EDGAR® ABS
XML Technical Specification

Version 1.2~~1~~ ~~September 2015~~April 2016

DRAFT DISCLAIMER:

This draft EDGAR ABS XML Technical Specification, posted before Commission approval of potential regulatory changes in this release, is provided as a service to our filing community to assist filers, agents, and software developers in their preparation of responses to potential changes the staff anticipates. Since this is a draft technical specification, the SEC retains the right to change any part of the technical specification before the new system release is made final. In addition, the final EDGAR ABS XML Technical Specification is subject to Commission approval and may be revised before approval or not approved at all. Similarly, the posting of the draft technical specification does not indicate Commission approval of any pending proposed changes relating to the potential changes reflected in the draft technical specification. The changes outlined in this draft technical specification, if approved, are scheduled to take effect on April 25, 2016. The final version of the technical specification will be made available if approved by the Commission on or about April 25, 2016, on the SEC's Public Website.

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1. INTRODUCTION

1.1. Purpose

This document describes the valid structure and content of the ABS Extensible Markup Language (XML) Asset Data File Types. The following table (Table 1-1) lists the ABS Asset Data File Types.

Table 1-1: ABS Asset Data File Types

ASSET DATA FILE TYPE	DESCRIPTION
ABS-AUTOLOAN	Data about an asset pool comprising auto loans.
ABS-AUTOLEASE	Data about an asset pool comprising auto leases.
ABS-DS	Data about an asset pool comprising debt securities.
ABS-RMBS	Data about an asset pool comprising residential mortgages.
ABS-CMBS	Data about an asset pool comprising commercial mortgages.

This specification provides the basis for creating the aforementioned ABS Asset Data File Types that can be successfully parsed by the EDGAR system.

ABS Asset Data Files must conform to the ABS Asset Data File Taxonomy for the EDGAR system. This taxonomy comprises a collection of XML Schema Definition (.xsd) files that defines the structure of ABS Asset Data File Types.

ABS Asset Data Files can be transmitted to the SEC via the 'Transmit' link on the EDGAR FilerWeb (*https://www.edgarfiling.sec.gov/*) or the 'Transmit XML Submission' link on the EDGAR OnlineForms/XML Website (*https://www.onlineforms.edgarfiling.sec.gov*).

In order to use the EDGAR FilerWeb or OnlineForms/XML Website, you must have a Central Index Key (CIK) and EDGAR access codes (password, CIK confirmation code (CCC)). If you currently have a CIK and access codes, you can proceed to the EDGAR FilerWeb or OnlineForms/XML Website to submit your ABS Asset Data File. If you do not have access codes, you will need to obtain these codes through the EDGAR Filer Management Website, (*https://www.filermanagement.edgarfiling.sec.gov*). For information on how to obtain access codes, refer to the "Becoming an EDGAR Filer" section of the EDGAR Filer Manual, Volume I (General Information).

For further information regarding the EDGAR FilerWeb or OnlineForms/XML Website, specifically in regards to the transmission of filer-constructed ABS Asset Data Files, refer to the "Filer-Constructed XML Submission" section of the EDGAR Filer Manual, Volume II (EDGAR Filing).

For guidance on how to prepare an ABS Asset Data, please refer to section 5, "ABS Asset Data File Construction" of this document. An ABS Asset Data File must conform to one of the following schema files included in this Technical Specification package:

- eis_ABS_AutoLeaseAssetData.xsd

- eis_ABS_AutoLoanAssetData.xsd

- eis_ABS_DebtSecuritiesAssetData.xsd

- eis_ABS_RMBSAssetData.xsd

- eis_ABS_CMBSAssetData.xsd

 The following sample ABS Asset Data XML documents are embedded in section 6 of this document:

- Sample_ABS_AutoLeaseAssetData.xml

- Sample_ABS_AutoLoanAssetData.xml

- Sample_ABS_DebtSecuritiesAssetData.xml

- Sample_ABS_RMBSAssetData.xml

- Sample_ABS_CMBSAssetData.xml

1.2. Summary of Changes

On September 14, 2015April 25, 2016, EDGAR Release 15.316.1 introduced the following change:

- Technical Specification Document change only – No schema change:

    o Page 3-1:
        ▪ For Integer the constraint changed from "Valid characters are 0-9. Cannot contain commas, minus sign, dollar sign, or parentheses." to "Valid characters are 0-9, minus sign, and parentheses. Cannot contain commas or dollar sign."
        ▪ For Decimal the constraint changed from "Valid characters are 0-9. Cannot contain commas, minus sign, dollar sign, or parentheses. May contain period and decimal places." to "Valid characters are 0-9, minus sign, and parentheses. Cannot contain commas or dollar sign. May contain period and decimal places."
    o Page 3-4: Changed Data Type for Item 3(e)(5) from "string" to "Boolean".
    o Pages 4-2 and 4-6: VHCL_VAL_SRC_CODE_TYPE: changed the third value from "Kelly Blue Book" to "Kelley Blue Book".

- Technical Specification Document change and schema change:

- o Expanded length of ABS fields, and allowed integer "0" in ABS-EE XML Exhibits

    - ▪ Expanded the length of certain specified fields from 20 to 35 characters.
    - ▪ Expanded the length of certain integer fields to 8 digits.
    - ▪ Expanded the length of certain decimal fields from having 2 decimal places to 8 decimal places.
    - ▪ Allowed "0" as a valid value for certain fields.

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- · Made the following changes to the document to make it 508 compliant:

- o Some of the column headers were not sufficient for JAWS to announce when it was entering data cells in the JAWS "Tables" mode. Enabled the "Repeat as header row at the top of each page" option to resolve the issue.

- o Some of the headings in the document did not follow a hierarchy. Corrected the issue by setting the hierarchical order. For example, Heading Level 1, Heading Level 2, Heading Level 3; or Caption or Body text for tables.

- o Lists, and the numbering of list items, were not sufficient for JAWS to identify and read. Mapped all the contents which appeared to be a list using the Numbering or Bullet list option.

- o Some of the tables in the document spanned across multiple pages with no repeated header rows, which was not sufficient for JAWS to announce the column heading of that cell in the table. Enabled the "Allow row to break across pages" and "Repeat as header row at the top of each page" options to resolve the issue.

- o Hyperlinks were not sufficient for JAWS to announce and navigate appropriately. Enabled hyperlinks and ensured JAWS read and navigated to the appropriate URLs.

2. EDGAR SCHEMA FILES

Table 2-1 describes the schema files that the EDGAR system uses to validate ABS Asset Data File Types. These schemas are considered part of this specification and are distributed with this document.

Table 2-1: ABS Schema Files

XML Schema File	Scope of File
eis_Common.xsd	Defines the common elements for all EDGAR File Types.
eis_stateCodes.xsd	All State Codes.
eis_ABS_Common.xsd	Defines the common elements for all ABS Asset Data File Types.
eis_ABS_AutoLeaseAssetData.xsd	Defines the elements for an Auto Lease Asset Data File.
eis_ABS_AutoLoanAssetData.xsd	Defines the elements for an Auto Loan Asset Data File.
eis_ABS_ DebtSecuritiesAssetData.xsd	Defines the elements for a Debt Securities Asset Data File.
eis_ABS_RMBSAssetData.xsd	Defines the elements for a Residential Mortgage Asset Data File.
eis_ABS_CMBSAssetData.xsd	Defines the elements for a Commercial Mortgage Asset Data File.

The schema files define the valid data elements for an ABS Asset Data File, the hierarchy and sequencing of these elements, data types, valid values, maximum lengths, and the number of occurrences, etc.

It is recommended that you download these files and use them for your own validation prior to filing an Asset Data File. This will greatly reduce the likelihood of receiving an EDGAR Suspend error. These schema files contain several annotations that describe the nature of the content of some of the elements.

2.1. Schema Table Column Definitions

We assume the filer is familiar with the basics of the XML language, namespaces, and the XML Schema Definition language. If not, you can find numerous references on the World Wide Web.

The following table (Table 2-2) includes the schema language features used most frequently in the ABS Asset Data Schema files:

Table 2-2: Schema Language

Indicator	Purpose
<sequence>	Specifies that child elements must appear in a specific order. This indicator is used with each element hierarchy. Elements must always appear in the order shown in Section 3.4.
<choice>	Specifies that only one of the child elements can be present within the containing element.
<minOccurs>	Specifies the minimum number of times that an element can occur.
<maxOccurs>	Specifies the maximum number of times that an element can occur.

The default value for the <minOccurs> and <maxOccurs> indicator is 1. An optional field will have a <minOccurs> value of zero.

The following excerpt from the eis_ABS_AutoLeaseAssetData.xsd schema file shows the basic structure used by all of the ABS asset class schemas:

```
<xs:complexType name="ASSET_TYPE">
    <xs:sequence>
        <xs:element name="assetTypeNumber" type="ns2:STRING_100_TYPE" minOccurs="1"/>
        <xs:element name="assetNumber" type="ns1:STRING_25_TYPE" minOccurs="1"/>
        <xs:element name="reportingPeriodBeginDate" type="ns1:DATE_TYPE" minOccurs="0"/>
        <xs:element name="reportingPeriodEndDate" type="ns1:DATE_TYPE" minOccurs="0"/>
        <xs:element name="originatorName" type="ns1:STRING_30_TYPE" minOccurs="0"/>
        <xs:element name="acquisitionCost" type="ns1:DECIMAL_TYPE14_220_8" minOccurs="0"/>
        <xs:element name="subvented" type="SUBVNT_CODE_TYPE" minOccurs="0"
        maxOccurs="unbounded"/>
        <xs:element name="vehicleManufacturerName" type="ns1:STRING_30_TYPE" minOccurs="0"/>
        <xs:element name="vehicleModelName" type="ns1:STRING_30_TYPE" minOccurs="0"/>
        <xs:element name="zeroBalanceCode" type="ZERO_BAL_CODE_TYPE" minOccurs="0"
        maxOccurs="unbounded"/>
        <xs:element name="terminationIndicator" type="TERMNTN_CODE_TYPE" minOccurs="0"
        maxOccurs="unbounded"/>
        <xs:element name="excessFeeAmount" type="ns1:DECIMAL_TYPE14_220_8" minOccurs="0"/>
        <xs:element name="liquidationProceedsAmount" type="ns1:DECIMAL_TYPE14_220_8" minOccurs="0"/>
    </xs:sequence>
</xs:complexType>

<xs:element name="assetData">
    <xs:complexType>
        <xs:sequence>
            <xs:element name="assets" type="ASSET_TYPE" minOccurs="0" maxOccurs="unbounded"/>
        </xs:sequence>
    </xs:complexType>
</xs:element name="assetData">
```

The following is a sample XML that is generated from the eis_ABS_AutoLeaseAssetData.xsd schema above:

```
<?xml version="1.0" encoding="UTF-8"?>
<assetData xmlns ="http://www.sec.gov/edgar/document/absee/autolease/assetdata"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">
   <assets>
      <assetTypeNumber>ABS10000022</assetTypeNumber>
      <assetNumber>A1000000033</assetNumber>
      <reportingPeriodBeginDate>03-20-2011</reportingPeriodBeginDate>
      <reportingPeriodEndDate>02-20-2013</reportingPeriodEndDate>
      <originatorName>PCSR</originatorName>
      <acquisitionCost>18000.00000000</acquisitionCost>
      <subvented>98</subvented>
      <subvented>2</subvented>
      <subvented>0</subvented>
      <vehicleManufacturerName>Ford</vehicleManufacturerName>
      <vehicleModelName>Taurus </vehicleModelName>
      <terminationIndicator>2</terminationIndicator>
      <terminationIndicator>4</terminationIndicator>
      <terminationIndicator>1</terminationIndicator>
      <excessFeeAmount>.00</excessFeeAmount>
      <liquidationProceedsAmount>12000.00000000</liquidationProceedsAmount>
   </assets>
   <assets>
      <assetTypeNumber> ABS10000022</assetTypeNumber>
      <assetNumber> A1000000034</assetNumber>
      <reportingPeriodBeginDate>10-05-2011</reportingPeriodBeginDate>
      <reportingPeriodEndDate>05-01-2012</reportingPeriodEndDate>
      <originatorName> PCSR </originatorName>
      <subvented>98</subvented>
      <zeroBalanceCode>1</zeroBalanceCode>
      <zeroBalanceCode>3</zeroBalanceCode>
      <zeroBalanceCode>99</zeroBalanceCode>
   </assets>
   <assets>
      <assetTypeNumber> ABS10000025</assetTypeNumber>
      <assetNumber> A1000000035</assetNumber>
      <reportingPeriodBeginDate>01-05-2011</reportingPeriodBeginDate>
      <reportingPeriodEndDate>09-22-2013</reportingPeriodEndDate>
      <originatorName> PCSR </originatorName>
      <acquisitionCost>10000.00000000</acquisitionCost>
      <vehicleManufacturerName>Mitsubishi </vehicleManufacturerName>
      <vehicleModelName> Galant </vehicleModelName>
      <terminationIndicator>2</terminationIndicator>
      <terminationIndicator>4</terminationIndicator>
      <terminationIndicator>1</terminationIndicator>
      <excessFeeAmount>2000.0000000</excessFeeAmount>
      <liquidationProceedsAmount>8000.0000000</liquidationProceedsAmount>
   </assets>
</assetData>
```

3. XML SCHEMAS

This section summarizes the restrictions and constraints imposed on the content of the all ABS Asset Data File Types. These rules are enforced by the schema files and by EDGAR processing sub-systems.

3.1. Schema Table Column Definitions

Table 3-1 defines the columns in the five tables (provided in Section 3.4) which map ABS Schemas to Asset Data Types:

Table 3-1: Column Definitions for Data Fields

Column Name	Description
Level	Depth of element in the XML node hierarchy.
Order	Order in which elements may appear.
Data Type	See the Table in Section 3.2 for a detailed description.
Element Name	Name of the XML element. This is case-sensitive.
Max Length	Maximum length for elements. EDGAR database stores up to this number of characters. "Unlimited" means no maximum length constraint for the element value.
Choice List	The paragraph that describes the data value constraint for the element. The values specified are case sensitive.
Max Occur	Specifies the maximum number of times that an element can occur.
Item	The item number as it relates to the ABS-EE rule.
Applicability of Element	Indicates applicability of the element. m = Mandatory o = Optional NA = Does not apply. EDGAR uses this element for server-side processing. Do not provide a value for this element.

3.2. Data Type Constraints

Each entry in the "Data Type" column of these tables will be one of these values:

Data Type	Constraints
Boolean	Indicate a "true" value with either a "1" or the word "true." Indicate a "false" value with either a "0" or the word "false."
Date	Must be of the format MM-DD-YYYY. A date element may not have a null or blank value. This is a schema violation and will cause a SUSPENSE error. Do not include a date element at all if your goal is to not provide an optional date.
Integer	Valid characters are 0-9, minus sign, and parentheses. Cannot contain commas or dollar sign. ~~Valid characters are 0-9. Cannot contain commas, minus sign, dollar sign, or parentheses.~~
Decimal	Valid characters are 0-9, minus sign, and parentheses. Cannot contain commas or dollar sign. May contain period and decimal places. ~~Valid characters are 0-9. Cannot contain commas, minus sign, dollar sign, or parentheses. May contain period and decimal places.~~

Data Type	Constraints
String	Sequence of valid alphanumeric characters and usually is accompanied by a max length value, denoting the number of characters allowed in the string. Should be no longer than the length shown in the tables in Sections 3.4. You must use special escape sequences to represent these four characters: For the < character use the escape sequence "<" or "<". For the > character use the escape sequence ">" or ">". For the & character use the escape sequence "&" or "&". For the "character use the escape sequence """ or """.
NV	These fields cannot have a value. They are parent element nodes that contain other XML elements. These elements need to be present for proper validation.
attr	Attribute property for an XML element.

3.3. Applicability of Schema Elements

Each entry in the "Applicability of Element" column in the tables in Section 3.4 will have one of these values:

Value	Description
m	Mandatory
o	Optional
m#	If value is supplied, it will be checked against the EDGAR database to validate that it exists and is a valid value.
NA	Does not apply to the ABS Asset Data File type. EDGAR uses this field for server-side processing. Do not provide a value for this element.
blank	Does not apply to the ABS Asset Data File type.

3.4. Mapping of ABS Schemas to Asset Data Types

Note: Each element listed in the Element/Attribute Name column corresponds to an Item number of Schedule AL – Asset-Level Information (17 CFR 229.1125). Schedule AL contains the complete title and description of each of the disclosure requirements and filers should refer to Schedule AL for a full description of the information that must be provided in any ABS Asset Data File.

3.4.1. Mapping of ABS AutoLoan Schema to Asset Data Types

Level	Order	Data Type	Element/Attribute Name	Max Length	Choice List	Max Occur	Item	Asset Data
1	1	NV	assetData			1		m
2	1	NV	assets			Unlimited		m
3	1	String	assetTypeNumber	100		1	Item 3(a)(1)	m
3	2	String	assetNumber	25		1	Item 3(a)(2)	m
3	3	Date	reportingPeriodBeginningDate			1	Item 3(b)(1)	o
3	4	Date	reportingPeriodEndingDate			1	Item 3(b)(2)	o
3	5	String	originatorName	50		1	Item 3(c)(1)	o
3	6	Date	originationDate			1	Item 3(c)(2)	o
3	7	Decimal	originalLoanAmount	~~14,22~~ 0,8		1	Item 3(c)(3)	o
3	8	Integer	originalLoanTerm	8~~2~~		1	Item 3(c)(4)	o
3	9	Date	loanMaturityDate			1	Item 3(c)(5)	o
3	10	Decimal	originalInterestRatePercentage	~~14,22~~ 0,8		1	Item 3(c)(6)	o
3	11	String	interestCalculationTypeCode		INTR_CALC_TYP_CODE_TYPE	1	Item 3(c)(7)	o
3	12	String	originalInterestRateTypeCode		ORIG_INTR_RT_TYP_CODE_TYPE	1	Item 3(c)(8)	o
3	13	Integer	originalInterestOnlyTermNumber	2		1	Item 3(c)(9)	o
3	14	Date	originalFirstPaymentDate			1	Item 3(c)(10)	o
3	15	Boolean	underwritingIndicator			1	Item 3(c)(11)	o
3	16	Integer	gracePeriodNumber	2		1	Item 3(c)(12)	o
3	17	String	paymentTypeCode		PYMNT_TYP_CODE_TYPE	1	Item 3(c)(13)	o

Level	Order	Data Type	Element/Attribute Name	Max Length	Choice List	Max Occur	Item	Asset Data
3	18	String	subvented		SUBVNT_CODE_TYPE	Unlimited	Item 3(c)(14)	o
3	19	String	vehicleManufacturerName	30		1	Item 3(d)(1)	o
3	20	String	vehicleModelName	30		1	Item 3(d)(2)	o
3	21	String	vehicleNewUsedCode		VHCL_NEW_USED_CODE_TYPE	1	Item 3(d)(3)	o
3	22	String	vehicleModelYear	4		1	Item 3(d)(4)	o
3	23	String	vehicleTypeCode		VHCL_TYP_CODE_TYPE	1	Item 3(d)(5)	o
3	24	Decimal	vehicleValueAmount	~~14,22~~0,8		1	Item 3(d)(6)	o
3	25	String	vehicleValueSourceCode		VHCL_VAL_SRC_CODE_TYPE	1	Item 3(d)(7)	o
3	26	String	obligorCreditScoreType	~~20~~35		1	Item 3(e)(1)	o
3	27	String	obligorCreditScore	20		1	Item 3(e)(2)	o
3	28	String	obligorIncomeVerificationLevelCode		OBLGR_INCM_VRFCTN_LVL_CODE_TYPE	1	Item 3(e)(3)	o
3	29	String	obligorEmploymentVerificationCode		OBLGR_EMPLOY_VRFCTN_CODE_TYPE	1	Item 3(e)(4)	o
3	30	~~Boolean~~ ~~String~~	coObligorIndicator			1	Item 3(e)(5)	o
3	31	Decimal	paymentToIncomePercentage	~~14,22~~0,8		1	Item 3(e)(6)	o
3	32	String	obligorGeographicLocation	100		1	Item 3(e)(7)	o
3	33	Boolean	assetAddedIndicator			1	Item 3(f)(1)	o
3	34	Integer	remainingTermToMaturityNumber	~~8~~2		1	Item 3(f)(2)	o
3	35	Boolean	reportingPeriodModificationIndicator			1	Item 3(f)(3)	o
3	36	String	servicingAdvanceMethodCode		SRVC_ADV_METH_CODE_TYPE	1	Item 3(f)(4)	o
3	37	Decimal	reportingPeriodBeginningLoanBalanceAmount	~~14,22~~0,8		1	Item 3(f)(5)	o
3	38	Decimal	nextReportingPeriodPaymentAmountDue	~~14,22~~0,8		1	Item 3(f)(6)	o
3	39	Decimal	reportingPeriodInterestRatePercentage	~~14,22~~0,8		1	Item 3(f)(7)	o
3	40	Decimal	nextInterestRatePercentage	~~14,22~~0,8		1	Item 3(f)(8)	o
3	41	Decimal	servicingFeePercentage	~~14,22~~0,8		1	Item 3(f)(9)	o

Level	Order	Data Type	Element/Attribute Name	Max Length	Choice List	Max Occur	Item	Asset Data
3	42	Decimal	servicingFlatFeeAmount	14,2 20,8		1	Item 3(f)(10)	o
3	43	Decimal	otherServicerFeeRetainedByServicer	14,2 20,8		1	Item 3(f)(11)	o
3	44	Decimal	otherAssessedUncollectedServicerFeeAmount	14,2 20,8		1	Item 3(f)(12)	o
3	45	Decimal	scheduledInterestAmount	14,2 20,8		1	Item 3(f)(13)	o
3	46	Decimal	scheduledPrincipalAmount	14,2 20,8		1	Item 3(f)(14)	o
3	47	Decimal	otherPrincipalAdjustmentAmount	14,2 20,8		1	Item 3(f)(15)	o
3	48	Decimal	reportingPeriodActualEndBalanceAmount	14,2 20,8		1	Item 3(f)(16)	o
3	49	Decimal	reportingPeriodScheduledPaymentAmount	14,2 20,8		1	Item 3(f)(17)	o
3	50	Decimal	totalActualAmountPaid	14,2 20,8		1	Item 3(f)(18)	o
3	51	Decimal	actualInterestCollectedAmount	14,2 20,8		1	Item 3(f)(19)	o
3	52	Decimal	actualPrincipalCollectedAmount	14,2 20,8		1	Item 3(f)(20)	o
3	53	Decimal	actualOtherCollectedAmount	14,2 20,8		1	Item 3(f)(21)	o
3	54	Decimal	servicerAdvancedAmount	14,2 20,8		1	Item 3(f)(22)	o
3	55	Date	interestPaidThroughDate			1	Item 3(f)(23)	o
3	56	Date	zeroBalanceEffectiveDate			1	Item 3(f)(24)(i)	o
3	57	String	zeroBalanceCode		ZERO_BAL_CODE_TYPE	Unlimited	Item 3(f)(24)(ii)	o
3	58	Integer	currentDelinquencyStatus	8 2		1	Item 3(f)(25)	o
3	59	String	primaryLoanServicerName	100		1	Item 3(g)(1)	o
3	60	Date	mostRecentServicingTransferReceivedDate			1	Item 3(g)(2)	o
3	61	Boolean	assetSubjectDemandIndicator			1	Item 3(h)	o
3	62	String	assetSubjectDemandStatusCode		REPRCH_ASSET_SUBJ_DMAND_CODE_TYPE	1	Item 3(h)(1)	o
3	63	Decimal	repurchaseAmount	14,2 20,8		1	Item 3(h)(2)	o
3	64	Date	demandResolutionDate			1	Item 3(h)(3)	o

Level	Order	Data Type	Element/Attribute Name	Max Length	Choice List	Max Occur	Item	Asset Data
3	65	String	repurchaserName	30		1	Item 3(h)(4)	o
3	66	String	repurchaseReplacementReasonCode		REPRCH_RPLCMNT_REASN_CODE_TYPE	Unlimited	Item 3(h)(5)	o
3	67	Decimal	chargedoffPrincipalAmount	~~14,22~~ 0,8		1	Item 3(i)(1)	o
3	68	Decimal	recoveredAmount	~~14,22~~ 0,8		1	Item 3(i)(2)	o
3	69	String	modificationTypeCode		MOD_TYPE_CODE_TYPE	Unlimited	Item 3(j)(1)	o
3	70	Integer	paymentExtendedNumber	2		1	Item 3(j)(2)	o
3	71	Boolean	repossessedIndicator			1	Item 3(k)	o
3	72	Decimal	repossessedProceedsAmount	~~14,22~~ 0,8		1	Item 3(k)(1)	o

3.4.2. Mapping of ABS AutoLease Schema to Asset Data Types

Level	Order	Data Type	Element/Attribute Name	Max Length	Choice List	Max Occur	Item	Asset Data
1	1	NV	assetData			1		m
2	1	NV	assets			Unlimited		m
3	1	String	assetTypeNumber	100		1	Item 4(a)(1)	m
3	2	String	assetNumber	25		1	Item 4(a)(2)	m
3	3	Date	reportingPeriodBeginDate			1	Item 4(b)(1)	o
3	4	Date	reportingPeriodEndDate			1	Item 4(b)(2)	o
3	5	String	originatorName	30		1	Item 4(c)(1)	o
3	6	Date	originationDate			1	Item 4(c)(2)	o
3	7	Decimal	acquisitionCost	~~14,22~~ 0,8		1	Item 4(c)(3)	o
3	8	Integer	originalLeaseTermNumber	~~8~~2		1	Item 4(c)(4)	o
3	9	Date	scheduledTerminationDate			1	Item 4(c)(5)	o
3	10	Date	originalFirstPaymentDate			1	Item 4(c)(6)	o

Level	Order	Data Type	Element/Attribute Name	Max Length	Choice List	Max Occur	Item	Asset Data
3	11	Boolean	underwritingIndicator			1	Item 4(c)(7)	o
3	12	Integer	gracePeriod	2		1	Item 4(c)(8)	o
3	13	String	paymentTypeCode		PYMNT_TYP_CODE_TYPE	1	Item 4(c)(9)	o
3	14	String	subvented		SUBVNT_CODE_TYPE	Unlimited	Item 4(c)(10)	o
3	15	String	vehicleManufacturerName	30		1	Item 4(d)(1)	o
3	16	String	vehicleModelName	30		1	Item 4(d)(2)	o
3	17	String	vehicleNewUsedCode		VHCL_NEW_USED_CODE_TYPE	1	Item 4(d)(3)	o
3	18	String	vehicleModelYear	4		1	Item 4(d)(4)	o
3	19	String	vehicleTypeCode		VHCL_TYP_CODE_TYPE	1	Item 4(d)(5)	o
3	20	Decimal	vehicleValueAmount	~~14,22~~0,8		1	Item 4(d)(6)	o
3	21	String	vehicleValueSourceCode		VHCL_VAL_SRC_CODE_TYPE	1	Item 4(d)(7)	o
3	22	Decimal	baseResidualValue	~~14,22~~0,8		1	Item 4(d)(8)	o
3	23	String	baseResidualSourceCode		BS_RESDL_SRC_CODE_TYPE	1	Item 4(d)(9)	o
3	24	Decimal	contractResidualValue	~~14,22~~0,8		1	Item 4(d)(10)	o
3	25	String	lesseeCreditScoreType	~~20~~35		1	Item 4(e)(1)	o
3	26	String	lesseeCreditScore	20		1	Item 4(e)(2)	o
3	27	String	lesseeIncomeVerificationLevelCode		LSSE_INCM_VRFCTN_LVL_CODE_TYPE	1	Item 4(e)(3)	o
3	28	String	lesseeEmploymentVerificationCode		LSSE_EMPLOY_VRFCTN_CODE_TYPE	1	Item 4(e)(4)	o
3	29	Boolean	coLesseePresentIndicator			1	Item 4(e)(5)	o
3	30	Decimal	paymentToIncomePercentage	~~14,22~~0,8		1	Item 4(e)(6)	o
3	31	String	lesseeGeographicLocation	100		1	Item 4(e)(7)	o
3	32	Boolean	assetAddedIndicator			1	Item 4(f)(1)	o
3	33	Integer	remainingTermNumber	~~8~~2		1	Item 4(f)(2)	o
3	34	Boolean	reportingPeriodModificationIndicator			1	Item 4(f)(3)	o
3	35	String	servicingAdvanceMethodCode		SRVC_ADV_METH_CODE_TYPE	1	Item 4(f)(4)	o
3	36	Decimal	reportingPeriodSecuritizationValueAmount	~~14,22~~0,8		1	Item 4(f)(5)	o

Level	Order	Data Type	Element/Attribute Name	Max Length	Choice List	Max Occur	Item	Asset Data
3	37	Decimal	securitizationDiscountRate	~~14,22~~ 0,8		1	Item 4(f)(6)	o
3	38	Decimal	nextReportingPeriodPaymentAmountDue	~~14,22~~ 0,8		1	Item 4(f)(7)	o
3	39	Decimal	servicingFeePercentage	~~14,22~~ 0,8		1	Item 4(f)(8)	o
3	40	Decimal	servicingFlatFeeAmount	~~14,22~~ 0,8		1	Item 4(f)(9)	o
3	41	Decimal	otherLeaseLevelServicingFeesRetainedAmount	~~14,22~~ 0,8		1	Item 4(f)(10)	o
3	42	Decimal	otherAssessedUncollectedServicerFeeAmount	~~14,22~~ 0,8		1	Item 4(f)(11)	o
3	43	Decimal	reportingPeriodEndingActualBalanceAmount	~~14,22~~ 0,8		1	Item 4(f)(12)	o
3	44	Decimal	reportingPeriodScheduledPaymentAmount	~~14,22~~ 0,8		1	Item 4(f)(13)	o
3	45	Decimal	totalActualAmountPaid	~~14,22~~ 0,8		1	Item 4(f)(14)	o
3	46	Decimal	actualOtherCollectedAmount	~~14,22~~ 0,8		1	Item 4(f)(15)	o
3	47	Decimal	reportingPeriodEndActualSecuritizationAmount	~~14,22~~ 0,8		1	Item 4(f)(16)	o
3	48	Decimal	servicerAdvancedAmount	~~14,22~~ 0,8		1	Item 4(f)(17)	o
3	49	Date	paidThroughDate			1	Item 4(f)(18)	o
3	50	Date	zeroBalanceEffectiveDate			1	Item 4(f)(19)(i)	o
3	51	String	zeroBalanceCode		ZERO_BAL_CODE_TYPE	Unlimited	Item 4(f)(19)(ii)	o
3	52	Integer	currentDelinquencyStatus	~~8~~2		1	Item 4(f)(20)	o
3	53	String	primaryLeaseServicerName	30		1	Item 4(g)(1)	o
3	54	Date	mostRecentServicingTransferReceivedDate			1	Item 4(g)(2)	o
3	55	Boolean	assetSubjectDemandIndicator			1	Item 4(h)	o
3	56	String	assetSubjectDemandStatusCode		REPRCH_STAT_ASSET_SUBJ_DMAND_CODE_TYPE	1	Item 4(h)(1)	o
3	57	Decimal	repurchaseAmount	~~14,22~~ 0,8		1	Item 4(h)(2)	o
3	58	Date	DemandResolutionDate			1	Item 4(h)(3)	o
3	59	String	repurchaserName	30		1	Item 4(h)(4)	o

Level	Order	Data Type	Element/Attribute Name	Max Length	Choice List	Max Occur	Item	Asset Data
3	60	String	repurchaseOrReplacementReasonCode		REPRCH_RPLC_REASN_CODE_TYPE	Unlimited	Item 4(h)(5)	o
3	61	Decimal	chargedOffAmount	~~14,22~~0,8		1	Item 4(i)(1)	o
3	62	String	modificationTypeCode		MOD_TYPE_CODE_TYPE	Unlimited	Item 4(j)(1)	o
3	63	Integer	leaseExtended	2		1	Item 4(j)(2)	o
3	64	String	terminationIndicator		TERMNTN_CODE_TYPE	Unlimited	Item 4(k)(1)	o
3	65	Decimal	excessFeeAmount	~~14,22~~0,8		1	Item 4(k)(2)	o
3	66	Decimal	liquidationProceedsAmount	~~14,22~~0,8		1	Item 4(k)(3)	o

3.4.3. Mapping of ABS CMBS Schema to Asset Data Types

Level	Order	Data Type	Element/Attribute Name	Max Length	Choice List	Max Occur	Item	Asset Data
1	1	NV	assetData			1		m
2	1	NV	assets			Unlimited		m
3	1	String	assetTypeNumber	100		1	Item 2(a)(1)	m
3	2	String	assetNumber	25		1	Item 2(a)(2)	m
3	3	Integer	GroupID	8		1	Item 2(a)(3)	o
3	4	Date	reportingPeriodBeginningDate			1	Item 2(b)(1)	o
3	5	Date	reportingPeriodEndDate			1	Item 2(b)(2)	o
3	6	String	originatorName	150		1	Item 2(c)(1)	o
3	7	Date	originationDate			1	Item 2(c)(2)	o
3	8	Decimal	originalLoanAmount	~~14,22~~0,8		1	Item 2(c)(3)	o
3	9	Integer	originalTermLoanNumber	~~8~~2		1	Item 2(c)(4)	o

Level	Order	Data Type	Element/Attribute Name	Max Length	Choice List	Max Occur	Item	Asset Data
3	10	Date	maturityDate			1	Item 2(c)(5)	o
3	11	Integer	originalAmortizationTermNumber	8		1	Item 2(c)(6)	o
3	12	Decimal	originalInterestRatePercentage	~~14,22~~ 0,8		1	Item 2(c)(7)	o
3	13	Decimal	interestRateSecuritizationPercentage	~~14,22~~ 0,8		1	Item 2(c)(8)	o
3	14	String	interestAccrualMethodCode		INTR_ACCRL_METH_CODE_TYPE	1	Item 2(c)(9)	o
3	15	String	originalInterestRateTypeCode		ORIG_INTR_RT_TYP_CODE_TYPE	1	Item 2(c)(10)	o
3	16	Integer	originalInterestOnlyTermNumber	8		1	Item 2(c)(11)	o
3	17	Date	firstLoanPaymentDueDate			1	Item 2(c)(12)	o
3	18	Boolean	underwritingIndicator			1	Item 2(c)(13)	o
3	19	String	lienPositionSecuritizationCode		LIEN_PSTN_CODE_TYPE	1	Item 2(c)(14)	o
3	20	String	loanStructureCode		LOAN_STCTR_CODE_TYPE	1	Item 2(c)(15)	o
3	21	String	paymentTypeCode		PYMNT_TYP_CODE_TYPE	1	Item 2(c)(16)	o
3	22	Decimal	periodicPrincipalAndInterestPaymentSecuritizationAmount	~~14,22~~ 0,8		1	Item 2(c)(17)	o
3	23	Decimal	scheduledPrincipalBalanceSecuritizationAmount	~~14,22~~ 0,8		1	Item 2(c)(18)	o
3	24	String	paymentFrequencyCode		PYMNT_FREQ_CODE_TYPE	1	Item 2(c)(19)	o
3	25	Integer	NumberPropertiesSecuritization	8		1	Item 2(c)(20)	o
3	26	Integer	NumberProperties	8		1	Item 2(c)(21)	o
3	27	Integer	graceDaysAllowedNumber	8		1	Item 2(c)(22)	o
3	28	Boolean	interestOnlyIndicator			1	Item 2(c)(23)	o
3	29	Boolean	balloonIndicator			1	Item 2(c)(24)	o
3	30	Boolean	prepaymentPremiumIndicator			1	Item 2(c)(25)	o
3	31	Boolean	negativeAmortizationIndicator			1	Item 2(c)(26)	o
3	32	Boolean	modifiedIndicator			1	Item 2(c)(27)	o
3	33	String	armIndexCode		ARM_INDX_CODE_TYPE	1	Item 2(c)(28)(i)	o
3	34	Date	firstRateAdjustmentDate			1	Item 2(c)(28)(ii)	o
3	35	Date	firstPaymentAdjustmentDate			1	Item 2(c)(28)(iii)	o

Level	Order	Data Type	Element/Attribute Name	Max Length	Choice List	Max Occur	Item	Asset Data
3	36	Integer	armMarginNumber	8		1	Item 2(c)(28)(iv)	o
3	37	Decimal	lifetimeRateCapPercentage	~~14,22~~ 0,8		1	Item 2(c)(28)(v)	o
3	38	Decimal	lifetimeRateFloorPercentage	~~14,22~~ 0,8		1	Item 2(c)(28)(vi)	o
3	39	Decimal	periodicRateIncreaseLimitPercentage	~~14,22~~ 0,8		1	Item 2(c)(28)(vii)	o
3	40	Decimal	periodicRateDecreaseLimitPercentage	~~14,22~~ 0,8		1	Item 2(c)(28)(viii)	o
3	41	Decimal	periodicPaymentAdjustmentMaximumAmount	~~14,22~~ 0,8		1	Item 2(c)(28)(ix)	o
3	42	Decimal	periodicPaymentAdjustmentMaximumPercent	~~14,22~~ 0,8		1	Item 2(c)(28)(x)	o
3	43	String	rateResetFrequencyCode		RT_RST_FREQ_CODE_TYPE	1	Item 2(c)(28)(xi)	o
3	44	String	paymentResetFrequencyCode		PY_RST_FREQ_CODE_TYPE	1	Item 2(c)(28)(xii)	o
3	45	Integer	indexLookbackDaysNumber	8		1	Item 2(c)(28)(xiii)	o
3	46	Date	prepaymentLockOutEndDate			1	Item 2(c)(29)(i)	o
3	47	Date	yieldMaintenanceEndDate			1	Item 2(c)(29)(ii)	o
3	48	Date	prepaymentPremiumsEndDate			1	Item 2(c)(29)(iii)	o
3	49	Decimal	maximumNegativeAmortizationAllowedPercentage	~~14,22~~ 0,8		1	Item 2(c)(30)(i)	o
3	50	Decimal	maximumNegativeAmortizationAllowedAmount	~~14,22~~ 0,8		1	Item 2(c)(30)(ii)	o
3	51	Decimal	negativeAmortizationDeferredInterestCapAmount	~~14,22~~ 0,8		1	Item 2(c)(30)(iii)	o
3	52	Decimal	deferredInterestCumulativeAmount	~~14,22~~ 0,8		1	Item 2(c)(30)(iv)	o
3	53	Decimal	deferredInterestCollectedAmount	~~14,22~~ 0,8		1	Item 2(c)(30)(v)	o
2	54	NV	property			Unlimited		o
4	55	String	propertyName	150		1	Item 2(d)(1)	o
4	56	String	propertyAddress	200		1	Item 2(d)(2)	o
4	57	String	propertyCity	50		1	Item 2(d)(3)	o

Level	Order	Data Type	Element/Attribute Name	Max Length	Choice List	Max Occur	Item	Asset Data
4	58	String	propertyState	2		1	Item 2(d)(4)	o
4	59	String	propertyZip	10		1	Item 2(d)(5)	o
4	60	String	propertyCounty	50		1	Item 2(d)(6)	o
4	61	String	propertyTypeCode		PROPRTY_TYP_CODE_TYPE	1	Item 2(d)(7)	o
4	62	Integer	netRentableSquareFeetNumber	8		1	Item 2(d)(8)	o
4	63	Integer	netRentableSquareFeetSecuritizationNumber	8		1	Item 2(d)(9)	o
4	64	Integer	unitsBedsRoomsNumber	8		1	Item 2(d)(10)	o
4	65	Integer	unitsBedsRoomsSecuritizationNumber	8		1	Item 2(d)(11)	o
4	66	Integer	yearBuiltNumber	8		1	Item 2(d)(12)	o
4	67	Integer	yearLastRenovated	8		1	Item 2(d)(13)	o
4	68	Decimal	valuationSecuritizationAmount	~~14,22~~ 0,8		1	Item 2(d)(14)	o
4	69	String	valuationSourceSecuritizationCode		VAL_SRC_SCRTZTN_CODE_TYPE	1	Item 2(d)(15)	o
4	70	Date	valuationSecuritizationDate			1	Item 2(d)(16)	o
4	71	Decimal	mostRecentValuationAmount	~~14,22~~ 0,8		1	Item 2(d)(17)	o
4	72	Date	mostRecentValuationDate			1	Item 2(d)(18)	o
4	73	String	mostRecentValuationSourceCode		MST_RCNT_VAL_SRC_CODE_TYPE	1	Item 2(d)(19)	o
4	74	Decimal	physicalOccupancySecuritizationPercentage	~~14,22~~ 0,8		1	Item 2(d)(20)	o
4	75	Decimal	mostRecentPhysicalOccupancyPercentage	~~14,22~~ 0,8		1	Item 2(d)(21)	o
4	76	String	propertyStatusCode		PROPRTY_STAT_CODE_TYPE	1	Item 2(d)(22)	o
4	77	Date	defeasanceOptionStartDate			1	Item 2(d)(23)	o
4	78	String	DefeasedStatusCode		DFSNC_STAT_CODE_TYPE	1	Item 2(d)(24)	o
4	79	String	largestTenant	150		1	Item 2(d)(25)(i)	o
4	80	Integer	squareFeetLargestTenantNumber	8		1	Item 2(d)(25)(ii)	o
4	81	Date	leaseExpirationLargestTenantDate			1	Item 2(d)(25)(iii)	o
4	82	String	secondLargestTenant	150		1	Item 2(d)(26)(i)	o
4	83	Integer	squareFeetSecondLargestTenantNumber	8		1	Item 2(d)(26)(ii)	o

Level	Order	Data Type	Element/Attribute Name	Max Length	Choice List	Max Occur	Item	Asset Data
4	84	Date	leaseExpirationSecondLargestTenantDate			1	Item 2(d)(26)(iii)	o
4	85	String	thirdLargestTenant	150		1	Item 2(d)(27)(i)	o
4	86	Integer	squareFeetThirdLargestTenantNumber	8		1	Item 2(d)(27)(ii)	o
4	87	Date	leaseExpirationThirdLargestTenantDate			1	Item 2(d)(27)(iii)	o
4	88	Date	financialsSecuritizationDate			1	Item 2(d)(28)(i)	o
4	89	Date	mostRecentFinancialsStartDate			1	Item 2(d)(28)(ii)	o
4	90	Date	mostRecentFinancialsEndDate			1	Item 2(d)(28)(iii)	o
4	91	Decimal	revenueSecuritizationAmount	~~14,22~~0,8		1	Item 2(d)(28)(iv)	o
4	92	Decimal	mostRecentRevenueAmount	~~14,22~~0,8		1	Item 2(d)(28)(v)	o
4	93	Decimal	operatingExpensesSecuritizationAmount	~~14,22~~0,8		1	Item 2(d)(28)(vi)	o
4	94	Decimal	operatingExpensesAmount	~~14,22~~0,8		1	Item 2(d)(28)(vii)	o
4	95	Decimal	netOperatingIncomeSecuritizationAmount	~~14,22~~0,8		1	Item 2(d)(28)(viii)	o
4	96	Decimal	mostRecentNetOperatingIncomeAmount	~~14,22~~0,8		1	Item 2(d)(28)(ix)	o
4	97	Decimal	netCashFlowFlowSecuritizationAmount	~~14,22~~0,8		1	Item 2(d)(28)(x)	o
4	98	Decimal	mostRecentNetCashFlowAmount	~~14,22~~0,8		1	Item 2(d)(28)(xi)	o
4	99	String	netOperatingIncomeNetCashFlowSecuritizationCode		NET_OPRTNG_INCM_NET_CASH_FLW_SCRTZTN_CODE_TYPE	1	Item 2(d)(28)(xii)	o
4	100	String	netOperatingIncomeNetCashFlowCode		NET_OPRTNG_INCM_NET_CASH_FLW_CODE_TYPE	1	Item 2(d)(28)(xiii)	o
4	101	Decimal	mostRecentDebtServiceAmount			1	Item 2(d)(28)(xiv)	o
4	102	Decimal	debtServiceCoverageNetOperatingIncomeSecuritizationPercentage	~~14,22~~0,8		1	Item 2(d)(28)(xv)	o
4	103	Decimal	mostRecentDebtServiceCoverageNetOperatingIncomePercentage	~~14,22~~0,8		1	Item 2(d)(28)(xvi)	o
4	104	Decimal	debtServiceCoverageNetCashFlowSecuritizationPercentage	~~14,22~~0,8		1	Item 2(d)(28)(xvii)	o

Level	Order	Data Type	Element/Attribute Name	Max Length	Choice List	Max Occur	Item	Asset Data
4	105	Decimal	mostRecentDebtServiceCoverageNetCashFlowpercentage	~~14,22~~ 0,8		1	Item 2(d)(28)(xviii)	o
4	106	String	debtServiceCoverageSecuritizationCode		DEBT_SRVC_CVRG_CODE_TYPE	1	Item 2(d)(28)(xix)	o
4	107	String	mostRecentDebtServiceCoverageCode	~~14,2~~	MST_RCNT_DEBT_SRVC_AMNT_CODE_TYPE	1	Item 2(d)(28)(xx)	o
4	108	Date	mostRecentAnnualLeaseRolloverReviewDate			1	Item 2(d)(28)(xxi)	o
3	109	Boolean	assetAddedIndicator			1	Item 2(e)(1)	o
3	110	Boolean	reportPeriodModificationIndicator			1	Item 2(e)(2)	o
3	111	Decimal	reportPeriodBeginningScheduleLoanBalanceAmount	~~14,22~~ 0,8		1	Item 2(e)(3)	o
3	112	Decimal	totalScheduledPrincipalInterestDueAmount	~~14,22~~ 0,8		1	Item 2(e)(4)	o
3	113	Decimal	reportPeriodInterestRatePercentage	~~14,22~~ 0,8		1	Item 2(e)(5)	o
3	114	Decimal	servicerTrusteeFeeRatePercentage	~~14,22~~ 0,8		1	Item 2(e)(6)	o
3	115	Decimal	scheduledInterestAmount	~~14,22~~ 0,8		1	Item 2(e)(7)	o
3	116	Decimal	otherInterestAdjustmentAmount	~~14,22~~ 0,8		1	Item 2(e)(8)	o
3	117	Decimal	scheduledPrincipalAmount	~~14,22~~ 0,8		1	Item 2(e)(9)	o
3	118	Decimal	unscheduledPrincipalCollectedAmount	~~14,22~~ 0,8		1	Item 2(e)(10)	o
3	119	Decimal	otherPrincipalAdjustmentAmount	~~14,22~~ 0,8		1	Item 2(e)(11)	o
3	120	Decimal	reportPeriodEndActualBalanceAmount	~~14,22~~ 0,8		1	Item 2(e)(12)	o
3	121	Decimal	reportPeriodEndScheduledLoanBalanceAmount	~~14,22~~ 0,8		1	Item 2(e)(13)	o
3	122	Date	paidThroughDate			1	Item 2(e)(14)	o
3	123	Date	hyperAmortizingDate			1	Item 2(e)(15)	o
3	124	String	servicingAdvanceMethodCode		SRVC_ADV_METH_CODE_TYPE	1	Item 2(e)(16)(i)	o
3	125	Boolean	nonRecoverabilityIndicator			1	Item 2(e)(16)(ii)	o
3	126	Decimal	totalPrincipalInterestAdvancedOutstandingAmount	~~14,22~~ 0,8		1	Item 2(e)(16)(iii)	o

Level	Order	Data Type	Element/Attribute Name	Max Length	Choice List	Max Occur	Item	Asset Data
3	127	Decimal	totalTaxesInsuranceAdvancesOutstandingAmount	~~14,22~~ 0,8		1	Item 2(e)(16)(iv)	o
3	128	Decimal	otherExpensesAdvancedOutstandingAmount	~~14,22~~ 0,8		1	Item 2(e)(16)(v)	o
3	129	String	paymentStatusLoanCode		PYMNT_STAT_LOAN_CODE_TYPE	1	Item 2(e)(17)	o
3	130	Decimal	armIndexRatePercentage	~~14,22~~ 0,8		1	Item 2(e)(18)(i)	o
3	131	Decimal	nextInterestRatePercentage	~~14,22~~ 0,8		1	Item 2(e)(18)(ii)	o
3	132	Date	nextInterestRateChangeAdjustmentDate			1	Item 2(e)(18)(iii)	o
3	133	Date	nextPaymentAdjustmentDate			1	Item 2(e)(18)(iv)	o
3	134	String	primaryServicerName	30		1	Item 2(f)(1)	o
3	135	Date	mostRecentSpecialServicerTransferDate			1	Item 2(f)(2)	o
3	136	Date	mostRecentMasterServicerReturnDate			1	Item 2(f)(3)	o
3	137	Boolean	assetSubjectDemandIndicator			1	Item 2(g)	o
3	138	String	assetSubjectDemandStatusCode		ASSET_SUBJ_DEMAND_STAT_CODE_TYPE	1	Item 2(g)(1)	o
3	139	Decimal	repurchaseAmount	~~14,22~~ 0,8		1	Item 2(g)(2)	o
3	140	Date	demandResolutionDate			1	Item 2(g)(3)	o
3	141	String	repurchaserName	150		1	Item 2(g)(4)	o
3	142	String	repurchaseReplacementReasonCode		REPRCH_RPLCMNT_REASN_CODE_TYPE	Unlimited	Item 2(g)(5)	o
3	143	Decimal	realizedLossToTrustAmount	~~14,22~~ 0,8		1	Item 2(h)	o
3	144	String	liquidationPrepaymentCode		LIQDTN_PRPYMNT_CODE_TYPE	1	Item 2(i)(1)	o
3	145	Date	liquidationPrepaymentDate			1	Item 2(i)(2)	o
3	146	Decimal	prepaymentPremiumYieldMaintenanceReceivedAmount	~~14,22~~ 0,8		1	Item 2(i)(3)	o
3	147	String	workoutStrategyCode		WRKOUT_STRAT_CODE_TYPE	Unlimited	Item 2(j)	o
3	148	Date	lastModificationDate			1	Item 2(k)(1)	o
3	149	String	modificationCode		MOD_CODE_TYPE	Unlimited	Item 2(k)(2)	o
3	150	Decimal	postModificationInterestPercentage	~~14,22~~ 0,8		1	Item 2(k)(3)	o

Level	Order	Data Type	Element/Attribute Name	Max Length	Choice List	Max Occur	Item	Asset Data
3	151	Decimal	postModificationPaymentAmount	~~14,22~~ 0,8		1	Item 2(k)(4)	o
3	152	Date	postModificationMaturityDate			1	Item 2(k)(5)	o
3	153	Decimal	postModificationAmortizationPeriodAmount	~~14,22~~ 0,8		1	Item 2(k)(6)	o

3.4.4. Mapping of ABS RMBS Schema to the Asset Data Types

Level	Order	Data Type	Element/Attribute Name	Max Length	Choice List	Max Occur	Item	Asset Data
1	1	NV	assetData			1		m
2	1	NV	assets			Unlimited		m
3	1	String	assetTypeNumber	100		1	Item 1(a)(1)	m
3	2	String	assetNumber	25		1	Item 1(a)(2)	m
3	3	Integer	assetGroupNumber	8		1	Item 1(a)(3)	o
3	4	Date	reportPeriodBeginDate			1	Item 1(b)(1)	o
3	5	Date	reportPeriodEndDate			1	Item 1(b)(2)	o
3	6	String	originalLoanPurposeCode		ORIG_LOAN_PURPS_CODE_TYPE	Unlimited	Item 1(c)(1)	o
3	7	String	originatorName	150		1	Item 1(c)(2)	o
3	8	Decimal	originalLoanAmount	20,8~~14~~,2		1	Item 1(c)(3)	o
3	9	Date	originalLoanMaturityDate			1	Item 1(c)(4)	o
3	10	Integer	originalAmortizationTermNumber	8		1	Item 1(c)(5)	o
3	11	Decimal	originalInterestRatePercentage	20,8~~14~~,2		1	Item 1(c)(6)	o
3	12	String	accrualTypeCode		ACCRL_TYP_CODE_TYPE	1	Item 1(c)(7)	o
3	13	String	originalInterestRateTypeCode		ORIG_INTR_RT_TYP_CODE_TYPE	1	Item 1(c)(8)	o
3	14	Integer	originalInterestOnlyTermNumber	8		1	Item 1(c)(9)	o
3	15	Boolean	underwritingIndicator			1	Item 1(c)(10)	o
3	16	String	originalLienPositionCode		ORIG_LIEN_PSTN_CODE_TYPE	1	Item 1(c)(11)	o
3	17	Decimal	mostRecentJuniorLoanBalanceAmount	20,8~~14~~,2		1	Item 1(c)(12)(i)	o
3	18	Date	mostRecentJuniorLoanBalanceDate			1	Item 1(c)(12)(ii)	o
3	19	Decimal	mostRecentSeniorLoanAmount	20,8~~14~~,2		1	Item 1(c)(13)(i)	o
3	20	Date	mostRecentSeniorLoanAmountDate			1	Item 1(c)(13)(ii)	o
3	21	String	loanTypeMostSeniorLienCode		ORIG_LOAN_TYP_MST_SNR_LIEN_CODE_TYPE	1	Item 1(c)(13)(iii)	o
3	22	Integer	mostSeniorLienHybridPeriodNumber	8~~2~~		1	Item 1(c)(13)(iv)	o

Level	Order	Data Type	Element/Attribute Name	Max Length	Choice List	Max Occur	Item	Asset Data
3	23	Decimal	mostSeniorLienNegativeAmortizationLimitPercentage	20,8~~4,2~~		1	Item 1(c)(13)(v)	o
3	24	Boolean	prepaymentPenaltyIndicator			1	Item 1(c)(14)	o
3	25	Boolean	negativeAmortizationIndicator			1	Item 1(c)(15)	o
3	26	Boolean	modificationIndicator			1	Item 1(c)(16)	o
3	27	Integer	modificationNumber	8		1	Item 1(c)(17)	o
3	28	Boolean	mortgageInsuranceRequirementIndicator			1	Item 1(c)(18)	o
3	29	Boolean	balloonIndicator			1	Item 1(c)(19)	o
3	30	String	coveredHighCostCode		COV_HIGH_COST_CODE_TYPE	1	Item 1(c)(20)	o
3	31	String	servicerHazardInsuranceCode		SRVR_HAZRD_INS_CODE_TYPE	1	Item 1(c)(21)	o
3	32	Decimal	refinanceCashOutAmount	20,8~~4,2~~		1	Item 1(c)(22)	o
3	33	Decimal	totalOriginationDiscountAmount	20,8~~4,2~~		1	Item 1(c)(23)	o
3	34	Boolean	brokerIndicator			1	Item 1(c)(24)	o
3	35	String	channelCode		CHNL_CODE_TYPE	1	Item 1(c)(25)	o
3	36	Integer	nationalMortgageLicenseSystemCompanyNumber	8		1	Item 1(c)(26)	o
3	37	Integer	buyDownNumber	8~~2~~		1	Item 1(c)(27)	o
3	38	Integer	loanDelinquencyAdvanceNumber	8		1	Item 1(c)(28)	o
3	39	String	originationARMIndexCode		ORIG_INDX_CODE_TYPE	1	Item 1(c)(29)(i)	o
3	40	Decimal	armMarginPercentage	20,8~~4,2~~		1	Item 1(c)(29)(ii)	o
3	41	Decimal	fullyIndexedRatePercentage	20,8~~4,2~~		1	Item 1(c)(29)(iii)	o
3	42	Integer	initialFixedRatePeriodHybridARMNumber	2		1	Item 1(c)(29)(iv)	o
3	43	Decimal	initialInterestRateDecreasePercentage	20,8~~4,2~~		1	Item 1(c)(29)(v)	o
3	44	Decimal	initialInterestRateIncreasePercentage	20,8~~4,2~~		1	Item 1(c)(29)(vi)	o
3	45	Integer	indexLookbackNumber	8		1	Item 1(c)(29)(vii)	o
3	46	Integer	subsequentInterestRateResetNumber	8		1	Item 1(c)(29)(viii)	o

Level	Order	Data Type	Element/Attribute Name	Max Length	Choice List	Max Occur	Item	Asset Data
3	47	Decimal	lifetimeRateCeilingPercentage	20,8 4,2		1	Item 1(c)(29)(ix)	o
3	48	Decimal	lifetimeRateFloorPercentage	20,8 4,2		1	Item 1(c)(29)(x)	o
3	49	Decimal	subsequentInterestRateDecreasePercentage	20,8 4,2		1	Item 1(c)(29)(xi)	o
3	50	Decimal	subsequentInterestRateIncreasePercentage	20,8 4,2		1	Item 1(c)(29)(xii)	o
3	51	Integer	subsequentPaymentResetNumber	8		1	Item 1(c)(29)(xiii)	o
3	52	String	armRoundCode		ARM_ROUND_CODE_TYPE	1	Item 1(c)(29)(xiv)	o
3	53	Decimal	armRoundPercentage	20,8 4,2		1	Item 1(c)(29)(xv)	o
3	54	Boolean	optionArmIndicator			1	Item 1(c)(29)(xvi)	o
3	55	String	paymentMethodAfterRecastCode		PYMNT_METH_CODE_TYPE	1	Item 1(c)(29)(xvii)	o
3	56	Decimal	initialMinimumPaymentAmount	20,8 4,2		1	Item 1(c)(29)(xviii)	o
3	57	Boolean	convertibleIndicator			1	Item 1(c)(29)(xix)	o
3	58	Boolean	HELOCIndicator			1	Item 1(c)(29)(xx)	o
3	59	Integer	HELOCDrawNumber	2		1	Item 1(c)(29)(xxi)	o
3	60	String	prepaymentPenaltyCalculationCode		PRPYMNT_PNLTY_CALC_CODE_TYPE	1	Item 1(c)(30)(i)	o
3	61	String	prepaymentPenaltyTypeCode		PRPYMNT_PNLTY_TYP_CODE_TYPE	1	Item 1(c)(30)(ii)	o
3	62	Integer	prepaymentPenaltyTotalTermNumber	8		1	Item 1(c)(30)(iii)	o
3	63	Integer	prepaymentPenaltyHardTermNumber	8		1	Item 1(c)(30)(iv)	o
3	64	Decimal	negativeAmortizationLimitAmount	20,8 4,2		1	Item 1(c)(31)(i)	o
3	65	Integer	negativeAmortizationInitialRecastNumber	8		1	Item 1(c)(31)(ii)	o
3	66	Integer	negativeAmortizationSubsequentRecastNumber	8		1	Item 1(c)(31)(iii)	o
3	67	Decimal	negativeAmortizationBalanceAmount	20,8 4,2		1	Item 1(c)(31)(iv)	o

Level	Order	Data Type	Element/Attribute Name	Max Length	Choice List	Max Occur	Item	Asset Data
3	68	Integer	initialFixedPaymentNumber	8		1	Item 1(c)(31)(v)	o
3	69	Decimal	initialPaymentCapPercentage	20,8~~14,2~~		1	Item 1(c)(31)(vi)	o
3	70	Decimal	subsequentPaymentCapPercentage	20,8~~14,2~~		1	Item 1(c)(31)(vii)	o
3	71	Integer	initialMinimumPaymentResetNumber	8		1	Item 1(c)(31)(viii)	o
3	72	Integer	subsequentMinimumPaymentResetNumber	8		1	Item 1(c)(31)(ix)	o
3	73	Decimal	minimumPaymentAmount	20,8~~14,2~~		1	Item 1(c)(31)(x)	o
3	74	Integer	geographicalLocation	8		1	Item 1(d)(1)	o
3	75	String	occupancyStatusCode		OCCPNCY_STAT_CODE_TYPE	1	Item 1(d)(2)	o
3	76	String	mostRecentOccupancyStatusCode		MST_RCNT_OCCPNCY_STAT_CODE_TYPE	1	Item 1(d)(3)	o
3	77	String	propertyTypeCode		PROPRTY_TYP_CODE_TYPE	1	Item 1(d)(4)	o
3	78	Decimal	mostRecentPropertyValueAmount	20,8~~14,2~~		1	Item 1(d)(5)	o
3	79	String	mostRecentPropertyValueTypeCode		PROPRTY_MST_RCNT_VAL_TYP_CODE_TYPE	1	Item 1(d)(6)	o
3	80	Date	mostRecentPropertyValueDate			1	Item 1(d)(7)	o
3	81	String	mostRecentAVMModelCode		PROPRTY_MST_RCNT_AVM_MDL_CODE_TYPE	1	Item 1(d)(8)	o
3	82	Integer	mostRecentAVMConfidenceNumber	8		1	Item 1(d)(9)	o
3	83	Decimal	originalCLTVPercentage	20,8~~14,2~~		1	Item 1(d)(10)	o
3	84	Decimal	originalLTVPercentage	20,8~~14,2~~		1	Item 1(d)(11)	o
3	85	Integer	originalObligorNumber	8		1	Item 1(e)(1)	o
3	86	String	originalObligorCreditScoreNumber	30		1	Item 1(e)(2)	o
3	87	String	originalObligorCreditScoreType	150		1	Item 1(e)(3)	o
3	88	String	mostRecentObligorCreditScoreNumber	30		1	Item 1(e)(4)	o
3	89	String	mostRecentObligorCreditScoreType	150		1	Item 1(e)(5)	o
3	90	Date	mostRecentObligorCreditScoreDate			1	Item 1(e)(6)	o

Level	Order	Data Type	Element/Attribute Name	Max Length	Choice List	Max Occur	Item	Asset Data
3	91	String	obligorIncomeVerificationLevelCode		OBLGR_INCM_VRFCTN_LVL_CODE_TYPE	1	Item 1(e)(7)	o
3	92	Boolean	IRSForm4506TIndicator			1	Item 1(e)(8)	o
3	93	Decimal	originatorFrontEndDTIPercentage	20,8 14,2		1	Item 1(e)(9)	o
3	94	Decimal	originatorBackEndDTIPercentage	20,8 14,2		1	Item 1(e)(10)	o
3	95	String	obligorEmploymentVerificationCode		OBLGR_EMPLOY_VRFCTN_CODE_TYPE	1	Item 1(e)(11)	o
3	96	String	obligorEmploymentLengthCode		OBLGR_EMPLOY_LEN_CODE_TYPE	1	Item 1(e)(12)	o
3	97	String	obligorAssetVerificationCode		OBLGR_ASSET_VRFCTN_CODE_TYPE	1	Item 1(e)(13)	o
3	98	Decimal	originalPledgedAssetsAmount	20,8 14,2		1	Item 1(e)(14)	o
3	99	String	qualificationMethodCode		OBLGR_QUALIF_METH_CODE_TYPE	1	Item 1(e)(15)	o
3	100	String	mortgageInsuranceCompanyName	150		1	Item 1(f)(1)	o
3	101	Decimal	mortgageInsuranceCoveragePercentage	20,8 14,2		1	Item 1(f)(2)	o
3	102	String	poolInsuranceCompanyName	150		1	Item 1(f)(3)	o
3	103	Decimal	poolInsuranceStopLossPercentage	20,8 14,2		1	Item 1(f)(4)	o
3	104	String	mortgageInsuranceCoverageTypeCode		MORTG_INS_CVRG_TYP_CODE_TYPE	1	Item 1(f)(5)	o
3	105	Boolean	assetAddedIndicator			1	Item 1(g)(1)	o
3	106	Integer	remainingTermToMaturityNumber	8		1	Item 1(g)(2)	o
3	107	Boolean	modificationIndicatorReportingPeriod			1	Item 1(g)(3)	o
3	108	Date	nextPaymentDueDate			1	Item 1(g)(4)	o
3	109	String	advancingMethodCode		ADV_METH_CODE_TYPE	1	Item 1(g)(5)	o
3	110	String	servicingAdvanceMethodologyCode		SRVC_ADV_METH_CODE_TYPE	1	Item 1(g)(6)	o
3	111	Date	stopPrincipalInterestAdvancingDate			1	Item 1(g)(7)	o
3	112	Decimal	reportingPeriodBeginningLoanBalanceAmount	20,8 14,2		1	Item 1(g)(8)	o
3	113	Decimal	reportingPeriodBeginningScheduledLoanBalanceAmount	20,8 14,2		1	Item 1(g)(9)	o
3	114	Decimal	nextReportingPeriodPaymentDueAmount	20,8 14,2		1	Item 1(g)(10)	o
3	115	Decimal	reportingPeriodInterestRatePercentage	20,8 14		1	Item 1(g)(11)	o

Level	Order	Data Type	Element/Attribute Name	Max Length	Choice List	Max Occur	Item	Asset Data
				4,2				
3	116	Decimal	nextInterestRatePercentage	20,8 4,2		1	Item 1(g)(12)	o
3	117	Decimal	servicingFeePercentage	20,8 4,2		1	Item 1(g)(13)	o
3	118	Decimal	servicingFlatFeeAmount	20,8 4,2		1	Item 1(g)(14)	o
3	119	Decimal	otherAssessedUncollectedServicerFeeamount	20,8 4,2		1	Item 1(g)(15)	o
3	120	Decimal	otherServicingFeeRetainedByServicerAmount	20,8 4,2		1	Item 1(g)(16)	o
3	121	Decimal	scheduledInterestAmount	20,8 4,2		1	Item 1(g)(17)	o
3	122	Decimal	otherInterestAdjustmentAmount	20,8 4,2		1	Item 1(g)(18)	o
3	123	Decimal	scheduledPrincipalAmount	20,8 4,2		1	Item 1(g)(19)	o
3	124	Decimal	otherPrincipalAdjustmentAmount	20,8 4,2		1	Item 1(g)(20)	o
3	125	Decimal	reportingPeriodEndActualBalanceAmount	20,8 4,2		1	Item 1(g)(21)	o
3	126	Decimal	reportingPeriodEndScheduledBalanceAmount	20,8 4,2		1	Item 1(g)(22)	o
3	127	Decimal	reportingPeriodScheduledPaymentAmount	20,8 4,2		1	Item 1(g)(23)	o
3	128	Decimal	totalActualPaidAmount	20,8 4,2		1	Item 1(g)(24)	o
3	129	Decimal	actualInterestCollectedAmount	20,8 4,2		1	Item 1(g)(25)	o
3	130	Decimal	actualPrincipalCollectedAmount	20,8 4,2		1	Item 1(g)(26)	o
3	131	Decimal	actualOtherCollectedAmount	20,8 4,2		1	Item 1(g)(27)	o
3	132	Date	paidThroughDate			1	Item 1(g)(28)	o
3	133	Date	interestPaidThroughDate			1	Item 1(g)(29)	o
3	134	Decimal	paidFullAmount	20,8 4,2		1	Item 1(g)(30)	o
3	135	Decimal	servicerAdvancedPrincipalAmount	20,8 4,2		1	Item 1(g)(31)(i)	o
3	136	Decimal	servicerAdvancedRepaidPrincipalAmount	20,8 4,2		1	Item 1(g)(31)(ii)	o

Level	Order	Data Type	Element/Attribute Name	Max Length	Choice List	Max Occur	Item	Asset Data
3	137	Decimal	serviceAdvancedCumulativePrincipalAmount	20,8 4,2		1	Item 1(g)(31)(iii)	o
3	138	Decimal	serviceAdvanceInterestAmount	20,8 4,2		1	Item 1(g)(31)(iv)	o
3	139	Decimal	serviceAdvanceRepaidInterestAmount	20,8 4,2		1	Item 1(g)(31)(v)	o
3	140	Decimal	serviceAdvanceCumulativeInterestAmount	20,8 4,2		1	Item 1(g)(31)(vi)	o
3	141	Decimal	serviceAdvanceTaxesInsuranceAmount	20,8 4,2		1	Item 1(g)(31)(vii)	o
3	142	Decimal	serviceAdvanceRepaidTaxesInsuranceAmount	20,8 4,2		1	Item 1(g)(31)(viii)	o
3	143	Decimal	serviceAdvanceCumulativeTaxesInsuranceAmount	20,8 4,2		1	Item 1(g)(31)(ix)	o
3	144	Decimal	serviceAdvanceCorporateAmount	20,8 4,2		1	Item 1(g)(31)(x)	o
3	145	Decimal	serviceAdvanceRepaidCorporateAmount	20,8 4,2		1	Item 1(g)(31)(xi)	o
3	146	Decimal	serviceAdvanceCumulativeCorporateAmount	20,8 4,2		1	Item 1(g)(31)(xii)	o
3	147	Date	zeroBalanceEffectiveDate			1	Item 1(g)(32)(i)	o
3	148	String	zeroBalanceCode		ZERO_BAL_CODE_TYPE	Unlimited	Item 1(g)(32)(ii)	o
3	149	String	mostRecentTwelveMonthHistoryCode		MST_RCNT_TWLV_MNTH_HSTRY_CODE_TYPE	1	Item 1(g)(33)	o
3	150	Integer	paymentPastDueNumber	8		1	Item 1(g)(34)	o
3	151	Decimal	nextResetRatePercentage	20,8 4,2		1	Item 1(g)(35)(i)	o
3	152	Date	nextPaymentChangeDate			1	Item 1(g)(35)(ii)	o
3	153	Date	nextInterestRateChangeDate			1	Item 1(g)(35)(iii)	o
3	154	Decimal	nextResetPaymentAmount	20,8 4,2		1	Item 1(g)(35)(iv)	o
3	155	Boolean	exercisedArmConversionOptionIndicator			1	Item 1(g)(35)(v)	o
3	156	String	primaryServicerName	150		1	Item 1(h)(1)	o
3	157	Date	mostRecentServicingTransferReceivedDate			1	Item 1(h)(2)	o
3	158	String	masterServicerName	150		1	Item 1(h)(3)	o

Level	Order	Data Type	Element/Attribute Name	Max Length	Choice List	Max Occur	Item	Asset Data
3	159	String	specialServicerName	150		1	Item 1(h)(4)	o
3	160	String	subServicerName	150		1	Item 1(h)(5)	o
3	161	Boolean	assetSubjectDemandIndicator			1	Item 1(i)	o
3	162	String	assetSubjectDemandStatusCode		ASSET_SUBJ_DEMAND_STAT_CODE_TYPE	1	Item 1(i)(1)	o
3	163	Decimal	repurchaseAmount	20,8~~14,2~~		1	Item 1(i)(2)	o
3	164	Date	demandResolutionDate			1	Item 1(i)(3)	o
3	165	String	repurchaserName	150		1	Item 1(i)(4)	o
3	166	String	repurchaseReplacementCode		REPRCH_REPLCMNT_CODE_TYPE	Unlimited	Item 1(i)(5)	o
3	167	Decimal	chargeOffPrincipalAmount	20,8~~14,2~~		1	Item 1(j)(1)	o
3	168	Decimal	chargeOffInterestAmount	20,8~~14,2~~		1	Item 1(j)(2)	o
3	169	String	lossMitigationTypeCode		LOSS_MTGTION_TYP_CODE_TYPE	Unlimited	Item 1(l)	o
3	170	String	mostRecentLoanModificationEventCode		MOD_MST_RCNT_LOAN_EVNT_CODE_TYPE	Unlimited	Item 1(m)(1)	o
3	171	Date	mostRecentLoanModificationEffectiveDate			1	Item 1(m)(2)	o
3	172	Date	postModificationMaturityDate			1	Item 1(m)(3)	o
3	173	String	postModificationInterestRateTypeCode		POST_MOD_INTR_RT_TYP_CODE_TYPE	1	Item 1(m)(4)	o
3	174	String	postModificationAmortizationTypeCode		POST_MOD_AMORT_TYP_CODE_TYPE	1	Item 1(m)(5)	o
3	175	Decimal	postModificationInterestPercentage	20,8~~14,2~~		1	Item 1(m)(6)	o
3	176	Date	postModificationFirstPaymentDate			1	Item 1(m)(7)	o
3	177	Decimal	postModificationLoanBalanceAmount	~~14,22~~0,8		1	Item 1(m)(8)	o
3	178	Decimal	postModificationPrincipalInterestPaymentAmount	~~14,22~~0,8		1	Item 1(m)(9)	o
3	179	Decimal	totalCapAmount	~~14,22~~0,8		1	Item 1(m)(10)	o
3	180	Boolean	incomeVerificationIndicatorAtModification			1	Item 1(m)(11)	o
3	181	Decimal	modificationFrontEndDebtToIncomePercentage	~~14,22~~0,8		1	Item 1(m)(12)	o
3	182	Decimal	modificationBackEndDebtToIncomePercentage	~~14,22~~0,8		1	Item 1(m)(13)	o

Level	Order	Data Type	Element/Attribute Name	Max Length	Choice List	Max Occur	Item	Asset Data
3	183	Decimal	totalDeferredAmount	14,22 0,8		1	Item 1(m)(14)	o
3	184	Decimal	forgivenPrincipalCumulativeAmount	14,22 0,8		1	Item 1(m)(15)	o
3	185	Decimal	forgivenPrincipalReportingPeriodAmount	14,22 0,8		1	Item 1(m)(16)	o
3	186	Decimal	forgivenInterestCumulativeAmount	14,22 0,8		1	Item 1(m)(17)	o
3	187	Decimal	forgivenInterestReportingPeriodAmount	14,22 0,8		1	Item 1(m)(18)	o
3	188	Decimal	actualEndingBalanceTotalDebtAmount	14,22 0,8		1	Item 1(m)(19)	o
3	189	Decimal	scheduledEndingBalanceTotalDebtAmount	14,22 0,8		1	Item 1(m)(20)	o
3	190	String	postModificationARMCode		POST_MOD_ARM_CODE_TYPE	1	Item 1(m)(21)(i)	o
3	191	String	postModificationARMIndexCode		POST_MOD_ARM_INDX_CODE_TYPE	1	Item 1(m)(21)(ii)	o
3	192	Decimal	postModificationMarginPercentage	14,22 0,8		1	Item 1(m)(21)(iii)	o
3	193	Integer	postModificationInterestResetNumber	2		1	Item 1(m)(21)(iv)	o
3	194	Date	postModificationNextResetDate			1	Item 1(m)(21)(v)	o
3	195	Integer	postModificationIndexLookbackNumber	8		1	Item 1(m)(21)(vi)	o
3	196	String	postModificationARMRoundingCode		POST_MOD_ARM_ROUND_CODE_TYPE	1	Item 1(m)(21)(vii)	o
3	197	Decimal	postModificationARMRoundingPercentage	14,22 0,8		1	Item 1(m)(21)(viii)	o
3	198	Decimal	postModificationInitialMinimumPayment	14,22 0,8		1	Item 1(m)(21)(ix)	o
3	199	Date	postModificationNextPaymentAdjustmentDate			1	Item 1(m)(21)(x)	o
3	200	Decimal	postModificationARMPaymentRecastFrequency	14,22 0,8		1	Item 1(m)(21)(xi)	o
3	201	Decimal	postModificationLifetimeFloorPercentage	14,22 0,8		1	Item 1(m)(21)(xii)	o
3	202	Decimal	postModificationLifetimeCeilingPercentage	14,22 0,8		1	Item 1(m)(21)(xiii)	o

Level	Order	Data Type	Element/Attribute Name	Max Length	Choice List	Max Occur	Item	Asset Data
3	203	Decimal	postModificationInitialInterestRateIncreasePercentage	14,22 0,8		1	Item 1(m)(21)(xiv)	o
3	204	Decimal	postModificationInitialInterestRateDecreasePercentage	14,22 0,8		1	Item 1(m)(21)(xv)	o
3	205	Decimal	postModificationSubsequentInterestIncreasePercentage	14,22 0,8		1	Item 1(m)(21)(xvi)	o
3	206	Decimal	postModificationSubsequentInterestRateDecreasePercentage	14,22 0,8		1	Item 1(m)(21)(xvii)	o
3	207	Decimal	postModificationPaymentCapPercentage	14,22 0,8		1	Item 1(m)(21)(xviii)	o
3	208	String	postModificationPaymentMethodAfterRecastCode		POST_MOD_PYMNT_METH_AFTR_RECAST_CODE_TYPE	1	Item 1(m)(21)(xix)	o
3	209	Integer	postModificationARMInterestRateTeaserNumber	2		1	Item 1(m)(21)(xx)	o
3	210	Integer	postModificationARMPaymentTeaserNumber	2		1	Item 1(m)(21)(xxi)	o
3	211	Boolean	postModificationARMNegativeAmortizationIndicator			1	Item 1(m)(21)(xxii)	o
3	212	Decimal	postModificationARMNegativeAmortizationCapPercentage	14,22 0,8		1	Item 1(m)(21)(xxiii)	o
3	213	Integer	postModificationInterestOnlyTermNumber	2		1	Item 1(m)(22)(i)	o
3	214	Date	postModificationInterestOnlyLastPaymentDate			1	Item 1(m)(22)(ii)	o
3	215	Decimal	postModificationBalloonAmount	14,22 0,8		1	Item 1(m)(23)	o
3	216	Boolean	postModificationInterestRateStepIndicator			1	Item 1(m)(24)(i)	o
3	217	Decimal	postModificationStepInterestPercentage	14,22 0,8		1	Item 1(m)(24)(ii)	o
3	218	Date	postModificationStepDate			1	Item 1(m)(24)(iii)	o
3	219	Decimal	postModificationStepPrincipalInterestPaymentAmount	14,22 0,8		1	Item 1(m)(24)(iv)	o
3	220	Integer	postModificationStepNumber	8		1	Item 1(m)(24)(v)	o
3	221	Decimal	postModificationMaximumFutureStepAgreementPercentage	14,22 0,8		1	Item 1(m)(24)(vi)	o
3	222	Date	postModificationMaximumStepAgreementRateDate			1	Item 1(m)(24)(vii)	o

Level	Order	Data Type	Element/Attribute Name	Max Length	Choice List	Max Occur	Item	Asset Data
3	223	Decimal	nonInterestBearingDeferredPrincipalCumulativeAmount	~~14,22~~ 0,8		1	Item 1(m)(25)	o
3	224	Decimal	nonInterestBearingDeferredPrincipalReportingPeriodAmount	~~14,22~~ 0,8		1	Item 1(m)(26)	o
3	225	Decimal	recoveryDeferredPrincipalReportingPeriodAmount	~~14,22~~ 0,8		1	Item 1(m)(27)	o
3	226	Decimal	nonInterestBearingDeferredPaidFullAmount	~~14,22~~ 0,8		1	Item 1(m)(28)	o
3	227	Decimal	nonInterestBearingDeferredInterestFeeReportingPeriodAmount	~~14,22~~ 0,8		1	Item 1(m)(29)	o
3	228	Decimal	nonInterestBearingDeferredInterestFeeCumulativeAmount	~~14,22~~ 0,8		1	Item 1(m)(30)	o
3	229	Decimal	recoveryDeferredInterestFeeReportingPeriodAmount	~~14,22~~ 0,8		1	Item 1(m)(31)	o
3	230	Date	mostRecentForbearancePlanOrTrialModificationStartDate			1	Item 1(n)(1)	o
3	231	Date	mostRecentForbearancePlanOrTrialModificationScheduledEndDate			1	Item 1(n)(2)	o
3	232	Date	mostRecentTrialModificationViolatedDate			1	Item 1(n)(3)	o
3	233	Date	mostRecentRepaymentPlanStartDate			1	Item 1(o)(1)	o
3	234	Date	mostRecentRepaymentPlanScheduledEndDate			1	Item 1(o)(2)	o
3	235	Date	mostRecentRepaymentPlanViolatedDate			1	Item 1(o)(3)	o
3	236	Decimal	shortSaleAcceptedOfferAmount	~~14,22~~ 0,8		1	Item 1(p)(1)	o
3	237	Date	mostRecentLossMitigationExitDate			1	Item 1(q)(1)	o
3	238	String	mostRecentLossMitigationExitCode		MST_RCNT_LOSS_MTGTION_EXIT_CODE_TYPE	1	Item 1(q)(2)	o
3	239	Date	attorneyReferralDate			1	Item 1(r)(1)	o
3	240	String	foreclosureDelayReasonCode		FORECL_DELAY_REASN_CODE_TYPE	Unlimited	Item 1(r)(2)	o
3	241	Date	foreclosureExitDate			1	Item 1(r)(3)	o
3	242	String	foreclosureExitReasonCode		FORECL_EXIT_REASN_CODE_TYPE	Unlimited	Item 1(r)(4)	o
3	243	Date	noticeOfIntentDate			1	Item 1(r)(5)	o
3	244	Decimal	mostRecentAcceptedREOOfferAmount	~~14,22~~ 0,8		1	Item 1(s)(1)	o
3	245	Date	mostRecentAcceptedREOOfferDate			1	Item 1(s)(2)	o
3	246	Decimal	grossLiquidationProceedsAmount	~~14,22~~		1	Item 1(s)(3)	

Level	Order	Data Type	Element/Attribute Name	Max Length	Choice List	Max Occur	Item	Asset Data
				0,8				
3	247	Decimal	netSalesProceedsAmount	14,22 0,8		1	Item 1(s)(4)	o
3	248	Decimal	reportingPeriodLossPassedToIssuingEntityAmount	14,22 0,8		1	Item 1(s)(5)	o
3	249	Decimal	cumulativeTotalLossPassedToIssuingEntityAmount	14,22 0,8		1	Item 1(s)(6)	o
3	250	Decimal	subsequentRecoveryAmount	14,22 0,8		1	Item 1(s)(7)	o
3	251	Boolean	evictionIndicator			1	Item 1(s)(8)	o
3	252	Date	reoExitDate			1	Item 1(s)(9)	o
3	253	String	reoExitReasonCode		REO_EXIT_REASN_CODE_TYPE	Unlimited	Item 1(s)(10)	o
3	254	Decimal	UPBLiquidationAmount	14,22 0,8		1	Item 1(t)(1)(i)	o
3	255	Decimal	servicingFeesClaimedAmount	14,22 0,8		1	Item 1(t)(1)(ii)	o
3	256	Decimal	servicerAdvanceReimbursedPrincipalAmount	14,22 0,8		1	Item 1(t)(1)(iii)	o
3	257	Decimal	servicerAdvanceReimbursedInterestAmount	14,22 0,8		1	Item 1(t)(1)(iv)	o
3	258	Decimal	servicerAdvanceReimbursedTaxesInsuranceAmount	14,22 0,8		1	Item 1(t)(1)(v)	o
3	259	Decimal	servicerAdvanceReimbursedCorporateAmount	14,22 0,8		1	Item 1(t)(1)(vi)	o
3	260	Decimal	REOManagementFeesAmount	14,22 0,8		1	Item 1(t)(1)(vii)	o
3	261	Decimal	cashKeyDeedAmount	14,22 0,8		1	Item 1(t)(1)(viii)	o
3	262	Decimal	performanceIncentiveFeesAmount	14,22 0,8		1	Item 1(t)(1)(ix)	o
3	263	Date	mortgageInsuranceClaimFiledDate			1	Item 1(u)(1)	o
3	264	Decimal	mortgageInsuranceClaimAmount	14,22 0,8		1	Item 1(u)(2)	o
3	265	Date	mortgageInsuranceClaimPaidDate			1	Item 1(u)(3)	o
3	266	Decimal	mortgageInsuranceClaimPaidAmount	14,22 0,8		1	Item 1(u)(4)	o
3	267	Date	mortgageInsuranceClaimDeniedRescindedDate			1	Item 1(u)(5)	o
3	268	Date	marketableTitleTransferDate			1	Item 1(u)(6)	o

Level	Order	Data Type	Element/Attribute Name	Max Length	Choice List	Max Occur	Item	Asset Data
3	269	String	nonPayStatusCode		NON_PAY_STAT_CODE_TYPE	1	Item 1(v)(1)	o
3	270	String	reportingActionCode		RPT_ACTN_CODE_TYPE	Unlimited	Item 1(v)(2)	o

3.4.5. Mapping of ABS DebtSecurities Schema to Asset Data Types

Level	Order	Data Type	Element/Attribute Name	Max Length	Choice List	Max Occur	Item	Asset Data
1	1	NV	assetData			1		m
2	1	NV	assets			Unlimited		m
3	1	String	assetTypeNumber	100		1	Item 5(a)(1)	m
3	2	String	assetNumber	25		1	Item 5(a)(2)	m
3	3	Integer	assetGroupNumber	8		1	Item 5(a)(3)	o
3	4	Date	reportPeriodBeginningDate			1	Item 5(b)(1)	o
3	5	Date	reportPeriodEndDate			1	Item 5(b)(2)	o
3	6	String	issuerName	150		1	Item 5(c)(1)	o
3	7	Date	originalIssuanceDate			1	Item 5(c)(2)	o
3	8	Decimal	originalSecurityAmount	~~14,22~~0,8		1	Item 5(c)(3)	o
3	9	Integer	originalSecurityTermNumber	8		1	Item 5(c)(4)	o
3	10	Date	securityMaturityDate			1	Item 5(c)(5)	o
3	11	Integer	originalAmortizationTermNumber	8		1	Item 5(c)(6)	o
3	12	Decimal	originalInterestRatePercentage	~~14,22~~0,8		1	Item 5(c)(7)	o
3	13	String	accrualTypeCode		ACCRL_TYP_CODE_TYPE	1	Item 5(c)(8)	o
3	14	String	interestRateTypeCode		INTR_RT_TYP_CODE_TYPE	1	Item 5(c)(9)	o
3	15	Integer	originalInterestOnlyTermNumber	8		1	Item 5(c)(10)	o
3	16	Date	firstPaymentDate			1	Item 5(c)(11)	o
3	17	Boolean	underwritingIndicator			1	Item 5(c)(12)	o
3	18	String	securityTitleName	150		1	Item 5(c)(13)	o
3	19	Decimal	denominationNumber	~~14,22~~0,8		1	Item 5(c)(14)	o
3	20	String	currencyName	100		1	Item 5(c)(15)	o
3	21	String	trusteeName	100		1	Item 5(c)(16)	o
3	22	String	secFileNumber	15		1	Item 5(c)(17)	m#
3	23	String	cik	10		1	Item 5(c)(18)	m#

Level	Order	Data Type	Element/Attribute Name	Max Length	Choice List	Max Occur	Item	Asset Data
3	24	Boolean	callableIndicator			1	Item 5(c)(19)	o
3	25	String	paymentFrequencyCode		PYMNT_FREQ_CODE_TYPE	1	Item 5(c)(20)	o
3	26	Boolean	zeroCouponIndicator			1	Item 5(c)(21)	o
3	27	Boolean	assetAddedIndicator			1	Item 5(d)(1)	o
3	28	Boolean	assetModifiedIndicator			1	Item 5(d)(2)	o
3	29	Decimal	reportPeriodBeginningAssetBalanceAmount	~~14,22~~ 0,8		1	Item 5(d)(3)	o
3	30	Decimal	reportPeriodBeginningScheduledAssetBalanceAmount	~~14,22~~ 0,8		1	Item 5(d)(4)	o
3	31	Decimal	reportPeriodScheduledPaymentAmount	~~14,22~~ 0,8		1	Item 5(d)(5)	o
3	32	Decimal	reportPeriodInterestRatePercentage	~~14,22~~ 0,8		1	Item 5(d)(6)	o
3	33	Decimal	totalActualPaidAmount	~~14,22~~ 0,8		1	Item 5(d)(7)	o
3	34	Decimal	actualInterestCollectionPercentage	~~14,22~~ 0,8		1	Item 5(d)(8)	o
3	35	Decimal	actualPrincipalCollectedAmount	~~14,22~~ 0,8		1	Item 5(d)(9)	o
3	36	Decimal	actualOtherCollectionAmount	~~14,22~~ 0,8		1	Item 5(d)(10)	o
3	37	Decimal	otherPrincipalAdjustmentAmount	~~14,22~~ 0,8		1	Item 5(d)(11)	o
3	38	Decimal	otherInterestAdjustmentAmount	~~14,22~~ 0,8		1	Item 5(d)(12)	o
3	39	Decimal	scheduledInterestAmount	~~14,22~~ 0,8		1	Item 5(d)(13)	o
3	40	Decimal	scheduledPrincipalAmount	~~14,22~~ 0,8		1	Item 5(d)(14)	o
3	41	Decimal	endReportingPeriodActualBalanceAmount	~~14,22~~ 0,8		1	Item 5(d)(15)	o
3	42	Decimal	endReportingPeriodScheduledBalanceAmount	~~14,22~~ 0,8		1	Item 5(d)(16)	o
3	43	Decimal	servicingFeePercentage	~~14,22~~ 0,8		1	Item 5(d)(17)	o
3	44	Decimal	servicingFlatFeeAmount	~~14,22~~ 0,8		1	Item 5(d)(18)	o
3	45	String	zeroBalanceCode		ZERO_BAL_CODE_TYPE	1	Item 5(d)(19)(i)	o
3	46	Date	zeroBalanceEffectiveDate			1	Item 5(d)(19)(ii)	o

Level	Order	Data Type	Element/Attribute Name	Max Length	Choice List	Max Occur	Item	Asset Data
3	47	Integer	remainingTermToMaturityNumber	8		1	Item 5(d)(20)	o
3	48	Integer	currentDelinquentStatusNumber	8̶2̶		1	Item 5(d)(21)	o
3	49	Integer	paymentPastDueDaysNumber	8		1	Item 5(d)(22)	o
3	50	Integer	paymentPastDueNumber	8		1	Item 5(d)(23)	o
3	51	Decimal	nextReportPeriodPaymentDueAmount	1̶4̶,̶2̶2̶ 0,8		1	Item 5(d)(24)	o
3	52	Date	nextDueDate			1	Item 5(d)(25)	o
3	53	String	primaryLoanServicerName	30		1	Item 5(e)(1)	o
3	54	Date	mostRecentServicingTransferReceivedDate			1	Item 5(e)(2)	o
3	55	Boolean	assetSubjectToDemandIndicator			1	Item 5(f)	o
3	56	String	statusAssetSubjectToDemandCode		STAT_ASSET_SUBJ_TO_DEMND_CODE_TYPE	1	Item 5(f)(1)	o
3	57	Decimal	repurchaseAmount	1̶4̶,̶2̶2̶ 0,8		1	Item 5(f)(2)	o
3	58	Date	demandResolutionDate			1	Item 5(f)(3)	o
3	59	String	repurchaserName	150		1	Item 5(f)(4)	o
3	60	String	repurchaseReplacementReasonCode		REPRCH_REPLCMNT_REASN_CODE_TYPE	Unlimited	Item 5(f)(5)	o

4. DATA VALUE CONSTRAINTS

4.1. Data Value constraints for AutoLoan

4.1.1. INTR_CALC_TYP_CODE_TYPE

These are the valid values for the <INTR_CALC_TYP_CODE_TYPE> element in the submission file:

VALUE	CODE DESCRIPTION
1	Simple
98	Other

4.1.2. ORIG_INTR_RT_TYP_CODE_TYPE

These are the valid values for the <ORIG_INTR_RT_TYP_CODE_TYPE> element in the submission file:

VALUE	CODE DESCRIPTION
1	Fixed
2	Adjustable
98	Other

4.1.3. PYMNT_TYP_CODE_TYPE

These are the valid values for the <PYMNT_TYP_CODE_TYPE> element in the submission file:

VALUE	CODE DESCRIPTION
1	Bi-Weekly
2	Monthly
3	Quarterly
4	Balloon
98	Other

4.1.4. SUBVNT_CODE_TYPE

These are the valid values for the <SUBVNT_CODE_TYPE> element in the submission file:

VALUE	CODE DESCRIPTION
0	No
1	Yes - Rate Subvention
2	Yes - Cash Rebate
98	Yes - Other

4.1.5. VHCL_NEW_USED_CODE_TYPE

These are the valid values for the <VHCL_NEW_USED_CODE_TYPE> element in the submission file:

VALUE	CODE DESCRIPTION
1	New
2	Used

4.1.6. VHCL_TYP_CODE_TYPE

These are the valid values for the <VHCL_TYP_CODE_TYPE> element in the submission file:

VALUE	CODE DESCRIPTION
1	Car
2	Truck
3	SUV
4	Motorcycle
98	Other
99	Unknown

4.1.7. VHCL_VAL_SRC_CODE_TYPE

These are the valid values for the <VHCL_VAL_SRC_CODE_TYPE> element in the submission file:

VALUE	CODE DESCRIPTION
1	Invoice Price
2	MSRP
3	Kelley Blue Book
98	Other

4.1.8. OBLGR_INCM_VRFCTN_LVL_CODE_TYPE

These are the valid values for the <OBLGR_INCM_VRFCTN_LVL_CODE_TYPE> element in the submission file:

VALUE	CODE DESCRIPTION
1	Not stated, not verified
2	Stated, not verified
3	Stated, verified but not to "level 4" or "level 5"

VALUE	CODE DESCRIPTION
4	Stated, "level 4" verified Level 4 income verification = Previous year W-2 or tax returns, and year-to-date pay stubs, if salaried. If self-employed, then obligor provided 2 years of tax returns.
5	Stated, "level 5" verified Level 5 income verification = 24 months income verification (W-2s, pay stubs, bank statements and/or tax returns). If self-employed, then obligor provided 2 years tax returns plus a CPA certification of the tax returns.

4.1.9.   OBLGR_EMPLOY_VRFCTN_CODE_TYPE

These are the valid values for the <OBLGR_EMPLOY_VRFCTN_CODE_TYPE> element in the submission file:

VALUE	CODE DESCRIPTION
1	Not stated, not verified
2	Stated, not verified
3	Stated, "level 3" verified Level 3 verified = Direct independent verification with a third party of the obligor's current employment.

4.1.10. SRVC_ADV_METH_CODE_TYPE

These are the valid values for the <SRVC_ADV_METH_CODE_TYPE> element in the submission file:

VALUE	CODE DESCRIPTION
1	No advancing
2	Interest only
3	Principal only
4	Principal and Interest
99	Unavailable

4.1.11. ZERO_BAL_CODE_TYPE

These are the valid values for the <ZERO_BAL_CODE_TYPE> element in the submission file:

VALUE	CODE DESCRIPTION
1	Prepaid or Matured
2	Third-Party Sale
3	Repurchased or Replaced
4	Charged-off

VALUE	CODE DESCRIPTION
5	Servicing Transfer
99	Unavailable

4.1.12. REPRCH_ASSET_SUBJ_DMAND_CODE_TYPE

These are the valid values for the < REPRCH_ASSET_SUBJ_DMAND_CODE_TYPE > element in the submission file:

VALUE	CODE DESCRIPTION
0	Asset Pending Repurchase or Replacement
1	Asset Was Repurchased or Replaced
2	Demand in Dispute
3	Demand Withdrawn
4	Demand Rejected
98	Other

4.1.13. REPRCH_RPLCMNT_REASN_CODE_TYPE

These are the valid values for the <REPRCH_RPLCMNT_REASN_CODE_TYPE> element in the submission file:

VALUE	CODE DESCRIPTION
1	Fraud
2	Early Payment Default
3	Other Recourse Obligation
4	Reps/Warrants Breach
5	Servicer Breach
98	Other
99	Unknown

4.1.14. MOD_TYPE_CODE_TYPE

These are the valid values for the <MOD_TYPE_CODE_TYPE> element in the submission file:

VALUE	CODE DESCRIPTION
1	APR
2	Principal
3	Term
4	Extension
98	Other

4.2. Data Value constraints for AutoLease

4.2.1. PYMNT_TYP_CODE_TYPE

These are the valid values for the <PYMNT_TYP_CODE_TYPE> element in the submission file:

VALUE	CODE DESCRIPTION
1	Bi-Weekly
2	Monthly
3	Quarterly
4	Prepaid
98	Other

4.2.2. SUBVNT_CODE_TYPE

These are the valid values for the <SUBVNT_CODE_TYPE> element in the submission file:

VALUE	CODE DESCRIPTION
0	No
1	Yes - Rate or Finance Charge Subvention
2	Yes - Residual Subvention
98	Yes - Other

4.2.3. VHCL_NEW_USED_CODE_TYPE

These are the valid values for the <VHCL_NEW_USED_CODE_TYPE> element in the submission file:

VALUE	CODE DESCRIPTION
1	New
2	Used

4.2.4. VHCL_TYP_CODE_TYPE

These are the valid values for the <VHCL_TYP_CODE_TYPE> element in the submission file:

VALUE	CODE DESCRIPTION
1	Car
2	Truck
3	SUV

VALUE	CODE DESCRIPTION
4	Motorcycle
98	Other
99	Unknown

4.2.5.   VHCL_VAL_SRC_CODE_TYPE

These are the valid values for the <VHCL_VAL_SRC_CODE_TYPE> element in the submission file:

VALUE	CODE DESCRIPTION
1	Invoice Price
2	MSRP
3	Kelley Blue Book
98	Other

4.2.6.   BS_RESDL_SRC_CODE_TYPE

These are the valid values for the <BS_RESDL_SRC_CODE_TYPE> element in the submission file:

VALUE	CODE DESCRIPTION
1	Black Book
2	Automotive Lease Guide
98	Other

4.2.7.   LSSE_INCM_VRFCTN_LVL_CODE_TYPE

These are the valid values for the <LSSE_INCM_VRFCTN_LVL_CODE_TYPE> element in the submission file:

VALUE	CODE DESCRIPTION
1	Not stated, not verified
2	Stated, not verified
3	Stated, verified but not to "level 4" or "level 5"
4	Stated, "level 4" verified Level 4 income verification = Previous year W-2 or tax returns, and year-to-date pay stubs, if salaried. If self-employed, then lessee provided 2 years of tax returns.
5	Stated, "level 5" verified Level 5 income verification = 24 months income verification (W-2s, pay stubs, bank statements and/or tax returns). If self-employed, then lessee provided 2 years tax returns plus a CPA certification of the tax returns.

4.2.8. LSSE_EMPLOY_VRFCTN_CODE_TYPE

These are the valid values for the <LSSE_EMPLOY_VRFCTN_CODE_TYPE> element in the submission file:

VALUE	CODE DESCRIPTION
1	Not stated, not verified
2	Stated, not verified
3	Stated, "level 3" verified Level 3 verified = Direct independent verification with a third party of the lessee's current employment.

4.2.9. SRVC_ADV_METH_CODE_TYPE

These are the valid values for the <SRVC_ADV_METH_CODE_TYPE> element in the submission file:

VALUE	CODE DESCRIPTION
1	No advancing
2	Interest only
3	Principal only
4	Principal and Interest
99	Unknown

4.2.10. ZERO_BAL_CODE_TYPE

These are the valid values for the <ZERO_BAL_CODE_TYPE> element in the submission file:

VALUE	CODE DESCRIPTION
1	Terminated
2	Repurchased or Replaced
3	Charged-off
4	Servicing Transfer
99	Unavailable

4.2.11. REPRCH_STAT_ASSET_SUBJ_DMAND_CODE_TYPE

These are the valid values for the <REPRCH_STAT_ASSET_SUBJ_DMAND_CODE_TYPE> element in the submission file:

VALUE	CODE DESCRIPTION
0	Asset Pending Repurchase or Replacement
1	Asset Was Repurchased or Replaced
2	Demand in Dispute
3	Demand Withdrawn
4	Demand Rejected
98	Other

4.2.12. REPRCH_RPLC_REASN_CODE_TYPE

These are the valid values for the <REPRCH_RPLC_REASN_CODE_TYPE> element in the submission file:

VALUE	CODE DESCRIPTION
1	Fraud
2	Early Payment Default
3	Other Recourse Obligation
4	Reps/Warrants Breach
5	Servicer Breach
98	Other
99	Unknown

4.2.13. MOD_TYPE_CODE_TYPE

These are the valid values for the <MOD_TYPE_CODE_TYPE> element in the submission file:

VALUE	CODE DESCRIPTION
1	Payment Amount
2	Term
3	Extension
98	Other

4.2.14. TERMNTN_CODE_TYPE

These are the valid values for the <TERMNTN_CODE_TYPE> element in the submission file:

VALUE	CODE DESCRIPTION
1	Payoff
2	Return
3	Repossession
4	Repurchase

VALUE	CODE DESCRIPTION
98	Other

4.3. Data Value constraints for CMBS

4.3.1.   INTR_ACCRL_METH_CODE_TYPE

These are the valid values for the <INTR_ACCRL_METH_CODE_TYPE> element in the submission file:

VALUE	CODE DESCRIPTION
1	30/360
2	Actual/365
3	Actual/360
4	Actual/Actual
5	Actual/366
6	Simple
7	78s
98	Other

4.3.2.   ORIG_INTR_RT_TYP_CODE_TYPE

These are the valid values for the <ORIG_INTR_RT_TYP_CODE_TYPE> element in the submission file:

VALUE	CODE DESCRIPTION
1	Fixed
2	ARM
3	Step
4	Other

4.3.3.   LIEN_PSTN_CODE_TYPE

These are the valid values for the <LIEN_PSTN_CODE_TYPE> element in the submission file:

VALUE	CODE DESCRIPTION
1	Primary
2	Secondary
3	Tertiary;etc
98	Other
99	Unknown

4.3.4. LOAN_STCTR_CODE_TYPE

These are the valid values for the <LOAN_STCTR_CODE_TYPE> element in the submission file:

VALUE	CODE DESCRIPTION
A1	A Note; A/B Participation Structure
A2	A Note; A/B/C Participation Structure
B1	B Note; A/B Participation Structure
B2	B Note; A/B/C Participation Structure
C2	C Note; A/B/C Participation Structure
MZ	Mezzanine Financing
PP	Participated mortgage loan with pari passu debt outside trust
WL	Whole loan structure

4.3.5. PYMNT_TYP_CODE_TYPE

These are the valid values for the <PYMNT_TYP_CODE_TYPE> element in the submission file:

VALUE	CODE DESCRIPTION
1	Fully Amortizing
2	Amortizing Balloon
3	Interest Only/Balloon
4	Interest Only/Amortizing
5	Interest Only/Amortizing/Balloon
6	Principal Only
7	Hyper - Amortization
98	Other

4.3.6. PYMNT_FREQ_CODE_TYPE

These are the valid values for the <PYMNT_FREQ_CODE_TYPE> element in the submission file:

VALUE	CODE DESCRIPTION
1	Monthly
3	Quarterly
6	Semi-Annually
12	Annually
365	Daily

4.3.7. ARM_INDX_CODE_TYPE

These are the valid values for the <ARM_INDX_CODE_TYPE> element in the submission file:

VALUE	CODE DESCRIPTION
A	11 FHLB COFI (1 Month)
B	11 FHLB COFI (6 Month)
C	1 Year CMT Weekly Average Treasury
D	3 Year CMT Weekly Average Treasury
E	5 Year CMT Weekly Average Treasury
F	Wall Street Journal Prime Rate
G	1 Month LIBOR
H	3 Month LIBOR
I	6 Month LIBOR
J	National Mortgage Index Rate
98	Other

4.3.8. RT_RST_FREQ_CODE_TYPE

These are the valid values for the <RT_RST_FREQ_CODE_TYPE> element in the submission file:

VALUE	CODE DESCRIPTION
1	Monthly
3	Quarterly
6	Semi-Annually
12	Annually
365	Daily

4.3.9. PY_RST_FREQ_CODE_TYPE

These are the valid values for the <PY_RST_FREQ_CODE_TYPE> element in the submission file:

VALUE	CODE DESCRIPTION
1	Monthly
3	Quarterly
6	Semi-Annually
12	Annually
365	Daily

4.3.10. PROPRTY_TYP_CODE_TYPE

These are the valid values for the <PROPRTY_TYP_CODE_TYPE> element in the submission file:

VALUE	CODE DESCRIPTION
CH	Cooperative housing
HC	HealthCare
IN	Industrial
LO	Lodging
MF	Multifamily
MH	Mobile Home Park
MU	Mixed Use
OF	Office
RT	Retail
SE	Securities
SS	Self Storage
WH	Warehouse
ZZ	Missing Information
98	Other

4.3.11. VAL_SRC_SCRTZTN_CODE_TYPE

These are the valid values for the <VAL_SRC_SCRTZTN_CODE_TYPE> element in the submission file:

VALUE	CODE DESCRIPTION
BPO	Broker price opinion
MAI	Certified MAI appraisal
MS	Master servicer estimate
Non-MAI	Non-certified MAI appraisal
98	Other
SS	SS estimate

4.3.12. MST_RCNT_VAL_SRC_CODE_TYPE

These are the valid values for the <MST_RCNT_VAL_SRC_CODE_TYPE> element in the submission file:

VALUE	CODE DESCRIPTION
98	Other
BPO	Broker price option
MAI	Certified MAI appraisal
MS	Master Servicer Estimate

VALUE	CODE DESCRIPTION
Non-MAI	Non-certified MAI Appraisal
SS	SS Estimate

4.3.13. PROPRTY_STAT_CODE_TYPE

These are the valid values for the <PROPRTY_STAT_CODE_TYPE> element in the submission file:

VALUE	CODE DESCRIPTION
1	In Foreclosure
2	REO
3	Defeased
4	Partial Release
5	Substituted
6	Same as at Securitization

4.3.14. DFSNC_STAT_CODE_TYPE

These are the valid values for the <DFSNC_STAT_CODE_TYPE> element in the submission file:

VALUE	CODE DESCRIPTION
F	Full Defeasance
IP	Portion of Loan Previously Defeased
N	No Defeasance Occurred
X	Defeasance Not Allowable

4.3.15. NET_OPRTNG_INCM_NET_CASH_FLW_SCRTZTN_CODE_TYPE

These are the valid values for the < NET_OPRTNG_INCM_NET_CASH_FLW _SCRTZTN_CODE_TYPE> element in the submission file:

VALUE	CODE DESCRIPTION
CMSA	Calculated using CMSA standard
PSA	Calculated using a definition given in the pooling and servicing agreement
UW	Calculated using the underwriting method

4.3.16. NET_OPRTNG_INCM_NET_CASH_FLW_CODE_TYPE

These are the valid values for the <NET_OPRTNG_INCM_NET_CASH_FLW_CODE_TYPE> element in the submission file:

VALUE	CODE DESCRIPTION
CMSA	Calculated using CMSA Standard
PSA	Calculated using a definition given in the pooling and servicing agreement
UW	Calculated using the underwriting method

4.3.17. DEBT_SRVC_CVRG_CODE_TYPE

These are the valid values for the <DEBT_SRVC_CVRG_CODE_TYPE> element in the submission file:

VALUE	CODE DESCRIPTION
A	Average - Not all properties received financials, servicer allocates debt service only to properties where financials are received.
C	Consolidated - All properties reported on one "rolled up" financial from the borrower
F	Full - All Statements Collected for all properties
N	None Collected - no financial statements were received
P	Partial - Not all properties received financials, servicer to leave empty
W	Worst Case - Not all properties received financial statements, servicer allocates 100% of Debt Service to all properties where financials are received

4.3.18. MST_RCNT_DEBT_SRVC_AMT_CODE_TYPE

These are the valid values for the <MST_RCNT_DEBT_SRVC_AMT_CODE_TYPE> element in the submission file:

VALUE	CODE DESCRIPTION
A	Average - Not all properties received financials, servicer allocates debt service only to properties where financial statements are received.
C	Consolidated - All properties reported on one "rolled up" financial statement from the borrower
F	Full - All financial statements collected for all properties
N	None collected - No financials were received
P	Partial - Not all properties received financial statements, servicer to leave empty
W	"Worst Case" - Not all properties received financial statements, servicer allocates 100% of debt service to all properties where financial statements are received.

4.3.19. SRVC_ADV_METH_CODE_TYPE

These are the valid values for the <SRVC_ADV_METH_CODE_TYPE> element in the submission file:

VALUE	CODE DESCRIPTION
1	Scheduled Interest, Scheduled Principal
2	Actual Interest, Actual Principal
3	Scheduled Interest, Actual Principal

VALUE	CODE DESCRIPTION
98	Other
99	unknown

4.3.20. PYMNT_STAT_LOAN_CODE_TYPE

These are the valid values for the <PYMNT_STAT_LOAN_CODE_TYPE> element in the submission file:

VALUE	CODE DESCRIPTION
1	30-59 days delinquent
2	60-89 days delinquent
3	90+ days delinquent
4	Performing matured balloon
5	Non performing matured balloon.
A	Payment not received but still in grace period or not yet due.
B	Late payment but less than 30 days delinquent

4.3.21. ASSET_SUBJ_DEMAND_STAT_CODE_TYPE

These are the valid values for the <ASSET_SUBJ_DEMAND_STAT_CODE_TYPE> element in the submission file:

VALUE	CODE DESCRIPTION
0	Asset Pending Repurchase or Replacement (within cure period)
1	Asset was Repurchased or Replaced
2	Demand in Dispute
3	Demand Withdrawn
4	Demand Rejected

4.3.22. REPRCH_RPLCMNT_REASN_CODE_TYPE

These are the valid values for the <REPRCH_RPLCMNT_REASN_CODE_TYPE> element in the submission file:

VALUE	CODE DESCRIPTION
1	Fraud
2	Early Payment Default
3	Other recourse obligation
4	Reps/Warrants breach
5	Servicer breach

VALUE	CODE DESCRIPTION
98	Other
99	Unknown

4.3.23. LIQDTN_PRPYMNT_CODE_TYPE

These are the valid values for the <LIQDTN_PRPYMNT_CODE_TYPE> element in the submission file:

VALUE	CODE DESCRIPTION
1	Partial Liquidation(Curtailment)
2	Payoff Prior to Maturity
3	Disposition/Liquidation
4	Repurchase/Substitution
5	Full Payoff at Maturity
6	DPO
7	Liquidated-only for use for loans liquidated prior to 7/1/2006
8	Payoff w/ Penalty
9	Payoff w/ Yield Maintenance
10	Curtailment w/ Penalty
11	Curtailment w/ yield Maintenance

4.3.24. WRKOUT_STRAT_CODE_TYPE

These are the valid values for the <WRKOUT_STRAT_CODE_TYPE> element in the submission file:

VALUE	CODE DESCRIPTION
1	Modification
2	Foreclosure
3	Bankruptcy
4	Extension
5	Note sale
6	DPO
7	REO
8	Resolved
9	Pending return to master servicer
10	Deed-in-lieu of Foreclosure
11	Full Payoff
12	Reps and Warranties
13	TBD
98	Other

4.3.25. MOD_CODE_TYPE

These are the valid values for the <MOD_CODE_TYPE> element in the submission file:

VALUE	CODE DESCRIPTION
1	Maturity Date Extension
2	Amortization Change
3	Principal Write-off
5	Temporary Rate Reduction
6	Capitalization on Interest
7	Capitalization on Taxes
8	Combination
98	Other

4.4. Data Value constraints for RMBS

4.4.1. ORIG_LOAN_PURPS_CODE_TYPE

These are the valid values for the <ORIG_LOAN_PURPS_CODE_TYPE> element in the submission file:

VALUE	CODE DESCRIPTION
1	Cash out
2	Limited cash-out (GSE definition)
3	Facilitate REO (repo financing for manufactured housing)
4	First time home purchase (Purchaser has not owned a principal residence in the past three years.)
5	Other-than-first-time home purchase
6	Rate/term refinance - lender initiated
7	Rate/term refinance - obligor initiated
8	Construction to permanent: A mortgage loan on completed construction under one mortgage or trust deed in which the completion certificate and the certificate of occupancy have been obtained.
9	Assumption
98	Other
99	Unknown

4.4.2. ACCRL_TYP_CODE_TYPE

These are the valid values for the <ACCRL_TYP_CODE_TYPE> element in the submission file:

VALUE	CODE DESCRIPTION
1	30/360
2	Actual/365
3	Actual/360
4	Actual/Actual
5	Actual/366
6	Simple
7	78s
98	Other

4.4.3. ORIG_INTR_RT_TYP_CODE_TYPE

These are the valid values for the <ORIG_INTR_RT_TYP_CODE_TYPE> element in the submission file:

VALUE	CODE DESCRIPTION
1	Fixed
2	Adjustable
3	Step
98	Other

4.4.4. ORIG_LIEN_PSTN_CODE_TYPE

These are the valid values for the <ORIG_LIEN_PSTN_CODE_TYPE> element in the submission file:

VALUE	CODE DESCRIPTION
1	First
2	Second
3	Third
98	Other
99	Unknown

4.4.5. ORIG_LOAN_TYP_MST_SNR_LIEN_CODE_TYPE

These are the valid values for the <ORIG_LOAN_TYP_MST_SNR_LIEN_CODE_TYPE> element in the submission file:

VALUE	CODE DESCRIPTION
1	Fixed rate
2	ARM
3	Hybrid

VALUE	CODE DESCRIPTION
4	Negative amortization
99	Unknown

4.4.6. COV_HIGH_COST_CODE_TYPE

These are the valid values for the <COV_HIGH_COST_CODE_TYPE> element in the submission file:

VALUE	CODE DESCRIPTION
0	No
1	Yes
99	Unknown

4.4.7. SRVR_HAZRD_INS_CODE_TYPE

These are the valid values for the < SRVR_HAZRD_INS_CODE_TYPE> element in the submission file:

VALUE	CODE DESCRIPTION
0	No
1	Yes
99	Unknown

4.4.8. CHNL_CODE_TYPE

These are the valid values for the <CHNL_CODE_TYPE> element in the submission file:

VALUE	CODE DESCRIPTION
1	Retail
2	Broker
3	Correspondent bulk
4	Correspondent flow with delegated underwriting
5	Correspondent flow without delegated underwriting
98	Other
99	Unknown

4.4.9. ORIG_INDX_CODE_TYPE

These are the valid values for the <ORIG_INDX_CODE_TYPE> element in the submission file:

VALUE	CODE DESCRIPTION
1	1 MONTH TREASURY (WEEKLY)
2	1 Year CMT Moving 12 Month Avg (MTA)
3	1 YEAR TREASURY (WEEKLY)
4	1 YR TREASURY (MONTHLY)
5	10 YEAR TREASURY (MONTHLY)
6	10 YEAR TREASURY (WEEKLY)
7	11TH DISTRICT COFI (MONTHLY)
8	11TH DISTRICT COFI (SEMI-ANNUAL)
9	2 YR TREASURY (MONTHLY)
10	2 YR TREASURY (WEEKLY)
11	3 MONTH TREASURY (MONTHLY)
12	3 MONTH TREASURY (WEEKLY)
13	3 MTH T-BILL AUCTION AVGDISCOUNT RATE (WEEKLY)
14	3 MTH TREASURY AUCTION AVG –INVESTMENT (WEEKLY)
15	3 YEAR TREASURY (WEEKLY)
16	3 YR TREASURY (MONTHLY)
17	5 YR TREASURY (MONTHLY)
18	5 YR TREASURY (WEEKLY)
19	6 MONTH US TREASURY (MONTHLY)
20	6 MONTH US TREASURY (WEEKLY)
21	6 MTH T-BILL AUCTION AVGDISCOUNT RATE (WEEKLY)
22	6 MTH TREASURY AUCTION AVG –INVESTMENT (WEEKLY)
23	7 YEAR TREASURY (WEEKLY)
24	CDs (secondary market) 6-month (WEEKLY)
25	FEDERAL RESERVE "PRIME RATE" (MONTHLY)
26	FHLB Contract Mortgage Rate Prev.Occupied
27	FHLBB CONTRACT (MONTHLY)
28	FHLBB EFFECTIVE RATE
29	FHLBB MONTHLY NATIONAL AVG MEDIAN COFI (MONTHLY)
30	FHLBB NATIONAL COFI QUARTERLY AVG
31	FNMA 6 MONTH TREASURY (WEEKLY)
32	FSLIC MONTHLY NATIONAL AVG MEDIAN COFI (MONTHLY)
33	WSJ "PRIME RATE" (DAILY)
34	WSJ "PRIME RATE" (First Business Day)
35	WSJ 1 MONTH LIBOR (DAILY)
36	WSJ 1 MONTH LIBOR (First Business Day)
37	WSJ 1 MONTH LIBOR FIRST DAY OF THE MONTH
38	WSJ 1 MONTH LIBOR(on or after 25th)

VALUE	CODE DESCRIPTION
39	WSJ 1 YEAR LIBOR (DAILY)
40	WSJ 1 YEAR LIBOR (First Business Day)
41	WSJ 3 MONTH LIBOR (DAILY)
42	WSJ 3 MONTH LIBOR(First Business Day)
43	WSJ 6 MONTH LIBOR (DAILY)
44	WSJ 6 MONTH LIBOR/30 L-B-DAYS (MONTHLY)
45	WSJ 6 month Libor WSJ-15th day
46	WSJ 6 MONTH LIBOR/Pub on 25th (MONTHLY)
47	WSJ 6-MONTH LIBOR (First Business Day)
48	3-Year CMT
49	5-Year CMT
50	7-Year CMT
98	Other
99	Unavailable

4.4.10. ARM_ROUND_CODE_TYPE

These are the valid values for the <ARM_ROUND_CODE_TYPE> element in the submission file:

VALUE	CODE DESCRIPTION
0	No rounding
1	Up
2	Down
3	Nearest
99	Unknown

4.4.11. PYMNT_METH_CODE_TYPE

These are the valid values for the <PYMNT_METH_CODE_TYPE> element in the submission file:

VALUE	CODE DESCRIPTION
1	Fully Amortizing 30 year
2	Fully Amortizing 15 year
3	Fully Amortizing 40 year
4	Interest-Only
5	Minimum Payment
6	Unknown

4.4.12. PRPYMNT_PNLTY_CALC_CODE_TYPE

These are the valid values for the <PRPYMNT_PNLTY_CALC_CODE_TYPE> element in the submission file:

VALUE	CODE DESCRIPTION
1	Lesser of 2% or 60 days interest
2	Lesser of 1% or 2 months interest
3	Lesser of 1% or 3 months interest or remaining bal of 1st year interest
4	Lesser of 1% or remaining bal of 1st year Interest
5	Lesser of 3 months interest or remaining bal of 1st year interest
6	Lesser of 1% or 6 months interest
7	Lesser of 2% or 6 months interest
8	Lesser of 3% or 6 months interest
9	Greater of 1% or $100
10	60 days interest
11	1 months interest
12	2 months interest
13	3 months interest
14	5 months interest
15	6 months interest
16	12 months interest
17	24 months interest
18	36 months interest
19	60 months interest
20	1%
21	2%
22	3%
23	4%
24	5%
25	6%
26	1%, 1%
27	2%, 1%
28	2%, 2%
29	3%, 1%
30	3%, 2%
31	3%, 3%
32	4%, 3%
33	5%, 1%
34	5%, 2%
35	5%, 4%

VALUE	CODE DESCRIPTION
36	5%, 5%
37	6%, 1%
38	1%, 1%, 1%
39	1%, 2%, 3%
40	2%, 2%, 2%
41	3%, 2%, 1%
42	3%, 3%, 1%
43	3%, 3%, 3%
44	5%, 3%, 1%
45	5%, 4%, 1%
46	5%, 4%, 3%
47	5%, 5%, 5%
48	4%, 3%, 2%, 1%
49	5%, 4%, 3%, 2%
50	5%, 4%, 3%, 2%, 1%
51	5%, 5%, 5%, 5%, 5%
52	10%, 7%, 3.5%
53	1%, 1%, 1%, 1%, 1%
54	2%, 2%, 2%, 2%, 2%
55	3%, 3%, 3%, 3%, 3%
56	3%, 2%, 1% or 6 months interest
98	Other
99	Unavailable

4.4.13. PRPYMNT_PNLTY_TYP_CODE_TYPE

These are the valid values for the <PRPYMNT_PNLTY_TYP_CODE_TYPE> element in the submission file:

VALUE	CODE DESCRIPTION
1	Hard: The prepayment penalty is incurred regardless of the reason the loan is prepaid in full.
2	Soft: The prepayment penalty is incurred only if the loan is prepaid in full due to a refinancing.
3	Hybrid: The prepayment penalty can be characterized as hard for a certain amount of time and as soft during another period.
99	Unknown

4.4.14. OCCPNCY_STAT_CODE_TYPE

These are the valid values for the <OCCPNCY_STAT_CODE_TYPE> element in the submission file:

VALUE	CODE DESCRIPTION
1	Owner-Occupied
2	Second Home
3	Investment Property
4	Transfer Owner-Occupied (loan has been assumed)
5	Non-Owner Occupied (tenant)
6	Vacant (not secure)
7	Vacant (secure)
8	Adverse Occupant
9	Occupied by Unknown Party
10	Partially Vacant
98	Other
99	Unavailable

4.4.15. MST_RCNT_OCCPNCY_STAT_CODE_TYPE

These are the valid values for the <MST_RCNT_OCCPNCY_STAT_CODE_TYPE> element in the submission file:

VALUE	CODE DESCRIPTION
1	Owner-occupied
2	Second-home
3	Investment property
4	Transfer owner – occupied (loan has been assumed)
5	Non-owner occupied (tenant)
6	Vacant (not secure)
7	Vacant (secure)
8	Adverse occupant
9	Occupied by unknown party
10	Partially vacant
98	Other
99	Unknown

4.4.16. PROPRTY_TYPE_CODE_TYPE

These are the valid values for the <PROPRTY_TYP_CODE_TYPE> element in the submission file:

VALUE	CODE DESCRIPTION
1	Single family detached (non-PUD)
2	Co-op

VALUE	CODE DESCRIPTION
3	Condo, low rise (4 or fewer stories)
4	Condo, high rise (5+ stories)
5	Condotel (as defined in Issuer's Underwriting Guidelines)
6	dPUD (PUD with "de minimus" monthly HOA dues)
7	PUD (Only for use with Single-Family detached homes with PUD riders)
8	Townhouse (Do not report as "PUD")
9	Single-wide manufactured housing
10	Double-wide manufactured housing
11	Multi-wide manufactured housing
12	1 family attached
13	2 family
14	3 family
15	4 family
98	Other
99	Unavailable

4.4.17. MST_RCNT_PROPERTY_VAL_CODE_TYPE

These are the valid values for the < MST_RCNT_PROPERTY_VAL_CODE_TYPE> element in the submission file:

VALUE	CODE DESCRIPTION
1	Tax Assessment
2	Drive-By Form 704
3	URAR Form 1004, Form 70, Form 72, Form 1025, Form 1073, Form 465, Form 2090, Form 1004C, and Form 70B (Form 1075 retired 11/1/2005)
4	Form 2070 and Form 2075 (Form 2065 retired 11/1/2005)
5	Form 2055, Form 1075, Form 466, and Form 2095 (Exterior Only)
6	Form 2055 (with Interior Inspection)
7	Automated Valuation Model (also indicate system code in field 127)
8	Reserved
9	Desk Review
10	BPO as-Is
11	BPO quick sale
12	NADA/Yellow Book Value (for MH)
13	Land Only (for Lot and MH)
14	Reserved
15	Case-Shiller/other index application

VALUE	CODE DESCRIPTION
16	Form 1004MC
98	Other
99	Unavailable

4.4.18. PROPRTY_MST_RCNT_AVM_MDL_CODE_TYPE

These are the valid values for the <PROPRTY_MST_RCNT_AVM_MDL_CODE_TYPE> element in the submission file:

VALUE	CODE DESCRIPTION
0	No AVM Used
1	HPA (FACL)
2	VP4 (FACL)
3	PASS (FACL)
4	PowerBase 6.0 (FACL)
5	HVE (Freddie Mac)
6	CASA (Fiserv)
7	APS (Fannie Mae)
8	iAVM (IntelliReal)
9	ValueFinder (LandSafe)
10	ValueSure (LPS)
11	SiteX Value (LPS)
12	CMV (MDAS)
13	ValueSmart (MDAS)
14	Real Assessment (Real Info)
15	i-Val (Real Info)
16	GeoCompVal (Real Info)
17	AVMax (RJ Peters)
18	VeroValue Preferred (Veros)
19	VeroValue (Veros)
20	VeroValue Advantage (Veros)
98	Other

4.4.19. OBLGR_INCM_VRFCTN_LVL_CODE_TYPE

These are the valid values for the <OBLGR_INCM_VRFCTN_LVL_CODE_TYPE> element in the submission file:

VALUE	CODE DESCRIPTION
1	Not Stated, not verified
2	Stated, not verified
3	Stated, verified but not verified to "level 4" "level 5"
4	Stated, "level 4" verified. Previous year W-2 or tax returns, and year-to-date pay stubs, if salaried. If self-employed, then obligor provided 2 years of tax returns.
5	Stated, "level 5" verified. 24 months income verification (W-2s, pay stubs, bank statements and/or tax returns). If self-employed, then obligor provided 2 years tax returns plus a CPA certification of the tax returns.

4.4.20. OBLGR_EMPLOY_VRFCTN_CODE_TYPE

These are the valid values for the <OBLGR_EMPLOY_VRFCTN_CODE_TYPE> element in the submission file:

VALUE	CODE DESCRIPTION
1	Not stated, not verified
2	Stated, not verified
3	Stated, level 3 verified. Level 3 verified = Direct independent verification with a third party of the obligor's current employment.

4.4.21. OBLGR_EMPLOY_LEN_CODE_TYPE

These are the valid values for the <OBLGR_EMPLOY_LEN_CODE_TYPE> element in the submission file:

VALUE	CODE DESCRIPTION
0	No
1	Yes
99	Unknown

4.4.22. OBLGR_ASSET_VRFCTN_CODE_TYPE

These are the valid values for the <OBLGR_ASSET_VRFCTN_CODE_TYPE> element in the submission file:

VALUE	CODE DESCRIPTION
1	Not stated, not verified
2	Stated, not verified
3	Stated, verified but not to "level 4".
4	Stated, "level 4" verified. Level 4 verified = 2 months of bank statements/balance documentation (written or electronic) for liquid assets (or gift letter).

4.4.23. OBLGR_QUALIF_METH_CODE_TYPE

These are the valid values for the <OBLGR_QUALIF_METH_CODE_TYPE> element in the submission file:

VALUE	CODE DESCRIPTION
1	Start Rate
2	First Year Cap Rate
3	Interest Only Amount
4	Fully Indexed
5	Minimum Payment
98	Other
99	Unknown

4.4.24. MORTG_INS_CVRG_TYP_CODE_TYPE

These are the valid values for the <MORTG_INS_CVRG_TYP_CODE_TYPE> element in the submission file:

VALUE	CODE DESCRIPTION
1	Loss limit cap
2	Pool
3	Risk sharing
4	Second layer
5	Standard primary

4.4.25. ADV_METH_CODE_TYPE

These are the valid values for the <ADV_METH_CODE_TYPE> element in the submission file:

VALUE	CODE DESCRIPTION
1	No Advancing
2	Interest Only
3	Principal Only
4	Principal and Interest
99	Unavailable

4.4.26. SRVC_ADV_METH_CODE_TYPE

These are the valid values for the <SRVC_ADV_METH_CODE_TYPE> element in the submission file:

VALUE	CODE DESCRIPTION
1	Scheduled interest, scheduled principal

VALUE	CODE DESCRIPTION
2	Actual interest, actual principal
3	Scheduled interest, actual principal
98	Other
99	Unknown

4.4.27. ZERO_BAL_CODE_TYPE

These are the valid values for the <ZERO_BAL_CODE_TYPE> element in the submission file:

VALUE	CODE DESCRIPTION
1	Prepaid or Matured
2	Third-party Sale
3	Short sale (if no FC date) or Short payoff
4	Deed-in-Lieu
5	Note sale
6	Repurchased or Replaced
7	Charged-off
8	REO Sale completed
9	Servicing transfer
10	Liquidated
99	Unavailable

4.4.28. MST_RCNT_TWLV_MNTH_HSTRY_CODE_TYPE

Item 1(g)(33) - These are the valid values for the
<MST_RCNT_TWLV_MNTH_HSTRY_CODE_TYPE> element in the submission file:

VALUE	CODE DESCRIPTION
0	Current
1	30-59 Days delinquent
2	60-89 Days delinquent
3	90-119 Days delinquent
4	120+ Days delinquent
5	Foreclosure
6	REO
7	Loan did not exist in period
99	Unknown

4.4.29. ASSET_SUBJ_DEMAND_STAT_CODE_TYPE

These are the valid values for the <ASSET_SUBJ_DEMAND_STAT_CODE_TYPE> element in the submission file:

VALUE	CODE DESCRIPTION
0	Asset Pending Repurchase or Replacement
1	Asset was Repurchased or Replaced
2	Demand in Dispute
3	Demand Withdrawn
4	Demand Rejected
98	Other

4.4.30. REPRCH_REPLCMNT_CODE_TYPE

These are the valid values for the <REPRCH_REPLCMNT_CODE_TYPE> element in the submission file:

VALUE	CODE DESCRIPTION
1	Fraud
2	Early payment default
3	Other recourse obligation
4	Reps/warrants breach
5	Servicer breach
98	Other
99	Unknown

4.4.31. LOSS_MTGTION_TYP_CODE_TYPE

These are the valid values for the <LOSS_MTGTION_TYP_CODE_TYPE> element in the submission file:

VALUE	CODE DESCRIPTION
1	Not in loss mitigation
2	Short payoff
3	Short sale
4	Deed-in-lieu
5	Modification
6	Repayment plan
7	Write-off consideration
8	Forbearance
9	Trial modification
98	Other
99	Unknown

4.4.32. MOD_MST_RCNT_LOAN_EVNT_CODE_TYPE

These are the valid values for the <MOD_MST_RCNT_LOAN_EVNT_CODE_TYPE> element in the submission file:

VALUE	CODE DESCRIPTION
1	Capitalization-fees or interest have been capitalized into the unpaid principal balance.
2	Change of payment frequency
3	Construction to permanent
4	Forgiveness of principal
5	Rate reductions
6	Maturity extensions
7	Forgiveness of interest
8	Unscheduled payment recast
98	Other

4.4.33. POST_MOD_INTR_RT_TYP_CODE_TYPE

These are the valid values for the <POST_MOD_INTR_RT_TYP_CODE_TYPE> element in the submission file:

VALUE	CODE DESCRIPTION
1	Fixed
2	Adjustable
3	Step
98	Other

4.4.34. POST_MOD_AMORT_TYP_CODE_TYPE

These are the valid values for the <POST_MOD_AMORT_TYP_CODE_TYPE> element in the submission file:

VALUE	CODE DESCRIPTION
1	Fully amortizing
2	Interest Only
3	Balloon
98	Other

4.4.35. POST_MOD_ARM_CODE_TYPE

These are the valid values for the <POST_MOD_ARM_CODE_TYPE> element in the submission file:

VALUE	CODE DESCRIPTION
0	No
1	Yes
99	Unknown

4.4.36. POST_MOD_ARM_INDX_CODE_TYPE

These are the valid values for the <POST_MOD_ARM_INDX_CODE_TYPE> element in the submission file:

VALUE	CODE DESCRIPTION
1	1 MONTH TREASURY (WEEKLY)
2	1 Year CMT Moving 12 Month Average (MTA)
3	1 YEAR TREASURY (WEEKLY)
4	1 YR TREASURY (MONTHLY)
5	10 YEAR TREASURY (MONTHLY)
6	10 YEAR TREASURY (WEEKLY)
7	11TH DISTRICT COFI (MONTHLY)
8	11TH DISTRICT COFI (SEMI-ANNUAL)
9	2 YR TREASURY (MONTHLY)
10	2 YR TREASURY (WEEKLY)
11	3 MONTH TREASURY (MONTHLY)
12	3 MONTH TREASURY (WEEKLY)
13	3 MTH T-BILL AUCTION AVGDISCOUNT RATE (WEEKLY)
14	3 MTH TREASURY AUCTION AVG –INVESTMENT (WEEKLY)
15	3 YEAR TREASURY (WEEKLY)
16	3 YR TREASURY (MONTHLY)
17	5 YR TREASURY (MONTHLY)
18	5 YR TREASURY (WEEKLY)
19	6 MONTH US TREASURY (MONTHLY)
20	6 MONTH US TREASURY (WEEKLY)
21	6 MTH T-BILL AUCTION AVGDISCOUNT RATE (WEEKLY)
22	6 MTH TREASURY AUCTION AVG –INVESTMENT (WEEKLY)
23	7 YEAR TREASURY (WEEKLY)
24	CDs (secondary market) 6-month (WEEKLY)
25	FEDERAL RESERVE "PRIME RATE" (MONTHLY)
26	FHLB Contract Mortgage Rate Prev. Occupied
27	FHLBB CONTRACT (MONTHLY)

VALUE	CODE DESCRIPTION
28	FHLBB EFFECTIVE RATE
29	FHLBB MONTHLY NATIONAL AVG MEDIAN COFI (MONTHLY)
30	FHLBB NATIONAL COFI QUARTERLY AVG
31	FNMA 6 MONTH TREASURY (WEEKLY)
32	FSLIC MONTHLY NATIONAL AVG MEDIAN COFI (MONTHLY)
33	WSJ "PRIME RATE" (DAILY)
34	WSJ "PRIME RATE" (First Business Day)
35	WSJ 1 MONTH LIBOR (DAILY)
36	WSJ 1 MONTH LIBOR (First Business Day) OF THE MONTH
37	WSJ 1 MONTH LIBOR FIRST DAY OF THE MONTH
38	WSJ 1 MONTH LIBOR(on or after 25th)
39	WSJ 1 YEAR LIBOR (DAILY)
40	WSJ 1 YEAR LIBOR (First Business Day)
41	WSJ 3 MONTH LIBOR (DAILY)
42	WSJ 3 MONTH LIBOR(First Business Day)
43	WSJ 6 MONTH LIBOR (DAILY)
44	WSJ 6 MONTH LIBOR/30 L-B-DAYS (MONTHLY)
45	WSJ 6 month Libor WSJ-15th day
46	WSJ 6 MONTH LIBOR/Pub on 25th (MONTHLY)
47	WSJ 6-MONTH LIBOR (First Business Day)
48	3-Year CMT
49	5-Year CMT
50	7-Year CMT
98	Other
99	Unavailable

4.4.37. POST_MOD_ARM_ROUND_CODE_TYPE

These are the valid values for the <POST_MOD_ARM_ROUND_CODE_TYPE> element in the submission file:

VALUE	CODE DESCRIPTION
0	No Rounding
1	Up
2	Down
3	Nearest
99	Unknown

4.4.38. POST_MOD_PYMNT_METH_AFTR_RECAST_CODE_TYPE

These are the valid values for the
<POST_MOD_PYMNT_METH_AFTR_RECAST_CODE_TYPE> element in the submission
file:

VALUE	CODE DESCRIPTION
1	Fully amortizing 30 year
2	Fully amortizing 15 year
3	Fully amortizing 40 year
4	Interest-Only
5	Minimum Payment
6	Unknown

4.4.39. MST_RCNT_LOSS_MTGTION_EXIT_CODE_TYPE

These are the valid values for the <MST_RCNT_LOSS_MTGTION_EXIT_CODE_TYPE>
element in the submission file:

VALUE	CODE DESCRIPTION
1	Completed/satisfied
2	Cancelled/failed
3	Denied
98	Other
99	Unknown

4.4.40. FORECL_DELAY_REASN_CODE_TYPE

These are the valid values for the <FORECL_DELAY_REASN_CODE_TYPE> element in the
submission file:

VALUE	CODE DESCRIPTION
1	No delay
2	Loss mitigation delay
3	Bankruptcy delay
4	Title/document delay
5	Contestation delay
6	Court/procedural delay
7	Loss mitigation/servicer delay
8	Statutory moratorium
9	Disaster relief/other
10	Relief Act

VALUE	CODE DESCRIPTION
98	Other
99	Unavailable

4.4.41. FORECL_EXIT_REASN_CODE_TYPE

These are the valid values for the <FORECL_EXIT_REASN_CODE_TYPE> element in the submission file:

VALUE	CODE DESCRIPTION
1	Third-party Sale
2	REO
3	Loss mitigation
4	Bankruptcy
5	Reinstatement
6	Charge-off
7	Paid in Full
8	Foreclosure started in error
9	Redeemed
98	Other
99	Unknown

4.4.42. REO_EXIT_REASN_CODE_TYPE

These are the valid values for the <REO_EXIT_REASN_CODE_TYPE> element in the submission file:

VALUE	CODE DESCRIPTION
1	REO Sale Completed
2	Bankruptcy
3	Loss Mitigation
4	Litigation
5	Rescinded
98	Other
99	Unknown

4.4.43. NON_PAY_STAT_CODE_TYPE

These are the valid values for the <NON_PAY_STAT_CODE_TYPE> element in the submission file:

VALUE	CODE DESCRIPTION
9	Forbearance – the servicer has authorized a temporary suspension of payments or has agreed to accept periodic payments of less than the borrower's scheduled monthly payment, periodic payments at different intervals, etc., to give the borrower additional time and a means for bringing the mortgage current by repaying all delinquent installments.
12	Repayment plan – the servicer has an agreement with the borrower for the acceptance of regularly scheduled monthly mortgage payments plus an additional amount over a prescribed number of months to bring the mortgage loan current.
17	Pre-foreclosure sale – the servicer plans to pursue a preforeclosure sale (a payoff of less than the full amount of our indebtedness) to avoid the expenses of foreclosure proceedings.
24	Drug seizure – the Department of Justice (or any other state or federal agency) has decided to seize (or has seized) a property under the forfeiture provision of the Controlled Forfeiture provision of the Controlled Substances Act.
26	Refinance – the servicer is aware that the borrower is pursuing an arrangement whereby the existing first mortgage will be refinanced (paid off).
27	Assumption – the servicer is working with the borrower to sell the property by permitting the purchaser to pay the delinquent installments and assume the outstanding debt in order to avoid a foreclosure.
28	Modification – the servicer is working with the borrower to renegotiate the terms of the mortgage in order to avoid foreclosure.
29	Charge-off – use this code to indicate that it is not in best interest to pursue collection efforts or legal actions against the borrower (because of a reduced value for the property, a low outstanding mortgage balance, or the presence of certain environmental hazards on the property).
31	Probate – Use this code to indicate that the servicer cannot pursue (or complete).
32	Military indulgence – the servicer has granted a delinquent service member forbearance or foreclosure proceedings have been stayed under the provisions of the Servicemembers Civil Relief Act or any similar state law.
42	Delinquent, no action – the loan is 90 + days delinquent, but the servicer has not taken legal action or initiated loss mitigation.
43	Foreclosure – the servicer has referred the case to an attorney to take legal action to acquire the property through a foreclosure sale.
44	Deed-in-lieu –the servicer was authorized to accept a voluntary conveyance of the property instead of initiating foreclosure proceedings.
49	Assignment – mortgage is in the process of being assigned to the insurer or guarantor.
59	Chapter 12 bankruptcy – the borrower has filed for bankruptcy under Chapter 12 of the Federal Bankruptcy Act.
61	Second lien considerations – use this code for a second mortgage to indicate that the servicer is evaluating the advantages and disadvantages of pursuing a foreclosure action or recommending that the debt be charged off.
62	Veterans affairs-"no-bid" – use this code to indicate that the Department of Veterans Affairs refused to establish an "upset price" to be bid at the foreclosure sale for a VA-guaranteed mortgage that the servicer had referred for foreclosure.
63	Veterans affairs – refund – use this code to indicate that the Department of Veterans Affairs has requested information about a VA-guaranteed mortgage the servicer referred for foreclosure, in order to reach a decision about whether to accept an assignment for purposes of refunding the mortgage to avoid foreclosure.

VALUE	CODE DESCRIPTION
64	Veterans affairs—buydown – Use this code to indicate that a cash contribution was agreed to be made to reduce the outstanding indebtedness of a VA-guaranteed mortgage for which the Department of Veterans Affairs failed to establish an "upset price" bid for the foreclosure sale, in order to get the VA to reconsider its decision about establishing an "upset price."
65	Chapter 7 bankruptcy – the borrower has filed for bankruptcy under Chapter 7 of the Federal Bankruptcy Act.
66	Chapter 11 bankruptcy – the borrower has filed for bankruptcy under Chapter 11 of the Federal Bankruptcy Act.
67	Chapter 13 bankruptcy – the borrower has filed for bankruptcy under Chapter 13 of the Federal Bankruptcy Act.
98	Other
99	Unknown

4.4.44. RPT_ACTN_CODE_TYPE

These are the valid values for the <RPT_ACTN_CODE_TYPE> element in the submission file:

VALUE	CODE DESCRIPTION
3	Modifiable ARM
7	No action
8	Relief provision
10	Loan approved for loss mitigation
11	Money judgment
13	Inactivation
14	Substitution
15	Bankruptcy/litigation
30	Referred for foreclosure
60	Payoff
65	Repurchase
70	A property that was secured by an uninsured conventional mortgage has been acquired by foreclosure, when a property that was secured by a VA mortgage cannot be conveyed to VA because the VA refused to specify a bid amount, or when an RHS mortgage serviced under the special servicing option has been acquired by foreclosure. (The servicer also should use Action Code 70 to report its repurchase of an acquired property after submission of the REOgram, if the mortgage has not already been removed from our LASER records.)
71	A property has been condemned or acquired by a third party.
72	A property has been acquired by foreclosure and is pending conveyance to FHA, VA, or the MI.
98	Other
99	Unknown

4.5. Data Value constraints for DebtSecurities

4.5.1.   ACCRL_TYP_CODE_TYPE

These are the valid values for the <ACCRL_TYP_CODE_TYPE> element in the submission file:

VALUE	CODE DESCRIPTION
1	30/360
2	Actual/365
3	Actual/360
4	Actual/Actual
5	Actual/366
6	Simple
7	78's
98	Other

4.5.2.   INTR_RT_TYP_CODE_TYPE

These are the valid values for the <INTR_RT_TYP_CODE_TYPE> element in the submission file:

VALUE	CODE DESCRIPTION
1	Fixed
2	Adjustable
3	Step
98	Other

4.5.3.   PYMNT_FREQ_CODE_TYPE

These are the valid values for the <PYMNT_FREQ_CODE_TYPE> element in the submission file:

VALUE	CODE DESCRIPTION
1	Monthly
2	Quarterly
3	Semi-annually
4	Annually
5	Daily
6	Irregular

4.5.4. ZERO_BAL_CODE_TYPE

These are the valid values for the <ZERO_BAL_CODE_TYPE> element in the submission file:

VALUE	CODE DESCRIPTION
1	Prepaid or Matured
2	Repurchased or Replaced
98	Other
99	Unavailable

4.5.5. STAT_ASSET_SUBJ_TO_DEMND_CODE_TYPE

These are the valid values for the <STAT_ASSET_SUBJ_TO_DEMND_CODE_TYPE> element in the submission file:

VALUE	CODE DESCRIPTION
0	Asset Pending Repurchase or Replacement (within cure period)
1	Asset was Repurchased or Replaced
2	Demand in Dispute
3	Demand Withdrawn
4	Demand Rejected
98	Other

4.5.6. REPRCH_REPLCMNT_REASN_CODE_TYPE

These are the valid values for the <REPRCH_REPLCMNT_REASN_CODE_TYPE> element in the submission file:

VALUE	CODE DESCRIPTION
1	Fraud
2	Early payment default
3	Other recourse obligation
4	Reps/warrants breach
5	Servicer breach
98	Other
99	Unknown

5. ABS ASSET DATA FILE CONSTRUCTION

5.1. General Formatting of XML Files

The following rules apply to all the public and non-public Asset Data Files in an XML-format:

1. The filename must end with an ".xml" extension.

2. The file cannot be compressed in any fashion.

3. We strongly recommend you format the ABS Asset Data File as shown in the provided sample files. This makes the raw XML files easier to view in a text editor. The submission of ASCII XML files with no line breaks, while legal XML, is strongly discouraged. XML filings are required to be posted on public websites except for the non–public data, as specified in the rule . While usually formatted via style sheets, the raw XML is frequently available for inspection and should be readable by a person. A single line XML file is not viewer-friendly and should be avoided.

4. The <?xml version="1.0"?> declaration line is optional; however, if it is included it must be the first line in the file. Any text entered before this line, even white space, will cause an error. The version value must be "1.0." Any other value for version will cause an error.

5. For an XML element with a data value, keep the begin tag, data value, and end tag on the same line of text. Otherwise, you could get a schema violation error. As an example, for a filer ID value which cannot be longer than 10 characters, this specification is correct:
   ```
   <cik>1212121212</cik>
   ```

6. The specification below will result in a parsing error because the extraneous white space and line feeds will be counted as part of the length of the data value. In other words, the CIK value will be regarded as longer than 10 characters.
   ```
   <cik>
   1212121212
   </cik>
   ```

5.2. Formatting of ABS Asset Data XML Files

The following rules apply to the supporting document XML-format:

1. The <?xml version="1.0"?> declaration line is optional; however, if it is included it must be the first line in the file. Any text entered before this line, even white space, will cause an error. The version value must be "1.0." Any other value for version will cause an error.

2. The beginning tag for the <assetData> must match the following:

   AutoLease Instance Documents

   <assetData xmlns="http://www.sec.gov/edgar/document/absee/autolease/assetdata" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">

AutoLoan Instance Documents

<assetData xmlns="http://www.sec.gov/edgar/document/absee/autoloan/assetdata" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">

DebtSecurities Instance Documents

<assetData xmlns="http://www.sec.gov/edgar/document/absee/debtsecurities/assetdata" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">

RMBS Instance Documents

<assetData xmlns="http://www.sec.gov/edgar/document/absee/rmbs/assetdata" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">

CMBS Instance Documents

<assetData xmlns="http://www.sec.gov/edgar/document/absee/cmbs/assetdata" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">

3. The XML elements cannot have any namespaces.

   For eg: It has to be <currencyName> and not <ns2: currencyName>

5.3. Asset Data XML File Rules

The following rules apply to all of the ABS Asset Data Files:

1. The allowable file extension is .xml.

2. The names of attached document files must follow the EDGAR file naming conventions:

   - File names cannot exceed 32 characters, including the file extension.
   - Valid characters are lowercase letters, digits 0-9, up to one underscore, up to one hyphen, and up to one period.
   - First character must be a letter.
   - Spaces are not allowed.
   - File name must have a file type extension of .xml.

3. The <description> is optional, but all other elements must be present and must have a value.

4. The <contents> element must contain a MIME encoded document. You can use any standard 64-character set based MIME encoding algorithm to create a MIME document.

5.4. Unique Constraints for Repeatable Code Elements

Some code elements within the ABS Asset Data Files are repeatable. These repeatable elements must have unique values for each asset group.

The following excerpt is from the eis_ABS_CMBSAssetData.xsd schema file for a repeatable element:

<xs:simpleType name="MOD_CODE_TYPE">

```
<xs:annotation>
    <xs:documentation> Item 2(k)(2) - Enumerated values and descriptions: 1: Maturity date extension,
        2: Amortization change, 3: Principal write-off, 5: Temporary rate reduction, 6: Capitalization on
        interest, 7: Capitalization on taxes, 8: Combination, 98: Other
    </xs:documentation>
</xs:annotation>
<xs:restriction base="xs:token">
    <xs:enumeration value="1"/>
    <xs:enumeration value="2"/>
    <xs:enumeration value="3"/>
    <xs:enumeration value="5"/>
    <xs:enumeration value="6"/>
    <xs:enumeration value="7"/>
    <xs:enumeration value="8"/>
    <xs:enumeration value="98"/>
</xs:restriction>
</xs:simpleType>

<!-- Item 2(k)(2) - The code that describes the type of loan modification. -->
<xs:element name="modificationCode" type="MOD_CODE_TYPE" minOccurs="0" maxOccurs="unbounded"/>
```

The following is a sample XML that is valid based on the eis_ABS_CMBSAssetData.xsd
schema above. There are some duplicate code values but they are across two different assets:

```
<asset>
    <assetTypeNumber >ABS123</ assetTypeNumber >
    < assetNumber>12000333</ assetNumber>
    <modificationCode>1</ modificationCode>
    <modificationCode>2</ modificationCode>
    <modificationCode>3</ modificationCode>
</asset>
<asset>
    <assetTypeNumber >ABS456</ assetTypeNumber >
    < assetNumber>12000399</ assetNumber>
    <modificationCode>2</ modificationCode>
    <modificationCode>3</ modificationCode>
</asset>
```

The following is a sample XML that is invalid based on the eis_ABS_CMBSAssetData.xsd
schema above. The first asset contains duplicate code values which will fail schema validation:

```
<asset>
    <assetTypeNumber >ABS123</ assetTypeNumber >
    < assetNumber>12000333</ assetNumber>
    <modificationCode>1</ modificationCode>
    <modificationCode>3</ modificationCode>
    <modificationCode>3</ modificationCode>
</asset>
<asset>
    <assetTypeNumber >ABS456</ assetTypeNumber >
    < assetNumber>12000399</ assetNumber>
    <modificationCode>6</ modificationCode>
    <modificationCode>7</ modificationCode>
    <modificationCode>98</ modificationCode>
</asset>
```

6. SAMPLE ABS ASSET DATA XML FILES

Table 6-1 provides a list of sample ABS Asset Data XML Files.

Table 6-1: Sample ABS Asset Data XML Files

Asset Data File Type	Sample File
ABS-AUTOLOAN	Sample_ABS_AutoLeaseAssetData.xml
ABS-AUTOLEASE	Sample_ABS_AutoLoanAssetData.xml
ABS-DS	Sample_ABS_DebtSecuritiesAssetData.xml
ABS-RMBS	Sample_ABS_RMBSAssetData.xml
ABS-CMBS	Sample_ABS_CMBSAssetData.xml

APPENDIX A.   STATE/COUNTRY CODES

These are the valid designators for the <stateOrCountry> element in the primary document.

Code	State/Country Name
AL	ALABAMA
AK	ALASKA
AZ	ARIZONA
AR	ARKANSAS
CA	CALIFORNIA
CO	COLORADO
CT	CONNECTICUT
DE	DELAWARE
DC	DISTRICT OF COLUMBIA
FL	FLORIDA
GA	GEORGIA
GU	GUAM
HI	HAWAII
ID	IDAHO
IL	ILLINOIS
IN	INDIANA
IA	IOWA
KS	KANSAS
KY	KENTUCKY
LA	LOUISIANA
ME	MAINE
MD	MARYLAND
MA	MASSACHUSETTS
MI	MICHIGAN
MN	MINNESOTA
MS	MISSISSIPPI
MO	MISSOURI
MT	MONTANA
NE	NEBRASKA
NV	NEVADA
NH	NEW HAMPSHIRE
NJ	NEW JERSEY
NM	NEW MEXICO
NY	NEW YORK
NC	NORTH CAROLINA
ND	NORTH DAKOTA
OH	OHIO
OK	OKLAHOMA
OR	OREGON
PA	PENNSYLVANIA

Code	State/Country Name
RI	RHODE ISLAND
SC	SOUTH CAROLINA
SD	SOUTH DAKOTA
TN	TENNESSEE
TX	TEXAS
UT	UTAH
VT	VERMONT
VA	VIRGINIA
WA	WASHINGTON
WV	WEST VIRGINIA
WI	WISCONSIN
WY	WYOMING
PR	PUERTO RICO
VI	VIRGIN ISLANDS, U.S.
A0	ALBERTA, CANADA
A1	BRITISH COLUMBIA, CANADA
Z4	CANADA (FEDERAL LEVEL)
A2	MANITOBA, CANADA
A3	NEW BRUNSWICK, CANADA
A4	NEWFOUNDLAND, CANADA
A5	NOVA SCOTIA, CANADA
A6	ONTARIO, CANADA
A7	PRINCE EDWARD ISLAND, CANADA
A8	QUEBEC, CANADA
A9	SASKATCHEWAN, CANADA
B0	YUKON, CANADA
B2	AFGHANISTAN
Y6	ALAND ISLANDS
B3	ALBANIA
B4	ALGERIA
B5	AMERICAN SAMOA
B6	ANDORRA
B7	ANGOLA
1A	ANGUILLA
B8	ANTARCTICA
B9	ANTIGUA AND BARBUDA
C1	ARGENTINA
1B	ARMENIA
1C	ARUBA
C3	AUSTRALIA
C4	AUSTRIA
1D	AZERBAIJAN
C5	BAHAMAS
C6	BAHRAIN

Code	State/Country Name
C7	BANGLADESH
C8	BARBADOS
1F	BELARUS
C9	BELGIUM
D1	BELIZE
G6	BENIN
D0	BERMUDA
D2	BHUTAN
D3	BOLIVIA
1E	BOSNIA AND HERZEGOVINA
B1	BOTSWANA
D4	BOUVET ISLAND
D5	BRAZIL
D6	BRITISH INDIAN OCEAN TERRITORY
D9	BRUNEI DARUSSALAM
E0	BULGARIA
X2	BURKINA FASO
E2	BURUNDI
E3	CAMBODIA
E4	CAMEROON
E8	CAPE VERDE
E9	CAYMAN ISLANDS
F0	CENTRAL AFRICAN REPUBLIC
F2	CHAD
F3	CHILE
F4	CHINA
F6	CHRISTMAS ISLAND
F7	COCOS (KEELING) ISLANDS
F8	COLOMBIA
F9	COMOROS
G0	CONGO
Y3	CONGO, THE DEMOCRATIC REPUBLIC OF THE
G1	COOK ISLANDS
G2	COSTA RICA
L7	COTE D'IVOIRE
1M	CROATIA
G3	CUBA
G4	CYPRUS
2N	CZECH REPUBLIC
G7	DENMARK
1G	DJIBOUTI
G9	DOMINICA
G8	DOMINICAN REPUBLIC
H1	ECUADOR

Code	State/Country Name
H2	EGYPT
H3	EL SALVADOR
H4	EQUATORIAL GUINEA
1J	ERITREA
1H	ESTONIA
H5	ETHIOPIA
H7	FALKLAND ISLANDS (MALVINAS)
H6	FAROE ISLANDS
H8	FIJI
H9	FINLAND
I0	FRANCE
I3	FRENCH GUIANA
I4	FRENCH POLYNESIA
2C	FRENCH SOUTHERN TERRITORIES
I5	GABON
I6	GAMBIA
2Q	GEORGIA
2M	GERMANY
J0	GHANA
J1	GIBRALTAR
J3	GREECE
J4	GREENLAND
J5	GRENADA
J6	GUADELOUPE
J8	GUATEMALA
Y7	GUERNSEY
J9	GUINEA
S0	GUINEA-BISSAU
K0	GUYANA
K1	HAITI
K4	HEARD ISLAND AND MCDONALD ISLANDS
X4	HOLY SEE (VATICAN CITY STATE)
K2	HONDURAS
K3	HONG KONG
K5	HUNGARY
K6	ICELAND
K7	INDIA
K8	INDONESIA
K9	IRAN, ISLAMIC REPUBLIC OF
L0	IRAQ
L2	IRELAND
Y8	ISLE OF MAN
L3	ISRAEL
L6	ITALY

Code	State/Country Name
L8	JAMAICA
M0	JAPAN
Y9	JERSEY
M2	JORDAN
1P	KAZAKSTAN
M3	KENYA
J2	KIRIBATI
M4	KOREA, DEMOCRATIC PEOPLE'S REPUBLIC OF
M5	KOREA, REPUBLIC OF
M6	KUWAIT
1N	KYRGYZSTAN
M7	LAO PEOPLE'S DEMOCRATIC REPUBLIC
1R	LATVIA
M8	LEBANON
M9	LESOTHO
N0	LIBERIA
N1	LIBYAN ARAB JAMAHIRIYA
N2	LIECHTENSTEIN
1Q	LITHUANIA
N4	LUXEMBOURG
N5	MACAU
1U	MACEDONIA, THE FORMER YUGOSLAV REPUBLIC OF
N6	MADAGASCAR
N7	MALAWI
N8	MALAYSIA
N9	MALDIVES
O0	MALI
O1	MALTA
1T	MARSHALL ISLANDS
O2	MARTINIQUE
O3	MAURITANIA
O4	MAURITIUS
2P	MAYOTTE
O5	MEXICO
1K	MICRONESIA, FEDERATED STATES OF
1S	MOLDOVA, REPUBLIC OF
O9	MONACO
P0	MONGOLIA
Z5	MONTENEGRO
P1	MONTSERRAT
P2	MOROCCO
P3	MOZAMBIQUE
E1	MYANMAR
T6	NAMIBIA

Code	State/Country Name
P5	NAURU
P6	NEPAL
P7	NETHERLANDS
P8	NETHERLANDS ANTILLES
1W	NEW CALEDONIA
Q2	NEW ZEALAND
Q3	NICARAGUA
Q4	NIGER
Q5	NIGERIA
Q6	NIUE
Q7	NORFOLK ISLAND
1V	NORTHERN MARIANA ISLANDS
Q8	NORWAY
P4	OMAN
R0	PAKISTAN
1Y	PALAU
1X	PALESTINIAN TERRITORY, OCCUPIED
R1	PANAMA
R2	PAPUA NEW GUINEA
R4	PARAGUAY
R5	PERU
R6	PHILIPPINES
R8	PITCAIRN
R9	POLAND
S1	PORTUGAL
S3	QATAR
S4	REUNION
S5	ROMANIA
1Z	RUSSIAN FEDERATION
S6	RWANDA
Z0	SAINT BARTHELEMY
U8	SAINT HELENA
U7	SAINT KITTS AND NEVIS
U9	SAINT LUCIA
Z1	SAINT MARTIN
V0	SAINT PIERRE AND MIQUELON
V1	SAINT VINCENT AND THE GRENADINES
Y0	SAMOA
S8	SAN MARINO
S9	SAO TOME AND PRINCIPE
T0	SAUDI ARABIA
T1	SENEGAL
Z2	SERBIA
T2	SEYCHELLES

Code	State/Country Name
T8	SIERRA LEONE
U0	SINGAPORE
2B	SLOVAKIA
2A	SLOVENIA
D7	SOLOMON ISLANDS
U1	SOMALIA
T3	SOUTH AFRICA
1L	SOUTH GEORGIA AND THE SOUTH SANDWICH ISLANDS
U3	SPAIN
F1	SRI LANKA
V2	SUDAN
V3	SURINAME
L9	SVALBARD AND JAN MAYEN
V6	SWAZILAND
V7	SWEDEN
V8	SWITZERLAND
V9	SYRIAN ARAB REPUBLIC
F5	TAIWAN, PROVINCE OF CHINA
2D	TAJIKISTAN
W0	TANZANIA, UNITED REPUBLIC OF
W1	THAILAND
Z3	TIMOR-LESTE
W2	TOGO
W3	TOKELAU
W4	TONGA
W5	TRINIDAD AND TOBAGO
W6	TUNISIA
W8	TURKEY
2E	TURKMENISTAN
W7	TURKS AND CAICOS ISLANDS
2G	TUVALU
W9	UGANDA
2H	UKRAINE
C0	UNITED ARAB EMIRATES
X0	UNITED KINGDOM
2J	UNITED STATES MINOR OUTLYING ISLANDS
X3	URUGUAY
2K	UZBEKISTAN
2L	VANUATU
X5	VENEZUELA
Q1	VIET NAM
D8	VIRGIN ISLANDS, BRITISH
X8	WALLIS AND FUTUNA
U5	WESTERN SAHARA

Code	State/Country Name
T7	YEMEN
Y4	ZAMBIA
Y5	ZIMBABWE

APPENDIX B.   ACRONYMS

Acronym	Description
ASCII	American Standard Code for Schedule Interchange
CCC	CIK Confirmation Code
CIK	Central Index Key
EDGAR	Electronic Data Gathering, Analysis, and Retrieval
ICT	Investment Company Type
PDF	Portable Document Format
SEC	Securities and Exchange Commission
XML	Extensible Markup Language