Specifications for MSRB Continuing Disclosure Subscription Service Historical Data Product
(EMMA Continuing Disclosure Subscriber Manual)

Version 1.3
# Revision History

<table>
<thead>
<tr>
<th>Version</th>
<th>Date</th>
<th>Description of Changes</th>
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<tbody>
<tr>
<td>1.0</td>
<td>June 2012</td>
<td>Initial version.</td>
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<tr>
<td>1.1</td>
<td>January 2015</td>
<td>Summary of Changes: Asset-Backed Securities Disclosure Filings (Various):</td>
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<td>- Submission Process and Disclosure Types</td>
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<td>- Data Message – Disclosure Indexing Data</td>
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<td>- Figure 2 – Data Message &amp; Type Definition Schemas</td>
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<td>- Type Definition Schema – Disclosure Indexing Data Details / Asset Backed Securities Disclosure Category</td>
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<td>- Figure 3: Data Tag Glossary</td>
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<td>- Figure 4: Sample XML Messages</td>
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<tr>
<td>1.2</td>
<td>August 2015</td>
<td>Updated the Resources and Support section to reflect the change in hours of operation for Email Support.</td>
</tr>
<tr>
<td>1.3</td>
<td>November 2018</td>
<td>Incorporated new required event notices related to financial obligations under amended SEC Rule 15c2-12 effective February 27, 2019</td>
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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

Municipal Securities Rulemaking Board
1300 I Street NW, Suite 1000
Washington, DC 20005
Tel: 202-838-1500
Fax: 202-898-1500
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 Continuing Disclosure Historical Product is a data product consisting of historical documents and related indexing information as provided by the Continuing Disclosure Subscription Service of the MSRB’s Electronic Municipal Market Access (EMMA®) system.

This specifications manual provides the hierarchical arrangement of the data and document structure as it appears on the storage device (such as CD, DVD, or external hard drive) and the data specifications for the EMMA Continuing Disclosure Subscription Service.

The Continuing Disclosure Historical Product may be purchased in any consecutive twelve-month data set. The MSRB Historical Product Purchase Agreement and the CUSIP Service Bureau License Verification Form must be completed prior to delivery of the historical data product.

Instructions to purchase the Continuing Disclosure Subscription Service or the Continuing Disclosure Historical Product are available on www.msrb.org.
Background

The *EMMA Continuing Disclosure Subscription Service* provides a subscriber real-time dissemination of documents, including financial-based, event-based and asset-backed securities disclosures as well as real-time information on designated accounting standards for submitting financial statements. In July 2009, the MSRB implemented a permanent continuing disclosure service to receive electronic submissions of, and to make publicly available access to continuing disclosure documents and related information through *EMMA Continuing Disclosure Submission Service*.

Disclosure documents and related indexing information submitted to the *EMMA Continuing Disclosure Service* are made available publicly on the EMMA® website.

The *Continuing Disclosure Historical Product*, which became available in June 2012, provides an avenue for obtaining the same data set of documents and related indexing information that were published previously on a real-time basis through the *Continuing Disclosure Subscription Service*.
EMMA Subscription Service

Data and Document Delivery
The Continuing Disclosure Historical Product provides PDF files of continuing disclosure documents, and XML files of related indexing data, submitted to the EMMA Continuing Disclosure Service through both the EMMA web interface and the automated submission interface.

Figure 1 shows the hierarchical structure and relationship of data and documents stored on the historical subscription storage device.

Historical indexing data along with associated disclosure documents are available on a storage device with the indexing data organized in a hierarchically directory based on when the submission transaction date and time occurred. (e.g., SubmissionTransactionDateTime = "2008-03-20T00:00:00").

The disclosure documents may be identified and associated with the indexing data via the File ID reference (e.g., FileIdentifier="MS223987-2").

Overview of Schemas and Data Tags
The Continuing Disclosure Historical Product uses similar schemas and data tags as the EMMA Continuing Disclosure Subscription Service. This document refers to a series of figures and tables providing more detailed information about the EMMA Continuing Disclosure Subscription Service. An XML data schema and a type definition schema are included in Figure 2. A data tag glossary is provided in Figure 3.

Data Message
Data elements disseminated through the continuing disclosure subscription service have been organized in a hierarchical relationship into the following categories: (i) subscriber data; (ii) submission data; (iii) disclosure indexing data; (iv) contact information data; and (v) document data. These categories, and the available data tags applicable to each category, are included in Figure 3 and are also summarized below:

- **Subscriber Data**
  (i) submission transaction count (indicates number of submissions in data message)
  (ii) replay date (if data replay requested by subscriber, indicates period of data replay)
Submission Data

(i) submission identifier (uniquely identifies submission being disseminated)
(ii) submission transaction date and time (indicates EMMA posting date and time)

Disclosure Indexing Data

(i) disclosure type (financial/operating filing, event filing, asset-backed securities filing, disclosure without indexing information for pre-July 1, 2009 undertaking)
(ii) financial/operating disclosure category (multiple categories may be selected from: ‘annual financial information/operating data under Rule 15c2-12’, ‘audited financial statements or CAFR under Rule 15c2-12’, ‘failure to provide annual financial information as required under Rule 15c2-12’, ‘quarterly/monthly financial information’, ‘change in fiscal year/timing of annual disclosure’, ‘change in accounting standard’, ‘interim/additional financial information/operating data’, ‘budget’, ‘investment/debt/financial policy’, ‘information provided to rating agency, credit/liquidity provider or other third-party’, ‘consultant reports’, ‘other financial/operating data’)
(iii) event disclosure category (multiple categories may be selected from: ‘principal /interest payment delinquencies’, ‘non-payment related defaults’, ‘unscheduled draws on debt service reserves reflecting financial difficulties’, ‘unscheduled draws on credit enhancements reflecting financial difficulties’, ‘substitution of credit or liquidity providers, or their failure to perform’, ‘adverse tax opinion or event affecting the tax-exempt status of the security’, ‘modification to the rights of security holders’, ‘bond call’, ‘defeasance’, ‘release, substitution or sale of property securing repayment of the security’, ‘rating change’, ‘failure to provide event filing information as required’, ‘tender offer / secondary market purchases’, ‘merger / consolidation / acquisition and sale of all or substantially all assets’, ‘bankruptcy, insolvency, receivership or similar event’, ‘successor, additional or change in trustee’, ‘amendment to continuing disclosure undertaking’, ‘change in obligated person’, ‘notice to investor pursuant to bond documents’, ‘communication from the Internal Revenue Service’, ‘bid for auction rate or other securities’, ‘capital or other financing plan’, ‘litigation or enforcement action’, ‘change of tender agent, remarketing agent or other on-going party’, ‘derivative or other similar transaction’, ‘other event-based disclosures’, ‘merger consolidation reorganization insolvency bankruptcy’, ‘change of trustee tender agent remarketing agent or other ongoing party’, ‘financial obligation incurrence or agreement’, ‘financial obligation event reflecting financial difficulties’)
(iv) asset-backed securities disclosure category (only one will be selected from: ‘initial asset backed securities disclosure SEC Rule 15Ga1c1’, ‘quarterly asset backed securities disclosure SEC Rule 15Ga1c2i’, ‘annual asset backed securities disclosure SEC Rule15Ga1c2ii’, ‘other asset backed securities disclosure’)
(v) disclosure sub category types for filings including event disclosure categories ‘financial obligation – incurrence or agreement’, ‘financial obligation - event reflecting financial difficulties’. One or more of following:
FinancialObligationIncurrence_DebtObligation
FinancialObligationIncurrence_Guarantee_DebtObligation
FinancialObligationIncurrence_Guarantee_DerivativeInstrument
FinancialObligationIncurrence_DerivativeInstrument
FinancialObligationEventReflectingFinancialDifficulties_Default
FinancialObligationEventReflectingFinancialDifficulties_EventOfAcceleration
FinancialObligationEventReflectingFinancialDifficulties_TerminationEvent
FinancialObligationEventReflectingFinancialDifficulties_ModificationOfTerms
FinancialObligationEventReflectingFinancialDifficulties_Other
(vi) other voluntary disclosure description (for financial/operating data disclosures, event-based disclosures and asset-backed securities disclosures)
(vii) financial/operating period type (for financial/operating disclosure – year ended, quarter ended, month beginning, other period beginning, as of)
(ix) financial/operating disclosure date (for financial/operating disclosure, date of financial/operating period type)
(x) financial/operating disclosure second date (for financial/operating disclosure, end date of financial/operating period type if ‘other period beginning’ selected)
(xi) event disclosure date (for event disclosure – date of document if different from date document submitted to EMMA)
(xii) period type (for all asset-backed securities disclosure categories, only ‘other period beginning’)
(xiii) disclosure period (for all asset-backed securities disclosure categories, period dates with ‘beginning date’ and ‘ending date’ for ‘other period beginning’)
(xiv) CUSIP-6 securities pointer (six-digit CUSIP number(s) – disclosure applicable to all nine-digit CUSIP numbers beginning with this six digits)
(xv) securities (nine-digit CUSIP number(s) to which disclosure is applicable)

● **Contact Information Data**
(i) contact organization type (issuer, obligated person, submitter)
(ii) contact organization name
(iii) contact first name
(iv) contact last name
(v) contact title
(vi) contact phone number
(vii) contact phone number extension
(viii) contact address
(ix) contact city
(x) contact state
(xi) contact zip code
(xii) contact e-mail address

● **Document Data**
(i) document identifier (uniquely identifies submission being disseminated)
(ii) document posting date (date first file of document posted to public on EMMA)
(iii) document posting operation indicator (if document modifies a previously submitted document – append to posted document, replace posted document)

Examples of XML files disseminating data submissions for various types of continuing disclosures are included in Figure 4.

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**Contact Information Data**

(i) contact organization type (issuer, obligated person, submitter)
(ii) contact organization name
(iii) contact first name
(iv) contact last name
(v) contact title
(vi) contact phone number
(vii) contact phone number extension
(viii) contact address
(ix) contact city
(x) contact state
(xi) contact zip code
(xii) contact e-mail address

**Document Data**

(i) document identifier (uniquely identifies submission being disseminated)
(ii) document posting date (date first file of document posted to public on EMMA)
(iii) document posting operation indicator (if document modifies a previously submitted document – append to posted document, replace posted document)
**Figure 1: Storage of Historical Information**

Data and Document Hierarchical Profile

Indexing data and document files are hierarchically arranged on the storage device by the year (YYYY) then by the month (MM) and the day (DD).

- The “Doc” directory contains the disclosure documents in PDF format. The PDF files are uniquely named by their File ID (e.g., “EA123456.pdf”).
- The “Index Data” directory contains indexing information about the disclosure documents in XML format. The XML files are uniquely named by their transaction ID (e.g., “EP7891023.xml”).

Some submissions have multiple submission events (“transactions”) because the submitter returned and modified the original submission one or more times. Each transaction is recorded in a separate XML file in the “Index Data” directory. Multiple transactions for the same submission will share the same value in the ‘SubmissionIdentifier’ field.

Where multiple transactions exist for a single submission, the most recent transaction will contain the complete, up-to-date information and the earlier transactions can be discarded or overwritten completely. The ‘SubmissionTransactionDateTime’ field can be used to determine which XML file contains the transaction with the most recent transaction for that submission.

Some dates in the “Doc” or “Index Data” directories will not be populated with XML files, documents, or both due to submissions not being received on that date.
Figure 2: XML Data Tag Structure

The following is a listing of possible data tags that may be included in XML data files depending on the specifics of the disclosure being reported.
Figure 3: XML Data Message Category Type Overview

Below are the information categories and allowed values associated with subscription messages with specific emphasis on the details of the Disclosure Categories.
Table 1: Data Tag Glossary

The historical product has many of the same data tags as the Continuing Disclosure Web Service Interface. These data elements are organized in a hierarchical data relationship. This glossary sets out 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.

<table>
<thead>
<tr>
<th>XML Container</th>
<th>Data Tag</th>
<th>Definition</th>
<th>Data Specification</th>
</tr>
</thead>
</table>
| Submission    | Submission Identifier | Unique identifier assigned by EMMA at time of initiation of data submission (the initial submission event) and used by the submitter in connection with subsequent submission events, including document submission | Type= String{Min1,Max25}  
ex: S212345678910 |
|               | Submission Status | Indicates the intention to publish the information in the EMMA public portal or to submit as test submission – test submissions are not disseminated | Enumerated Value:  
• Publish |
|               | Submission Transaction Date Time | EMMA-assigned date and time the submission was registered in EMMA | Type=ISODateTime (CCYY-MM-DDT00:00:00)  
ex: 2008-12-01T13:30:00 |
<table>
<thead>
<tr>
<th>XML Container</th>
<th>Data Tag</th>
<th>Definition</th>
<th>Data Specification</th>
</tr>
</thead>
</table>
| Disclosure    | Disclosure Type | Indicates the type of continuing disclosure filing as follows:  
- Financial Operating Filing - Submit annual financial information under SEC Rule 15c2-12(b)(5)(i)(A) and (d)(2)(ii)(A), audited financial statements under Rule 15c2-12(b)(5)(i)(B), notice of failure to provide annual financial information under Rule 15c2-12(b)(5)(i)(D), and other voluntary financial or operating information.  
- Event Filing - Submit notice of a material event specified under SEC Rule 15c2-12(b)(5)(C) and (d)(2)(ii)(B), and any other event-based voluntary notice or disclosure with respect to municipal securities.  
- DisclosureWithoutIndexingInformationPreJuly09Undertaking - This continuing disclosure document is being submitted without indexing information in connection with securities subject to a continuing disclosure undertaking entered into prior to July 1, 2009.  
  - Unindexed continuing disclosure documents will be posted on the EMMA Portal without indexing information, but accompanied by the submitter's contact information, and also will be disseminated to EMMA's continuing disclosure subscribers together with the submitter's contact information.  
  - Filing without indexing information is strongly discouraged - Failure to provide indexing information will dramatically impact the effectiveness of your disclosure to the detriment of investors in your securities. | Enumerated Value:  
- FinancialOperatingDataDisclosure  
- EventBasedDisclosure  
- DisclosureWithoutIndexingInformationPreJuly09Undertaking  
- AssetBackedSecuritiesDisclosure |
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<th>XML Container</th>
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<th>Definition</th>
<th>Data Specification</th>
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</table>
| Disclosure    | Financial Operating Disclosure Category | Indicates the financial operating disclosure category to which the filing applies. One or more categories may apply to a single filing | Enumerated Value:  
- AnnualFinancialInformationOperatingData 15c212  
- AuditedFinancialStatementsOrCAFR15c2 12  
- FailureToProvideAnnualFinancialInformationAsRequired15c212  
- QuarterlyMonthlyFinancialInformation  
- ChangeInFiscalYearTimingOfAnnualDisclosure  
- ChangeInAccountingStandard  
- InterimAdditionalFinancialInformationOperatingData  
- Budget  
- InvestmentDebtFinancialPolicy  
- InformationToBeProvidedToRatingAgencyOrCreditLiquidityProviderOrOtherThirdPartyConsultantReport  
- OtherFinancialVoluntaryInformation |
<table>
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<tr>
<th>Event Disclosure Category</th>
<th>XML Container</th>
<th>Data Tag</th>
<th>Definition</th>
<th>Data Specification</th>
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<tbody>
<tr>
<td></td>
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<td></td>
<td>Indicates the event-based disclosure categories to which the filing applies. One or more categories may apply to a single filing ex: a filing may include a notice of Bond Call and Defeasance</td>
<td>Enumerated Value:</td>
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<td></td>
<td>• PrincipalInterestPaymentDelinquency</td>
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<td>• NonPaymentRelatedDefault</td>
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<td>• UnscheduledDrawOnDebtServiceReserve ReflectingFinancialDifficulties</td>
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<td></td>
<td>• UnscheduledDrawOnCreditEnhancement ReflectingFinancialDifficulties</td>
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<td>• SubstitutionOfCreditOrLiquidityProviderOrItsFailureToPerform</td>
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<td>• AdverseTaxOpinionOrEventAffectingTheTaxExemptStatusOfTheSecurity</td>
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<td></td>
<td>• ModificationToTheRightsOfSecurityHolders</td>
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<td></td>
<td>• BondCall</td>
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<td>• Defeasance</td>
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<td>• ReleaseOrSubstitutionOrSaleOfPropertySecuringRepaymentOfTheSecurity</td>
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<td>• RatingChange</td>
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<td>• TenderOfferSecondaryMarketPurchases</td>
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<td></td>
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<td></td>
<td>• MergerConsolidationAcquisitionAndSaleOfAllOrSubstantiallyAllAssets</td>
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<td>• BankruptcyInsolvencyReceivershipOrSimilarEvent</td>
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<td>• SuccessorAdditionalOrChangeInTrustee</td>
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<td>• FailureToProvideEventFilingInformation</td>
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<td>• AmendmentToContinuingDisclosureUnderTaking</td>
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<td>• ChangeInObligatedPerson</td>
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<td></td>
<td>• NoticeToInvestorsPursuantToBondDocuments</td>
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<td>• CommunicationFromTheInternalRevenueService</td>
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<td></td>
<td>• BidForAuctionRateOrOtherSecurities</td>
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<td></td>
<td>• CapitalOrOtherFinancingPlan</td>
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<td>• LitigationEnforcementAction</td>
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<td>• ChangeOfTenderAgentRemarketingAgentOrOtherOnGoingParty</td>
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<td>• ChangeOfTrusteeTenderAgentRemarketingAgentOrOtherOnGoingParty</td>
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<td></td>
<td>• MergerConsolidationReorganizationInsolvencyBankruptcy</td>
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<td></td>
<td>• DerivativeOrOtherSimilarTransaction</td>
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<td></td>
<td>• OtherEventVoluntaryInformation</td>
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<td>• BankLoanAlternativeFinancingFormerlyVoluntary</td>
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<td>• FinancialObligationIncurrence</td>
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<td></td>
<td>• FinancialObligationEventReflectingFinancialDifficulties</td>
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<tr>
<td>XML Container</td>
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<td>Definition</td>
<td>Data Specification</td>
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<tr>
<td>Asset-Backed Disclosure Category</td>
<td>Indicates the asset-based securities disclosure categories to which the filing applies. Only one category may apply to a single filing</td>
<td>- InitialAssetBackedSecuritiesDisclosureSECRule15Ga1c1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Other Voluntary Disclosure Description</td>
<td>Indicates the description of a disclosure filing for Financial Operating Disclosure, Event Disclosure or Asset-Backed Securities Disclosure</td>
<td>Type= String(Min1,Max140)</td>
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<td></td>
</tr>
<tr>
<td></td>
<td>For Disclosures with Event Disclosure Category of Event Disclosure Category with the values FinancialObligationIncurrence or FinancialObligationEventReflectingFinancialDifficulties will have one or more of these</td>
<td>- FinancialObligationIncurrence_DebtObligation</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Period Type</td>
<td>For Financial Operating Filings and Asset-Backed Securities Filings, is used to indicate the type of period covered by the filing. The period type is used in combination with Disclosure Period</td>
<td>Enumerated Value:</td>
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- YearEnded
- QuarterEnded
- MonthBeginning
- OtherPeriodBeginning
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<th>XML Container</th>
<th>Data Tag</th>
<th>Definition</th>
<th>Data Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Disclosure Period</td>
<td>For Financial Operating Filings, used in conjunction with Period Type to indicate the applicable beginning and/or end date(s) For Event Filings, used without Period Type to indicate as of date of submitted document if other than the actual date of submission</td>
<td>ex: Financial Operating Filing – Audited Financial Statements or CAFR (Rule 15c2-12) – Period Type &lt;OtherPeriodBeginning&gt; &lt;Beginning Date, 2009-06-31&gt; &lt;Ending Date, 2009-12-31&gt; ex: Event Filing – Bond Call -- &lt;DisclosurePeriod AsOfDate=&quot;2009-12-31&quot; /&gt; ex: Asset-Backed Securities Filing – &lt;DisclosurePeriod PeriodType=&quot;OtherPeriodBeginning&quot; BeginningDate=&quot;2013/12/31&quot; EndingDate=&quot;2014-12-31&quot; /&gt;</td>
<td></td>
</tr>
<tr>
<td>Security Type</td>
<td>Security</td>
<td>Indicates the disclosure as being CUSIP9 based, Commercial Paper, nonCUSIP (Ineligible for CUSIP Number Assignment) or Municipal Fund Security (529 Plan or Other Municipal Fund Security)</td>
<td>CUSIP9 String{Min9,Max9} ex: 123456AB7 IF :Security Type is CUSIP9, or CUSIP6 String{Min6,Max6} ex: 123456 IF : Security Type is CommercialPaper</td>
</tr>
<tr>
<td>Securities</td>
<td>Security</td>
<td>Indicates the nine-digit CUSIP number(s) to which the disclosure applies if the Security Type is CUSIP9, or the six-digit CUSIP6 number(s) if the Security Type is CommercialPaper. If the Security Type is nonCUSIP or Municipal Fund Security, the security descriptors of Issuer Name, Issue Description, Issuer State and Issue Dated Date will be included as appropriate</td>
<td>Enumerated Value: • CUSIP9 • CommercialPaper • nonCUSIP • MunicipalFundSecurity</td>
</tr>
<tr>
<td>Document</td>
<td>Document Identifier</td>
<td>EMMA-assigned unique identifier for a document of specific document type</td>
<td>Type= String{Min1,Max25} ex: 2535</td>
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<tr>
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<td>Document Status</td>
<td>Indication of the active state of a document consisting of current and archived</td>
<td>Enumerated Value: • Current • Archived • Removed</td>
</tr>
<tr>
<td></td>
<td>Document Posting Date</td>
<td>The date the document was posted to the public on EMMA</td>
<td>Type= ISODate (CCYY-MM-DD) ex: 2008-12-08</td>
</tr>
<tr>
<td></td>
<td>Document Archive Date</td>
<td>The date the document was moved to the EMMA archive</td>
<td>Type= ISODate (CCYY-MM-DD) ex: 2008-12-08</td>
</tr>
<tr>
<td></td>
<td>Document Remove Date</td>
<td>The date the document was removed from a submission on the EMMA continuing disclosure service</td>
<td>Type= ISODate (CCYY-MM-DD) ex: 2008-12-08</td>
</tr>
<tr>
<td>File</td>
<td>File Identifier</td>
<td>EMMA-assigned unique identifier for electronic file(s) constituting the submitted document</td>
<td>Type= String{Min1,Max25} ex: MS223986-1</td>
</tr>
<tr>
<td>XML Container</td>
<td>Data Tag</td>
<td>Definition</td>
<td>Data Specification</td>
</tr>
<tr>
<td>---------------</td>
<td>--------------------------</td>
<td>---------------------------------------------------------------------------</td>
<td>--------------------------------------------------------</td>
</tr>
</tbody>
</table>
|               | File Order               | If a document consists of more than one electronic file, provides file sequence information | Integer<br>
  *ex: 24*                                               |
|               | File Status              | Indication of the active state of a file consisting of current and archived | Enumerated Value:<br>
  - Current<br>
  - Archived<br>
  - Removed                                              |
|               | File Posting Date        | The date the file was posted to the public on EMMA                         | Type= ISODate (CCYY-MM-DD)<br>
  *ex: 2008-12-08*                                       |
|               | File Archive Date        | The date the file was moved to the EMMA archive                             | Type= ISODate (CCYY-MM-DD)<br>
  *ex: 2008-12-08*                                       |
|               | File Remove Date         | The date the file was removed from a submission on the EMMA continuing disclosure service | Type= ISODate (CCYY-MM-DD)<br>
  *ex: 2008-12-08*                                       |
| Contact       | Contact Type             | Indicates organization type of contact that the public should contact with questions about the submitted disclosure | Enumerated Value:<br>
  - Issuer<br>
  - Obligor                                              |
| Information   | Contact Organization Name| Full name of the contact organization that the public should contact with questions about the submitted disclosure | Type= String(Min1,Max140)<br>
  *ex: MuniBond Dealer*                                  |
|               | Contact First Name       | The first name of the contact person that the public should contact with questions about the submitted disclosure | Type= String(Min1,Max25)<br>
  *ex: Emma*                                              |
|               | Contact Last Name        | The last name of the contact person that the public should contact with questions about the submitted disclosure | Type= String(Min1,Max25)<br>
  *ex: Jones*                                             |
|               | Contact Title            | The title of the contact person that the public should contact with questions about the submitted disclosure | Type= String(Min1,Max15)<br>
  *ex: 703-555-2222*                                      |
|               | Contact Phone Number     | The phone number of the contact person that the public should contact with questions about the submitted disclosure | Type= String(Min1,Max6)<br>
  *ex: 1235*                                              |
|               | Contact Number Phone     | The extension of the phone number (if any) of the contact person that the public should contact with questions about the submitted disclosure | Type= String(Min1,Max140)<br>
  *ex: 123 Security Road*                                 |
|               | Contact Address          | The street address or post office box of the contact person that the public should contact with questions about the submitted disclosure | Type= String(Min1,Max25)<br>
  *ex: Alexandria*                                       |
|               | Contact City             | The address city of the contact person that the public should contact with questions about the submitted disclosure | Type= String;StateCode;2 (pattern value=[A-Z][2,2])<br>
  *ex: VA*                                                |
|               | Contact State            | The address state of the contact person that the public should contact with questions about the submitted disclosure | Type= String(Min1,Max15)<br>
  *ex: 22301-5555*                                        |
|               | Contact Zip Code         | The address zip code of the contact person that the public should contact with questions about the submitted disclosure | Type= String(Min1,Max50)<br>
  *ex: issuer@issuer.com*                                 |
|               | Contact Email Address    | The email address of the contact person that the public should contact with questions about the submitted disclosure | Type= String(Min1,Max140)<br>
  *ex: MuniBond Dealer*                                  |
Figure 4: XML Data Message Schema

Below is the Data Message schema describing the base structural containers and types. This schema is universally applicable to Data Messages for Continuing Disclosure submissions.

Data Message Schema

```xml
<?xml version="1.0" encoding="utf-8"?>
<xs:schema
xmlns:tns="http://emma.msrb.org/schemas/subscriptionmessages/continuingdisclosure/types"
elementFormDefault="qualified"
targetNamespace="http://emma.msrb.org/schemas/subscriptionmessages/continuingdisclosure/types"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:element name="ContinuingDisclosureSubscriptionDataMessage"
type="tns:ContinuingDisclosureSubscriptionDataMessageType" />
  <xs:complexType name="ContinuingDisclosureSubscriptionDataMessageType">
    <xs:sequence>
      <xs:element minOccurs="0" maxOccurs="unbounded" name="ContinuingDisclosureSubmission" type="tns:ContinuingDisclosureSubscriptionDetailsType" />
    </xs:sequence>
    <xs:attribute name="SubmissionTransactionCount" type="xs:integer" />
    <xs:attribute name="ReplayDate" type="xs:date" />
  </xs:complexType>
  <xs:complexType name="ContinuingDisclosureSubmissionDetailsType">
    <xs:sequence>
      <xs:element minOccurs="0" maxOccurs="1" name="DisclosureIndexingData" type="tns:DisclosureIndexingDataDetailsType" />
      <xs:element minOccurs="0" maxOccurs="unbounded" name="ContactInformation" nillable="true" type="tns:ContactInformationType" />
      <xs:element minOccurs="0" maxOccurs="unbounded" name="Document" nillable="true" type="tns:DocumentDetailsType" />
      <xs:attribute name="SubmissionIdentifier" type="xs:string" />
      <xs:attribute name="SubmissionStatus" type="tns:SubmissionStatusType" />
      <xs:attribute name="SubmissionTransactionDateTime" type="xs:dateTime" />
    </xs:sequence>
  </xs:complexType>
  <xs:complexType name="DisclosureIndexingDataDetailsType">
    <xs:sequence>
      <xs:element minOccurs="0" maxOccurs="unbounded" name="Disclosure" type="tns:DisclosureDetailsType" />
      <xs:element minOccurs="0" maxOccurs="1" name="Securities" type="tns:SecuritiesDetailsType" />
    </xs:sequence>
  </xs:complexType>
  <xs:complexType name="DisclosureDetailsType">
    <xs:sequence>
      <xs:element minOccurs="0" maxOccurs="1" name="DisclosurePeriod" type="tns:DisclosurePeriodType" />
      <xs:element minOccurs="0" maxOccurs="unbounded" name="DisclosureSubCategory" type="tns:DisclosureSubCategoryType" />
    </xs:sequence>
    <xs:attribute name="DisclosureType" type="tns:DisclosureTypes" />
  </xs:complexType>
</xs:schema>
```
<xs:attribute name="FinancialOperatingDisclosureCategory" type="tns:FinancialOperatingDisclosureCategoryType" />
<xs:attribute name="EventDisclosureCategory" type="tns:EventDisclosureCategoryType" />
<xs:attribute name="AssetBackedSecuritiesDisclosureCategory" type="tns:AssetBackedSecuritiesDisclosureCategoryType" />
<xs:attribute name="OtherVoluntaryDisclosureDescription" type="xs:string" />
</xs:complexType>
<xs:complexType name="DisclosurePeriodType">
<xs:attribute name="PeriodType" type="tns:PeriodDetailsType" />
<xs:attribute name="AsOfDate" type="xs:date" />
<xs:attribute name="BeginningDate" type="xs:date" />
<xs:attribute name="EndingDate" type="xs:date" />
</xs:complexType>
<xs:simpleType name="PeriodDetailsType">
<xs:restriction base="xs:string">
<xs:enumeration value="YearEnded" />
<xs:enumeration value="QuarterEnded" />
<xs:enumeration value="MonthBeginning" />
<xs:enumeration value="OtherPeriodBeginning" />
</xs:restriction>
</xs:simpleType>
<xs:complexType name="DisclosureSubCategoryType">
<xs:attribute name="Name" type="tns:DisclosureSubCategoryName" use="required" />
</xs:complexType>
<xs:simpleType name="DisclosureSubCategoryName">
<xs:restriction base="xs:string">
<xs:enumeration value="FinancialObligationIncurrence_DebtObligation" />
<xs:enumeration value="FinancialObligationIncurrence_Guarantee_DebtObligation" />
<xs:enumeration value="FinancialObligationIncurrence_Guarantee_DerivativeInstrument" />
<xs:enumeration value="FinancialObligationIncurrence_DerivativeInstrument" />
<xs:enumeration value="FinancialObligationEventReflectingFinancialDifficulties_Default" />
<xs:enumeration value="FinancialObligationEventReflectingFinancialDifficulties_EventOfAcceleration" />
<xs:enumeration value="FinancialObligationEventReflectingFinancialDifficulties_TerminationEvent" />
<xs:enumeration value="FinancialObligationEventReflectingFinancialDifficulties_ModificationOfTerms" />
<xs:enumeration value="FinancialObligationEventReflectingFinancialDifficulties_Other" />
</xs:restriction>
</xs:simpleType>
<xs:simpleType name="DisclosureTypes">
<xs:restriction base="xs:string">
<xs:enumeration value="FinancialOperatingDataDisclosure" />
<xs:enumeration value="EventBasedDisclosure" />
<xs:enumeration value="DisclosureWithoutIndexingInformationPreJuly09Undertaking" />
<xs:enumeration value="AssetBackedSecuritiesDisclosure" />
<xs:enumeration value="BankLoan" />
</xs:restriction>
</xs:simpleType>
<xs:simpleType name="FinancialOperatingDisclosureCategoryType">
<xs:restriction base="xs:string">
<xs:enumeration value="AnnualFinancialInformationOperatingData15c212" />
<xs:enumeration value="AuditedFinancialStatementsOrCAFR15c212" />
<xs:enumeration value="FailureToProvideAnnualFinancialInformationAsRequired15c212" />
<xs:enumeration value="QuarterlyMonthlyFinancialInformation" />
<xs:enumeration value="ChangeInFiscalYearTimingOfAnnualDisclosure" />
<xs:enumeration value="ChangeInAccountingStandard" />
</xs:restriction>
</xs:simpleType>
<xs:complexType name="SecuritiesDetailsType">
  <xs:sequence>
    <xs:element name="InterimAdditionalFinancialInformationOperatingData" type="xs:string"/>
    <xs:element name="Budget" type="xs:string"/>
    <xs:element name="InvestmentDebtFinancialPolicy" type="xs:string"/>
  </xs:sequence>
</xs:complexType>

<xs:simpleType name="EventDisclosureCategoryType">
  <xs:restriction base="xs:string">
    <xs:enumeration value="PrincipalInterestPaymentDelinquency"/>
    <xs:enumeration value="NonPaymentRelatedDefault"/>
    <xs:enumeration value="UnscheduledDrawOnDebtServiceReserveReflectingFinancialDifficulties"/>
    <xs:enumeration value="UnscheduledDrawOnCreditEnhancementReflectingFinancialDifficulties"/>
    <xs:enumeration value="SubstitutionOfCreditOrLiquidityProviderOrItsFailureToPerform"/>
    <xs:enumeration value="AdverseTaxOpinionOrEventAffectingTheTaxExemptStatusOfTheSecurity"/>
    <xs:enumeration value="ModificationToTheRightsOfSecurityHolders"/>
    <xs:enumeration value="BondCall"/>
    <xs:enumeration value="Defeasance"/>
    <xs:enumeration value="ReleaseOrSubstitutionOrSaleOfPropertySecuringRepaymentOfTheSecurity"/>
    <xs:enumeration value="RatingChange"/>
    <xs:enumeration value="TenderOfferSecondaryMarketPurchases"/>
    <xs:enumeration value="MergerConsolidationAcquisitionAndSaleOfAllOrSubstantiallyAllAssets"/>
    <xs:enumeration value="BankruptcyInsolvencyReceivershipOrSimilarEvent"/>
    <xs:enumeration value="SuccessorAdditionalOrChangeInTrustee"/>
    <xs:enumeration value="FailureToProvideEventFilingInformation"/>
    <xs:enumeration value="AmendmentToContinuingDisclosure Undertaking"/>
    <xs:enumeration value="ChangeInObligatedPerson"/>
    <xs:enumeration value="NoticeToInvestorsPursuantToBondDocuments"/>
    <xs:enumeration value="CommunicationFromTheInternalRevenueService"/>
    <xs:enumeration value="BidForAuctionRateOrOtherSecurities"/>
    <xs:enumeration value="CapitalOrOtherFinancingPlan"/>
    <xs:enumeration value="LitigationEnforcementAction"/>
    <xs:enumeration value="ChangeOfTenderAgentRemarketingAgentOrOtherOnGoingParty"/>
    <xs:enumeration value="ChangeOfTrusteeTenderAgentRemarketingAgentOrOtherOnGoingParty"/>
    <xs:enumeration value="MergerConsolidationReorganizationInsolvencyBankruptcy"/>
    <xs:enumeration value="DerivativeOrOtherSimilarTransaction"/>
    <xs:enumeration value="OtherEventVoluntaryInformation"/>
    <xs:enumeration value="BankLoanAlternativeFinancingFormerlyVoluntary"/>
    <xs:enumeration value="FinancialObligationIncurrence"/>
    <xs:enumeration value="FinancialObligationEventReflectingFinancialDifficulties"/>
  </xs:restriction>
</xs:simpleType>

<xs:simpleType name="AssetBackedSecuritiesDisclosureCategoryType">
  <xs:restriction base="xs:string">
    <xs:enumeration value="InitialAssetBackedSecuritiesDisclosureSECRule15Ga1c1"/>
    <xs:enumeration value="QuarterlyAssetBackedSecuritiesDisclosureSECRule15Ga1c2i"/>
    <xs:enumeration value="AnnualAssetBackedSecuritiesDisclosureSECRule15Ga1c2ii"/>
    <xs:enumeration value="OtherAssetBackedSecuritiesDisclosure"/>
  </xs:restriction>
</xs:simpleType>
<xs:element minOccurs="0" maxOccurs="unbounded" name="Security" type="tns:SecurityDetailsType" />
<xs:sequence>
    <xs:attribute name="SecurityType" type="tns:SecurityTypes" />
</xs:complexType>
<xs:complexType name="SecurityDetailsType">
    <xs:attribute name="CUSIP9" type="xs:string" />
    <xs:attribute name="CUSIP6" type="xs:string" />
    <xs:attribute name="IssuerName" type="xs:string" />
    <xs:attribute name="IssueDescription" type="xs:string" />
    <xs:attribute name="IssuerState" type="xs:string" />
    <xs:attribute name="IssueDatedDate" type="xs:date" />
</xs:complexType>
<xs:simpleType name="SecurityTypes">
    <xs:restriction base="xs:string">
        <xs:enumeration value="CUSIP9" />
        <xs:enumeration value="CommercialPaper" />
        <xs:enumeration value="nonCUSIP" />
        <xs:enumeration value="MunicipalFundSecurity" />
    </xs:restriction>
</xs:simpleType>
<xs:complexType name="ContactInformationType">
    <xs:attribute name="ContactType" type="tns:ContactTypeDetails" />
    <xs:attribute name="ContactOrganizationName" type="xs:string" />
    <xs:attribute name="ContactFirstName" type="xs:string" />
    <xs:attribute name="ContactLastName" type="xs:string" />
    <xs:attribute name="ContactPhoneNumber" type="xs:string" />
    <xs:attribute name="ContactPhoneNumberExtension" type="xs:string" />
    <xs:attribute name="ContactAddress" type="xs:string" />
    <xs:attribute name="ContactCity" type="xs:string" />
    <xs:attribute name="ContactState" type="xs:string" />
    <xs:attribute name="ContactZipCode" type="xs:string" />
    <xs:attribute name="ContactEMailAddress" type="xs:string" />
</xs:complexType>
<xs:simpleType name="ContactTypeDetails">
    <xs:restriction base="xs:string">
        <xs:enumeration value="Issuer" />
        <xs:enumeration value="Obligor" />
        <xs:enumeration value="Submitter" />
    </xs:restriction>
</xs:simpleType>
<xs:complexType name="DocumentDetailsType">
    <xs:sequence>
        <xs:element minOccurs="0" maxOccurs="unbounded" name="UnderlyingFiles" type="tns:UnderlyingFilesType" />
    </xs:sequence>
    <xs:attribute name="DocumentIdentifier" type="xs:string" />
    <xs:attribute name="DocumentStatus" type="tns:DocumentStatusType" />
    <xs:attribute name="DocumentPostingDate" type="xs:date" />
    <xs:attribute name="DocumentArchiveDate" type="xs:date" />
    <xs:attribute name="DocumentRemoveDate" type="xs:date" />
</xs:complexType>
<xs:complexType name="UnderlyingFilesType">
    <xs:sequence>
        <xs:element minOccurs="0" maxOccurs="1" name="File" type="tns:FileDetailsType" />
    </xs:sequence>
</xs:complexType>
<xs:complexType name="FileDetailsType">
  <xs:attribute name="FileIdentifier" type="xs:string" />
  <xs:attribute name="FileStatus" type="tns:DocumentStatusType" />
  <xs:attribute name="FileOrder" type="xs:integer" />
  <xs:attribute name="FilePostingDate" type="xs:date" />
  <xs:attribute name="FileArchiveDate" type="xs:date" />
  <xs:attribute name="FileRemoveDate" type="xs:date" />
</xs:complexType>

<xs:simpleType name="DocumentStatusType">
  <xs:restriction base="xs:string">
    <xs: enumeration value="Current" />
    <xs: enumeration value="Archived" />
    <xs: enumeration value="Removed" />
  </xs: restriction>
</xs:simpleType>

<xs:simpleType name="SubmissionStatusType">
  <xs: restriction base="xs:string">
    <xs: enumeration value="Publish" />
  </xs: restriction>
</xs:simpleType>
Figure 5: Examples of XML files disseminating data submissions

Financial/ Operating Data Disclosure (CUSIP-9)

```xml
<?xml version="1.0" encoding="UTF-8"?>
<ContinuingDisclosureSubscriptionDataMessage xmlns="EMMA-SUBSCRIPTION-XML"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
    xsi:schemaLocation="...">
    <ContinuingDisclosureSubmission SubmissionIdentifier="1300" SubmissionStatus="Publish"
        SubmissionTransactionDateTime="2008-03-20T00:00:00">
        <DisclosureIndexingData>
            <Disclosure DisclosureType="FinancialOperatingDataDisclosure"
                FinancialOperatingDisclosureCategory="OtherFinancialVoluntaryInformation"
                OtherVoluntaryDisclosureDescription="Description of the nature of Other Financial Voluntary Information">
                <DisclosurePeriod AsOfDate="2008-07-01"/>
            </Disclosure>
            <Securities SecurityType="CUSIP9">
                <Security CUSIP9="617481LX1"/>
                <Security CUSIP9="617481LY2"/>
            </Securities>
            <ContactInformation ContactType="Submitter" ContactOrganizationName="Organization"
                ContactFirstName="ContactFirstName"
                ContactLastName="ContactLastname" ContactAddress="Address"
                ContactCity="City" ContactState="AL" ContactZipCode="55555"
                ContactPhoneNumber="555-55-5555" ContactEMailAddress="Issuer@mail.com"/>
            <ContactInformation ContactType="Issuer" ContactOrganizationName="Organization"
                ContactFirstName="ContactFirstName"
                ContactLastName="ContactLastname" ContactAddress="Address"
                ContactCity="City" ContactState="AL" ContactZipCode="55555"
                ContactPhoneNumber="555-55-5555" ContactEMailAddress="123@mail.com"/>
            <ContactInformation ContactType="Obligor" ContactOrganizationName="Organization"
                ContactFirstName="ContactFirstName"
                ContactLastName="ContactLastname" ContactAddress="Address"
                ContactCity="City" ContactState="AL" ContactZipCode="55555"
                ContactPhoneNumber="555-55-5555" ContactEMailAddress="123@mail.com"/>
            <Document DocumentIdentifier="1000" DocumentPostingDate="2008-12-06">
                <UnderlyingFiles>
                    <File FileIdentifier="MS223986-1" FileStatus="Current" FilePostingDate="2008-12-06"/>
                </UnderlyingFiles>
                <UnderlyingFiles>
                    <File FileIdentifier="MS223986-2" FileStatus="Current" FilePostingDate="2008-12-06"/>
                </UnderlyingFiles>
            </Document>
        </DisclosureIndexingData>
    </ContinuingDisclosureSubmission>
</ContinuingDisclosureSubscriptionDataMessage>
```
Financial /Operating Data Disclosure (Commercial Paper)

<?xml version="1.0" encoding="UTF-8"?>
<ContinuingDisclosureSubscriptionDataMessage xmlns="EMMA-SUBSCRIPTION-XML"
 xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
 xsi:schemaLocation="EMMA-SUBSCRIPTION-XML ...">
 <ContinuingDisclosureSubmission SubmissionIdentifier="1300" SubmissionStatus="Publish"
 SubmissionTransactionDateTime="2008-03-20T00:00:00">
 <DisclosureIndexingData>
  <Disclosure
   DisclosureType="FinancialOperatingDataDisclosure"
   FinancialOperatingDisclosureCategory="ChangeInAccountingStandard">
   <DisclosurePeriod AsOfDate="2008-07-01"/>
  </Disclosure>
 <Securities SecurityType="CommercialPaper">
  <Security CUSIP6="694004"/>
 </Securities>
 </DisclosureIndexingData>
 <ContactInformation ContactType="Submitter"
 ContactOrganizationName="Organization"
 ContactFirstName="ContactFirstName"
 ContactLastName="ContactLastname"
 ContactAddress="Address" ContactCity="City"
 ContactState="AL" ContactZipCode="55555"
 ContactPhoneNumber="555-55-5555"
 ContactEMailAddress="Issuer@mail.com"/>
 <Document DocumentIdentifier="1000"
 DocumentPostingDate="2008-12-06">
  <UnderlyingFiles>
   <File FileIdentifier="MS223986-1"
    FileStatus="Current" FilePostingDate="2008-12-06"/>
  </UnderlyingFiles>
 </Document>
</ContinuingDisclosureSubmission>
</ContinuingDisclosureSubscriptionDataMessage>
Financial/ Operating Data Disclosure (non-CUSIP)

<?xml version="1.0" encoding="UTF-8"?>
<ContinuingDisclosureSubscriptionDataMessage xmlns="EMMA-SUBSCRIPTION-XML"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
    xsi:schemaLocation="EMMA-SUBSCRIPTION-XML ...">
    <ContinuingDisclosureSubmission SubmissionIdentifier="1300" SubmissionStatus="Publish"
        SubmissionTransactionDateTime="2008-03-20T00:00:00">
        <DisclosureIndexingData>
            <Disclosure DisclosureType="FinancialOperatingDataDisclosure"
                FinancialOperatingDisclosureCategory="AnnualFinancialInformationOperatingData15c212">
                <DisclosurePeriod PeriodType="OtherPeriodBeginning" BeginningDate="2007-06-30" EndingDate="2008-06-30"/>
            </Disclosure>
            <Securities SecurityType="nonCUSIP">
                <Security IssuerName="Sanitary Improvement District No. 4858-1 of Emma County"
                    IssueDescription="Construction Warrants, First Series"
                    IssuerState="NE" IssueDatedDate="2009-04-26"/>
            </Securities>
        </DisclosureIndexingData>
        <ContactInformation ContactType="Submitter"
            ContactOrganizationName="Organization"
            ContactFirstName="ContactFirstName"
            ContactLastName="ContactLastname"
            ContactAddress="Address" ContactCity="City"
            ContactState="AL" ContactZipCode="55555"
            ContactPhoneNumber="555-55-5555"
            ContactEMailAddress="Issuer@mail.com"/>
        <Document DocumentIdentifier="1000"
            DocumentPostingDate="2008-12-06">
            <UnderlyingFiles>
                <File FileIdentifier="MS223986-1" FileStatus="Current"
                        FilePostingDate="2008-12-06"/></UnderlyingFiles>
        </Document>
    </ContinuingDisclosureSubmission>
</ContinuingDisclosureSubscriptionDataMessage>
Financial/ Operating Data Disclosure (non-CUSIP)

<?xml version="1.0" encoding="UTF-8"?>
<ContinuingDisclosureSubscriptionDataMessage xmlns="EMMA-SUBSCRIPTION-XML"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:schemaLocation="EMMA-SUBSCRIPTION-XML ...">
  <ContinuingDisclosureSubmission SubmissionIdentifier="1300" SubmissionStatus="Publish"
SubmissionTransactionDateTime="2008-03-20T00:00:00">
    <Disclosure IndexingData>
      <Disclosure DisclosureType="FinancialOperatingDataDisclosure"
        FinancialOperatingDisclosureCategory="ChangeInAccountingStandard">
        <DisclosurePeriod AsOfDate="2008-07-01"/>
      </Disclosure>
    </DisclosureIndexingData>
    <ContactInformation ContactType="Submitter"
      ContactOrganizationName="Organization"
      ContactFirstName="ContactFirstName"
      ContactLastName="ContactLastname"
      ContactAddress="Address" ContactCity="City"
      ContactState="AL" ContactZipCode="55555"
      ContactPhoneNumber="555-55-5555"
      ContactEMailAddress="Issuer@mail.com"/>
    <Document DocumentIdentifier="1000"
      DocumentPostingDate="2008-12-06">
      <UnderlyingFiles>
        <File FileIdentifier="MS223986-1"
          FileStatus="Current" FilePostingDate="2008-12-06"/>
      </UnderlyingFiles>
    </Document>
  </ContinuingDisclosureSubmission>
</ContinuingDisclosureSubscriptionDataMessage>
Event-Based Disclosure (CUSIP9)

```xml
<?xml version="1.0" encoding="UTF-8"?>
<ContinuingDisclosureSubscriptionDataMessage xmlns="EMMA-SUBSCRIPTION-XML"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
    xsi:schemaLocation="EMMA-SUBSCRIPTION-XML ...">
    <ContinuingDisclosureSubmission SubmissionIdentifier="1300" SubmissionStatus="Publish" SubmissionTransactionDateTime="2008-03-20T00:00:00">
        <DisclosureIndexingData>
            <Disclosure DisclosureType="EventBasedDisclosure" EventDisclosureCategory="BondCall">
                <DisclosurePeriod AsOfDate="2008-06-30"/>
            </Disclosure>
            <Disclosure DisclosureType="EventBasedDisclosure" EventDisclosureCategory="Defeasance">
                <DisclosurePeriod AsOfDate="2008-06-30"/>
            </Disclosure>
            <Securities SecurityType="CUSIP9">
                <Security CUSIP9="617481LX1"/>
                <Security CUSIP9="617481LY2"/>
            </Securities>
        </DisclosureIndexingData>
        <ContactInformation ContactType="Submitter" ContactOrganizationName="Organization" ContactFirstName="ContactFirstName" ContactLastName="ContactLastname" ContactAddress="Address" ContactCity="City" ContactState="AL" ContactZipCode="55555" ContactPhoneNumber="555-55-5555" ContactEMailAddress="Issuer@mail.com"/>
        <Document DocumentIdentifier="1000" DocumentPostingDate="2008-12-15">
            <UnderlyingFiles>
                <File FileIdentifier="MS223987-1" FileStatus="Current" FilePostingDate="2008-12-15"/>
            </UnderlyingFiles>
        </Document>
    </ContinuingDisclosureSubmission>
</ContinuingDisclosureSubscriptionDataMessage>
```
Event-Based Disclosure (CUSIP9) for new SEC 15c2-12 Event Types Example 1

<?xml version="1.0"?>
<ContinuingDisclosureSubscriptionDataMessage xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
SubmissionTransactionCount="1" ReplayDate="2018-10-19"
xmllns="http://emma.msrb.org/schemas/subscriptionmessage/continuingdisclosure/types">
<ContinuingDisclosureSubmission SubmissionIdentifier="EA502130" SubmissionStatus="Publish"
SubmissionTransactionDateTime="2018-10-19T10:30:39.638541-04:00">
<DisclosureIndexingData>
<Disclosure DisclosureType="EventBasedDisclosure"
EventDisclosureCategory="FinancialObligationIncurrence"
OtherVoluntaryDisclosureDescription="Sample Description">
<DisclosurePeriod AsOfDate="2018-10-19" />
<DisclosureSubCategory Name="FinancialObligationIncurrence_DerivativeInstrument" />
</Disclosure>
<Securities SecurityType="CUSIP9">
<Security CUSIP9="999100ZZ6" />
</Securities>
</DisclosureIndexingData>
<ContactInformation ContactType="Submitter" ContactOrganizationName="DEALER-ORG-01"
ContactFirstName="DEALER1" ContactLastName="TESTER"
ContactPhoneNumber="703-797-6600"
ContactPhoneNumberExtension="1234"
ContactAddress="1900 Duke Street"
ContactCity="Alexandria" ContactState="VA"
ContactZipCode="22314"
ContactEMailAddress="dealer1@msrb.org" />
<Document DocumentIdentifier="EA462475" DocumentStatus="Current"
DocumentPostingDate="2018-10-19">
<UnderlyingFiles>
<File FileIdentifier="EA858378" FileStatus="Current" FileOrder="1" FilePostingDate="2018-10-19" />
</UnderlyingFiles>
</Document>
</ContinuingDisclosureSubmission>
</ContinuingDisclosureSubscriptionDataMessage>
Event-Based Disclosure (CUSIP9) for new SEC 15c2-12 Event Types Example 2

<?xml version="1.0"?>
<ContinuingDisclosureSubscriptionDataMessage xmlns:xsd="http://www.w3.org/2001/XMLSchema"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
    SubmissionTransactionCount="1" ReplayDate="2018-10-19"
    xmlns="http://emma.msrb.org/schemas/subscriptionmessage/continuingdisclosure/types">

<ContinuingDisclosureSubmission SubmissionIdentifier="EA502131" SubmissionStatus="Publish"
    SubmissionTransactionDateTime="2018-10-19T10:32:33.098312-04:00">

    <DisclosureIndexingData>
        <Disclosure DisclosureType="EventBasedDisclosure"
            EventDisclosureCategory="FinancialObligationEventReflectingFinancialDifficulties"
            OtherVoluntaryDisclosureDescription="Another Sample Description">
            <DisclosurePeriod AsOfDate="2018-10-19" />
            <DisclosureSubCategory Name="FinancialObligationEventReflectingFinancialDifficulties_Default" />
            <DisclosureSubCategory Name="FinancialObligationEventReflectingFinancialDifficulties_Other" />
        </Disclosure>

        <Securities SecurityType="CUSIP9">
            <Security CUSIP9="999101ZZ4" />
        </Securities>
    </DisclosureIndexingData>

    <ContactInformation ContactType="Submitter" ContactOrganizationName="DEALER-ORG-01"
        ContactFirstName="DEALER1" ContactLastName="TESTER"
        ContactPhoneNumber="703-797-6600"
        ContactPhoneNumberExtension="1234"
        ContactAddress="1900 Duke Street"
        ContactCity="Alexandria" ContactState="VA"
        ContactZipCode="22314"
        ContactEmailAddress="dealer1@msrb.org" />

    <Document DocumentIdentifier="EA462476" DocumentStatus="Current"
        DocumentPostingDate="2018-10-19">
        <UnderlyingFiles>
            <File FileIdentifier="EA858379" FileStatus="Current" FileOrder="1" FilePostingDate="2018-10-19" />
        </UnderlyingFiles>
    </Document>

</ContinuingDisclosureSubmission>
</ContinuingDisclosureSubscriptionDataMessage>
Asset-Backed Securities Filing (CUSIP9)
<?xml version="1.0" encoding="UTF-8"?>
<ContinuingDisclosureMessage xmlns="EMMA-SUBMISSION-XML"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:schemaLocation="EMMA-SUBMISSION-XML ... ">
<Submission SubmissionStatus="Publish" />
<DisclosureIndexingData>
  <Disclosure DisclosureType="AssetBackedSecuritiesDisclosure"
    AssetBackedSecuritiesDisclosureCategory="InitialAssetBackedSecuritiesDisclosureSECRule15Ga1c1"
    OtherVoluntaryDisclosureDescription="Detailed description of Asset-Backed securities filing">
    <DisclosurePeriod PeriodType="OtherPeriodBeginning" BeginningDate="2014-01-01" EndingDate="2014-02-01"/>
  </Disclosure>
  <Securities SecurityType="CUSIP9">
    <Security CUSIP9="622438AJ7"/>
    <CUSIP6SecurityPointers>
      <CUSIP6SecurityPointer CUSIP6="622481"/>
      <CUSIP6SecurityPointer/>
    </CUSIP6SecurityPointers>
  </Securities>
</DisclosureIndexingData>
<ContactInformation ContactType="Issuer" ContactOrganizationName="Organization"
  ContactFirstName="ContactFirstName" ContactLastName="ContactLastname"
  ContactAddress="Address" ContactCity="City"
  ContactState="AL" ContactZipCode="55555"
  ContactPhoneNumber="555-555-5555"
  ContactEMailAddress="Issuer@mail.com"/>
</ContinuingDisclosureMessage>
Appendix 1: Notes on implementing software to read the Historical Data Product for CD

Example in C#


Use xsd.exe to create classes from XSD file.

`xsd HistDataProd-CD-Effective-2019-02-27.xsd /c`
creates file HistDataProd-CD-Effective-2019-02-27.cs
(xsd.exe is a tool included with Visual Studio)

Include this created class file in project.

Use XmlSerializer class with root class ContinuingDisclosureSubscriptionDataMessageType as in following code snippet:

```csharp
var xmlSerializer = new XmlSerializer(
    typeof(ContinuingDisclosureSubscriptionDataMessageType));
var filename = "EA594336.xml"; // one of the sample files
var subm = xmlSerializer.Deserialize(
    new FileStream(filename, FileMode.Open)) as
    ContinuingDisclosureSubscriptionDataMessageType;

// at this point use subm to access the data
Console.WriteLine(
    subm.ContinuingDisclosureSubmission[0]
        .DisclosureIndexingData.Disclosure[0]
            .DisclosureSubCategory[0].Name);

// prints: FinancialObligationIncurrence_DerivativeInstrument
```

Similar approach will work for Java as well.