



EDGAR® ABS XML Technical Specification

Version 1.43

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TABLE OF CONTENTS

| | |
|---|------------|
| 1. INTRODUCTION..... | 1-1 |
| 1.1. PURPOSE | 1-1 |
| 1.2. SUMMARY OF CHANGES..... | 1-2 |
| 2. EDGAR SCHEMA FILES | 2-1 |
| 2.1. SCHEMA TABLE COLUMN DEFINITIONS | 2-2 |
| 3. XML SCHEMAS | 3-1 |
| 3.1. SCHEMA TABLE COLUMN DEFINITIONS | 3-1 |
| 3.2. DATA TYPE CONSTRAINTS..... | 3-1 |
| 3.3. APPLICABILITY OF SCHEMA ELEMENTS | 3-2 |
| 3.4. MAPPING OF ABS SCHEMAS TO ASSET DATA TYPES | 3-3 |
| 3.4.1. Mapping of ABS AutoLoan Schema to Asset Data Types..... | 3-3 |
| 3.4.2. Mapping of ABS AutoLease Schema to Asset Data Types..... | 3-6 |
| 3.4.3. Mapping of ABS CMBS Schema to Asset Data Types..... | 3-8 |
| 3.4.4. Mapping of ABS RMBS Schema to the Asset Data Types..... | 3-16 |
| 3.4.5. Mapping of ABS DebtSecurities Schema to Asset Data Types | 3-28 |
| 4. DATA VALUE CONSTRAINTS | 4-1 |
| 4.1. DATA VALUE CONSTRAINTS FOR AUTOLOAN | 4-1 |
| 4.1.1. INTR_CALC_TYP_CODE_TYPE..... | 4-1 |
| 4.1.2. ORIG_INTR_RT_TYP_CODE_TYPE | 4-1 |
| 4.1.3. PYMNT_TYP_CODE_TYPE..... | 4-1 |
| 4.1.4. SUBVNT_CODE_TYPE..... | 4-1 |
| 4.1.5. VHCL_NEW_USED_CODE_TYPE | 4-2 |
| 4.1.6. VHCL_TYP_CODE_TYPE..... | 4-2 |
| 4.1.7. VHCL_VAL_SRC_CODE_TYPE..... | 4-2 |
| 4.1.8. OBLGR_INCM_VRFCTN_LVL_CODE_TYPE..... | 4-2 |
| 4.1.9. OBLGR_EMPLOY_VRFCTN_CODE_TYPE..... | 4-3 |
| 4.1.10. SRVC_ADV_METH_CODE_TYPE..... | 4-3 |
| 4.1.11. ZERO_BAL_CODE_TYPE | 4-3 |
| 4.1.12. REPRCH_ASSET_SUBJ_DMAND_CODE_TYPE | 4-4 |
| 4.1.13. REPRCH_RPLCMNT_REASN_CODE_TYPE | 4-4 |
| 4.1.14. MOD_TYPE_CODE_TYPE | 4-4 |
| 4.2. DATA VALUE CONSTRAINTS FOR AUTOLEASE..... | 4-5 |
| 4.2.1. PYMNT_TYP_CODE_TYPE..... | 4-5 |
| 4.2.2. SUBVNT_CODE_TYPE | 4-5 |
| 4.2.3. VHCL_NEW_USED_CODE_TYPE | 4-5 |
| 4.2.4. VHCL_TYP_CODE_TYPE..... | 4-5 |
| 4.2.5. VHCL_VAL_SRC_CODE_TYPE..... | 4-6 |
| 4.2.6. BS_RES DL_SRC_CODE_TYPE | 4-6 |
| 4.2.7. LSSE_INCM_VRFCTN_LVL_CODE_TYPE..... | 4-6 |
| 4.2.8. LSSE_EMPLOY_VRFCTN_CODE_TYPE..... | 4-7 |
| 4.2.9. SRVC_ADV_METH_CODE_TYPE | 4-7 |
| 4.2.10. ZERO_BAL_CODE_TYPE..... | 4-7 |
| 4.2.11. REPRCH_STAT_ASSET_SUBJ_DMAND_CODE_TYPE | 4-7 |
| 4.2.12. REPRCH_RPLC_REASN_CODE_TYPE | 4-8 |
| 4.2.13. MOD_TYPE_CODE_TYPE | 4-8 |
| 4.2.14. TERMNTN_CODE_TYPE | 4-8 |

| | | |
|-------------|---|-------------|
| 4.3. | DATA VALUE CONSTRAINTS FOR CMBS | 4-9 |
| 4.3.1. | INTR_ACCRL_METH_CODE_TYPE..... | 4-9 |
| 4.3.2. | ORIG_INTR_RT_TYP_CODE_TYPE | 4-9 |
| 4.3.3. | LIEN_PSTN_CODE_TYPE..... | 4-9 |
| 4.3.4. | LOAN_STCTR_CODE_TYPE | 4-10 |
| 4.3.5. | PYMNT_TYP_CODE_TYPE..... | 4-10 |
| 4.3.6. | PYMNT_FREQ_CODE_TYPE..... | 4-10 |
| 4.3.7. | ARM_INDX_CODE_TYPE | 4-11 |
| 4.3.8. | RT_RST_FREQ_CODE_TYPE..... | 4-11 |
| 4.3.9. | PY_RST_FREQ_CODE_TYPE..... | 4-11 |
| 4.3.10. | PROPRTY_TYP_CODE_TYPE..... | 4-11 |
| 4.3.11. | VAL_SRC_SCRTZTN_CODE_TYPE | 4-12 |
| 4.3.12. | MST_RCNT_VAL_SRC_CODE_TYPE..... | 4-12 |
| 4.3.13. | PROPRTY_STAT_CODE_TYPE..... | 4-13 |
| 4.3.14. | DFSNC_STAT_CODE_TYPE..... | 4-13 |
| 4.3.15. | NET_OPRTNG_INCM_NET_CASH_FLW_SCRTZTN_CODE_TYPE..... | 4-13 |
| 4.3.16. | NET_OPRTNG_INCM_NET_CASH_FLW_CODE_TYPE | 4-13 |
| 4.3.17. | DEBT_SRVC_CVRG_CODE_TYPE..... | 4-14 |
| 4.3.18. | MST_RCNT_DEBT_SRVC_AMT_CODE_TYPE | 4-14 |
| 4.3.19. | SRVC_ADV_METH_CODE_TYPE..... | 4-14 |
| 4.3.20. | PYMNT_STAT_LOAN_CODE_TYPE..... | 4-15 |
| 4.3.21. | ASSET_SUBJ_DEMAND_STAT_CODE_TYPE | 4-15 |
| 4.3.22. | REPRCH_RPLCMNT_REASN_CODE_TYPE | 4-15 |
| 4.3.23. | LIQDTN_PRPYMNT_CODE_TYPE | 4-16 |
| 4.3.24. | WRKOUT_STRAT_CODE_TYPE..... | 4-16 |
| 4.3.25. | MOD_CODE_TYPE..... | 4-17 |
| 4.4. | DATA VALUE CONSTRAINTS FOR RMBS | 4-17 |
| 4.4.1. | ORIG_LOAN_PURPS_CODE_TYPE | 4-17 |
| 4.4.2. | ACCRL_TYP_CODE_TYPE | 4-17 |
| 4.4.3. | ORIG_INTR_RT_TYP_CODE_TYPE | 4-18 |
| 4.4.4. | ORIG_LIEN_PSTN_CODE_TYPE..... | 4-18 |
| 4.4.5. | ORIG_LOAN_TYP_MST_SNR_LIEN_CODE_TYPE | 4-18 |
| 4.4.6. | COV_HIGH_COST_CODE_TYPE..... | 4-19 |
| 4.4.7. | SRVR_HAZRD_INS_CODE_TYPE | 4-19 |
| 4.4.8. | CHNL_CODE_TYPE..... | 4-19 |
| 4.4.9. | ORIG_INDX_CODE_TYPE..... | 4-20 |
| 4.4.10. | ARM_ROUND_CODE_TYPE | 4-21 |
| 4.4.11. | PYMNT_METH_CODE_TYPE..... | 4-21 |
| 4.4.12. | PRPYMNT_PNLTY_CALC_CODE_TYPE | 4-22 |
| 4.4.13. | PRPYMNT_PNLTY_TYP_CODE_TYPE | 4-23 |
| 4.4.14. | OCCPNCY_STAT_CODE_TYPE | 4-24 |
| 4.4.15. | MST_RCNT_OCCPNCY_STAT_CODE_TYPE | 4-24 |
| 4.4.16. | PROPRTY_TYPE_CODE_TYPE..... | 4-24 |
| 4.4.17. | MST_RCNT_PROPERTY_VAL_CODE_TYPE..... | 4-25 |
| 4.4.18. | PROPRTY_MST_RCNT_AVM_MDL_CODE_TYPE | 4-26 |
| 4.4.19. | OBLGR_INCM_VRFCTN_LVL_CODE_TYPE | 4-26 |
| 4.4.20. | OBLGR_EMPLOY_VRFCTN_CODE_TYPE | 4-27 |
| 4.4.21. | OBLGR_EMPLOY_LEN_CODE_TYPE..... | 4-27 |
| 4.4.22. | OBLGR_ASSET_VRFCTN_CODE_TYPE..... | 4-27 |
| 4.4.23. | OBLGR_QUALIF_METH_CODE_TYPE..... | 4-28 |
| 4.4.24. | MORTG_INS_CVRG_TYP_CODE_TYPE..... | 4-28 |
| 4.4.25. | ADV_METH_CODE_TYPE..... | 4-28 |

| | | |
|--------------------|---|-------------|
| 4.4.26. | SRVC_ADV_METH_CODE_TYPE..... | 4-29 |
| 4.4.27. | ZERO_BAL_CODE_TYPE..... | 4-29 |
| 4.4.28. | MST_RCNT_TWLV_MNTH_HSTRY_CODE_TYPE..... | 4-29 |
| 4.4.29. | ASSET_SUBJ_DEMAND_STAT_CODE_TYPE..... | 4-30 |
| 4.4.30. | REPRCH_REPLCMNT_CODE_TYPE..... | 4-30 |
| 4.4.31. | LOSS_MTGTION_TYP_CODE_TYPE..... | 4-30 |
| 4.4.32. | MOD_MST_RCNT_LOAN_EVNT_CODE_TYPE..... | 4-31 |
| 4.4.33. | POST_MOD_INTR_RT_TYP_CODE_TYPE..... | 4-31 |
| 4.4.34. | POST_MOD_AMORT_TYP_CODE_TYPE..... | 4-31 |
| 4.4.35. | POST_MOD_ARM_CODE_TYPE..... | 4-32 |
| 4.4.36. | POST_MOD_ARM_INDX_CODE_TYPE..... | 4-32 |
| 4.4.37. | POST_MOD_ARM_ROUND_CODE_TYPE..... | 4-33 |
| 4.4.38. | POST_MOD_PYMNT_METH_AFTR_RECAST_CODE_TYPE..... | 4-34 |
| 4.4.39. | MST_RCNT_LOSS_MTGTION_EXIT_CODE_TYPE..... | 4-34 |
| 4.4.40. | FORECL_DELAY_REASN_CODE_TYPE..... | 4-34 |
| 4.4.41. | FORECL_EXIT_REASN_CODE_TYPE..... | 4-35 |
| 4.4.42. | REO_EXIT_REASN_CODE_TYPE..... | 4-35 |
| 4.4.43. | NON_PAY_STAT_CODE_TYPE..... | 4-36 |
| 4.4.44. | RPT_ACTN_CODE_TYPE..... | 4-37 |
| 4.5. | DATA VALUE CONSTRAINTS FOR DEBT SECURITIES..... | 4-38 |
| 4.5.1. | ACCRL_TYP_CODE_TYPE..... | 4-38 |
| 4.5.2. | INTR_RT_TYP_CODE_TYPE..... | 4-38 |
| 4.5.3. | PYMNT_FREQ_CODE_TYPE..... | 4-38 |
| 4.5.4. | ZERO_BAL_CODE_TYPE..... | 4-40 |
| 4.5.5. | STAT_ASSET_SUBJ_TO_DEMND_CODE_TYPE..... | 4-40 |
| 4.5.6. | REPRCH_REPLCMNT_REASN_CODE_TYPE..... | 4-40 |
| 5. | ABS ASSET DATA FILE CONSTRUCTION..... | 5-1 |
| 5.1. | GENERAL FORMATTING OF XML FILES..... | 5-1 |
| 5.2. | SPECIAL INSTRUCTIONS FOR EX-102 ASSET DATA XML FILES..... | 5-1 |
| 5.3. | FORMATTING OF ABS ASSET DATA XML FILES..... | 5-2 |
| 5.4. | ASSET DATA XML FILE RULES..... | 5-2 |
| 5.5. | UNIQUE CONSTRAINTS FOR REPEATABLE CODE ELEMENTS..... | 5-3 |
| 5.6. | EDGAR RESERVED TAGS..... | 5-5 |
| 5.7. | COMMENTS AND NARRATIVES..... | 5-5 |
| 6. | SAMPLE ABS ASSET DATA XML FILES..... | 6-1 |
| APPENDIX A. | STATE/COUNTRY CODES..... | A-1 |
| APPENDIX B. | ACRONYMS..... | B-1 |

List of Tables

| | |
|---|-----|
| Table 1-1: ABS Asset Data File Types | 1-1 |
| Table 2-1: ABS Schema Files | 2-1 |
| Table 2-2: Schema Language | 2-2 |
| Table 3-1: Column Definitions for Data Fields | 3-1 |
| Table 6-1: Sample ABS Asset Data & EX-103 XML Files | 6-1 |

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. Note that ABS Asset Data Files are only applicable to EX-102 XML files and do not apply to EX-103 XML files. For information on submitting EX-103 files, please see Section 5.

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 19, 2016, EDGAR Release 16.3 introduced the following changes:~~

- ~~• The date format of “Item 5(f)(3) Demand Resolution Date” in Debt Securities XML Schema was changed from MM/YYYY to MM-DD-YYYY.~~
- ~~• The date format of “Item 2(e)(12) First Loan Payment Due Date” in CMBS XML Schema was changed from MM/YYYY to MM-DD-YYYY.~~
- ~~• Added new section 5.2, “Special Instructions for EX 102 Asset Data XML Files”.~~
- ~~• Corrected mapping of “PROPRTY_TYP_CODE_TYPE” at Level 4 Order 61 on Page 3-11 from link “4.4.16. PROPRTY_TYPE_CODE_TYPE” to link “4.3.10. PROPRTY_TYP_CODE_TYPE”.~~
- ~~• Changed the value and code description from “CMSA” to “CREFC” for item “4.3.15. NET_OPRTNG_INCM_NET_CASH_FLW_SCRTZTN_CODE_TYPE” and item “4.3.16. NET_OPRTNG_INCM_NET_CASH_FLW_CODE_TYPE”.~~

~~On October 31, 2016, EDGAR Release 16.3.3 introduced the following change:~~

- ~~• The schema file “eis_ABS_CMBSAssetData.xsd” was modified to add “0” as a value to identify status of “Current” for Item 2(e)(17) “Payment Status Loan Code” type. Please see section 4.3.20. PYMNT_STAT_LOAN_CODE_TYPE for the complete list of values.~~

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. Note that EDGAR Schema Files are only applicable to EX-102 XML files and do not apply to EX-103 XML files. For instructions on submitting EX-103 files, please see Section 5.

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_TYPE20_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_TYPE20_8" minOccurs="0"/>
    <xs:element name="liquidationProceedsAmount" type="ns1:DECIMAL_TYPE20_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. Note that these restrictions and constraints are only applicable to EX-102 XML files and do not apply to EX-103 XML files. For instructions on submitting EX-103 files, please see Section 5.

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 the word "true". Indicate a "false" value with the word "false". |
| Date1 | Input must be of the format MM-DD-YYYY. A date element may not have a null, blank, zero, or invalid date value. This is a schema violation and will cause the XML to be stripped from the submission. |
| Date2 | Input must be of the format MM/YYYY. A date element may not have a null, blank, zero, or invalid date value. This is a schema violation and will cause the XML to be stripped from the submission. |
| Integer | Valid characters are 0-9, and the minus sign. Cannot contain commas, dollar sign, or parentheses. |
| Decimal | Valid characters are 0-9, and the minus sign. Cannot contain commas, dollar sign, or parentheses. May contain period and decimal places. |

| Data Type | Constraints |
|-----------|--|
| String | <p>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.</p> <p>You must use special escape sequences to represent these four characters:</p> <p>For the < character use the escape sequence "&lt;" or "&#60;".</p> <p>For the > character use the escape sequence "&gt;" or "&#62;".</p> <p>For the & character use the escape sequence "&amp;" or "&#38;".</p> <p>For the " character use the escape sequence "&quot;" or "&#34;".</p> |
| 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 | Date1 | reportingPeriodBeginningDate | | | 1 | Item 3(b)(1) | o |
| 3 | 4 | Date1 | reportingPeriodEndingDate | | | 1 | Item 3(b)(2) | o |
| 3 | 5 | String | originatorName | 50 | | 1 | Item 3(c)(1) | o |
| 3 | 6 | Date2 | originationDate | | | 1 | Item 3(c)(2) | o |
| 3 | 7 | Decimal | originalLoanAmount | 20,8 | | 1 | Item 3(c)(3) | o |
| 3 | 8 | Integer | originalLoanTerm | 8 | | 1 | Item 3(c)(4) | o |
| 3 | 9 | Date2 | loanMaturityDate | | | 1 | Item 3(c)(5) | o |
| 3 | 10 | Decimal | originalInterestRatePercentage | 20,8 | | 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 | Date2 | 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 |
| 3 | 18 | String | subvented | | SUBVNT_CODE_TYPE | Unlimited | Item 3(c)(14) | o |

| Level | Order | Data Type | Element/Attribute Name | Max Length | Choice List | Max Occur | Item | Asset Data |
|-------|-------|-----------|---|------------|---|-----------|---------------|------------|
| 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 | 20,8 | | 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 | 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 | coObligorIndicator | | | 1 | Item 3(e)(5) | o |
| 3 | 31 | Decimal | paymentToIncomePercentage | 20,8 | | 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 | | 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 | 20,8 | | 1 | Item 3(f)(5) | o |
| 3 | 38 | Decimal | nextReportingPeriodPaymentAmountDue | 20,8 | | 1 | Item 3(f)(6) | o |
| 3 | 39 | Decimal | reportingPeriodInterestRatePercentage | 20,8 | | 1 | Item 3(f)(7) | o |
| 3 | 40 | Decimal | nextInterestRatePercentage | 20,8 | | 1 | Item 3(f)(8) | o |
| 3 | 41 | Decimal | servicingFeePercentage | 20,8 | | 1 | Item 3(f)(9) | o |
| 3 | 42 | Decimal | servicingFlatFeeAmount | 20,8 | | 1 | Item 3(f)(10) | o |
| 3 | 43 | Decimal | otherServicerFeeRetainedByServicer | 20,8 | | 1 | Item 3(f)(11) | o |
| 3 | 44 | Decimal | otherAssessedUncollectedServicerFeeAmount | 20,8 | | 1 | Item 3(f)(12) | o |
| 3 | 45 | Decimal | scheduledInterestAmount | 20,8 | | 1 | Item 3(f)(13) | o |

| Level | Order | Data Type | Element/Attribute Name | Max Length | Choice List | Max Occur | Item | Asset Data |
|-------|-------|-----------|---|------------|---|-----------|-------------------|------------|
| 3 | 46 | Decimal | scheduledPrincipalAmount | 20,8 | | 1 | Item 3(f)(14) | o |
| 3 | 47 | Decimal | otherPrincipalAdjustmentAmount | 20,8 | | 1 | Item 3(f)(15) | o |
| 3 | 48 | Decimal | reportingPeriodActualEndBalanceAmount | 20,8 | | 1 | Item 3(f)(16) | o |
| 3 | 49 | Decimal | reportingPeriodScheduledPaymentAmount | 20,8 | | 1 | Item 3(f)(17) | o |
| 3 | 50 | Decimal | totalActualAmountPaid | 20,8 | | 1 | Item 3(f)(18) | o |
| 3 | 51 | Decimal | actualInterestCollectedAmount | 20,8 | | 1 | Item 3(f)(19) | o |
| 3 | 52 | Decimal | actualPrincipalCollectedAmount | 20,8 | | 1 | Item 3(f)(20) | o |
| 3 | 53 | Decimal | actualOtherCollectedAmount | 20,8 | | 1 | Item 3(f)(21) | o |
| 3 | 54 | Decimal | servicerAdvancedAmount | 20,8 | | 1 | Item 3(f)(22) | o |
| 3 | 55 | Date1 | interestPaidThroughDate | | | 1 | Item 3(f)(23) | o |
| 3 | 56 | Date2 | 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 | | 1 | Item 3(f)(25) | o |
| 3 | 59 | String | primaryLoanServicerName | 100 | | 1 | Item 3(g)(1) | o |
| 3 | 60 | Date2 | 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 | 20,8 | | 1 | Item 3(h)(2) | o |
| 3 | 64 | Date1 | demandResolutionDate | | | 1 | Item 3(h)(3) | o |
| 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 | 20,8 | | 1 | Item 3(i)(1) | o |
| 3 | 68 | Decimal | recoveredAmount | 20,8 | | 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 | 20,8 | | 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 | Date1 | reportingPeriodBeginDate | | | 1 | Item 4(b)(1) | o |
| 3 | 4 | Date1 | reportingPeriodEndDate | | | 1 | Item 4(b)(2) | o |
| 3 | 5 | String | originatorName | 30 | | 1 | Item 4(c)(1) | o |
| 3 | 6 | Date2 | originationDate | | | 1 | Item 4(c)(2) | o |
| 3 | 7 | Decimal | acquisitionCost | 20,8 | | 1 | Item 4(c)(3) | o |
| 3 | 8 | Integer | originalLeaseTermNumber | 8 | | 1 | Item 4(c)(4) | o |
| 3 | 9 | Date2 | scheduledTerminationDate | | | 1 | Item 4(c)(5) | o |
| 3 | 10 | Date2 | originalFirstPaymentDate | | | 1 | Item 4(c)(6) | o |
| 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 | 20,8 | | 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 | 20,8 | | 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 | 20,8 | | 1 | Item 4(d)(10) | o |

| Level | Order | Data Type | Element/Attribute Name | Max Length | Choice List | Max Occur | Item | Asset Data |
|-------|-------|-----------|--|------------|---|-----------|-------------------|------------|
| 3 | 25 | String | lesseeCreditScoreType | 35 | | 1 | Item 4(e)(1) | o |
| 3 | 26 | String | lesseeCreditScore | 20 | | 1 | Item 4(e)(2) | o |
| 3 | 27 | String | lesseeIncomeVerificationLevelCode | | LSSE INCM VRFCN LVL CODE TYPE | 1 | Item 4(e)(3) | o |
| 3 | 28 | String | lesseeEmploymentVerificationCode | | LSSE EMPLOY VRFCN CODE TYPE | 1 | Item 4(e)(4) | o |
| 3 | 29 | Boolean | coLesseePresentIndicator | | | 1 | Item 4(e)(5) | o |
| 3 | 30 | Decimal | paymentToIncomePercentage | 20,8 | | 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 | | 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 | 20,8 | | 1 | Item 4(f)(5) | o |
| 3 | 37 | Decimal | securitizationDiscountRate | 20,8 | | 1 | Item 4(f)(6) | o |
| 3 | 38 | Decimal | nextReportingPeriodPaymentAmountDue | 20,8 | | 1 | Item 4(f)(7) | o |
| 3 | 39 | Decimal | servicingFeePercentage | 20,8 | | 1 | Item 4(f)(8) | o |
| 3 | 40 | Decimal | servicingFlatFeeAmount | 20,8 | | 1 | Item 4(f)(9) | o |
| 3 | 41 | Decimal | otherLeaseLevelServicingFeesRetainedAmount | 20,8 | | 1 | Item 4(f)(10) | o |
| 3 | 42 | Decimal | otherAssessedUncollectedServicerFeeAmount | 20,8 | | 1 | Item 4(f)(11) | o |
| 3 | 43 | Decimal | reportingPeriodEndingActualBalanceAmount | 20,8 | | 1 | Item 4(f)(12) | o |
| 3 | 44 | Decimal | reportingPeriodScheduledPaymentAmount | 20,8 | | 1 | Item 4(f)(13) | o |
| 3 | 45 | Decimal | totalActualAmountPaid | 20,8 | | 1 | Item 4(f)(14) | o |
| 3 | 46 | Decimal | actualOtherCollectedAmount | 20,8 | | 1 | Item 4(f)(15) | o |
| 3 | 47 | Decimal | reportingPeriodEndActualSecuritizationAmount | 20,8 | | 1 | Item 4(f)(16) | o |
| 3 | 48 | Decimal | servicerAdvancedAmount | 20,8 | | 1 | Item 4(f)(17) | o |
| 3 | 49 | Date1 | paidThroughDate | | | 1 | Item 4(f)(18) | o |
| 3 | 50 | Date2 | zeroBalanceEffectiveDate | | | 1 | Item 4(f)(19)(i) | o |
| 3 | 51 | String | zeroBalanceCode | | ZERO BAL CODE TYPE | Unlimited | Item 4(f)(19)(ii) | o |

| Level | Order | Data Type | Element/Attribute Name | Max Length | Choice List | Max Occur | Item | Asset Data |
|-------|-------|-----------|---|------------|---|-----------|---------------|------------|
| 3 | 52 | Integer | currentDelinquencyStatus | 8 | | 1 | Item 4(f)(20) | o |
| 3 | 53 | String | primaryLeaseServicerName | 30 | | 1 | Item 4(g)(1) | o |
| 3 | 54 | Date2 | mostRecentServicingTransferReceivedDate | | | 1 | Item 4(g)(2) | o |
| 3 | 55 | Boolean | assetSubjectDemandIndicator | | | 1 | Item 4(h) | o |
| 3 | 56 | String | assetSubjectDemandStatusCode | | REPRCH_STAT_ASSET_SUBJ_DMND_CODE_TYPE | 1 | Item 4(h)(1) | o |
| 3 | 57 | Decimal | repurchaseAmount | 20,8 | | 1 | Item 4(h)(2) | o |
| 3 | 58 | Date1 | DemandResolutionDate | | | 1 | Item 4(h)(3) | o |
| 3 | 59 | String | repurchaserName | 30 | | 1 | Item 4(h)(4) | o |
| 3 | 60 | String | repurchaseOrReplacementReasonCode | | REPRCH_RPLC_REASN_CODE_TYPE | Unlimited | Item 4(h)(5) | o |
| 3 | 61 | Decimal | chargedOffAmount | 20,8 | | 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 | 20,8 | | 1 | Item 4(k)(2) | o |
| 3 | 66 | Decimal | liquidationProceedsAmount | 20,8 | | 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 |

| Level | Order | Data Type | Element/Attribute Name | Max Length | Choice List | Max Occur | Item | Asset Data |
|-------|-------|-----------|---|------------|--|-----------|---------------|------------|
| 3 | 3 | Integer | GroupID | 8 | | 1 | Item 2(a)(3) | o |
| 3 | 4 | Date1 | reportingPeriodBeginningDate | | | 1 | Item 2(b)(1) | o |
| 3 | 5 | Date1 | reportingPeriodEndDate | | | 1 | Item 2(b)(2) | o |
| 3 | 6 | String | originatorName | 150 | | 1 | Item 2(c)(1) | o |
| 3 | 7 | Date1 | originationDate | | | 1 | Item 2(c)(2) | o |
| 3 | 8 | Decimal | originalLoanAmount | 20,8 | | 1 | Item 2(c)(3) | o |
| 3 | 9 | Integer | originalTermLoanNumber | 8 | | 1 | Item 2(c)(4) | o |
| 3 | 10 | Date1 | maturityDate | | | 1 | Item 2(c)(5) | o |
| 3 | 11 | Integer | originalAmortizationTermNumber | 8 | | 1 | Item 2(c)(6) | o |
| 3 | 12 | Decimal | originalInterestRatePercentage | 20,8 | | 1 | Item 2(c)(7) | o |
| 3 | 13 | Decimal | interestRateSecuritizationPercentage | 20,8 | | 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 | Date1 | 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 | 20,8 | | 1 | Item 2(c)(17) | o |
| 3 | 23 | Decimal | scheduledPrincipalBalanceSecuritizationAmount | 20,8 | | 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 |

| Level | Order | Data Type | Element/Attribute Name | Max Length | Choice List | Max Occur | Item | Asset Data |
|-------|-------|-----------|---|------------|---------------------------------------|-----------|---------------------|------------|
| 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_IDX_CODE_TYPE | 1 | Item 2(c)(28)(i) | o |
| 3 | 34 | Date1 | firstRateAdjustmentDate | | | 1 | Item 2(c)(28)(ii) | o |
| 3 | 35 | Date1 | firstPaymentAdjustmentDate | | | 1 | Item 2(c)(28)(iii) | o |
| 3 | 36 | Integer | armMarginNumber | 8 | | 1 | Item 2(c)(28)(iv) | o |
| 3 | 37 | Decimal | lifetimeRateCapPercentage | 20,8 | | 1 | Item 2(c)(28)(v) | o |
| 3 | 38 | Decimal | lifetimeRateFloorPercentage | 20,8 | | 1 | Item 2(c)(28)(vi) | o |
| 3 | 39 | Decimal | periodicRateIncreaseLimitPercentage | 20,8 | | 1 | Item 2(c)(28)(vii) | o |
| 3 | 40 | Decimal | periodicRateDecreaseLimitPercentage | 20,8 | | 1 | Item 2(c)(28)(viii) | o |
| 3 | 41 | Decimal | periodicPaymentAdjustmentMaximumAmount | 20,8 | | 1 | Item 2(c)(28)(ix) | o |
| 3 | 42 | Decimal | periodicPaymentAdjustmentMaximumPercent | 20,8 | | 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 | Date1 | prepaymentLockOutEndDate | | | 1 | Item 2(c)(29)(i) | o |
| 3 | 47 | Date1 | yieldMaintenanceEndDate | | | 1 | Item 2(c)(29)(ii) | o |
| 3 | 48 | Date1 | prepaymentPremiumsEndDate | | | 1 | Item 2(c)(29)(iii) | o |
| 3 | 49 | Decimal | maximumNegativeAmortizationAllowedPercentage | 20,8 | | 1 | Item 2(c)(30)(i) | o |
| 3 | 50 | Decimal | maximumNegativeAmortizationAllowedAmount | 20,8 | | 1 | Item 2(c)(30)(ii) | o |
| 3 | 51 | Decimal | negativeAmortizationDeferredInterestCapAmount | 20,8 | | 1 | Item 2(c)(30)(iii) | o |
| 3 | 52 | Decimal | deferredInterestCumulativeAmount | 20,8 | | 1 | Item 2(c)(30)(iv) | o |
| 3 | 53 | Decimal | deferredInterestCollectedAmount | 20,8 | | 1 | Item 2(c)(30)(v) | o |

| Level | Order | Data Type | Element/Attribute Name | Max Length | Choice List | Max Occur | Item | Asset Data |
|-------|-------|-----------|---|------------|--|-----------|-------------------|------------|
| 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 |
| 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 | | PROPRY_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 | 20,8 | | 1 | Item 2(d)(14) | o |
| 4 | 69 | String | valuationSourceSecuritizationCode | | VAL_SRC_SCRTZTN_CODE_TYPE | 1 | Item 2(d)(15) | o |
| 4 | 70 | Date1 | valuationSecuritizationDate | | | 1 | Item 2(d)(16) | o |
| 4 | 71 | Decimal | mostRecentValuationAmount | 20,8 | | 1 | Item 2(d)(17) | o |
| 4 | 72 | Date1 | 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 | 20,8 | | 1 | Item 2(d)(20) | o |
| 4 | 75 | Decimal | mostRecentPhysicalOccupancyPercentage | 20,8 | | 1 | Item 2(d)(21) | o |
| 4 | 76 | String | propertyStatusCode | | PROPRY_STAT_CODE_TYPE | 1 | Item 2(d)(22) | o |
| 4 | 77 | Date1 | 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 |

| Level | Order | Data Type | Element/Attribute Name | Max Length | Choice List | Max Occur | Item | Asset Data |
|-------|-------|-----------|---|------------|---|-----------|---------------------|------------|
| 4 | 81 | Date1 | 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 |
| 4 | 84 | Date1 | 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 | Date1 | leaseExpirationThirdLargestTenantDate | | | 1 | Item 2(d)(27)(iii) | o |
| 4 | 88 | Date1 | financialsSecuritizationDate | | | 1 | Item 2(d)(28)(i) | o |
| 4 | 89 | Date1 | mostRecentFinancialsStartDate | | | 1 | Item 2(d)(28)(ii) | o |
| 4 | 90 | Date1 | mostRecentFinancialsEndDate | | | 1 | Item 2(d)(28)(iii) | o |
| 4 | 91 | Decimal | revenueSecuritizationAmount | 20,8 | | 1 | Item 2(d)(28)(iv) | o |
| 4 | 92 | Decimal | mostRecentRevenueAmount | 20,8 | | 1 | Item 2(d)(28)(v) | o |
| 4 | 93 | Decimal | operatingExpensesSecuritizationAmount | 20,8 | | 1 | Item 2(d)(28)(vi) | o |
| 4 | 94 | Decimal | operatingExpensesAmount | 20,8 | | 1 | Item 2(d)(28)(vii) | o |
| 4 | 95 | Decimal | netOperatingIncomeSecuritizationAmount | 20,8 | | 1 | Item 2(d)(28)(viii) | o |
| 4 | 96 | Decimal | mostRecentNetOperatingIncomeAmount | 20,8 | | 1 | Item 2(d)(28)(ix) | o |
| 4 | 97 | Decimal | netCashFlowFlowSecuritizationAmount | 20,8 | | 1 | Item 2(d)(28)(x) | o |
| 4 | 98 | Decimal | mostRecentNetCashFlowAmount | 20,8 | | 1 | Item 2(d)(28)(xi) | o |
| 4 | 99 | String | netOperatingIncomeNetCashFlowSecuritizationCode | | NET OPRTNG INCM NET CASH FLW S CRTZTN CODE TYPE | 1 | Item 2(d)(28)(xii) | o |
| 4 | 100 | String | netOperatingIncomeNetCashFlowCode | | NET OPRTNG INCM NET CASH FLW C ODE TYPE | 1 | Item 2(d)(28)(xiii) | o |
| 4 | 101 | Decimal | mostRecentDebtServiceAmount | | | 1 | Item 2(d)(28)(xiv) | o |
| 4 | 102 | Decimal | debtServiceCoverageNetOperatingIncomeSecuritizationPercentage | 20,8 | | 1 | Item 2(d)(28)(xv) | o |

| Level | Order | Data Type | Element/Attribute Name | Max Length | Choice List | Max Occur | Item | Asset Data |
|-------|-------|-----------|---|------------|--|-----------|----------------------|------------|
| 4 | 103 | Decimal | mostRecentDebtServiceCoverageNetOperatingIncomePercentage | 20,8 | | 1 | Item 2(d)(28)(xvi) | o |
| 4 | 104 | Decimal | debtServiceCoverageNetCashFlowSecuritizationPercentage | 20,8 | | 1 | Item 2(d)(28)(xvii) | o |
| 4 | 105 | Decimal | mostRecentDebtServiceCoverageNetCashFlowpercentage | 20,8 | | 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 | | MST_RCNT_DEBT_SRVC_AMNT_CODE_T YPE | 1 | Item 2(d)(28)(xx) | o |
| 4 | 108 | Date1 | 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 | 20,8 | | 1 | Item 2(e)(3) | o |
| 3 | 112 | Decimal | totalScheduledPrincipalInterestDueAmount | 20,8 | | 1 | Item 2(e)(4) | o |
| 3 | 113 | Decimal | reportPeriodInterestRatePercentage | 20,8 | | 1 | Item 2(e)(5) | o |
| 3 | 114 | Decimal | servicerTrusteeFeeRatePercentage | 20,8 | | 1 | Item 2(e)(6) | o |
| 3 | 115 | Decimal | scheduledInterestAmount | 20,8 | | 1 | Item 2(e)(7) | o |
| 3 | 116 | Decimal | otherInterestAdjustmentAmount | 20,8 | | 1 | Item 2(e)(8) | o |
| 3 | 117 | Decimal | scheduledPrincipalAmount | 20,8 | | 1 | Item 2(e)(9) | o |
| 3 | 118 | Decimal | unscheduledPrincipalCollectedAmount | 20,8 | | 1 | Item 2(e)(10) | o |
| 3 | 119 | Decimal | otherPrincipalAdjustmentAmount | 20,8 | | 1 | Item 2(e)(11) | o |
| 3 | 120 | Decimal | reportPeriodEndActualBalanceAmount | 20,8 | | 1 | Item 2(e)(12) | o |
| 3 | 121 | Decimal | reportPeriodEndScheduledLoanBalanceAmount | 20,8 | | 1 | Item 2(e)(13) | o |
| 3 | 122 | Date1 | paidThroughDate | | | 1 | Item 2(e)(14) | o |
| 3 | 123 | Date1 | 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 | 20,8 | | 1 | Item 2(e)(16)(iii) | o |
| 3 | 127 | Decimal | totalTaxesInsuranceAdvancesOutstandingAmount | 20,8 | | 1 | Item | o |

| Level | Order | Data Type | Element/Attribute Name | Max Length | Choice List | Max Occur | Item | Asset Data |
|-------|-------|-----------|---|------------|--|-----------|--------------------|------------|
| | | | | | | | 2(e)(16)(iv) | |
| 3 | 128 | Decimal | otherExpensesAdvancedOutstandingAmount | 20,8 | | 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 | 20,8 | | 1 | Item 2(e)(18)(i) | o |
| 3 | 131 | Decimal | nextInterestRatePercentage | 20,8 | | 1 | Item 2(e)(18)(ii) | o |
| 3 | 132 | Date1 | nextInterestRateChangeAdjustmentDate | | | 1 | Item 2(e)(18)(iii) | o |
| 3 | 133 | Date1 | nextPaymentAdjustmentDate | | | 1 | Item 2(e)(18)(iv) | o |
| 3 | 134 | String | primaryServicerName | 30 | | 1 | Item 2(f)(1) | o |
| 3 | 135 | Date1 | mostRecentSpecialServicerTransferDate | | | 1 | Item 2(f)(2) | o |
| 3 | 136 | Date1 | 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 | 20,8 | | 1 | Item 2(g)(2) | o |
| 3 | 140 | Date1 | 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 | 20,8 | | 1 | Item 2(h) | o |
| 3 | 144 | String | liquidationPrepaymentCode | | LIQDTN_PRPYMNT_CODE_TYPE | 1 | Item 2(i)(1) | o |
| 3 | 145 | Date1 | liquidationPrepaymentDate | | | 1 | Item 2(i)(2) | o |
| 3 | 146 | Decimal | prepaymentPremiumYieldMaintenanceReceivedAmount | 20,8 | | 1 | Item 2(i)(3) | o |
| 3 | 147 | String | workoutStrategyCode | | WRKOUT_STRAT_CODE_TYPE | Unlimited | Item 2(j) | o |
| 3 | 148 | Date1 | lastModificationDate | | | 1 | Item 2(k)(1) | o |
| 3 | 149 | String | modificationCode | | MOD_CODE_TYPE | Unlimited | Item 2(k)(2) | o |
| 3 | 150 | Decimal | postModificationInterestPercentage | 20,8 | | 1 | Item 2(k)(3) | o |
| 3 | 151 | Decimal | postModificationPaymentAmount | 20,8 | | 1 | Item 2(k)(4) | o |
| 3 | 152 | Date1 | postModificationMaturityDate | | | 1 | Item 2(k)(5) | o |

| Level | Order | Data Type | Element/Attribute Name | Max Length | Choice List | Max Occur | Item | Asset Data |
|-------|-------|-----------|--|------------|-------------|-----------|--------------|------------|
| 3 | 153 | Decimal | postModificationAmortizationPeriodAmount | 20,8 | | 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 | Date1 | reportPeriodBeginDate | | | 1 | Item 1(b)(1) | o |
| 3 | 5 | Date1 | 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 | | 1 | Item 1(c)(3) | o |
| 3 | 9 | Date2 | originalLoanMaturityDate | | | 1 | Item 1(c)(4) | o |
| 3 | 10 | Integer | originalAmortizationTermNumber | 8 | | 1 | Item 1(c)(5) | o |
| 3 | 11 | Decimal | originalInterestRatePercentage | 20,8 | | 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 | | 1 | Item 1(c)(12)(i) | o |
| 3 | 18 | Date2 | mostRecentJuniorLoanBalanceDate | | | 1 | Item 1(c)(12)(ii) | o |
| 3 | 19 | Decimal | mostRecentSeniorLoanAmount | 20,8 | | 1 | Item 1(c)(13)(i) | o |
| 3 | 20 | Date2 | 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 | | 1 | Item 1(c)(13)(iv) | o |
| 3 | 23 | Decimal | mostSeniorLienNegativeAmortizationLimitPercentage | 20,8 | | 1 | Item 1(c)(13)(v) | o |

| Level | Order | Data Type | Element/Attribute Name | Max Length | Choice List | Max Occur | Item | Asset Data |
|-------|-------|-----------|--|------------|--|-----------|---------------------|------------|
| 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 | | 1 | Item 1(c)(22) | o |
| 3 | 33 | Decimal | totalOriginationDiscountAmount | 20,8 | | 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 | | 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 | | 1 | Item 1(c)(29)(ii) | o |
| 3 | 41 | Decimal | fullyIndexedRatePercentage | 20,8 | | 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 | | 1 | Item 1(c)(29)(v) | o |
| 3 | 44 | Decimal | initialInterestRateIncreasePercentage | 20,8 | | 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 |
| 3 | 47 | Decimal | lifetimeRateCeilingPercentage | 20,8 | | 1 | Item 1(c)(29)(ix) | o |
| 3 | 48 | Decimal | lifetimeRateFloorPercentage | 20,8 | | 1 | Item 1(c)(29)(x) | o |

| Level | Order | Data Type | Element/Attribute Name | Max Length | Choice List | Max Occur | Item | Asset Data |
|-------|-------|-----------|--|------------|--|-----------|----------------------|------------|
| 3 | 49 | Decimal | subsequentInterestRateDecreasePercentage | 20,8 | | 1 | Item 1(c)(29)(xi) | o |
| 3 | 50 | Decimal | subsequentInterestRateIncreasePercentage | 20,8 | | 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 | | 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 | | 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 | | 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 | | 1 | Item 1(c)(31)(iv) | o |
| 3 | 68 | Integer | initialFixedPaymentNumber | 8 | | 1 | Item 1(c)(31)(v) | o |
| 3 | 69 | Decimal | initialPaymentCapPercentage | 20,8 | | 1 | Item 1(c)(31)(vi) | o |

| Level | Order | Data Type | Element/Attribute Name | Max Length | Choice List | Max Occur | Item | Asset Data |
|-------|-------|-----------|-------------------------------------|------------|---|-----------|---------------------|------------|
| 3 | 70 | Decimal | subsequentPaymentCapPercentage | 20,8 | | 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 | | 1 | Item 1(c)(31)(x) | o |
| 3 | 74 | Integer | geographicalLocation | 8 | | 1 | Item 1(d)(1) | o |
| 3 | 75 | String | occupancyStatusCode | | OCCPNY_STAT_CODE_TYPE | 1 | Item 1(d)(2) | o |
| 3 | 76 | String | mostRecentOccupancyStatusCode | | MST_RCNT_OCCPNY_STAT_CODE_TYPE | 1 | Item 1(d)(3) | o |
| 3 | 77 | String | propertyTypeCode | | PROPTY_TYP_CODE_TYPE | 1 | Item 1(d)(4) | o |
| 3 | 78 | Decimal | mostRecentPropertyValueAmount | 20,8 | | 1 | Item 1(d)(5) | o |
| 3 | 79 | String | mostRecentPropertyValueTypeCode | | PROPTY_MST_RCNT_VAL_TYP_CODE_TYPE | 1 | Item 1(d)(6) | o |
| 3 | 80 | Date2 | mostRecentPropertyValueDate | | | 1 | Item 1(d)(7) | o |
| 3 | 81 | String | mostRecentAVMModelCode | | PROPTY_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 | | 1 | Item 1(d)(10) | o |
| 3 | 84 | Decimal | originalLTVPercentage | 20,8 | | 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 | Date2 | mostRecentObligorCreditScoreDate | | | 1 | Item 1(e)(6) | o |
| 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 | | 1 | Item 1(e)(9) | o |

| Level | Order | Data Type | Element/Attribute Name | Max Length | Choice List | Max Occur | Item | Asset Data |
|-------|-------|-----------|--|------------|---|-----------|---------------|------------|
| 3 | 94 | Decimal | originatorBackEndDTIPercentage | 20,8 | | 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 | | 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 | | 1 | Item 1(f)(2) | o |
| 3 | 102 | String | poolInsuranceCompanyName | 150 | | 1 | Item 1(f)(3) | o |
| 3 | 103 | Decimal | poolInsuranceStopLossPercentage | 20,8 | | 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 | Date1 | 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 | Date1 | stopPrincipalInterestAdvancingDate | | | 1 | Item 1(g)(7) | o |
| 3 | 112 | Decimal | reportingPeriodBeginningLoanBalanceAmount | 20,8 | | 1 | Item 1(g)(8) | o |
| 3 | 113 | Decimal | reportingPeriodBeginningScheduledLoanBalanceAmount | 20,8 | | 1 | Item 1(g)(9) | o |
| 3 | 114 | Decimal | nextReportingPeriodPaymentDueAmount | 20,8 | | 1 | Item 1(g)(10) | o |
| 3 | 115 | Decimal | reportingPeriodInterestRatePercentage | 20,8 | | 1 | Item 1(g)(11) | o |
| 3 | 116 | Decimal | nextInterestRatePercentage | 20,8 | | 1 | Item 1(g)(12) | o |
| 3 | 117 | Decimal | servicingFeePercentage | 20,8 | | 1 | Item 1(g)(13) | o |
| 3 | 118 | Decimal | servicingFlatFeeAmount | 20,8 | | 1 | Item 1(g)(14) | o |
| 3 | 119 | Decimal | otherAssessedUncollectedServicerFeeamount | 20,8 | | 1 | Item 1(g)(15) | o |
| 3 | 120 | Decimal | otherServicingFeeRetainedByServicerAmount | 20,8 | | 1 | Item 1(g)(16) | o |

| Level | Order | Data Type | Element/Attribute Name | Max Length | Choice List | Max Occur | Item | Asset Data |
|-------|-------|-----------|---|------------|-------------|-----------|---------------------|------------|
| 3 | 121 | Decimal | scheduledInterestAmount | 20,8 | | 1 | Item 1(g)(17) | o |
| 3 | 122 | Decimal | otherInterestAdjustmentAmount | 20,8 | | 1 | Item 1(g)(18) | o |
| 3 | 123 | Decimal | scheduledPrincipalAmount | 20,8 | | 1 | Item 1(g)(19) | o |
| 3 | 124 | Decimal | otherPrincipalAdjustmentAmount | 20,8 | | 1 | Item 1(g)(20) | o |
| 3 | 125 | Decimal | reportingPeriodEndActualBalanceAmount | 20,8 | | 1 | Item 1(g)(21) | o |
| 3 | 126 | Decimal | reportingPeriodEndScheduledBalanceAmount | 20,8 | | 1 | Item 1(g)(22) | o |
| 3 | 127 | Decimal | reportingPeriodScheduledPaymentAmount | 20,8 | | 1 | Item 1(g)(23) | o |
| 3 | 128 | Decimal | totalActualPaidAmount | 20,8 | | 1 | Item 1(g)(24) | o |
| 3 | 129 | Decimal | actualInterestCollectedAmount | 20,8 | | 1 | Item 1(g)(25) | o |
| 3 | 130 | Decimal | actualPrincipalCollectedAmount | 20,8 | | 1 | Item 1(g)(26) | o |
| 3 | 131 | Decimal | actualOtherCollectedAmount | 20,8 | | 1 | Item 1(g)(27) | o |
| 3 | 132 | Date1 | paidThroughDate | | | 1 | Item 1(g)(28) | o |
| 3 | 133 | Date1 | interestPaidThroughDate | | | 1 | Item 1(g)(29) | o |
| 3 | 134 | Decimal | paidFullAmount | 20,8 | | 1 | Item 1(g)(30) | o |
| 3 | 135 | Decimal | servicerAdvancedPrincipalAmount | 20,8 | | 1 | Item 1(g)(31)(i) | o |
| 3 | 136 | Decimal | servicerAdvancedRepaidPrincipalAmount | 20,8 | | 1 | Item 1(g)(31)(ii) | o |
| 3 | 137 | Decimal | servicerAdvancedCumulativePrincipalAmount | 20,8 | | 1 | Item 1(g)(31)(iii) | o |
| 3 | 138 | Decimal | servicerAdvanceInterestAmount | 20,8 | | 1 | Item 1(g)(31)(iv) | o |
| 3 | 139 | Decimal | servicerAdvanceRepaidInterestAmount | 20,8 | | 1 | Item 1(g)(31)(v) | o |
| 3 | 140 | Decimal | servicerAdvanceCumulativeInterestAmount | 20,8 | | 1 | Item 1(g)(31)(vi) | o |
| 3 | 141 | Decimal | servicerAdvanceTaxesInsuranceAmount | 20,8 | | 1 | Item 1(g)(31)(vii) | o |
| 3 | 142 | Decimal | servicerAdvanceRepaidTaxesInsuranceAmount | 20,8 | | 1 | Item 1(g)(31)(viii) | o |
| 3 | 143 | Decimal | servicerAdvanceCumulativeTaxesInsuranceAmount | 20,8 | | 1 | Item 1(g)(31)(ix) | o |
| 3 | 144 | Decimal | servicerAdvanceCorporateAmount | 20,8 | | 1 | Item 1(g)(31)(x) | o |
| 3 | 145 | Decimal | servicerAdvanceRepaidCorporateAmount | 20,8 | | 1 | Item | o |

| Level | Order | Data Type | Element/Attribute Name | Max Length | Choice List | Max Occur | Item | Asset Data |
|-------|-------|-----------|--|------------|--|-----------|--------------------|------------|
| | | | | | | | 1(g)(31)(xi) | |
| 3 | 146 | Decimal | servicerAdvanceCumulativeCorporateAmount | 20,8 | | 1 | Item 1(g)(31)(xii) | o |
| 3 | 147 | Date2 | 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 | | 1 | Item 1(g)(35)(i) | o |
| 3 | 152 | Date2 | nextPaymentChangeDate | | | 1 | Item 1(g)(35)(ii) | o |
| 3 | 153 | Date2 | nextInterestRateChangeDate | | | 1 | Item 1(g)(35)(iii) | o |
| 3 | 154 | Decimal | nextResetPaymentAmount | 20,8 | | 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 | Date2 | mostRecentServicingTransferReceivedDate | | | 1 | Item 1(h)(2) | o |
| 3 | 158 | String | masterServicerName | 150 | | 1 | Item 1(h)(3) | o |
| 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_TY PE | 1 | Item 1(i)(1) | o |
| 3 | 163 | Decimal | repurchaseAmount | 20,8 | | 1 | Item 1(i)(2) | o |
| 3 | 164 | Date1 | 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 | | 1 | Item 1(j)(1) | o |
| 3 | 168 | Decimal | chargeOffInterestAmount | 20,8 | | 1 | Item 1(j)(2) | o |
| 3 | 169 | String | lossMitigationTypeCode | | LOSS_MTGTION_TYP_CODE TYPE | Unlimited | Item 1(l) | o |

| Level | Order | Data Type | Element/Attribute Name | Max Length | Choice List | Max Occur | Item | Asset Data |
|-------|-------|-----------|--|------------|--|-----------|--------------------|------------|
| 3 | 170 | String | mostRecentLoanModificationEventCode | | MOD_MST_RCNT_LOAN_EVNT_CODE_TYPE | Unlimited | Item 1(m)(1) | o |
| 3 | 171 | Date2 | mostRecentLoanModificationEffectiveDate | | | 1 | Item 1(m)(2) | o |
| 3 | 172 | Date2 | 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 | | 1 | Item 1(m)(6) | o |
| 3 | 176 | Date2 | postModificationFirstPaymentDate | | | 1 | Item 1(m)(7) | o |
| 3 | 177 | Decimal | postModificationLoanBalanceAmount | 20,8 | | 1 | Item 1(m)(8) | o |
| 3 | 178 | Decimal | postModificationPrincipalInterestPaymentAmount | 20,8 | | 1 | Item 1(m)(9) | o |
| 3 | 179 | Decimal | totalCapAmount | 20,8 | | 1 | Item 1(m)(10) | o |
| 3 | 180 | Boolean | incomeVerificationIndicatorAtModification | | | 1 | Item 1(m)(11) | o |
| 3 | 181 | Decimal | modificationFrontEndDebtToIncomePercentage | 20,8 | | 1 | Item 1(m)(12) | o |
| 3 | 182 | Decimal | modificationBackEndDebtToIncomePercentage | 20,8 | | 1 | Item 1(m)(13) | o |
| 3 | 183 | Decimal | totalDeferredAmount | 20,8 | | 1 | Item 1(m)(14) | o |
| 3 | 184 | Decimal | forgivenPrincipalCumulativeAmount | 20,8 | | 1 | Item 1(m)(15) | o |
| 3 | 185 | Decimal | forgivenPrincipalReportingPeriodAmount | 20,8 | | 1 | Item 1(m)(16) | o |
| 3 | 186 | Decimal | forgivenInterestCumulativeAmount | 20,8 | | 1 | Item 1(m)(17) | o |
| 3 | 187 | Decimal | forgivenInterestReportingPeriodAmount | 20,8 | | 1 | Item 1(m)(18) | o |
| 3 | 188 | Decimal | actualEndingBalanceTotalDebtAmount | 20,8 | | 1 | Item 1(m)(19) | o |
| 3 | 189 | Decimal | scheduledEndingBalanceTotalDebtAmount | 20,8 | | 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 | 20,8 | | 1 | Item 1(m)(21)(iii) | o |
| 3 | 193 | Integer | postModificationInterestResetNumber | 2 | | 1 | Item 1(m)(21)(iv) | o |
| 3 | 194 | Date2 | postModificationNextResetDate | | | 1 | Item 1(m)(21)(v) | o |

| Level | Order | Data Type | Element/Attribute Name | Max Length | Choice List | Max Occur | Item | Asset Data |
|-------|-------|-----------|--|------------|---|-----------|----------------------|------------|
| 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 | 20,8 | | 1 | Item 1(m)(21)(viii) | o |
| 3 | 198 | Decimal | postModificationInitialMinimumPayment | 20,8 | | 1 | Item 1(m)(21)(ix) | o |
| 3 | 199 | Date2 | postModificationNextPaymentAdjustmentDate | | | 1 | Item 1(m)(21)(x) | o |
| 3 | 200 | Decimal | postModificationARMPaymentRecastFrequency | 20,8 | | 1 | Item 1(m)(21)(xi) | o |
| 3 | 201 | Decimal | postModificationLifetimeFloorPercentage | 20,8 | | 1 | Item 1(m)(21)(xii) | o |
| 3 | 202 | Decimal | postModificationLifetimeCeilingPercentage | 20,8 | | 1 | Item 1(m)(21)(xiii) | o |
| 3 | 203 | Decimal | postModificationInitialInterestRateIncreasePercentage | 20,8 | | 1 | Item 1(m)(21)(xiv) | o |
| 3 | 204 | Decimal | postModificationInitialInterestRateDecreasePercentage | 20,8 | | 1 | Item 1(m)(21)(xv) | o |
| 3 | 205 | Decimal | postModificationSubsequentInterestIncreasePercentage | 20,8 | | 1 | Item 1(m)(21)(xvi) | o |
| 3 | 206 | Decimal | postModificationSubsequentInterestRateDecreasePercentage | 20,8 | | 1 | Item 1(m)(21)(xvii) | o |
| 3 | 207 | Decimal | postModificationPaymentCapPercentage | 20,8 | | 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 | 20,8 | | 1 | Item 1(m)(21)(xxiii) | o |
| 3 | 213 | Integer | postModificationInterestOnlyTermNumber | 2 | | 1 | Item 1(m)(22)(i) | o |
| 3 | 214 | Date2 | postModificationInterestOnlyLastPaymentDate | | | 1 | Item | o |

| Level | Order | Data Type | Element/Attribute Name | Max Length | Choice List | Max Occur | Item | Asset Data |
|-------|-------|-----------|--|------------|-------------|-----------|--------------------|------------|
| | | | | | | | 1(m)(22)(ii) | |
| 3 | 215 | Decimal | postModificationBalloonAmount | 20,8 | | 1 | Item 1(m)(23) | o |
| 3 | 216 | Boolean | postModificationInterestRateStepIndicator | | | 1 | Item 1(m)(24)(i) | o |
| 3 | 217 | Decimal | postModificationStepInterestPercentage | 20,8 | | 1 | Item 1(m)(24)(ii) | o |
| 3 | 218 | Date2 | postModificationStepDate | | | 1 | Item 1(m)(24)(iii) | o |
| 3 | 219 | Decimal | postModificationStepPrincipalInterestPaymentAmount | 20,8 | | 1 | Item 1(m)(24)(iv) | o |
| 3 | 220 | Integer | postModificationStepNumber | 8 | | 1 | Item 1(m)(24)(v) | o |
| 3 | 221 | Decimal | postModificationMaximumFutureStepAgreementPercentage | 20,8 | | 1 | Item 1(m)(24)(vi) | o |
| 3 | 222 | Date2 | postModificationMaximumStepAgreementRateDate | | | 1 | Item 1(m)(24)(vii) | o |
| 3 | 223 | Decimal | nonInterestBearingDeferredPrincipalCumulativeAmount | 20,8 | | 1 | Item 1(m)(25) | o |
| 3 | 224 | Decimal | nonInterestBearingDeferredPrincipalReportingPeriodAmount | 20,8 | | 1 | Item 1(m)(26) | o |
| 3 | 225 | Decimal | recoveryDeferredPrincipalReportingPeriodAmount | 20,8 | | 1 | Item 1(m)(27) | o |
| 3 | 226 | Decimal | nonInterestBearingDeferredPaidFullAmount | 20,8 | | 1 | Item 1(m)(28) | o |
| 3 | 227 | Decimal | nonInterestBearingDeferredInterestFeeReportingPeriodAmount | 20,8 | | 1 | Item 1(m)(29) | o |
| 3 | 228 | Decimal | nonInterestBearingDeferredInterestFeeCumulativeAmount | 20,8 | | 1 | Item 1(m)(30) | o |
| 3 | 229 | Decimal | recoveryDeferredInterestFeeReportingPeriodAmount | 20,8 | | 1 | Item 1(m)(31) | o |
| 3 | 230 | Date2 | mostRecentForbearancePlanOrTrialModificationStartDate | | | 1 | Item 1(n)(1) | o |
| 3 | 231 | Date2 | mostRecentForbearancePlanOrTrialModificationScheduledEndDate | | | 1 | Item 1(n)(2) | o |
| 3 | 232 | Date2 | mostRecentTrialModificationViolatedDate | | | 1 | Item 1(n)(3) | o |
| 3 | 233 | Date2 | mostRecentRepaymentPlanStartDate | | | 1 | Item 1(o)(1) | o |
| 3 | 234 | Date2 | mostRecentRepaymentPlanScheduledEndDate | | | 1 | Item 1(o)(2) | o |
| 3 | 235 | Date2 | mostRecentRepaymentPlanViolatedDate | | | 1 | Item 1(o)(3) | o |
| 3 | 236 | Decimal | shortSaleAcceptedOfferAmount | 20,8 | | 1 | Item 1(p)(1) | o |
| 3 | 237 | Date2 | mostRecentLossMitigationExitDate | | | 1 | Item 1(q)(1) | o |

| Level | Order | Data Type | Element/Attribute Name | Max Length | Choice List | Max Occur | Item | Asset Data |
|-------|-------|-----------|--|------------|--|-----------|--------------------|------------|
| 3 | 238 | String | mostRecentLossMitigationExitCode | | MST_RCNT_LOSS_MTGTION_EXIT_CODE_TYPE | 1 | Item 1(q)(2) | o |
| 3 | 239 | Date2 | attorneyReferralDate | | | 1 | Item 1(r)(1) | o |
| 3 | 240 | String | foreclosureDelayReasonCode | | FORECL_DELAY_REASN_CODE_TYPE | Unlimited | Item 1(r)(2) | o |
| 3 | 241 | Date2 | foreclosureExitDate | | | 1 | Item 1(r)(3) | o |
| 3 | 242 | String | foreclosureExitReasonCode | | FORECL_EXIT_REASN_CODE_TYPE | Unlimited | Item 1(r)(4) | o |
| 3 | 243 | Date2 | noticeOfIntentDate | | | 1 | Item 1(r)(5) | o |
| 3 | 244 | Decimal | mostRecentAcceptedREEOfferAmount | 20,8 | | 1 | Item 1(s)(1) | o |
| 3 | 245 | Date2 | mostRecentAcceptedREEOfferDate | | | 1 | Item 1(s)(2) | o |
| 3 | 246 | Decimal | grossLiquidationProceedsAmount | 20,8 | | 1 | Item 1(s)(3) | o |
| 3 | 247 | Decimal | netSalesProceedsAmount | 20,8 | | 1 | Item 1(s)(4) | o |
| 3 | 248 | Decimal | reportingPeriodLossPassedToIssuingEntityAmount | 20,8 | | 1 | Item 1(s)(5) | o |
| 3 | 249 | Decimal | cumulativeTotalLossPassedToIssuingEntityAmount | 20,8 | | 1 | Item 1(s)(6) | o |
| 3 | 250 | Decimal | subsequentRecoveryAmount | 20,8 | | 1 | Item 1(s)(7) | o |
| 3 | 251 | Boolean | evictionIndicator | | | 1 | Item 1(s)(8) | o |
| 3 | 252 | Date2 | 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 | 20,8 | | 1 | Item 1(t)(1)(i) | o |
| 3 | 255 | Decimal | servicingFeesClaimedAmount | 20,8 | | 1 | Item 1(t)(1)(ii) | o |
| 3 | 256 | Decimal | servicerAdvanceReimbursedPrincipalAmount | 20,8 | | 1 | Item 1(t)(1)(iii) | o |
| 3 | 257 | Decimal | servicerAdvanceReimbursedInterestAmount | 20,8 | | 1 | Item 1(t)(1)(iv) | o |
| 3 | 258 | Decimal | servicerAdvanceReimbursedTaxesInsuranceAmount | 20,8 | | 1 | Item 1(t)(1)(v) | o |
| 3 | 259 | Decimal | servicerAdvanceReimbursedCorporateAmount | 20,8 | | 1 | Item 1(t)(1)(vi) | o |
| 3 | 260 | Decimal | REOManagementFeesAmount | 20,8 | | 1 | Item 1(t)(1)(vii) | o |
| 3 | 261 | Decimal | cashKeyDeedAmount | 20,8 | | 1 | Item 1(t)(1)(viii) | o |
| 3 | 262 | Decimal | performanceIncentiveFeesAmount | 20,8 | | 1 | Item 1(t)(1)(ix) | o |
| 3 | 263 | Date2 | mortgageInsuranceClaimFiledDate | | | 1 | Item 1(u)(1) | o |
| 3 | 264 | Decimal | mortgageInsuranceClaimAmount | 20,8 | | 1 | Item 1(u)(2) | o |

| Level | Order | Data Type | Element/Attribute Name | Max Length | Choice List | Max Occur | Item | Asset Data |
|-------|-------|-----------|---|------------|--|-----------|--------------|------------|
| 3 | 265 | Date2 | mortgageInsuranceClaimPaidDate | | | 1 | Item 1(u)(3) | o |
| 3 | 266 | Decimal | mortgageInsuranceClaimPaidAmount | 20,8 | | 1 | Item 1(u)(4) | o |
| 3 | 267 | Date2 | mortgageInsuranceClaimDeniedRescindedDate | | | 1 | Item 1(u)(5) | o |
| 3 | 268 | Date2 | marketableTitleTransferDate | | | 1 | Item 1(u)(6) | o |
| 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 | Date1 | reportPeriodBeginningDate | | | 1 | Item 5(b)(1) | o |
| 3 | 5 | Date1 | reportPeriodEndDate | | | 1 | Item 5(b)(2) | o |
| 3 | 6 | String | issuerName | 150 | | 1 | Item 5(c)(1) | o |
| 3 | 7 | Date2 | originalIssuanceDate | | | 1 | Item 5(c)(2) | o |
| 3 | 8 | Decimal | originalSecurityAmount | 20,8 | | 1 | Item 5(c)(3) | o |
| 3 | 9 | Integer | originalSecurityTermNumber | 8 | | 1 | Item 5(c)(4) | o |
| 3 | 10 | Date2 | securityMaturityDate | | | 1 | Item 5(c)(5) | o |
| 3 | 11 | Integer | originalAmortizationTermNumber | 8 | | 1 | Item 5(c)(6) | o |
| 3 | 12 | Decimal | originalInterestRatePercentage | 20,8 | | 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 | Date2 | 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 | 20,8 | | 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# |
| 3 | 24 | Boolean | callableIndicator | | | 1 | Item 5(c)(19) | o |

| Level | Order | Data Type | Element/Attribute Name | Max Length | Choice List | Max Occur | Item | Asset Data |
|-------|-------|-----------|--|------------|--------------------------------------|-----------|-------------------|------------|
| 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 | 20,8 | | 1 | Item 5(d)(3) | o |
| 3 | 30 | Decimal | reportPeriodBeginningScheduledAssetBalanceAmount | 20,8 | | 1 | Item 5(d)(4) | o |
| 3 | 31 | Decimal | reportPeriodScheduledPaymentAmount | 20,8 | | 1 | Item 5(d)(5) | o |
| 3 | 32 | Decimal | reportPeriodInterestRatePercentage | 20,8 | | 1 | Item 5(d)(6) | o |
| 3 | 33 | Decimal | totalActualPaidAmount | 20,8 | | 1 | Item 5(d)(7) | o |
| 3 | 34 | Decimal | actualInterestCollectionPercentage | 20,8 | | 1 | Item 5(d)(8) | o |
| 3 | 35 | Decimal | actualPrincipalCollectedAmount | 20,8 | | 1 | Item 5(d)(9) | o |
| 3 | 36 | Decimal | actualOtherCollectionAmount | 20,8 | | 1 | Item 5(d)(10) | o |
| 3 | 37 | Decimal | otherPrincipalAdjustmentAmount | 20,8 | | 1 | Item 5(d)(11) | o |
| 3 | 38 | Decimal | otherInterestAdjustmentAmount | 20,8 | | 1 | Item 5(d)(12) | o |
| 3 | 39 | Decimal | scheduledInterestAmount | 20,8 | | 1 | Item 5(d)(13) | o |
| 3 | 40 | Decimal | scheduledPrincipalAmount | 20,8 | | 1 | Item 5(d)(14) | o |
| 3 | 41 | Decimal | endReportingPeriodActualBalanceAmount | 20,8 | | 1 | Item 5(d)(15) | o |
| 3 | 42 | Decimal | endReportingPeriodScheduledBalanceAmount | 20,8 | | 1 | Item 5(d)(16) | o |
| 3 | 43 | Decimal | servicingFeePercentage | 20,8 | | 1 | Item 5(d)(17) | o |
| 3 | 44 | Decimal | servicingFlatFeeAmount | 20,8 | | 1 | Item 5(d)(18) | o |
| 3 | 45 | String | zeroBalanceCode | | ZERO_BAL_CODE_TYPE | 1 | Item 5(d)(19)(i) | o |
| 3 | 46 | Date2 | zeroBalanceEffectiveDate | | | 1 | Item 5(d)(19)(ii) | o |
| 3 | 47 | Integer | remainingTermToMaturityNumber | 8 | | 1 | Item 5(d)(20) | o |
| 3 | 48 | Integer | currentDelinquentStatusNumber | 8 | | 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 | 20,8 | | 1 | Item 5(d)(24) | o |

| Level | Order | Data Type | Element/Attribute Name | Max Length | Choice List | Max Occur | Item | Asset Data |
|-------|-------|-----------|---|------------|--|-----------|---------------|------------|
| 3 | 52 | Date2 | nextDueDate | | | 1 | Item 5(d)(25) | o |
| 3 | 53 | String | primaryLoanServicerName | 30 | | 1 | Item 5(e)(1) | o |
| 3 | 54 | Date2 | 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 | 20,8 | | 1 | Item 5(f)(2) | o |
| 3 | 58 | Date1 | 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_DMAMD_CODE_TYPE

These are the valid values for the <REPRCH_ASSET_SUBJ_DMAMD_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_RES DL_SRC_CODE_TYPE

These are the valid values for the <BS_RES DL_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_OPRPNG_INCM_NET_CASH_FLW_SCRTZTN_CODE_TYPE

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

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

4.3.16. NET_OPRPNG_INCM_NET_CASH_FLW_CODE_TYPE

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

| VALUE | CODE DESCRIPTION |
|-------|--|
| CREFC | Calculated using CREFC 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 |
|----------|--|
| <u>0</u> | <u>Current</u> |
| 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 |

| VALUE | CODE DESCRIPTION |
|-------|------------------|
| 5 | Servicer breach |
| 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 |

| VALUE | CODE DESCRIPTION |
|-------|------------------|
| 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 |

| VALUE | CODE DESCRIPTION |
|-------|-----------------------|
| 2 | ARM |
| 3 | Hybrid |
| 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) |

| VALUE | CODE DESCRIPTION |
|-------|--|
| 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 |

4.4.10. 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 |

| VALUE | CODE DESCRIPTION |
|-------|------------------|
| 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 1 st 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% |

| VALUE | CODE DESCRIPTION |
|-------|---------------------------------|
| 33 | 5%, 1% |
| 34 | 5%, 2% |
| 35 | 5%, 4% |
| 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. OCCPNKY_STAT_CODE_TYPE

These are the valid values for the <OCCPNKY_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_OCCPNKY_STAT_CODE_TYPE

These are the valid values for the <MST_RCNT_OCCPNKY_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_TYP_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 |
| 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) |

| VALUE | CODE DESCRIPTION |
|-------|--------------------------------------|
| 14 | Reserved |
| 15 | Case-Shiller/other index application |
| 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” or “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”. |

| VALUE | CODE DESCRIPTION |
|-------|--|
| 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 |
| 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 |

| VALUE | CODE DESCRIPTION |
|-------|------------------|
| 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 |

| VALUE | CODE DESCRIPTION |
|-------|-------------------------|
| 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 |

| VALUE | CODE DESCRIPTION |
|-------|------------------|
| 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 | 11 TH DISTRICT COFI (MONTHLY) |
| 8 | 11 TH 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) |

| VALUE | CODE DESCRIPTION |
|-------|---|
| 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) OF THE MONTH |
| 37 | WSJ 1 MONTH LIBOR FIRST DAY OF THE MONTH |
| 38 | WSJ 1 MONTH LIBOR(on or after 25 th) |
| 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-15 th day |
| 46 | WSJ 6 MONTH LIBOR/Pub on 25 th (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 |

| VALUE | CODE DESCRIPTION |
|-------|------------------|
| 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 |

| VALUE | CODE DESCRIPTION |
|-------|--------------------------------|
| 5 | Contestation delay |
| 6 | Court/procedural delay |
| 7 | Loss mitigation/servicer delay |
| 8 | Statutory moratorium |
| 9 | Disaster relief/other |
| 10 | Relief Act |
| 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. |

| VALUE | CODE DESCRIPTION |
|-------|---|
| 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. |
| 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. |

| VALUE | CODE DESCRIPTION |
|-------|------------------|
| 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 |

| VALUE | CODE DESCRIPTION |
|-------|------------------|
| 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 Asset Data Files in an XML-format:

- The filename must end with an “.xml” extension.
- The file cannot be compressed in any fashion.
- 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. 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.
- 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.
- 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>
```

- 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. Special Instructions for EX-102 Asset Data XML Files

In order for the EX-102 files to be rendered and downloadable from sec.gov, please ensure the following:

- The file name of EX-102 files must be “exh_102.xml” only.
- The document type must be “EX-102” only.

Extensions to the file name and document types will cause issues in rendering and downloading the EX-102 documents from sec.gov. The following are examples of file names and document types that should not be used:

- File Name: exh_102-1.xml, exh_102-cmbs.xml, exh_102-autoloan.xml
- Document Type: EX-102.1, EX-102.cmbs, EX-102.autoloan

Allowing for extensions in the EX-102 document type and/or file name will be available in a future EDGAR release.

5.3. Formatting of ABS Asset Data XML Files

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

- 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.
- The following applies to EX-102 XML files only. EX-103 XML files do not need the beginning tag for asset data. 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">
```

- The XML elements cannot have any namespaces.

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

5.4. 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.

5.5. Unique Constraints for Repeatable Code Elements

The following applies to EX-102 XML files only. 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>
```

5.6. EDGAR Reserved Tags

EX-103 XML files can be constructed using any EX-102 tags or any user defined tags; except for the following EDGAR reserved tags:

- <acronym/>
- <applet/>
- <area/>
- <base/>
- <basefont/>
- <bdo/>
- <button/>
- <col/>
- <colgroup/>
-
- <fieldset/>
-
- <form/>
- <frame/>
- <frameset/>
- <iframe/>
- <input/>
- <ins/>
- <label/>
- <legend/>
- <map/>
- <meta http-equiv="name" content="content"/>
- <noframes/>
- <noscript/>
- <object/>
- <option/>
- <param/>
- <q/>
- <s/>
- <S/>
- <script/>
- <select/>
-
- <style/>
- <tbody/>
- <textarea/>
- <tfoot/>
- <thead/>

5.7. Comments and Narratives

For EX-103 files, you may use the following (or similar) tags for providing comments or narratives:

- <!-- xxcommentsxx -->
- <![CDATA[xxnarrativesxx]]>

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 & EX-103 XML Files

| Asset Data File Type | Sample File |
|----------------------|-------------------------------|
| ABS-AUTOLOAN | Sample_ABS_AutoLease.xml |
| ABS-AUTOLEASE | Sample_ABS_AutoLoan.xml |
| ABS-DS | Sample_ABS_DebtSecurities.xml |
| ABS-RMBS | Sample_ABS_RMBSAssetData.xml |
| ABS-CMBS | Sample_ABS_CMBS.xml |
| ABS-EX103 | Sample_ABS_EX103.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 |