponFlag" type="tns:BooleanString"/>
</xs:complexType>
<xs:simpleType name="SerialTermIndicator">
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    <xs:enumeration value="SERL"/>
    <xs:enumeration value="TERM"/>
  </xs:restriction>
</xs:simpleType>
<xs:simpleType name="BooleanString">
  <xs:restriction base="xs:string">
    <xs:enumeration value="Yes"/>
    <xs:enumeration value="No"/>
  </xs:restriction>
</xs:simpleType>
<xs:complexType name="CallSchedules">
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    <xs:element name="Call" type="tns:CallSchedule" minOccurs="0" maxOccurs="unbounded"/>
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</xs:complexType>
<xs:complexType name="CallSchedule">
  <xs:attribute name="Date" type="tns:ISODate"/>
  <xs:attribute name="Price" type="xs:float"/>
</xs:complexType>
<xs:simpleType name="DecimalType">
  <xs:restriction base="xs:decimal">
    <xs:pattern value="^[0-9]{1,3}(?:\.[0-9]{1,3})?$"/>
  </xs:restriction>
</xs:simpleType>
<xs:simpleType name="FloatType">
  <xs:restriction base="xs:float">
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  </xs:restriction>
</xs:simpleType>
<xs:simpleType name="CreditEnhancementType">
  <xs:restriction base="xs:string">
  </xs:restriction>
</xs:simpleType>
<xs:enumeration value="LOCR" />
<xs:enumeration value="INSU" />
<xs:enumeration value="OTHE" />
</xs:restriction>
</xs:simpleType>
<xs:complexType name="RefundedSecurityType">
  <xs:attribute name="CUSIP9" type="xs:string"/>
  <xs:attribute name="RefundedAmount" type="xs:decimal"/>
</xs:complexType>
</xs:schema>

Sample XML Header Trace Files

Document Message – Sample Header File

  <s:Header>
       xmlns="http://emma.msrb.org/schemas/disclosureservice"
       xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
       xmlns:xsd="http://www.w3.org/2001/XMLSchema">
      <Submission SubmissionType="PrimaryMarketDisclosure"
      xmlns="http://emma.msrb.org/schemas/disclosuremessages/types">
        <SubmissionIdentifier>EA1292</SubmissionIdentifier>
        </Submission>
        <Document DocumentType="AdvancedRefundingDocument"
        DocumentPostingOperationIndicator="AppendToPostedDocument"
        DocumentDisclosureCompletionIndicator="Complete"
        xmlns="http://emma.msrb.org/schemas/disclosuremessages/types">
          <UnderlyingFiles>
            <DateReceivedFromIssuer="2008-08-02"></File>
            </UnderlyingFiles>
        </Document>
      </Submission>
    </h:DisclosureDocumentMessageDetails>
  </s:Header>
</s:Envelope>
Specifications for the EMMA Primary Market Submission Service

Sample (G-32 with Niids)

Data Message – Sample Header + Message Trace File

  <Header>
    <Security s:mustUnderstand="1" xmlns:o="http://docs.oasis-open.org/wss/2004/01/oasis-200401-wss-wssecurity-secext-1.0.xsd">
      <o:UsernameToken u:Id="uuid-c3e563e4-bd51-40f7-8c02-3ed0b5a4a1bb-35"><o:Username/>
      <o:Password/></o:UsernameToken>
    </Security>
  </Header>
    <DisclosureDataMessageType>
      <Submission SubmissionType="PrimaryMarketDisclosure" SubmissionStatus="Publish" xmlns="http://emma.msrb.org/schemas/disclosuremessages/types">
        <DisclosureDocumentMessageDetails>
          <h:DisclosureDocumentMessageDetails>
            <o:Security s:mustUnderstand="1" xmlns:o="http://docs.oasis-open.org/wss/2004/01/oasis-200401-wss-wssecurity-secext-1.0.xsd">
              <o:UsernameToken u:Id="uuid-c3e563e4-bd51-40f7-8c02-3ed0b5a4a1bb-35"><o:Username/>
              <o:Password/></o:UsernameToken>
            </Security>
          </h:DisclosureDocumentMessageDetails>
        </DisclosureDocumentMessageDetails>
      </Submission>
    </DisclosureDataMessageType>
  </Body>
</Envelope>
Specifications for the EMMA Primary Market Submission Service

<SubmissionIdentifier>Q3493287</SubmissionIdentifier>
</Submission>

<Offering OfferingType="Bond"
UnderwritingSpreadDisclosureIndicator="DisclosedInOfficialStatement"
UnderwritingSpread = "100"
xmlns="http://emma.msrb.org/schemas/disclosuremessages/types">

<G32Issue
AdvancedRefundingFlag = "Yes"
IsSubjectToContinuingDisclosureAgreement="Yes"
IssueType="NewIssue"
SecurityType="CUSIP9"
IssuerName="NEEDLES CALIF PUB FING AUTH"
IssueDescription="TAX ALLOC REV REDEV PROJ SER A"
OriginalDatedDate="2003-04-10"
IssueClosingDate="2020-12-21"
NewMoneyFlag = "Yes"
RestrictionOnNewIssueFlag = "No"
DistributionType = "PRIM"
CertificateType = "BERR"
SaleMethod = "COMP"
MinimumDenomination = "143.987"
MultipleDenomination = "659.097"
ChangeInOriginalMinimumDenominationAllowedFlag = "No"
TotalParValue = "100000.98"
SeriesId = "AAAA"
RepaymentSource = "GO"
FirstPaymentDate = "2003-11-12"
AdvancedRefundingMethod = "NCHR"
CreditEnhancementApplicableFlag = "Yes"
StepUpFlag = "Yes"
PACBondFlag = "No"
InterestClassification = "ATMA"
InterestCalculationMethod = "3036"
InterestType = "VARB"
InterestMethod = "CMQL"
PaymentFrequencyType = "QUAT"
PaymentFrequencyNumber = "189.99"
VariableInterestBasis = "INDX"
VariableInterestIndexSpread = "14.768"
VariableInterestIndexDateType = "DALY"
FederalTaxableFlag = "Yes"
StateTaxableFlag = "Yes"
BankQualifiedFlag = "No"
FederalAlternativeMinimumTaxFlag = "No"
StateAlternativeMinimumTaxFlag = "Yes"
RedemptionFrequencyType = "MTHS"
RedemptionFrequencyNumber = "12.99"
CallType = "LOTR"
CallScheduleType = "DCWN"
DaysToCallNotice = "45"
CallNotificationWindow = "CALD"
PutType = "BOTH"
PutFrequencyNumber = "100.00"
PutFrequencyType = "WEEK"
VariableInterestIndexName = "FEDD"
NIIDSEligibleFlag = "Yes"

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   <Date>2014-12-14</Date>
   <Time>13:58</Time>
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<FirstTradeExecutionDateTime>
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   <Time>13:00</Time>
</FirstTradeExecutionDateTime>

<UnderlyingSecurities>
   <Security CUSIP9="999999AA9"
      MaturityPrincipalAmount="2500000"
      SecurityStatus="PartiallyUnderwritten"
      PrincipalValueUnderwritten="100"
      InitialOfferingPrice="102.026"
      InitialOfferingYield="1.37"
      RetailOrderPeriodFlag="No"
      SerialTermIndicator = "SERL"
      SinkingFundFlag = "No"
      SuperSinkerFlag = "No"
      CallableFlag = "Yes"
      PutableStartDate = "2014-02-01"
      PutableEndDate = "2014-02-15"
      CAV = "Yes"
      OriginalIssueDiscountPrice = "103.56"
      OriginalIssueDiscountYield = "3.01"
      PutableFlag = "Yes"
      NiidsSecurityStatus="ACTV"
      Coupon = "300.253"
<PremiumCalls>
    <Call Date="2014-02-15" Price="10.67"></Call>
    <Call Date="2014-02-13" Price="9.99"></Call>
</PremiumCalls>

<ParCalls>
    <Call Date="2014-02-15"></Call>
    <Call Date="2014-02-13"></Call>
</ParCalls>

<Security CUSIP9="99999BBB9"
    SerialTermIndicator = "SERL"
    MaturityPrincipalAmount="1000000"
    PrincipalValueUnderwritten = "1000000"
    SecurityStatus="Underwritten"
    InitialOfferingPrice="105.824"
    InitialOfferingYield="1.66"
    RetailOrderPeriodFlag="Yes"
    CallableFlag="Yes"
    SinkingFundFlag="Yes"
    SuperSinkerFlag="Yes"
    PutableFlag = "Yes"
    NiidsSecurityStatus="ACTV"
    PutableStartDate="2020-12-21"
    PutableEndDate="2021-01-03"
    OriginalIssueDiscountPrice = "59.78"
    OriginalIssueDiscountYield = "3.05"
    CapitalAppreciationFlag = "Yes"
    ZeroCouponFlag = "No"
    ExtraOrdinaryCallFlag = "Yes"
    MakeWholeCallFlag = "Yes"
    Coupon = "4.25"
>
    <RetailOrderPeriods>
        <Period>
            <RetailOrderPeriodDateTimeBegin> <Date>2014-02-01</Date> <Time>08:00</Time> 
            <RetailOrderPeriodDateTimeBegin>
                <RetailOrderPeriodDateTimeEnd>
                    <Date>2014-02-15</Date> <Time>17:00</Time>
                </RetailOrderPeriodDateTimeEnd>
            </RetailOrderPeriodDateTimeBegin>
        </Period>
    </RetailOrderPeriods>
<RetailOrderPeriodDateTimeBegin> <Date>2016-02-01</Date> <Time>06:00</Time> </RetailOrderPeriodDateTimeBegin>  
<RetailOrderPeriodDateTimeEnd> 
<Date>2016-02-15</Date> <Time>19:00</Time> </RetailOrderPeriodDateTimeEnd>  
</Period>  
</Period>  
</RetailOrderPeriods>  
<PremiumCalls>  
<Call Date="2014-02-15" Price="10.67"></Call>  
<Call Date="2014-02-13" Price="9.99"></Call>  
</PremiumCalls>  
</ParCalls>  
</Security>  
<Security CUSIP9="999999CC9" SerialTermIndicator = "SERL"  
MaturityPrincipalAmount="1110000" PrincipalValueUnderwritten ="1110000"  
SecurityStatus="Underwritten"  
InitialOfferingPrice="108.714" InitialOfferingYield="1.77"  
RetailOrderPeriodFlag="No" Coupon = "3.25" />

<Security CUSIP9="999999DD9" SerialTermIndicator = "SERL"  
MaturityPrincipalAmount="1300000" SecurityStatus="Underwritten"  
PrincipalValueUnderwritten ="1300000"  
InitialOfferingPrice="117.744"/>
Specifications for the EMMA Primary Market Submission Service

InitialOfferingYield="2.17"
RetailOrderPeriodFlag="No"
Coupon = "3.25"
<br/>
<Security CUSIP9="999999EE9"
SerialTermIndicator = "SERL"
MaturityPrincipalAmount="2000000"
SecurityStatus="Underwritten"
PrincipalValueUnderwritten ="2000000"
InitialOfferingPrice="119.282"
InitialOfferingYield="2.28"
RetailOrderPeriodFlag="Yes"
CapitalAppreciationFlag = "No"
ExtraOrdinaryCallFlag = "Yes"
MakeWholeCallFlag = "Yes"
Coupon = "0.00"
ZeroCouponFlag = "Yes">

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</RetailOrderPeriodDateTimeBegin>
</Period>
</RetailOrderPeriods>
</Security>

<Security CUSIP9="999999FF9"
SerialTermIndicator = "SERL"
MaturityPrincipalAmount="2000000"
SecurityStatus="Underwritten"
PrincipalValueUnderwritten ="2000000"
InitialOfferingPrice="119.282"
InitialOfferingYield="2.28"
RetailOrderPeriodFlag="Yes"
CapitalAppreciationFlag = "No"
ExtraOrdinaryCallFlag = "Yes"
MakeWholeCallFlag = "Yes"
Coupon = "0.00"
ZeroCouponFlag = "Yes">

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</Period>
</RetailOrderPeriods>
</Security>

PRICE="10.67"</Call>
PRICE="9.99"</Call>
</PremiumCalls>
</ParCalls>
</Security>
<Security CUSIP9="999999FF9"
SerialTermIndicator = "SERL"
Specifications for the EMMA Primary Market Submission Service

MaturityPrincipalAmount="3300000"
PrincipalValueUnderwritten="3300000"
SecurityStatus="Underwritten"
InitialOfferingPrice="120.728"
InitialOfferingYield="2.37"
RetailOrderPeriodFlag="No"
Coupon="/3.25"

/ObligatedPersons>

/ObligatedPersons>

/ObligatedPersons>

/CreditEnhancements>

ExpirationDate="2020-12-21">

/CreditEnhancements>

ExpirationDate="2020-12-21">

/Organization>

/CreditEnhancements>

ExpirationDate="2020-11-11">

/Organization>

/CreditEnhancements>

ExpirationDate="2020-11-11">

/Organization>
Specifications for the EMMA Primary Market Submission Service

</CreditEnhancementDetails>
</CreditEnhancements>

<SyndicateManager>ABC Investments, Ltd.</SyndicateManager>
<SyndicateManager>DEALER-ORG-01</SyndicateManager>
<SyndicateManager>abcd co</SyndicateManager>
<MunicipalAdvisor>Wulff, Hansen &amp; Company</MunicipalAdvisor>
<MunicipalAdvisor>Amuni Financial Inc.</MunicipalAdvisor>
<MunicipalAdvisor>Advanced Municipal Planners LLC</MunicipalAdvisor>

<AdvancedRefundingSecurity CUSIP9="999999AJ7" RefundedAmount="100000.00"></AdvancedRefundingSecurity>
<AdvancedRefundingSecurity CUSIP9="999999AK7" RefundedAmount="200000"></AdvancedRefundingSecurity>
<AdvancedRefundingSecurity CUSIP9="999999AL7" RefundedAmount="300000"></AdvancedRefundingSecurity>
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</G32Issue>

</Offering>
<Underwriter ManagingUnderwriterMSRBID="A9601" xmlns="http://emma.msrb.org/schemas/disclosuremessages/types"/>

<OSAvailabilityContactInformation OSContactOrganizationName="MiniBond Dealer"
OSContactFirstName="Emma"
OSContactLastName="Jones"
OSContactTitle="Senior Vice President"
OSContactPhoneNumber="703-555-2222"
OSContactPhoneNumberExtension="1235"
OSContactAddress="123 Security Road"
OSContactCity="Alexandria"
OSContactState="VA"
OSContactZipCode="22301-5555"/>
OSContactEmailAddress="ejones@minubonddealer.com"

xmlns="http://emma.msrb.org/schemas/disclosedmessages/types"/>

</DisclosureDataMessageType>

</s:Body>

</s:Envelope>

END SAMPLE Header + Message Trace File
MESSAGE VALIDATION

Validation Response Trace

As submission messages are processed by EMMA, the message content will be verified relative to business rules of expected data relationships by submission type. Exception response messages will be returned to the submitter system when certain types of conditions exist with respect to the data submitted. Response messages are classified as Error, Warning and Info depending on the nature and severity of the exception as follows:

1. Error - message indicates termination of message processing with failure of the intended action. The submitter should take appropriate corrective action and re-submit as appropriate.
2. Warning - message indicates a potential problem that deserves attention and correction as appropriate; however, the requested action is fulfilled.
3. Information – message indicates certain action taken by EMMA that does not materially affect completeness of the submission but of which the submitter should be aware.

An abstract representation of a Response Message, shown below, will be returned to the Submitter System with the Response Message Content, defined in the table below, contained in the body of the message.

Response Message
(SOAP Envelope)
(Body)
SubmissionID
SubmissionStatus (Accepted, Rejected, Updated, Added)
MessageReturnCode (Error, Warning, Information)
MessageContent [Data Tag, Description]

WebServices Protocol Support
Below is a sample Response Message trace where a submission event has been confirmed as added successfully. This sample is intended to show the general structure of response messages.

**Response Message – Sample Trace File**

```xml
<s:Envelope xmlns:s="http://schemas.xmlsoap.org/soap/envelope/">
  <s:Header>
  </s:Header>
    <DisclosureMessageResponse xmlns="http://emma.msrb.org/schemas/disclosuremessages">
      <DisclosureResponseDetails xmlns="http://emma.msrb.org/schemas/disclosureservice">
        <Submission SubmissionID="EA1734" SubmissionStatus="Added" xmlns="http://emma.msrb.org/schemas/disclosuremessages/types">
        </Submission>
        </Message>
      </DisclosureResponseDetails>
    </DisclosureMessageResponse>
  </s:Body>
</s:Envelope>
```
## MESSAGE ERROR RESPONSES

### Table 3: Data Message Error/Warning Messages

<table>
<thead>
<tr>
<th>XML Block</th>
<th>Data Tag</th>
<th>Message Return Code</th>
<th>Response Message Content</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Submission</strong></td>
<td>Submission Type</td>
<td>Error</td>
<td>Required Field - Submission Type is a required field.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Error</td>
<td>Data Validation – The referenced submission is of Submission Type (Primary Market Disclosure) and cannot be changed.</td>
</tr>
<tr>
<td></td>
<td>Submission Status</td>
<td>Error</td>
<td>Required Field - Submission Status is required field.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Error</td>
<td>Data Validation – The referenced submission is of status (Cancelled) and cannot be updated.</td>
</tr>
<tr>
<td></td>
<td>Submission Identifier</td>
<td>Error</td>
<td>Failure to Identify Submission - failed to identify a submission with the given Submission Identifier (ID).</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Error</td>
<td>Data Validation – the OPEN submission operation being requested includes an underwritten CUSIP9 that already exists on a Published submission by this underwriter. Please submit a message to UPDATE the existing Published submission by including a Submission Identifier or a Submission Underwritten CUSIP9 Identifier reference.</td>
</tr>
<tr>
<td></td>
<td>Information</td>
<td></td>
<td>Unnecessary Data Element - Submission Identifier should not be provided on an OPEN submission operation and will be ignored.</td>
</tr>
<tr>
<td></td>
<td>Submission Underwritten CUSIP9 Identifier</td>
<td>Error</td>
<td>Failure to Identify Submission - failed to identify a submission with the given Underwritten CUSIP9.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Error</td>
<td>Data Validation - Submission Underwritten CUSIP9 Identifier: 123AB is not recognized as a well-formed CUSIP9. Please confirm the value and re-submit as appropriate.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Information</td>
<td>Unnecessary Data Element - Submission Underwritten CUSIP9 Identifier should not be provided on an OPEN submission operation and will be ignored.</td>
</tr>
<tr>
<td><strong>Offering</strong></td>
<td>Offering Type</td>
<td>Error</td>
<td>Required Field - Offering Type is a required field.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Warning</td>
<td>Data Validation – Offering Type (Bond) must be included in each submission message.</td>
</tr>
<tr>
<td></td>
<td>CUSIP9 Of Latest Maturity On Issue Not Underwritten</td>
<td>Warning</td>
<td>Data Validation - CUSIP9 of Latest Maturity Date on Issue not Underwritten: 123456AB7 is not recognized as a well-formed CUSIP9.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Warning</td>
<td>Data Validation - The CUSIP9 of Latest Maturity on Issue Not Underwritten has not been reported by the CUSIP Service Bureau. Please confirm the value and re-submit as appropriate.</td>
</tr>
<tr>
<td></td>
<td>Underwriting Spread Disclosure Indicator</td>
<td>Warning</td>
<td>Required Field – Underwriting Spread Disclosure Indicator is required if underwriting spread is not being reported.</td>
</tr>
<tr>
<td></td>
<td>Underwriting Spread</td>
<td>Warning</td>
<td>Required Field – Underwriting Spread is required if Underwriting Spread Disclosure Indicator is not reported.</td>
</tr>
<tr>
<td></td>
<td>OS Availability Status</td>
<td>Warning</td>
<td>Data Conflict - Submission asserts Official Statement not produced for offering of less than $1,000,000 and not subject to SEC Rule 15c2-12; but total maturity principal of issues in offering is greater than $1,000,000.</td>
</tr>
</tbody>
</table>
### XML Submission Validation - Response Messages

#### Primary Market (Data Message)

<table>
<thead>
<tr>
<th>XML Block</th>
<th>Data Tag</th>
<th>Message Return Code</th>
<th>Response Message Content</th>
</tr>
</thead>
<tbody>
<tr>
<td>Offering</td>
<td>POS Availability Status</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>IssuerName</td>
<td>Error</td>
<td>Required Field - Issuer Name must be provided for issues being underwritten. Missing on Issue.</td>
<td></td>
</tr>
<tr>
<td>IssueDescription</td>
<td>Error</td>
<td>Required Field - Issue Description must be provided for issues being underwritten. Missing on Issue.</td>
<td></td>
</tr>
<tr>
<td>SecurityType</td>
<td>Error</td>
<td>Data Validation - Issues with different Security Types are not allowed in a submission. Data Validation - More than one Issues are not allowed where Security Type is (Commercial Paper or non-CUSIP). Required Field - Security Type is a required field. Missing on Issue (Issue Description). Required Field - The CUSIP6 assigned to the commercial paper issue must be provided where Security Type is (Commercial Paper). Missing on Issue (Issue Description)</td>
<td></td>
</tr>
<tr>
<td>IssueType</td>
<td>Error</td>
<td>Required Field - Issue Type is a required field. Missing on Issue (Issue Description). Data Validation – If Submission Type (Primary Market Disclosure), the declared Issue Type must be (New Issue or Remarked).</td>
<td></td>
</tr>
<tr>
<td>IssueClosingDate</td>
<td>Error</td>
<td>Required Field - Issue Closing Date must be provided for issues being underwritten. Missing on Issue (Issue Description).</td>
<td></td>
</tr>
<tr>
<td>OriginalDatedDate</td>
<td>Error</td>
<td>Required Field - Issue Original Dated Date must be provided for issues being underwritten. Missing on Issue (Issue Description).</td>
<td></td>
</tr>
<tr>
<td>NIIDSEligibleFlag</td>
<td>Error</td>
<td>Required Field - NIIDSEligibleFlag must be provided for issues being underwritten. Missing on Issue (IssueDescription).</td>
<td></td>
</tr>
<tr>
<td>RestrictionOnNewIssue</td>
<td>Error</td>
<td>Required Field - RestrictionOnNewIssueFlag must be provided for issues being underwritten. Missing on (IssueDescription).</td>
<td></td>
</tr>
<tr>
<td>NewMoneyFlag</td>
<td>Error</td>
<td>Required Field - NewMoneyFlag must be provided for issues being underwritten. Missing on Issue (IssueDescription).</td>
<td></td>
</tr>
<tr>
<td>DistributionType</td>
<td>Error</td>
<td>Required Field - DistributionType must be provided for issues being underwritten. Missing on Issue (IssueDescription).</td>
<td></td>
</tr>
<tr>
<td>DistributionTypeOtherText</td>
<td>Error</td>
<td>Required Field - DistributionTypeOtherText must be provided for issues being underwritten. Missing on Issue (IssueDescription).</td>
<td></td>
</tr>
<tr>
<td>SaleMethod</td>
<td>Error</td>
<td>Required Field - SaleMethod must be provided for issues being underwritten. Missing on Issue (IssueDescription).</td>
<td></td>
</tr>
<tr>
<td>RepaymentSource</td>
<td>Error</td>
<td>Required Field - RepaymentSource must be provided for issues being underwritten. Missing on Issue (IssueDescription).</td>
<td></td>
</tr>
<tr>
<td>MultipleDenomination</td>
<td>Error</td>
<td>Required Field - MultipleDenomination must be provided for issues being underwritten. Missing on Issue (IssueDescription).</td>
<td></td>
</tr>
<tr>
<td>MinimumDenomination</td>
<td>Error</td>
<td>Required Field - MinimumDenomination must be provided for issues being underwritten. Missing on Issue (IssueDescription).</td>
<td></td>
</tr>
<tr>
<td>CertificateType</td>
<td>Error</td>
<td>Required Field - CertificateType must be provided for issues being underwritten. Missing on Issue (IssueDescription).</td>
<td></td>
</tr>
</tbody>
</table>
XML Submission Validation - Response Messages

<table>
<thead>
<tr>
<th>XML Block</th>
<th>Data Tag</th>
<th>Message Return Code</th>
<th>Response Message Content</th>
</tr>
</thead>
<tbody>
<tr>
<td>TotalParValue</td>
<td></td>
<td>Error</td>
<td>Required Field - TotalParValue must be provided for issues being underwritten. Missing on Issue (IssueDescription).</td>
</tr>
<tr>
<td>InterestCalculationMethod</td>
<td></td>
<td>Error</td>
<td>InterestCalculationMethod is invalid for issue: (IssueDescription). Accepted values are: A360,3036,A365,ACAC.</td>
</tr>
<tr>
<td>PutFrequencyType</td>
<td></td>
<td>Error</td>
<td>Required Field - PutFrequencyType must be provided for issues being underwritten. Missing on Issue (IssueDescription).</td>
</tr>
<tr>
<td>PutFrequencyNumber</td>
<td></td>
<td>Error</td>
<td>PutFrequencyNumber is invalid when PutType is set to 'NONE' on Issue (Issue Description).</td>
</tr>
<tr>
<td>CreditEnhancements</td>
<td></td>
<td>Error</td>
<td>CreditEnhancements - Element Missing.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Required Field - Credit Enhancement -CUSIP 9 must be provided for issues being underwritten. Missing on Issue (Issue Description).</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Required Field - Credit Enhancement - CreditEnhancementType must be provided for issues being underwritten. Missing on Issue (Issue Description).</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Required Field - Credit Enhancement - ExpirationDate must be provided for issues being underwritten. Missing on Issue (Issue Description).</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Required Field - Credit Enhancement - Organization must be provided for issues being underwritten. Missing on Issue (Issue Description).</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Required Field - Credit Enhancement Organization - Name must be provided for issues being underwritten. Missing on Issue (Issue Description).</td>
</tr>
<tr>
<td>ObligatedPersons</td>
<td></td>
<td>Error</td>
<td>Required Field - Obligated Person - Name must be provided for issues being underwritten. Missing on Issue (Issue Description).</td>
</tr>
<tr>
<td>PaymentFrequencyNumber</td>
<td></td>
<td>Error</td>
<td>Required Field - PaymentFrequencyNumber must be provided for issues being underwritten. Missing on Issue (Issue Description).</td>
</tr>
<tr>
<td>InterestType, VariableInterestBasis, VariableInterestIndex SpreadSpecified, VariableInterestIndex Name, VariableInterestIndex DateType</td>
<td></td>
<td>Error</td>
<td>Variable Interest Information is invalid when InterestType is set to 'FIXD' on Issue (Issue Description).</td>
</tr>
<tr>
<td>RedemptionFrequencyNumber</td>
<td></td>
<td>Error</td>
<td>Required Field - RedemptionFrequencyNumber must be provided for issues being underwritten. Missing on Issue (Issue Description).</td>
</tr>
<tr>
<td>CallNotificationWindow</td>
<td></td>
<td>Error</td>
<td>CallNotificationWindow is invalid when CallScheduleType is set to 'NONE' on Issue (Issue Description).</td>
</tr>
<tr>
<td>DaysToCallNotice</td>
<td></td>
<td>Error</td>
<td>DaysToCallNotice is invalid when CallScheduleType is set to 'NONE' on Issue (Issue Description).</td>
</tr>
<tr>
<td>XML Block</td>
<td>Data Tag</td>
<td>Message Return Code</td>
<td>Response Message Content</td>
</tr>
<tr>
<td>-----------------------------------</td>
<td>-----------------------------------</td>
<td>---------------------</td>
<td>----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>ParCalls</td>
<td>Error</td>
<td>ParCalls are invalid when CallScheduleType is set to 'NONE' for security: (CUSIP9) on Issue (Issue Description).</td>
<td></td>
</tr>
<tr>
<td>PremiumCalls</td>
<td>Error</td>
<td>PremiumCalls are invalid when CallScheduleType is set to 'NONE' for security: (CUSIP9) on Issue (Issue Description).</td>
<td></td>
</tr>
<tr>
<td>AdvancedRefunding Method with AdvancedRefundingFlag</td>
<td>Error</td>
<td>AdvancedRefundingMethod is required when AdvancedRefundingFlag is set to True. Missing on Issue (Issue Description).</td>
<td></td>
</tr>
<tr>
<td>AdvancedRefundingSecurity</td>
<td>AdvancedRefundingFlag</td>
<td>Error</td>
<td>At least 1 Advanced Refunding Security is required when AdvancedRefundingFlag is set to True. Missing on Issue (Issue Description).</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Required Field - The AdvancedRefundingSecurity: RefundedAmount must be provided for security: (CUSIP9).</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Duplicate AdvancedRefundingSecurity CUSIP9's for Issue (Issue Description).</td>
</tr>
<tr>
<td>SyndicateManager</td>
<td>Error</td>
<td>Syndicate Manager (Name) is unknown for issue: (Issue Desc.)</td>
<td></td>
</tr>
<tr>
<td>MunicipalAdvisor</td>
<td>Error</td>
<td>Municipal Advisor (Name) is unknown for issue: (Issue Desc.)</td>
<td></td>
</tr>
<tr>
<td>Security - CUSIP9</td>
<td>Error</td>
<td>Required Field - The CUSIP9 must be provided on securities where Security Type is (CUSIP-9).</td>
<td></td>
</tr>
<tr>
<td>Security - SecurityStatus</td>
<td>Error</td>
<td>Required Field - The SecurityStatus must be provided for security: (CUSIP9).</td>
<td></td>
</tr>
<tr>
<td>Security - SerialTermIndicator</td>
<td>Error</td>
<td>Required Field - The SerialTermIndicator must be provided for security: (CUSIP9).</td>
<td></td>
</tr>
<tr>
<td>Security - Coupon</td>
<td>Error</td>
<td>Required Field - The Coupon must be provided for security: (CUSIP-9).</td>
<td>(CUSIP-9) is listed as a zero coupon and cannot have a coupon amount.</td>
</tr>
<tr>
<td>Security - InitialOfferingPrice/InitialOfferingYield</td>
<td>Error</td>
<td>Required Field - The Price, Yield or combination must be provided for security: (CUSIP-9).</td>
<td></td>
</tr>
<tr>
<td>Security - MaturityPrincipalAmount</td>
<td>Error</td>
<td>MaturityPrincipalAmount does not match PrincipalValueUnderwritten for security: (CUSIP-9).</td>
<td>PrincipalValueUnderwritten for security is required: (CUSIP-9).</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>PrincipalValueUnderwritten must be greater than 0 and less than the MaturityPrincipalAmount for security: (CUSIP-9).</td>
</tr>
<tr>
<td>Security - RetailOrderPeriodFlag</td>
<td>Error</td>
<td>Required Field - The RetailOrderPeriodFlag must be provided for security: (CUSIP-9).</td>
<td></td>
</tr>
<tr>
<td>Security - RetailOrderPeriods</td>
<td>Error</td>
<td>Required Field - The RetailOrderPeriods must be provided for security: (CUSIP-9).</td>
<td></td>
</tr>
<tr>
<td>Security - RetailOrderPeriods - Period</td>
<td>Error</td>
<td>Required Field - The Period must be provided for security: (CUSIP-9).</td>
<td></td>
</tr>
</tbody>
</table>
### XML Submission Validation - Response Messages

#### Primary Market (Data Message)

<table>
<thead>
<tr>
<th>XML Block</th>
<th>Data Tag</th>
<th>Message Return Code</th>
<th>Response Message Content</th>
</tr>
</thead>
<tbody>
<tr>
<td>Security - RetailOrderPeriods - Period - RetailOrderPeriodDateBegin / RetailOrderPeriodDateEnd</td>
<td>Error</td>
<td>Required Field - The Retail Order Period BeginDate and EndDate must be provided for security: (CUSIP-9). Retail Order Period Ending Date/Time must be later than Beginning Date/Time for security: (CUSIP-9). Required Field - The Retail Order Period BeginDate and EndDate must be provided for security: (CUSIP-9). Cannot have Retail Order Period Date Range if the flag is set to 'No' for security: (CUSIP-9).</td>
<td></td>
</tr>
<tr>
<td>Security - ParCalls</td>
<td>Error</td>
<td>Required Field - The CallSchedule for Par Calls must be provided for security: (CUSIP-9). ParCalls are invalid when ScheduleType is set to 'NONE' for security: (CUSIP-9). Required Field - The Par Call Schedule Date must be provided for security: (CUSIP-9).</td>
<td></td>
</tr>
<tr>
<td>Security - PremiumCalls</td>
<td>Error</td>
<td>Required Field - The CallSchedule for Premium Calls must be provided for security: (CUSIP-9). Required Field - The Premium Call Schedule Date must be provided for security: (CUSIP-9). Required Field - The Premium Call Schedule Price must be provided for security: (CUSIP-9). PremiumCalls are invalid when ScheduleType is set to 'NONE' for security: (CUSIP-9).</td>
<td></td>
</tr>
<tr>
<td>PutableStartDate / PutableEndDate</td>
<td>Error</td>
<td>Required Field - The PutableStartDate must be provided for security: (CUSIP-9). Required Field - The PutableEndDate must be provided for security: (CUSIP-9). PutableStartDate cannot be later than PutableEndDate for security: (CUSIP-9).</td>
<td></td>
</tr>
<tr>
<td>Underwriter General</td>
<td>Error</td>
<td>Data Validation - You are not authorized to submit on behalf of the party indicated by the MSRB ID. Warning</td>
<td>Document Availability Contact conflict - Submission asserts Official statement to be available only from underwriter for offering exempt from SEC Rule 15c2-12 exempt limited offering; in which case the Document Availability Contact information must be provided.</td>
</tr>
<tr>
<td>OS Availability Contact Information</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Table 4: Document Message Error/Warning Messages

<table>
<thead>
<tr>
<th>XML Block</th>
<th>Data Tag</th>
<th>Message Return Code</th>
<th>Response Message Content</th>
</tr>
</thead>
<tbody>
<tr>
<td>Submission</td>
<td>Submission Type</td>
<td>Error</td>
<td>Required Field - Submission Type is a required field.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Error</td>
<td>Data Validation – The referenced submission is of Submission Type (Primary Market Disclosure) and cannot be changed.</td>
</tr>
<tr>
<td></td>
<td>Submission Status</td>
<td>Error</td>
<td>Required Field - Submission Status is required field.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Error</td>
<td>Data Validation – The referenced submission is of status (Deleted) and cannot be updated.</td>
</tr>
<tr>
<td></td>
<td>Submission Identifier</td>
<td>Error</td>
<td>Failure to Identify Submission - failed to identify a submission with the given Submission Identifier (ID)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Error</td>
<td>Data Validation – Submission of a document must be via an UPDATE message operation.</td>
</tr>
<tr>
<td></td>
<td>Submission Underwritten CUSIP9 Identifier</td>
<td>Error</td>
<td>Failure to Identify Submission - failed to identify a submission with the given Underwritten CUSIP9</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Error</td>
<td>Data Validation - Submission Underwritten CUSIP9 Identifier: 123456AB1 is not recognized as a well-formed CUSIP9. Please confirm the value and re-submit as appropriate.</td>
</tr>
<tr>
<td>Document</td>
<td>Document Type</td>
<td>Error</td>
<td>Required Field - Document Type is a required field.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Error</td>
<td>Data Validation – Document Types (Official Statement, Preliminary Official Statement) are allowed if Issue Type is (New Issue or Remarketing Change in CUSIP).</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Error</td>
<td>Data Validation – Document Types (Official Statement, Preliminary Official Statement, and Supplement to Official Statement) are allowed if Issue Type is (Remarketed No Change in CUSIP).</td>
</tr>
<tr>
<td></td>
<td>Document Description</td>
<td>&quot;</td>
<td>&quot;</td>
</tr>
<tr>
<td></td>
<td>Document Posting Operation Indicator</td>
<td>&quot;</td>
<td>&quot;</td>
</tr>
<tr>
<td>File</td>
<td>File Order</td>
<td>Information</td>
<td>Data Validation – If the File Order is not defined pertaining to a multi-file document, a file order conforming to the date/time of submission will be assumed. The Submitter should review the document submissions and their file order via the EMMA Submission Data Port and make corrections as appropriate.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Information</td>
<td>Data Validation – If the file order is in conflict with an existing file, the file order of the submitted file will be reassigned by the System to the next logical file order value. However, The Submitter should review the document submissions and their file order via the EMMA Submission Data Port and make corrections as appropriate.</td>
</tr>
<tr>
<td></td>
<td>Date Received from Issuer</td>
<td>Error</td>
<td>Required Field – Date Received from Issuer is a required field on all files.</td>
</tr>
<tr>
<td>GENERAL</td>
<td></td>
<td>Error</td>
<td>File Validation - All documents submitted to the EMMA disclosure service must be in portable document format (PDF), configured to permit documents to be saved, viewed, printed and retransmitted by electronic means.</td>
</tr>
</tbody>
</table>
## XML Submission Validation - Response Messages

### Primary Market (Document Message)

<table>
<thead>
<tr>
<th>XML Block</th>
<th>Data Tag</th>
<th>Message Return Code</th>
<th>Response Message Content</th>
</tr>
</thead>
<tbody>
<tr>
<td>Underwriter</td>
<td>Managing Underwriter MSRB ID</td>
<td>Error</td>
<td>Required Field - Managing Underwriter MSRB ID is a required element for all Submissions.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Error</td>
<td>Data Validation - You are not authorized to submit on behalf of the party indicated by the MSRB ID.</td>
</tr>
</tbody>
</table>
PRIMARY MARKET - DATA AND DOCUMENT SUBMISSION CASES

Standard Data Submission

For an offering for which (i) an official statement is submitted, (ii) a single underwriter or underwriting syndicate underwrites all issues in the offering, (iii) CUSIP numbers are assigned to the securities, and (iv) the underwriting spread is disclosed in the official statement, the minimum data elements to be provided in a data message, together with the value to be selected or entered, would be:

- **submission data**
  - (i) submission type (select ‘primary market disclosure’)
  - (ii) submission status (select ‘publish’)

- **offering data**
  - (i) offering type (select ‘bond’)
  - (ii) underwriting spread disclosure indicator (select ‘disclosed in official statement’)

- **issue data** (each element provided for each issue in the offering)
  - (i) issue type (select ‘new issue’)
  - (ii) security type (select ‘CUSIP-9’)
  - (iii) issuer name (enter full plain English name as it appears in the official statement)
  - (iv) issue description (enter full plain English description as it appears in the official statement)
  - (v) issue closing date (enter date)
  - (vi) issue dated date (enter date)
  - (vii) formal award date time (enter date and time)
  - (viii) first trade execution date time (enter date and time)
  - (ix) issuer or other obligated persons have agreed to undertake to provide Continuing Disclosure information as contemplated by Exchange Rule 15c2-12 (enter Yes or No)
  - (x) annual filing will be available on or about (enter Month and Day) or
  - (xi) annual filing will be available on or about (enter count) of (select Days or Months) after fiscal year ending on (enter Month and Day)
  - (xii) retail order period flag (select Yes or No)
  - (xiii) retail order period date time (enter date and time if applicable, consistent with retail order period flag)

- **security data** (each element provided for each security of each issue in the offering)
  - (i) CUSIP-9 (enter nine-digit number)
  - (ii) maturity date (enter date)
  - (iii) coupon, i.e. interest rate (enter value)
  - (iv) maturity principal amount (enter value)
  - (v) initial offering price (enter value) and/or
  - (vi) initial offering yield (enter value)

- **underwriter data**
  - (i) managing underwriter MSRB ID (enter MSRB ID)

- **limited offering contact data** – no limited offering contact data submitted
Underwriting Spread Disclosure Special Cases

If the underwriting spread for a negotiated offering is not disclosed in the official statement (including any case in which no official statement is produced), offering data would be:2

- **offering data** –
  - (i) offering type (select ‘bond’)
  - (ii) underwriting spread (enter value)

**Underwriting Spread Not Disclosed For Competitively Sold Offering**

If the underwriting spread for an offering sold on a competitive bid basis is not disclosed in the official statement or as a data element, offering data would be:

- **offering data** –
  - (i) offering type (select ‘bond’)
  - (ii) underwriting spread disclosure indicator (select ‘not disclosed – competitive sale’)

Official Statement Special Cases

**No official statement produced (preliminary official statement status).**

If no official statement was produced for an offering exempt from Rule 15c2-12, offering data would be:

- **offering data** –
  - (i) offering type (select ‘bond’)
  - (ii) underwriting spread (enter value)
  - (iii) OS availability status (select applicable exemption under Rule 15c2-12)3
  - (iv) POS availability status (select ‘POS submitted’ if a preliminary official statement is submitted or ‘no POS prepared’ if no preliminary official statement was produced)

**Late Submission of Official Statement (Preliminary Official Statement Status)**

If the official statement is not available by closing, offering data would be:

- **offering data** –
  - (i) offering type (select ‘bond’)

---

2 In this and the following special cases, data to be submitted would remain the same as for the standard data submission described above except to the extent shown.

3 An exemption would be selected only if no official statement was produced in connection with an offering exempt under Rule 15c2-12. No exemption would be selected if an official statement was in fact produced for such an exempted offering, but instead the official statement would be submitted except in the case of certain limited offerings as described below.
Specifications for the EMMA Primary Market Submission Service

(ii) underwriting spread (enter value)\(^4\)
(iii) OS availability status (select ‘OS not available at closing’)
(iv) POS availability status (select ‘POS submitted’ if a preliminary official statement is submitted or ‘no POS prepared’ if no preliminary official statement was produced)

Official Statement for Limited Offering Available Only from the Underwriter.

If the official statement for an offering exempt from Rule 15c2-12(d)(1)(i) (limited offering) is produced but will not be submitted to EMMA, offering data and limited offering contact data would be:

- **offering data** –
  (i) offering type (select ‘bond’)
  (ii) underwriting spread disclosure indicator (select ‘disclosed in official statement’)\(^5\)
  (iii) OS availability status (select ‘OS available only from underwriter for limited offering’)\(^6\)

- **limited offering contact data** – no limited offering contact data submitted
  (i) OS contact organization name (enter name of organization from which official statement may be requested)
  (ii) OS contact first name (enter first name of individual from whom official statement may be requested)
  (iii) OS contact last name (enter first name of individual from whom official statement may be requested)
  (iv) OS contact title (enter job title)
  (v) OS contact phone number (enter phone number)
  (vi) OS contact phone number extension (optional)
  (vii) OS contact address (enter mailing address)
  (viii) OS contact city (enter city)
  (ix) OS contact state (enter state)
  (x) OS contact zip code (enter zip code)
  (xi) OS contact email address (enter email address to which requests for the official statement may be sent)

Underwriting Assessment Special Cases

The managing underwriter, on behalf of each participant in the syndicate or similar account, pays the underwriting assessment required under MSRB Rule A-13(a). The assessment applies

\(^4\) Underwriting spread would be required to be disclosed as a submitted data element in any case in which the official statement is not submitted by closing, even if the official statement is subsequently submitted and includes the underwriting spread.

\(^5\) In this and following special cases, if underwriting spread is not disclosed in the official statement for an offering sold on other than a competitive bid basis, then the underwriting spread would be required to be disclosed as a submitted data element.

\(^6\) This would serve as an affirmative certification by the underwriter that the offering qualifies in all respects as a limited offering pursuant to Rule 15c2-12(d)(1)(i).
to all municipal securities purchased from an issuer by or through a broker, dealer or municipal securities dealer, whether acting as principal or agent, as part of a primary offering.

**Offering exempt from MSRB underwriting assessment**

Rule A-13(a) provides two exemptions from the underwriting assessment. The entire offering qualifies for an exemption from the MSRB’s underwriting assessment if all such securities in the primary offering:

(i) are commercial paper as defined in MSRB Rule G-32(d); or

(ii) constitute municipal fund securities.

For commercial paper the issue data would be:

- **issue data** –
  
  (i) issue type (select ‘new issue’)
  
  (ii) security type (select ‘CommercialPaper’)

Submissions for municipal fund security offerings cannot be made through the automated computer-to-computer interface at this time.

**Partial Underwriting**

Underwrite less than entire principal amount of an issue. If the underwriter underwrites only a portion of an issue (i.e., a different underwriter underwrites the remaining portion of that issue) and therefore should be billed an underwriting assessment under Rule A-13 for only the underwritten portion of the issue, issue data and security data would be:

- **issue data** –
  
  (i) issue type (select ‘new issue’)
  
  (ii) security type (select ‘CUSIP-9’)
  
  (iii) issuer name (enter full plain English name as it appears in the official statement)
  
  (iv) issue description (enter full plain English description as it appears in the official statement)
  
  (v) issue closing date (enter date)
  
  (vi) issue dated date (enter date)
  
  (vii) formal award date time (enter date and time)
  
  (viii) first trade execution date time (enter date and time)
  
  (ix) issuer or other obligated persons have agreed to undertake to provide Continuing Disclosure information as contemplated by Exchange Rule 15c2-12 (enter Yes or No)
  
  (x) annual filing will be available on or about (enter Month and Day) or
  
  (xi) annual filing will be available on or about (enter count) of (select Days or Months) after fiscal year ending on (enter Month and Day)
  
  (xii) retail order period flag (select Yes or No)
  
  (xiii) retail order period date time (enter date and time)

- **security data** (provided as indicated) –
  
  (i) CUSIP-9 (enter nine-digit number for every security in issue, regardless of whether underwritten by underwriter)
Specifications for the EMMA Primary Market Submission Service

(ii) maturity principal amount (enter value for every security in issue, regardless of whether underwritten by underwriter)

(iii) security status (use only for a security not underwritten by underwriter by selecting ‘not underwritten’ or a security only partially underwritten by underwriter by selecting ‘partially underwritten’)

(iv) initial offering price (enter value) and/or

(v) initial offering yield (enter value)

(vi) par value underwritten (used solely for a security underwritten only in part by underwriter – enter principal amount underwritten by underwriter)

If any issues in the offering are underwritten by a different underwriter, issue data would be as follows:

- **issue data** (for each issue underwritten in whole or in part by underwriter) –
  (i) issue type (select ‘new issue’)
  (ii) security type (select ‘CUSIP-9’)
  (iii) issuer name (enter full plain English name as it appears in the official statement)
  (iv) issue description (enter full plain English description as it appears in the official statement)
  (v) issue closing date (enter date)
  (vi) issue dated date (enter date)
  (vii) formal award date time (enter date and time)
  (viii) first trade execution date time (enter date and time)

- **offering data** (for each issue underwritten in its entirety by a different underwriter) –
  (i) CUSIP-9 of latest maturity of issue not underwritten (enter nine-digit number)

**No CUSIP Numbers**

If no CUSIP numbers have been assigned to the securities in an issue due to ineligibility for CUSIP number assignment, issue data and security data would be as follows:

- **issue data** (each element provided for each issue ineligible for CUSIP number assignment) –
  (i) issue type (select ‘new issue’)
  (ii) security type (select ‘non-CUSIP’)
  (iii) issuer name (enter full plain English name as it appears in the official statement)
  (iv) issue description (enter full plain English description as it appears in the official statement)
  (v) issue closing date (enter date; if securities are to be issued in multiple tranches on different dates, enter date of initial issuance)
  (vi) issuer state (enter name)
  (vii) issue dated date (enter date)
  (viii) issuer or other obligated persons have agreed to undertake to provide Continuing Disclosure information as contemplated by Exchange Rule 15c2-12 (enter Yes or No)
  (ix) annual filing will be available on or about (enter Month and Day) or
  (x) annual filing will be available on or about (enter count) of (select Days or Months) after fiscal year ending on (enter Month and Day)
  (xi) retail order period flag (select Yes or No)
  (xii) retail order period date time (enter date and time)

- **security data** (each element provided for each security in non-CUSIP issue) –
  (i) maturity principal amount (enter value)
  (ii) initial offering price or yield (enter value)
Specifications for the EMMA Primary Market Submission Service

(iii) maturity date (enter date)
(iv) coupon, i.e. interest rate (enter value)
(v) security dated date (enter date – use only if security dated date is different from issue dated date, generally if securities are issued in multiple tranches on different dates)

Commercial Paper Issue

If only a six-digit CUSIP number is assigned for a commercial paper issue, issue data would be as follows and no security data would be provided:

- **issue data** (each element provided for each commercial paper issue) –
  (i) issue type (select ‘new issue’)
  (ii) security type (select ‘CommercialPaper’)
  (iii) issuer name (enter full plain English name as it appears in the official statement)
  (iv) issue description (enter full plain English description as it appears in the official statement)
  (v) issue closing date (enter date)
  (vi) CUSIP-6 (enter six-digit number)
  (vi) issuer or other obligated persons have agreed to undertake to provide Continuing Disclosure information as contemplated by Exchange Rule 15c2-12 (enter Yes or No)
  (vii) annual filing will be available on or about (enter Month and Day) or
  (viii) annual filing will be available on or about (enter count) of (select Days or Months) after fiscal year ending on (enter Month and Day)
  (ix) retail order period flag (select Yes or No)
  (x) retail order period date time (enter date and time)

- **security data** – no security data submitted

Remarked Issue

If an outstanding issue is being remarketed, issue data would be as follows:

- **issue data** (each element provided for each remarked issue) –
  (i) issue type (select ‘remarketed’)
  (ii) security type (select ‘CUSIP-9’)
  (iii) issuer name (enter full plain English name as it appears in the official statement)
  (iv) issue description (enter full plain English description as it appears in the official statement)
  (v) issue closing date (enter closing date of the remarketing)
  (vi) original CUSIP-9 of remarkeated security (if new CUSIP-9s assigned for remarketed issue, enter original nine-digit number of latest maturity of remarketed issue)
  (vi) issuer or other obligated persons have agreed to undertake to provide Continuing Disclosure information as contemplated by Exchange Rule 15c2-12 (enter Yes or No)
  (vii) annual filing will be available on or about (enter Month and Day) or
  (viii) annual filing will be available on or about (enter count) of (select Days or Months) after fiscal year ending on (enter Month and Day)
  (ix) retail order period flag (select Yes or No)
  (x) retail order period date time (enter date and time)
Amendment or Supplement to Initial Data Submission

If data previously submitted in a data submission is to be amended or supplement by a subsequent data submission, the entire set of data must be resubmitted (i.e., the subsequent submission will overwrite the initial submission) and the submission data would be as follows:

- **submission data** –
  1. submission type (select ‘primary market disclosure’)
  2. submission status (select ‘publish’)
  3. submission identifier (enter identification number assigned by EMMA to initial data message submission – do not use if submission underwritten CUSIP-9 identifier is used) or
  4. submission underwritten CUSIP-9 identifier (enter nine-digit number of latest maturity in the offering – do not use if submission identifier is used)

Cancellation of Offering

If data or documents have previously been submitted in connection with an offering and such offering is subsequently cancelled, submission data would be as follows and no other data categories would be provided:

- **submission data** –
  1. submission type (select ‘primary market disclosure’)
  2. submission status (select ‘notice of cancellation of offering’)
  3. submission identifier (enter identification number assigned by EMMA to initial data message submission – do not use if submission underwritten CUSIP-9 identifier is used) or
  4. submission underwritten CUSIP-9 identifier (enter nine-digit number of latest maturity in the offering – do not use if submission identifier is used)
Standard Document Submission

For an offering for which an official statement is submitted as a single PDF file, the minimum elements to be provided in a document message, together with the value to be selected or entered, would be, in addition to the PDF file of the document itself:

- **submission data** –
  (i) submission type (select ‘primary market disclosure’)
  (ii) submission status (select ‘publish’)
  (iii) submission identifier (enter identification number assigned by EMMA to related data message – do not use if submission underwritten CUSIP-9 identifier is used) or
  (iv) submission underwritten CUSIP-9 identifier (enter nine-digit number of latest maturity in the offering included in related data message – do not use if submission identifier is used)

- **document data** –
  (i) document type (select ‘official statement’)
  (ii) document description (optional – if no submitter supplied document name provided, EMMA will provide default description)

- **file data** –
  (i) date received from issuer (enter date)

- **underwriter data** –
  (i) managing underwriter MSRB ID (enter MSRB ID)

Special Document Submission Cases

If the official statement is submitted as multiple PDF files, each file must be submitted in a separate document message. The separate files would be linked through a common submission identifier or submission underwritten CUSIP-9 identifier included in the submission data of each document message. The document data and file data for the PDF files submitted would be (assuming for illustration purposes that the official statement document consists of three separate PDF files):

First PDF file:
- **document data** –
  (i) document type (select ‘official statement’)

- **file data** –
  (i) date received from issuer (enter date)
  (ii) file order (enter ‘1’)

Second PDF file:
- **document data** –
  (i) document type (select ‘official statement’)
  (ii) document disclosure completion indicator (select ‘partial disclosure’)
  (iii) document posting operation indicator (select ‘append to posted document’)

Specifications for the EMMA Primary Market Submission Service

- file data –
  (i) date received from issuer (enter date)
  (ii) file order (enter ‘2’)

Third (last) PDF file:
- document data –
  (i) document type (select ‘official statement’)
  (ii) document posting operation indicator (select ‘append to posted document’)
- file data –
  (i) date received from issuer (enter date)
  (ii) file order (enter ‘3’)

Amendment to Official Statement

Amendment as appended file. If an official statement has previously been submitted and a submitter is now submitting an amendment to the official statement to be displayed as an additional file on EMMA, the document data and file data for the amendment would be:

- document data –
  (i) document type (select ‘official statement’)
  (ii) document posting operation indicator (select ‘append to posted document’)

Amendment as replacement file. If an official statement has previously been submitted and a submitter is now submitting an amendment to the official statement that is to replace the existing file or files on display on EMMA, the document data and file data for the amendment would be:

- document data –
  (i) document type (select ‘official statement’)
  (ii) document posting operation indicator (select ‘replace posted document’)
- file data –
  (i) date received from issuer (enter date)

Preliminary Official Statement

If a preliminary official statement is being submitted where such submission has been noted in the POS submission status of the related data message, the document data and file data for the preliminary official statement would be:

- document data –
  (i) document type (select ‘preliminary official statement’)
Specifications for the EMMA Primary Market Submission Service

- **file data** –
  (i) date received from issuer (enter date)

**Remarketing Supplement**

If a remarketing supplement is being submitted for a remarketing where such document is to be displayed on EMMA along with an original official statement for the issue available through EMMA,\(^7\) the document data and file data for the remarketing supplement would be:

- **document data** –
  (i) document type (select ‘remarketing supplement’)
  (ii) original CUSIP-9 of latest maturity of remarketed issue (enter original nine-digit number\(^8\) – use only if CUSIP-9 is changed due to the remarketing)

- **file data** –
  (i) date received from issuer (enter date)

---

\(^7\) The disclosure document for a remarketing should be submitted as an official statement, not as a remarketing supplement, if the full document is being submitted.

\(^8\) If the CUSIP-9 is not changed due to the remarketing, the current CUSIP-9 would be submitted as the original CUSIP-9.
PRIMARY MARKET SAMPLE XML MESSAGES

New Issue Submission

Underwriter A (MSRB ID A99955) is making a submission in connection with an offering consisting of two series of bonds described in a single official statement. The bonds were purchased in a negotiated offering and the underwriting spread is disclosed in the official statement. CUSIP numbers have been assigned by the CUSIP Service Bureau to all securities in the offering. The underwriting closes on December 18, 2008. The official statement, titled “Offering Circular,” was received from the issuer on December 5, 2008 and is being submitted to EMMA by the underwriter in a timely manner as a single PDF file. The two series of bonds are being underwritten as follows:

Emma City Industrial Development Agency Public Facility Improvement Revenue Bonds (2008 EMMA University Project), Series A

<table>
<thead>
<tr>
<th>Maturity Date</th>
<th>CUSIP Number</th>
<th>Maturity Principal Amount</th>
<th>Initial Offering Yield</th>
</tr>
</thead>
<tbody>
<tr>
<td>12/01/2009</td>
<td>699438AJ7</td>
<td>$255,000</td>
<td>3.88%</td>
</tr>
<tr>
<td>12/01/2010</td>
<td>699438AK4</td>
<td>$265,000</td>
<td>3.92%</td>
</tr>
<tr>
<td>12/01/2011</td>
<td>699438AL2</td>
<td>$275,000</td>
<td>3.98%</td>
</tr>
<tr>
<td>12/01/2012</td>
<td>699438AM0</td>
<td>$290,000</td>
<td>4.00%</td>
</tr>
<tr>
<td>12/01/2013</td>
<td>699438AN8</td>
<td>$300,000</td>
<td>4.00%</td>
</tr>
<tr>
<td>12/01/2014</td>
<td>699438AP3</td>
<td>$315,000</td>
<td>3.95%</td>
</tr>
<tr>
<td>12/01/2030</td>
<td>699438BD9</td>
<td>$7,380,000</td>
<td>3.90%</td>
</tr>
</tbody>
</table>

Underwriter A is underwriting the full amount of the Series A serial bonds maturing in 2009 through 2011. A different underwriter (Underwriter B) is underwriting the full amount of the Series A serial bonds maturing in 2012 through 2014. Underwriter A and Underwriter B are splitting the Series A term bonds maturing in 2030, with Underwriter A underwriting $4,000,000 of the term bonds.
### Specifications for the EMMA Primary Market Submission Service

Emma City Industrial Development Agency Public Facility Improvement Revenue Refunding Bonds (2008 EMMA University Project), Series B

<table>
<thead>
<tr>
<th>Maturity Date</th>
<th>CUSIP Number</th>
<th>Maturity Principal Amount</th>
<th>Initial Offering Yield</th>
</tr>
</thead>
<tbody>
<tr>
<td>12/01/2009</td>
<td>699438A91</td>
<td>$315,000</td>
<td>3.75%</td>
</tr>
<tr>
<td>12/01/2010</td>
<td>699438A93</td>
<td>$335,000</td>
<td>3.75%</td>
</tr>
<tr>
<td>12/01/2011</td>
<td>699438AA5</td>
<td>$355,000</td>
<td>3.80%</td>
</tr>
<tr>
<td>12/01/2012</td>
<td>699438AB7</td>
<td>$370,000</td>
<td>3.80%</td>
</tr>
<tr>
<td>12/01/2013</td>
<td>699438AC9</td>
<td>$390,000</td>
<td>3.85%</td>
</tr>
<tr>
<td>12/01/2014</td>
<td>699438AD2</td>
<td>$410,000</td>
<td>3.90%</td>
</tr>
<tr>
<td>12/01/2015</td>
<td>699438AE4</td>
<td>$430,000</td>
<td>3.95%</td>
</tr>
<tr>
<td>12/01/2016</td>
<td>699438AF6</td>
<td>$470,000</td>
<td>3.98%</td>
</tr>
<tr>
<td>12/01/2017</td>
<td>699438AG8</td>
<td>$530,000</td>
<td>4.00%</td>
</tr>
<tr>
<td>12/01/2023</td>
<td>699438AH1</td>
<td>$2,500,000</td>
<td>4.20%</td>
</tr>
</tbody>
</table>

Underwriter A does not underwrite any portion of the Series B bonds. The Series B bonds are underwritten in whole by Underwriter B.
Data Message

<?xml version="1.0" encoding="UTF-8"?>
<DisclosureDataMessageType xmlns="EMMA-SUBMISSION-XML"
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    <Offering OfferingType="Bond" UnderwritingSpreadDisclosureIndicator="DisclosedInOfficialStatement">
        <Issue RetailOrderPeriodFlag="Yes" IsSubjectToContinuingDisclosureAgreement="Yes">
            IssueType="NewIssue" SecurityType="CUSIP9"
            IssuerName="Emma City Industrial Development Agency" IssueDescription="Public Improvement Revenue Bonds (2008 EMMA University Project), Series A" IssueClosingDate="2008-12-18">
                <ObligatedPersonsForContinuingDisclosureFiling>
                    <ObligatedPerson ObligatedPersonType="Issuer">
                        NameOfObligatedPersonForContinuingDisclosureFiling="Emma City Industrial Development Agency">
                            <DisclosureFilingSchedule ScheduleBasisForFiling="CalendarYear">
                                CalendarYearAnnualFilingMonth="12"
                                CalendarYearAnnualFilingDay="31"/>
                        </ObligatedPerson>
                    </ObligatedPersonsForContinuingDisclosureFiling>
                    <ObligatedPersonsForContinuingDisclosureFiling>
                        NameOfObligatedPersonForContinuingDisclosureFiling="Other Obligated Person Name">
                            <DisclosureFilingSchedule ScheduleBasisForFiling="FiscalYearEnd">
                                FiscalYearEndMonth="6"
                                FiscalYearEndDay="30"/>
                        </ObligatedPerson>
                    </ObligatedPersonsForContinuingDisclosureFiling>
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                    <FirstTradeExecutionDateTime> <Date>2008-12-08</Date> <Time>11:10</Time> </FirstTradeExecutionDateTime>
                </Issue>
            </Offering>
        </DisclosureDataMessageType>
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    <Security CUSIP9="699438AM0" Maturity_Date="2012-12-01" Interest_Rate="4.75" MaturityPrincipalAmount="290000.00" SecurityStatus="NotUnderwritten"/>
    <Security CUSIP9="699438AN8" Maturity_Date="2013-12-01" Interest_Rate="4.75" MaturityPrincipalAmount="300000.00" SecurityStatus="NotUnderwritten"/>
    <Security CUSIP9="699438AP3" Maturity_Date="2014-12-01" Interest_Rate="4.75" MaturityPrincipalAmount="315000.00" SecurityStatus="NotUnderwritten"/>
    <Security CUSIP9="699438BD9" Maturity_Date="2030-12-01" Interest_Rate="4.75" MaturityPrincipalAmount="7380000.00" SecurityStatus="PartiallyUnderwritten" ParValueUnderwritten="4000000.00" InitialOfferingYield="3.90"/>
  </UnderlyingSecurities>
  <CUSIP9OfLatestMaturityOnIssueNotUnderwritten>699438AH1</CUSIP9OfLatestMaturityOnIssueNotUnderwritten>
</Offering>
</Issue>
</Document>

Document Message

<?xml version="1.0" encoding="UTF-8"?>
  <Submission SubmissionType="PrimaryMarketDisclosure" SubmissionStatus="Publish">
    <SubmissionIdentifier>12345678</SubmissionIdentifier>
  </Submission>
  <Document DocumentType="OfficialStatement" DocumentDescription="Offering Circular">
    <UnderlyingFiles>
      <File DateReceivedFromIssuer="2008-12-05"/>
    </UnderlyingFiles>
  </Document>
  <Underwriter ManagingUnderwriterMSRBID="A99955"/>
</DisclosureMessage>
Remarketing Submission

Remarketing agent A (MSRB ID BQ99999) is making a submission in connection with a remarketing of an outstanding issue of bonds originally dated April 10, 2003. The securities retain their original CUSIP number but will have a new dated date. The remarketing will close on May 27, 2009. The issuer has prepared a remarketing supplement, delivered to the remarketing agent on May 26, 2009, designed to be used in combination with the original official statement for the initial issue, already available on EMMA. The remarketing agent’s compensation for the remarketing of the issue is disclosed in the official statement.

The issue, as remarkeeted, is as follows:

Health Facilities Authority of Emma County Variable Rate Demand Retirement Facility Revenue Bonds (Muni Retirement Corporation Project) Series 2008A

<table>
<thead>
<tr>
<th>Maturity Date</th>
<th>CUSIP Number</th>
<th>Maturity Principal Amount</th>
<th>Initial Offering Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>4/01/2033</td>
<td>49833RAX3</td>
<td>$30,000,000</td>
<td>100%</td>
</tr>
</tbody>
</table>
Data Message

<?xml version="1.0" encoding="UTF-8"?>
<DisclosureDataMessageType xmlns="EMMA-SUBMISSION-XML"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xsi:schemaLocation=" ...">
  <Submission SubmissionType="PrimaryMarketDisclosure" SubmissionStatus="Publish" />
  <Offering OfferingType="Bond" UnderwritingSpreadDisclosureIndicator="DisclosedInOfficialStatement">
    <Issue RetailOrderPeriodFlag="Yes" IsSubjectToContinuingDisclosureAgreement="Yes">
      <IssueType="Remarketed" SecurityType="CUSIP9" IssuerName="Health Facilities Authority of Emma County" IssueDescription="Variable Rate Demand Retirement Facility Revenue Bonds (Muni Retirement Corporation Project) Series 2008A" OriginalDatedDate="2003-04-10" IssueClosingDate="2009-05-27">
        <ObligatedPersonsForContinuingDisclosureFiling>
          <ObligatedPerson ObligatedPersonType="Issuer" NameOfObligatedPersonForContinuingDisclosureFiling="Health Facilities Authority of Emma County">
            <DisclosureFilingSchedule ScheduleBasisForFiling="CalendarYear" CalendarYearAnnualFilingMonth="December" CalendarYearAnnualFilingDay="31"/>
          </ObligatedPerson>
        </ObligatedPersonsForContinuingDisclosureFiling>
        <UnderlyingSecurities>
          <Security CUSIP9="49833RAX3" MaturityPrincipalAmount="30000000.00" InitialOfferingPrice="100.0"/>
        </UnderlyingSecurities>
        <RetailOrderPeriods>
          <Period>
            <RetailOrderPeriodDateTimeBegin>
              <Date>2009-05-20</Date>
              <Time>08:00</Time>
            </RetailOrderPeriodDateTimeBegin>
            <RetailOrderPeriodDateTimeEnd>
              <Date>2009-05-27</Date>
              <Time>17:00</Time>
            </RetailOrderPeriodDateTimeEnd>
          </Period>
        </RetailOrderPeriods>
      </Issue>
    </Offering>
    <Underwriter ManagingUnderwriterMSRBID="BQ99999"/>
  </Offering>
</DisclosureDataMessageType>

Document Message

<?xml version="1.0" encoding="UTF-8"?>
  <Submission SubmissionType="PrimaryMarketDisclosure" SubmissionStatus="Publish" SubmissionIdentifier="12345678"/>
</Submission>
<Document DocumentType="RemarketingSupplement" DocumentDescription="Reoffering Memorandum">
  <UnderlyingFiles>
    <File DateReceivedFromIssuer="2009-05-26"/>
  </UnderlyingFiles>
</Document>

<Underwriter ManagingUnderwriter MSRBID="BQ99999"/>
</DisclosureMessage>
Commercial Paper Submission

Underwriter A (MSRB ID A9999944) is making a submission in connection with the issuance of an initial tranche of commercial paper, closing on May 22, 2009. The commercial paper program has been assigned a six-digit CUSIP number of 694004 from the CUSIP Service Bureau. The issuer has prepared a commercial paper memorandum, delivered to the underwriter on May 20, 2009. The underwriter’s compensation is disclosed in the official statement.

The commercial paper issue, to be offered at a price of 100%, is known as EMMA County, Virginia Commercial Paper Program A-2.

Data Message

```xml
<?xml version="1.0" encoding="UTF-8"?>
<DisclosureDataMessageType xmlns="EMMA-SUBMISSION-XML"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xsi:schemaLocation=" ...">
  <Submission SubmissionType="PrimaryMarketDisclosure" SubmissionStatus="Publish"/>
  <Offering OfferingType="Bond" UnderwritingSpreadDisclosureIndicator="DisclosedInOfficialStatement">
    <Issue RetailOrderPeriodFlag="No" IsSubjectToContinuingDisclosureAgreement="Yes">
      <IssueType="NewIssue" SecurityType="CommercialPaper" CUSIP6="694004">
        <IssuerName>Emma County, Virginia</IssuerName>
        <IssueDescription>Commercial Paper Program A-2" IssueClosingDate="2009-05-22">
          <ObligatedPersonsForContinuingDisclosureFiling>
            <ObligatedPerson ObligatedPersonType="Issuer">
              <NameOfObligatedPersonForContinuingDisclosureFiling>Emma County, Virginia</NameOfObligatedPersonForContinuingDisclosureFiling>
              <DisclosureFilingSchedule ScheduleBasisForFiling="CalendarYear">
                CalendarYearAnnualFilingMonth="December"
                CalendarYearAnnualFilingDay="31"/>
            </ObligatedPerson>
          </ObligatedPersonsForContinuingDisclosureFiling>
        </IssueDescription>
      </Issue>
    </Offering>
    <Underwriter ManagingUnderwriterMSRBID="A9999944"/>
  </Offering>
</DisclosureDataMessageType>
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Document Message

```xml
<?xml version="1.0" encoding="UTF-8"?>
  <Submission SubmissionType="PrimaryMarketDisclosure" SubmissionStatus="Publish">
    <SubmissionIdentifier>12345679</SubmissionIdentifier>
  </Submission>
  <Document DocumentType="OfficialStatement" DocumentDescription="Commercial Paper Memorandum">
    <UnderlyingFiles>
      <File DateReceivedFromIssuer="2009-05-20"/>
    </UnderlyingFiles>
</DisclosureMessage>
```
Specifications for the EMMA Primary Market Submission Service

</Document>
<Underwriter ManagingUnderwriterMSRBID="A9999944"/>
</DisclosureMessage>
Ineligible for CUSIP Number Assignment Submission

Underwriter A (MSRB ID A99991) is making a submission in connection with the offering of warrants that are ineligible for CUSIP number assignment by the CUSIP Service Bureau. Because the principal amount of the entire offering is under $1 million, the offering is exempt from Exchange Act Rule 15c2-12 and no official statement has been produced by the issuer. However, a preliminary official statement, consisting of two separate PDF files (the main text of the disclosure document and a separate Appendix A describing the issuer, including its financial statements). Closing on the warrants is on April 26, 2009, which is also the dated date of this initial offering of the warrants (additional warrants may be issued in the future, which would have different dated dates). The underwriter was paid an underwriting fee of $1,250 for underwriting the warrants.

The warrants are as follows:

Sanitary Improvement District No. 4858-1 of Emma County, Nebraska Construction Warrants, First Series

<table>
<thead>
<tr>
<th>Security Dated Date</th>
<th>Maturity Date</th>
<th>Interest Rate (%)</th>
<th>Maturity Principal Amount ($)</th>
<th>Initial Offering Price or Yield (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>3/16/2014</td>
<td>4/26/2014</td>
<td>6.50%</td>
<td>$30,000,000</td>
<td>100%</td>
</tr>
</tbody>
</table>

Data Message

```xml
<?xml version="1.0" encoding="UTF-8"?>
<DisclosureDataMessageType xmlns="EMMA-SUBMISSION-XML"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xsi:schemaLocation="...">
  <Submission SubmissionType="PrimaryMarketDisclosure" SubmissionStatus="Publish"/>
  <Offering OfferingType="Bond" OSAvailabilityStatus="OSNotProduced_15c212ExemptSmallOffering"
POSAvailabilityStatus="POSSubmitted"
    UnderwritingSpread="1250.00">
    <Issue RetailOrderPeriodFlag="No" IsSubjectToContinuingDisclosureAgreement="Yes"
      IssueType="NewIssue" SecurityType="nonCUSIP" IssuerState="NE"
        IssueName="Sanitary Improvement District No. 4858-1 of
Emma County, Nebraska" IssueDescription="Construction Warrants, First Series"
IssueClosingDate="2009-04-26"
      IssueDatedDate="2009-04-26">
      <ObligatedPersonsForContinuingDisclosureFiling>
        <ObligatedPerson ObligatedPersonType="Issuer"
          NameOfObligatedPersonForContinuingDisclosureFiling="Emma County,
Virginia"/>
        <DisclosureFilingSchedule ScheduleBasisForFiling="CalendarYear">
```
CalendarYearAnnualFilingMonth="December"
</ObligatedPerson>
</ObligatedPersonsForContinuingDisclosureFiling>
</UnderlyingSecurities>
MaturityPrincipalAmount="149137.36"
InterestRate="6.50" InitialOfferingPriceYield="100.0"/>
</UnderlyingSecurities>
</Issue>
</Offering>
</DisclosureDataMessageType>

**Document Messages (2 files)**

**FILE#1**
<?xml version="1.0" encoding="UTF-8"?>
  <Submission SubmissionType="PrimaryMarketDisclosure" SubmissionStatus="Publish">
    <SubmissionIdentifier>12345679</SubmissionIdentifier>
  </Submission>
    <UnderlyingFiles>
      <File FileOrder="1" DateReceivedFromIssuer="2009-04-22"/>
    </UnderlyingFiles>
  </Document>
</DisclosureMessage>

**FILE#2**
<?xml version="1.0" encoding="UTF-8"?>
  <Submission SubmissionType="PrimaryMarketDisclosure" SubmissionStatus="Publish">
    <SubmissionIdentifier>12345679</SubmissionIdentifier>
  </Submission>
    <UnderlyingFiles>
      <File FileOrder="2" DateReceivedFromIssuer="2009-04-22"/>
    </UnderlyingFiles>
  </Document>
</DisclosureMessage>
ADVANCE REFUNDING - DATA AND DOCUMENT SUBMISSION CASES

Standard Data Submission

For an advance refunding in which (i) each security that is refunded in whole and (ii) CUSIP numbers had been assigned to the refunded securities, the minimum data elements to be provided in a data message, together with the value to be selected or entered, would be:

- **submission data** –
  (i) submission type (select ‘advance refunding disclosure’)
  (ii) submission status (select ‘publish’)
- **offering data** –
  (i) offering type (select ‘bond’)
- **issue data** (each element provided for each issue refunded in whole or in part in an advance refunding) –
  (i) issue type (select ‘refunded’)
  (ii) security type (select ‘CUSIP-9’)
- **security data** (provided for each refunded security of each refunded issue – data not to be submitted for any security that is not refunded) –
  (i) original CUSIP-9 of refunded security\(^9\) (enter nine-digit number)
  (ii) maturity date (enter date)
  (iii) new CUSIP-9 of refunded security, if assigned (enter nine-digit number as applicable)
  (iv) new CUSIP-9 of unrefunded balance, if assigned (enter nine-digit number as applicable)
- **underwriter data** –
  (i) managing underwriter MSRB ID (enter MSRB ID)

Special Data Submission Cases

Partial Refunding of a Security

If less than all of a specific security is being advance refunded and, as a result, new CUSIP numbers have been assigned to the refunded portion and/or to the unrefunded balance, the security data would be:

- **security data** (provided for each refunded security of each refunded issue, as indicated – data not to be submitted for any security that is not refunded) –
  (i) original CUSIP-9 of refunded security (enter nine-digit number)
  (ii) maturity date (enter date)
  (iii) new CUSIP-9 of refunded security, if assigned (enter nine-digit number as applicable)
  (iv) new CUSIP-9 of unrefunded balance, if assigned (enter nine-digit number as applicable)

---

\(^9\) The data message for an advance refunding disclosure submission would contain information about all refunded securities in an advance refunding. The document message in which an advance refunding document is submitted would contain information about only those refunded securities to which such advance refunding document applies, as described below.
Refunding of an Issue with No CUSIP Numbers

If no CUSIP numbers had been assigned to the securities being refunded due to ineligibility for CUSIP number assignment, the issue data and security data would be:

- **issue data** (each element provided for each issue refunded in whole or in part) –
  1. issue type (select ‘refunded’)
  2. security type (select ‘Non-CUSIP’)
  3. issuer name (enter full plain English name of issuer of refunded issue)
  4. issue description (enter full plain English description of refunded issue)
  5. issuer state (enter name)
  6. issue dated date (enter date)

- **security data** (provided for each refunded security of each refunded issue in an advance refunding – data not to be submitted for any security that is not refunded) –
  1. maturity date (enter date)
Specifications for the EMMA Primary Market Submission Service

Document Submissions

Standard Document Submission

For an advance refunding for which a single advance refunding document is submitted as a single PDF file, the minimum elements to be provided in a document message, together with the value to be selected or entered, would be, in addition to the PDF file of the document itself:

- **submission data** –
  - (i) submission type (select ‘advance refunding disclosure’)
  - (ii) submission status (select ‘publish’)
  - (iii) submission identifier (enter identification number assigned by EMMA to related data message)

- **document data** –
  - (i) document type (select ‘advance refunding document’)
  - (ii) document description (optional – if no submitter supplied document name provided, EMMA will provide default description)
  - (iii) original CUSIP-9 of refunded security (enter nine-digit number for each refunded security applicable to such document)
  - (iv) CUSIP-9 identifier of refunding issue (enter nine-digit number of the latest maturity of each advance refunding issue applicable to such document)

- **file data** –
  - (i) date received from issuer (enter date)

- **underwriter data** –
  - (i) managing underwriter MSRB ID (enter MSRB ID)

Advance Refunding Document Consisting of Multiple Files

If the advance refunding document is submitted as multiple PDF files, each file must be submitted in a separate document message. The separate files would be linked through a common submission identifier included in the submission data of each document message. The document data and file data for the PDF files submitted would be (assuming for illustration purposes that the advance refunding document consists of two separate PDF files):

First PDF file:
- **document data** –
  - (i) document type (select ‘advance refunding document’)
- **file data** –
  - (i) date received from issuer (enter date)
  - (iii) file order (enter ‘1’)

Second PDF file:
- **document data** –
  - (i) document type (select ‘advance refunding document’)
  - (ii) document posting operation indicator (select ‘append to posted document’)

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Specifications for the EMMA Primary Market Submission Service

- **file data** –
  (i) date received from issuer (enter date)
  (ii) file order (enter ‘2’)

Amendment to Advance Refunding Document

Amendment as appended file. If an advance refunding document has previously been submitted and a submitter is now submitting an amendment to the advance refunding document to be displayed as an additional file on EMMA, the document data and file data for the amendment would be:

- **document data** –
  (i) document type (select ‘advance refunding document’)
  (ii) document posting operation indicator (select ‘append to posted document’)

- **file data** –
  (i) date received from issuer (enter date)

Amendment as replacement file. If an advance refunding document has previously been submitted and a submitter is now submitting an amendment to the advance refunding document that is to replace the existing file or files on display on EMMA, the file data for the amendment would be:

- **document data** –
  (i) document type (select ‘advance refunding document’)
  (ii) document posting operation indicator (select ‘replace posted document’)

- **file data** –
  (i) date received from issuer (enter date)


**Advance Refunding Submission**

Underwriter A (MSRB ID A99992) is making a submission in connection with an offering of advance refunding bonds. The new issue (refunding) bonds are as follows:

**Hospital and Higher Education Facilities Authority of Emma County Hospital Revenue Refunding Bonds (Emma Obligated Group Issue), Series 2009**

<table>
<thead>
<tr>
<th>Maturity Date</th>
<th>CUSIP Number</th>
<th>Maturity Principal Amount</th>
<th>Initial Offering Yield</th>
</tr>
</thead>
<tbody>
<tr>
<td>12/01/2010</td>
<td>197485AS7</td>
<td>$655,000</td>
<td>3.80%</td>
</tr>
<tr>
<td>12/01/2011</td>
<td>197485AT5</td>
<td>$760,000</td>
<td>3.90%</td>
</tr>
<tr>
<td>12/01/2012</td>
<td>197485AU3</td>
<td>$875,000</td>
<td>3.95%</td>
</tr>
<tr>
<td>12/01/2013</td>
<td>197485AV1</td>
<td>$990,000</td>
<td>4.00%</td>
</tr>
<tr>
<td>12/01/2014</td>
<td>197485AW8</td>
<td>$1,100,000</td>
<td>4.05%</td>
</tr>
<tr>
<td>12/01/2015</td>
<td>197485AX6</td>
<td>$1,315,000</td>
<td>4.10%</td>
</tr>
<tr>
<td>12/01/2030</td>
<td>197485AY4</td>
<td>$10,300,000</td>
<td>4.25%</td>
</tr>
</tbody>
</table>

The new refunding bonds advance refund two outstanding issues of bonds. The issuer executes two separate advance refunding documents, titled “Escrow Deposit Agreement – 1998 Issue” and “Escrow Deposit Agreement – 2001 Issue,” in connection with the refunded bonds. The advance refunding documents were delivered to the underwriter on June 30, 2009. The advance refunded issues are as follows:
## Hospital and Higher Education Facilities Authority of Emma County Hospital Revenue Bonds (Emma Memorial Hospital Issue), Series 1998

<table>
<thead>
<tr>
<th>Maturity Date</th>
<th>Refunded?</th>
<th>Original CUSIP</th>
<th>New CUSIP (Refunded Portion)</th>
<th>New CUSIP (Unrefunded Balance)</th>
</tr>
</thead>
<tbody>
<tr>
<td>12/01/2009</td>
<td>No</td>
<td>197484A91</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>12/01/2010</td>
<td>No</td>
<td>197484A93</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>12/01/2011</td>
<td>No</td>
<td>197484AA5</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>12/01/2012</td>
<td>No</td>
<td>197484AB7</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>12/01/2013</td>
<td>No</td>
<td>197484AC9</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>12/01/2014</td>
<td>No</td>
<td>197484AD2</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>12/01/2015</td>
<td>No</td>
<td>197484AE4</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>12/01/2016</td>
<td>Yes</td>
<td>197484GA9</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>12/01/2017</td>
<td>Yes</td>
<td>197484GB7</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>12/01/2023</td>
<td>Yes</td>
<td>197484GC5</td>
<td>No</td>
<td>No</td>
</tr>
</tbody>
</table>

## Hospital and Higher Education Facilities Authority of Emma County Hospital Special Revenue Bonds (Emma Obligated Group Issue), Series 2001

<table>
<thead>
<tr>
<th>Maturity Date</th>
<th>Refunded?</th>
<th>Original CUSIP</th>
<th>New CUSIP (Refunded Portion)</th>
<th>New CUSIP (Unrefunded Balance)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/01/2010</td>
<td>No</td>
<td>197484A93</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>1/01/2011</td>
<td>No</td>
<td>197484AA5</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>1/01/2012</td>
<td>No</td>
<td>197484AB7</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>1/01/2013</td>
<td>No</td>
<td>197484AC9</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>1/01/2014</td>
<td>Partial</td>
<td>197484UV4</td>
<td>197486XG4</td>
<td>197486XL7</td>
</tr>
<tr>
<td>1/01/2020</td>
<td>Partial</td>
<td>197484UW2</td>
<td>197486XH2</td>
<td>197486XM5</td>
</tr>
<tr>
<td>1/01/2026</td>
<td>Partial</td>
<td>197484UX0</td>
<td>197486XJ0</td>
<td>197486XN3</td>
</tr>
<tr>
<td>1/01/2031</td>
<td>Partial</td>
<td>197484UY9</td>
<td>197486XK9</td>
<td>197486XP1</td>
</tr>
</tbody>
</table>
ADVANCE REFUNDING SAMPLE XML MESSAGES

Data Message

<?xml version="1.0" encoding="UTF-8"?>
    <Submission SubmissionType="AdvanceRefundingDisclosure" SubmissionStatus="Publish"/>
    <Offering OfferingType="Bond">
        <Issue IssueType="Refunded" SecurityType="CUSIP-9">
            <UnderlyingSecurities>
                <Security OriginalCUSIP9OfRefundedSecurity="197484GA9"/>
                <Security OriginalCUSIP9OfRefundedSecurity="197484GB7"/>
                <Security OriginalCUSIP9OfRefundedSecurity="197484GC5"/>
                <Security OriginalCUSIP9OfRefundedSecurity="197486XH2" NewCUSIP9OfRefundedSecurity="197486XH2" NewCUSIP9OfUnrefundedBalance="197486XM5"/>
                <Security OriginalCUSIP9OfRefundedSecurity="197486XJ0" NewCUSIP9OfRefundedSecurity="197486XJ0" NewCUSIP9OfUnrefundedBalance="197486XN3"/>
            </UnderlyingSecurities>
        </Issue>
    </Offering>
    <Underwriter ManagingUnderwriterMSRBID="A99992"/>
</DisclosureMessage>
Document Message

ADVANCE REFUNDING DOCUMENT # 1
<?xml version="1.0" encoding="UTF-8"?>
  <Submission SubmissionType="AdvanceRefundingDisclosure" SubmissionStatus="Publish">
    <SubmissionIdentifier>12345678</SubmissionIdentifier>
  </Submission>
    <CUSIP9IdentifierOfRefundingIssue>197485AY4</CUSIP9IdentifierOfRefundingIssue>
    <OriginalCUSIP9OfRefundedSecurity>197484GA9</OriginalCUSIP9OfRefundedSecurity>
    <OriginalCUSIP9OfRefundedSecurity>197484GB7</OriginalCUSIP9OfRefundedSecurity>
    <OriginalCUSIP9OfRefundedSecurity>197484GC5</OriginalCUSIP9OfRefundedSecurity>
    <UnderlyingFiles>
      <File DateReceivedFromIssuer="2009-06-30"/>
    </UnderlyingFiles>
  </Document>
  <Underwriter ManagingUnderwriterMSRBID="A99992"/>
</DisclosureMessage>

ADVANCE REFUNDING DOCUMENT # 2
<?xml version="1.0" encoding="UTF-8"?>
  <Submission SubmissionType="AdvanceRefundingDisclosure" SubmissionStatus="Publish">
    <SubmissionIdentifier>12345678</SubmissionIdentifier>
  </Submission>
    <CUSIP9IdentifierOfRefundingIssue>197485AY4</CUSIP9IdentifierOfRefundingIssue>
    <OriginalCUSIP9OfRefundedSecurity>197484UV4</OriginalCUSIP9OfRefundedSecurity>
    <OriginalCUSIP9OfRefundedSecurity>197484UW2</OriginalCUSIP9OfRefundedSecurity>
    <OriginalCUSIP9OfRefundedSecurity>197484UX0</OriginalCUSIP9OfRefundedSecurity>
    <OriginalCUSIP9OfRefundedSecurity>197484UY9</OriginalCUSIP9OfRefundedSecurity>
    <UnderlyingFiles>
      <File DateReceivedFromIssuer="2009-06-30"/>
    </UnderlyingFiles>
  </Document>
  <Underwriter ManagingUnderwriterMSRBID="A99992"/>
</DisclosureMessage>
APPENDIX

FORM G-32

Items to be provided pursuant to Rule G-32(b)(vi)(A)

I. Underwriter/Submitter Identification
   A. Name of managing underwriter
   B. MSRB number of managing underwriter
   C. Name of Submitter Company, if different than managing underwriter
   D. MSRB number of Submitter Company, if different than managing underwriter
   E. Name of individual making submission
   F. Contact information for individual making submission

II. Submission Information
   A. Submission type (primary market disclosure or advance refunding submission)
   B. Submission identifier, only for supplements, modifications or amendments of prior submission

III. Information for Offering
   A. Offering type (debt or municipal fund security)
   B. Underwriting spread/placement fee, for negotiated offerings if not included in official statement
   C. Notice of cancellation of offering, if applicable

III. Information for Each Issue in Offering Underwritten by Underwriter
   A. Issue type (new issue, remarketing)
   B. Security type (CUSIP-based issue, commercial paper with 6-digit CUSIP information, ineligible for CUSIP number assignment)
   C. Full issuer name
   D. Full issue description
   E. State, only for issues ineligible for CUSIP number assignment and municipal fund securities
   F. Issue dated date
   G. Closing date
   H. Original dated date, for remarketings with new dated date assigned
   I. Original nine-digit CUSIP number of remarshaled issue, only if new CUSIP numbers assigned to a remarshaled issue
   J. Six-digit CUSIP number, for commercial paper issues
   K. Whether the issuer or other obligated persons have agreed to undertake to provide continuing disclosure information as contemplated by Securities Exchange Act Rule 15c2-12
   L. If there was a retail order period (as defined in Rule G-11(a)(vii)) as part of a primary offering, information indicating whether a retail order period was conducted, each date and each time (beginning and end) it was conducted

III. Information for Each Security in Issue Underwritten by Underwriter
   A. Nine-digit CUSIP number, except issues with no CUSIP numbers, issues of commercial paper, or issues of municipal fund securities
   B. Maturity date
   C. Coupon (i.e., interest rate)
   D. Maturity principal amount, except issues of commercial paper or issues of municipal fund securities
   E. Initial offering price or yield, except issues of commercial paper or issues of municipal fund securities
   F. Partial underwriting indicator, if less than full principal amount of security is underwritten by underwriter
G. Security dated date, only for securities ineligible for CUSIP number assignment and if different from issue dated date

IV. Information for Issue Not Underwritten by Underwriter (if any)
A. Nine-digit CUSIP number for latest maturity of issue, only if a different underwriter underwrote an entire issue that is part of the offering

V. Advance Refunding Information
A. Advance refunding indicator
B. Original nine-digit CUSIP numbers of refunded securities
C. Maturity date of refunded securities
D. Refunded issuer name, only if refunded issue has no CUSIP numbers
E. Refunded issuer’s state, only if refunded issue has no CUSIP numbers
F. Refunded issue description, only if refunded issue has no CUSIP numbers
G. Newly assigned nine-digit CUSIP numbers of refunded securities, if any
H. Newly assigned nine-digit CUSIP numbers of unrefunded balances, if any

V. Document Information
A. Document type (official statement, preliminary official statement, advance refunding document)
B. Date document received from issuer
C. Notice of OS unavailability under Rule G-32(b)(i)(B)(2)(A) or (b)(i)(C)(1), if applicable
D. Notice of no OS submission for limited offering under SEC Rule 15c2-12(d)(1)(i), if applicable
E. Contact information for obtaining limited offering OS, if applicable
F. Notice of POS unavailability under Rule G-32(b)(i)(D)(2), if applicable