Enterprises' Disclosure Technical Specification

for UMBS & all Single Class Securities

Version 1.1 - November 2016

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For each disclosure file, we provide the following information:

File Attributes	
Column Name	Description
ID	The identifier for the data attribute.
Attribute Name	The business name for the data attribute.
Attribute Definition	The business definition for the data attribute.
Enumerations	If applicable, the allowable values for the data attribute.
Data Type	The classification for the data - numeric, string or date.
Format	The presentation of the data type.
Max Length	The maximum number of characters for the data attribute.
Implementation Notes	Additional information related to the data attribute for further clarification of assistance in processing the data.

File	Description	Issuance Timing	Monthly Timing
Loan Level File [1]	The file containing loan level data attributes for the mortgage backed securities.	Business Day Intra-day processing: 6:30 am 11:30 am 3:30 pm	Business Day 4 4:30 pm
Security Level File [1]	The file containing factor and weighted averages for the mortgage-backed security and single-class resecuritizations.		
Security Supplemental File [1]	The file containing quartiles and the stratifications for the mortgage-backed security and single-class resecuritizations.		
Month-end Issuance Loan Level File	The file containing the cumulative loan level data attributes for all the loans in mortgage-backed securities that were issued in the prior month.	Not applicable	Business Day 1 6:30 am
Month-end Issuance Security Level File	The file containing the cumulative security-level data including factor and weighted averages for all the mortgage-backed securities and single-class resecuritizations that were issued the prior month.		
Month-end Security Supplemental Issuance File	The file containing the cumulative quartiles and the stratifications for all the mortgage-backed securities and single-class resecuritizations that were issued the prior month.		
Security Issuance Correction File	The file containing corrected factor and weighted averages for a mortgage-backed security and single-class resecuritization where a correction was required after the month of issuance but still during the offering period of the security.	Not applicable	Every business day, if applicable
Security Issuance Supplemental Correction File	The file containing corrected quartiles and the stratifications for a mortgage-backed security and single-class resecuritization where a correction was required after the month of issuance but still during the offering period of the security.		

[1] - Freddie Mac will publish a second set of files for Adjustable-rate mortgages (ARM), Modified, Reinstated, Multifamily and 75-Day payment delay Fixed-rate PC securities.

ID	Attribute Name	Attribute Definition	Enumerations	Data Type	Format	Max Length	Implementation Notes
L-001	Loan Identifier	The unique designation assigned to the loan by the issuer.		String		12	
L-002	Loan Correction Indicator	The indicator denoting whether any attributes for the loan have changed from previous disclosures.	Y = Yes N = No A = Added D = Deleted	String		1	
L-003	Prefix	The designation assigned by the issuer denoting the type of the loans and the security.		String		3	
L-004	Security Identifier	The unique designation assigned to the security by the issuer.		String		6	
L-005	CUSIP	The unique designation assigned to the security by the Committee on Uniform Securities Identification Procedures (CUSIP).		String		9	
L-006	Mortgage Loan Amount	The dollar amount of the loan as stated on the note at the time the loan was originated or modified. *For reperforming, modified fixed-rate and modified step-rate loans, this value represents both the interest bearing and non-interest bearing amount.*		Numeric	9.2	12	Privacy Masking: Rounded to nearest thousand if > $500
L-007	Issuance Investor Loan UPB	The unpaid principal balance of the loan as it contributes to the balance of the security at the time the security was issued.		Numeric	9.2	12	Privacy Masking: If loan age of <= 6 months, rounded to nearest thousand if > $500
L-008	Current Investor Loan UPB	The unpaid principal balance of the loan as it contributes to the current balance of the security.		Numeric	9.2	12	Privacy Masking: If loan age of <= 6 months, rounded to nearest thousand if > $500
L-009	Amortization Type	The classification of the loan as having either a fixed- or an adjustable-interest rate.	FRM = Fixed-Rate ARM = Adjustable-Rate	String		3	
L-010	Original Interest Rate	The interest rate of the loan as stated on the note at the time the loan was originated or modified.		Numeric	2.3	6	
L-011	Issuance Interest Rate	The interest rate of the loan in effect at the time the security was issued.		Numeric	2.3	6	
L-012	Current Interest Rate	The interest rate of the loan in effect during the current reporting period.		Numeric	2.3	6	
L-013	Issuance Net Interest Rate	The interest rate of the loan at the time the security was issued less servicing fees and guarantor fees.		Numeric	2.3	6	
L-014	Current Net Interest Rate	The interest rate of the loan in effect during the current reporting period less servicing fees and guarantor fees.		Numeric	2.3	6	
L-015	First Payment Date	The month and year that the first scheduled payment on the loan is due.		Date	MMCCYY	6	
L-016	Maturity Date	The month and year that the final scheduled payment on the loan is due.		Date	MMCCYY	6	
L-017	Loan Term	The number of months in which regularly scheduled borrower payments are due.		Numeric		3	
L-018	Remaining Months to Maturity	The number of scheduled monthly payments that will reduce the Current Investor Loan UPB to zero. *For fixed-rate loans, this value takes into account the impact of any curtailments.*		Numeric		3	

ID	Attribute Name	Attribute Definition	Enumerations	Data Type	Format	Max Length	Implementation Notes
L-019	Loan Age	The number of scheduled payments from the time the loan was originated or modified up to and including the current reporting period.		Numeric		3	
L-020	Loan-To-Value (LTV)	The ratio, expressed as a percentage, obtained by dividing the amount of the loan at origination by the value of the property. *Property value reflects either the lesser of the sales price or the appraised property value for a purchase, or the appraised property value for a refinance.* *For reperforming, modified fixed-rate and modified step-rate loans, this value will be blank.*	999 = Not Available	Numeric		3	
L-021	Combined Loan-To-Value (CLTV)	The ratio, expressed as a percentage, obtained by dividing the amount of all known outstanding loans at origination by the value of the property. *Property value reflects either the lesser of the sales price or the appraised property value for a purchase, or the appraised property value for a refinance.* *For reperforming, modified fixed-rate and modified step-rate loans, this value will be blank.*	999 = Not Available	Numeric		3	
L-022	Debt-To-Income (DTI)	The ratio obtained by dividing the total monthly debt expense by the total monthly income of the borrower at the time the loan was originated or modified.	999 = Not Available	Numeric		3	
L-023	Borrower Credit Score	The standardized credit score used to evaluate the borrower during the loan origination process. *For reperforming, modified fixed-rate and modified step-rate loans, this value will be blank.*	9999 = Not Available	Numeric		4	
L-024	Filler						
L-025	Filler						
L-026	Filler						
L-027	Number of Borrowers	The number of borrowers who, at the time the loan was originated, are obligated to repay the loan.	1 = 1 2 = 2 3 = 3 4 = 4 5 = 5 6 = 6 7 = 7 8 = 8 9 = 9 10 = 10 99 = Not Available	Numeric		2	

ID	Attribute Name	Attribute Definition	Enumerations	Data Type	Format	Max Length	Implementation Notes
L-028	First Time Home Buyer Indicator	The indicator denoting whether a borrower on the loan qualifies as a first-time homebuyer.	Y = Yes N = No 9 = Not Available	String		1	
L-029	Loan Purpose	The classification describing the purpose of the loan.	C = Refinance - Cash Out N = Refinance - No Cash Out R = Refinance - Not Specified P = Purchase M = Modified - Loss Mitigation 9 = Not Available	String		1	
L-030	Occupancy Status	The classification describing the property occupancy status at the time the loan was originated. *For reperforming, modified fixed-rate and modified step-rate loans, this value will be blank.*	P = Primary Residence S = Second Home I= Investment Property 9 = Not Available	String		1	
L-031	Number of Units	The number of dwelling units in the mortgaged property at the time the loan was originated.	1 = 1 2 = 2 3 = 3 4 = 4 99 = Not Available	Numeric		2	
L-032	Property Type	The classification describing the type of property that secures the loan.	CP = Cooperative CO = Condominium PU = Planned Unit Development SF = Single-Family MH = Manufactured Housing 99 = Not Available	String		2	
L-033	Channel	The origination channel used by the party that delivered the loan to the issuer. *For reperforming, modified fixed-rate and modified step-rate loans, this value will be blank.*	R = Retail B = Broker C = Correspondent T = Third Party Origination - Not Specified 9 = Not Available	String		1	
L-034	Property State	The abbreviation denoting the location of the property securing the loan.	See Appendix A	String		2	
L-035	Seller Name	The name of the entity that sold the loan to the issuer.		String		100	Will not be updated after issuance, regardless of mergers/acquisitions.
L-036	Servicer Name	The name of the entity that services the loan during the current reporting period.		String		100	
L-037	Mortgage Insurance Percent	The percentage of mortgage insurance coverage obtained at origination in effect at the time the security was issued.	000= No MI 999= Not Available	String		3	
L-038	Mortgage Insurance Cancellation Indicator	The indicator denoting whether the mortgage insurance has been cancelled after the security was issued.	Y = Yes N = No 7 = Not Applicable	String		1	
L-039	Government Insured Guarantee	The classification describing the Government Insured/Guarantee Program, if any, covering the loan.	FH = FHA VA = Veterans Affair RH = Rural Housing IH = Section 184 Indian Home 99 = Not Available	String		2	Applicable only to Government Insured/Guarantee loans.

ID	Attribute Name	Attribute Definition	Enumerations	Data Type	Format	Max Length	Implementation Notes
L-040	Assumability Indicator	The indicator denoting whether the loan is assumable by another borrower.	Y = Yes N = No	String		1	
L-041	Interest Only Loan Indicator	The indicator denoting whether the loan only requires interest payments for a specified period of time beginning with the first payment date.	Y = Yes N = No	String		1	
L-042	Interest Only First Principal and Interest Payment Date	For interest-only loans, the month and year that the first monthly scheduled fully amortizing principal and interest payment is due.		Date	MMCCYY	6	
L-043	Months to Amortization	For interest-only loans, the number of months from the current month to the first scheduled principal and interest payment date.		Numeric		3	
L-044	Prepayment Penalty Indicator	The indicator denoting whether the borrower is subject to a penalty for early payment of principal.	Y = Yes N = No	String		1	
L-045	Prepayment Penalty Total Term	The total number of months that the prepayment penalty may be in effect.	06 = 6 Months 12 = 1 Year 24 = 2 Years 36 = 3 Years 99 = Not Available	String		2	Applicable only if Prepayment Penalty Indicator = Y
L-046	Index	For adjustable-rate loans, the description of the index on which adjustments to the interest rate are based.	See Appendix A	String		3	
L-047	Mortgage Margin	For adjustable-rate loans, the number of percentage points to be added to the index to arrive at the new interest rate.		Numeric	2.3	6	
L-048	MBS PC Margin	For adjustable-rate loans, the mortgage margin less servicing fees and guarantor fees.		Numeric	2.3	6	
L-049	Interest Rate Adjustment Frequency	For adjustable-rate loans, the number of months, excluding any fixed-rate period, between scheduled rate changes.		Numeric		3	
L-050	Interest Rate Lookback	For adjustable-rate loans, the number of calendar days prior to the rate change date used to determine the effective index value required to calculate the next interest rate.		Numeric		3	
L-051	Interest Rate Rounding Method	For adjustable-rate loans, the designation of how the interest rate is rounded when a new interest rate is calculated.	DN = Down NE = Nearest UP = Up NO = No Rounding	String		2	
L-052	Interest Rate Rounding Method Percent	For adjustable-rate loans, the percentage to which the interest rate is rounded when a new interest rate is calculated.	01 = 0.25 02 = 0.125 03 = .01	String		2	
L-053	Convertibility Indicator	The indicator denoting whether the loan has a feature that allows the borrower to convert from an adjustable rate to a fixed rate.	Y = Yes N = No	String		1	

ID	Attribute Name	Attribute Definition	Enumerations	Data Type	Format	Max Length	Implementation Notes
L-054	Initial Fixed Rate Period	For adjustable-rate loans, the number of calendar months between the first full month the loan accrues interest and the first interest rate adjustment date.	00 = <=6 Months 01 = 7-18 Months 02 = 19-30 Months 03 = 31-42 Months 04 = 43-54 Months 05 = 55-66 Months 06 = 67-78 Months 07 = 79-90 Months 08 = 91-102 Months 09 = 103-114 Months 10 = 115-126 Months 11 = 127-138 Months 12 = 139-150 Months 13 = 151-162 Months 14 = 163-174 Months 15 = 175-186 Months 16 = >186 Months	String		2	
L-055	Next Interest Rate Adjustment Date	For adjustable-rate loans, the month and year that the interest rate is next subject to change.		Date	MMCCYY	6	
L-056	Months to Next Interest Rate Adjustment Date	For adjustable-rate loans, the number of months from the current month to the next interest rate change date.		Numeric		3	
L-057	Life Ceiling Interest Rate	For adjustable-rate loans, the lifetime maximum interest rate.	77.777 - Not Applicable	Numeric	2.3	6	
L-058	Life Ceiling Net Interest Rate	For adjustable-rate loans, the maximum interest rate less servicing fees and guarantor fees.	77.777 - Not Applicable	Numeric	2.3	6	
L-059	Life Floor Interest Rate	For adjustable-rate loans, the lifetime minimum interest rate.	77.777 - Not Applicable	Numeric	2.3	6	
L-060	Life Floor Net Interest Rate	For adjustable-rate loans, the minimum interest rate less servicing fees and guarantor fees.	77.777 - Not Applicable	Numeric	2.3	6	
L-061	Initial Interest Rate Cap Up Percent	For adjustable-rate loans, the maximum percentage points the interest rate can adjust upward at the first interest rate adjustment date.	77.777 - Not Applicable	Numeric	2.3	6	
L-062	Initial Interest Rate Cap Down Percent	For adjustable-rate loans, the maximum number of percentage points the interest rate can adjust downward at the first interest rate change date.	77.777 - Not Applicable	Numeric	2.3	6	
L-063	Periodic Interest Rate Cap Up Percent	For adjustable-rate loans, the maximum percentage points the interest rate can adjust upward at each interest rate adjustment date after the first interest rate adjustment date.	77.777 - Not Applicable	Numeric	2.3	6	
L-064	Periodic Interest Rate Cap Down Percent	For adjustable-rate loans, the maximum percentage points the interest rate can adjust downward at each interest rate adjustment date after the first interest rate adjustment date.	77.777 - Not Applicable	Numeric	2.3	6	

ID	Attribute Name	Attribute Definition	Enumerations	Data Type	Format	Max Length	Implementation Notes
L-065		For reperforming, modified fixed-rate and modified step-rate loans, the program under which the loan was modified.	A = Alternative C = Classic B = HAMP Backup H = HAMP O = Other R = Regular S = Standard T = Streamlined U = Underwater 9 = Not Available	String		1	
L-066	Modification Type	For reperforming, modified fixed-rate and modified step-rate loans, the classification describing the type of modification.	R = Rate T = Term B = Rate & Term C = Capitalization F = Rate, Term & Forbearance O = Other	String		1	
L-067	Number of Modifications	For reperforming, modified fixed-rate and modified step-rate loans, the number of times the loan has been modified, at the time security was issued.		Numeric		3	
L-068	Total Capitalized Amount	For reperforming, modified fixed-rate and modified step-rate loans, the amount of interest and non-interest arrearages added to the principal balance as of the most recent modification.		Numeric	9.2	12	
L-069	Interest Bearing Mortgage Loan Amount	For reperforming, modified fixed-rate and modified step-rate loans, the interest bearing unpaid principal balance at the time of modification.		Numeric	9.2	12	Privacy Masking: Rounded to nearest thousand if > $500
L-070	Original Deferred Amount	For reperforming, modified fixed-rate and modified step-rate loans, the non-interest bearing unpaid principal balance at the time of modification. *The deferred amount is not included in the unpaid principal balance of the security and is not payable to the certificate holder.*		Numeric	9.2	12	Privacy Masking: Rounded to nearest thousand if > $500
L-071	Current Deferred UPB	For reperforming, modified fixed-rate and modified step-rate loans, the current non-interest bearing unpaid principal balance. *The deferred amount is not included in the unpaid principal balance of the security and is not payable to the certificate holder.*		Numeric	9.2	12	Privacy Masking: Rounded to nearest thousand if > $500
L-072	Loan Age As Of Modification	For reperforming, modified fixed-rate and modified step-rate loans, the number of scheduled payments from the time the loan was originated up to and including the current reporting period.		Numeric		3	

ID	Attribute Name	Attribute Definition	Enumerations	Data Type	Format	Max Length	Implementation Notes
L-073	Estimated Loan-To-Value (ELTV)	For reinstated, reperforming, modified fixed-rate and modified step-rate loans, the ratio obtained by dividing the outstanding balance of the mortgage loan by the estimated current value of the property obtained by the issuer, at the time of issuance.	999 = Not Available	Numeric		3	
L-074	Updated Credit Score	For reinstated, reperforming, modified fixed-rate and modified step-rate loans, the most recently available standardized credit score provided at the time of issuance.	9999 = Not Available	Numeric		4	
L-075	Filler						
L-076	Interest Rate Step Indicator	The indicator denoting whether the modification includes a step rate.	Y = Yes N = No	String		1	
L-077	Initial Step Fixed-Rate Period	For reperforming, modified step-rate loans, the number of months between the first payment date of the modified loan and the first step rate adjustment date.	00 = <=6 Months 01 = 7-18 Months 02 = 19-30 Months 03 = 31-42 Months 04 = 43-54 Months 05 = 55-66 Months 06 = 67-78 Months 07 = 79-90 Months 08 = 91-102 Months 09 = 103-114 Months 10 = 115-126 Months 11 = 127-138 Months 12 = 139-150 Months 13 = 151-162 Months 14 = 163-174 Months 15 = 175-186 Months 16 = >186 Months	String		2	
L-078	Total Number of Steps	For reperforming, modified step-rate loans, the number of upward interest rate adjustments per the modification agreement.		Numeric		2	
L-079	Number of Remaining Steps	For reperforming, modified step-rate loans, the number of upward interest rate adjustments remaining.		Numeric		2	
L-080	Next Step Rate	For reperforming, modified step-rate loans, the scheduled interest rate in effect at the next step-rate date.		Numeric	2.3	6	
L-081	Terminal Step Rate	For reperforming, modified step-rate loans, the maximum interest rate in effect following the final scheduled interest rate adjustment date. *Once the interest rate reaches the Terminal Step Rate, it is fixed for the remaining term of the mortgage.*		Numeric	2.3	6	
L-082	Terminal Step Date	For reperforming, modified step-rate loans, the final scheduled date on which the mortgage interest rate is scheduled to increase to its terminal step rate.		Date	MMCCYY	6	
L-083	Step Rate Adjustment Frequency	For reperforming, modified step-rate loans, the number of months between each interest rate adjustment.		Numeric		3	

ID	Attribute Name	Attribute Definition	Enumerations	Data Type	Format	Max Length	Implementation Notes
L-084	Next Step Rate Adjustment Date	For reperforming, modified step-rate loans, the month and year that the interest rate is scheduled to increase.		Date	MMCCYY	6	
L-085	Months to Next Step Rate Adjustment Date	For reperforming, modified step-rate loans, the number of months from the current month to the next date on which the mortgage interest rate increases.		Numeric		3	
L-086	Periodic Step Cap Up Percent	For reperforming, modified step-rate loans, the maximum percentage points the interest rate may increase at each step rate adjustment date.		Numeric	2.3	6	
L-087	Origination Mortgage Loan Amount	For reperforming, modified fixed-rate and modified step-rate loans, the dollar amount of the loan in the security as stated on the note at the time the loans were originated or modified.		Numeric	9.2	12	Privacy Masking: Rounded to nearest thousand if > $500
L-088	Origination Interest Rate	For reperforming, modified fixed-rate and modified step-rate loans, the interest rate of the loan as stated on the note at the time the loan was originated.		Numeric	2.3	6	
L-089	Origination Amortization Type	For reperforming, modified fixed-rate and modified step-rate loans, the classification of the loan as having either a fixed- or an adjustable-interest rate as stated on the note at the time the loan was originated.	FRM = Fixed-Rate ARM = Adjustable-Rate	String		3	
L-090	Origination Interest Only Loan Indicator	For reperforming, modified fixed-rate and modified step-rate loans, the indicator denoting whether the loan only required interest payments for a specified period of time beginning with the first payment date as stated on the note at the time the loan was originated.	Y = Yes N = No	String		1	
L-091	Origination First Payment Date	For reperforming, modified fixed-rate and modified step-rate loans, the month and year that the first scheduled payment on the loan was due as stated on the note at the time the loan was originated.		Date	MMCCYY	6	
L-092	Origination Maturity Date	For reperforming, modified fixed-rate and modified step-rate loans, the month and year in which the final payment on the loan was scheduled to be made at the time the loan was		Date	MMCCYY	6	
L-093	Origination Loan Term	For reperforming, modified fixed-rate and modified step-rate loans, the number of months in which regularly scheduled borrower payments are due as stated on the note at the time the loan was originated.		Numeric		3	
L-094	Origination Loan-To-Value (LTV)	For reperforming, modified fixed-rate and modified step-rate loans, the ratio, expressed as a percentage, obtained by dividing the amount of the loan at origination by the value of the property. *Property value reflects either the lesser of the sales price or the appraised property value for a purchase, or the appraised property value for a refinance.*	999 = Not Available	Numeric		3	

ID	Attribute Name	Attribute Definition	Enumerations	Data Type	Format	Max Length	Implementation Notes
L-095	Origination Combined Loan-To-Value (CLTV)	For reperforming, modified fixed-rate and modified step-rate loans, the ratio, expressed as a percentage, obtained by dividing the amount of all known outstanding loans at origination by the value of the property. *Property value reflects either the lesser of the sales price or the appraised property value for a purchase, or the appraised property value for a refinance.*	999 = Not Available	Numeric		3	
L-096	Origination Debt-To-Income Ratio	For reperforming, modified fixed-rate and modified step-rate loans, the ratio obtained by dividing the total monthly debt expense by the total monthly income of the borrower at the time the loan was originated.	999 = Not Available	Numeric		3	
L-097	Origination Credit Score	For reperforming, modified fixed-rate and modified step-rate loans, the standardized credit score used to evaluate the borrower during the loan origination process.	9999 = Not Available	Numeric		4	
L-098	Filler						
L-099	Filler						
L-100	Filler						
L-101	Origination Loan Purpose	For reperforming, modified fixed-rate and modified step-rate loans, the classification of the loan as either a purchase money mortgage or a refinance mortgage at the time the loan was originated.	C = Refinance - Cash Out N = Refinance - No Cash Out R = Refinance - Not Specified P = Purchase 9 = Not Available	String		1	
L-102	Origination Occupancy Status	For reperforming, modified fixed-rate and modified step-rate loans, the classification describing the property occupancy status at the time the loan was originated.	P= Primary Residence S= Second Home I= Investment Property 9= Not Available	String		1	
L-103	Origination Channel	For reperforming, modified fixed-rate and modified step-rate loans, the origination channel used by the party that delivered the loan to the issuer.	R = Retail B = Broker C = Correspondent T = Third Party Origination - Not Specified 9 = Not Available	String		1	
L-104	Days Delinquent	For reperforming, modified and modified step-rate loans, the number of days for which a mortgage loan has been reported delinquent.	0 = Current 1 = 30-59 2 = 60-89 3 = 90-119 4 = 120+	Numeric		1	Applicable only for Fannie Mae issued securities for monthly disclosure.
L-105	Loan Performance History	For reperforming, modified and modified step-rate loans, the coded string of values that describes the previous payment performance of the loan at the time of issuance. *This string will contain 36 months of history for reperforming modified and modified step rate loans and 12 months for reinstated loans.*		String		150	Applicable only for Fannie Mae issued securities for at Issuance disclosure. The most recently reported activity is located in the last two spaces of the string.

ID	Attribute Name	Attribute Definition	Enumerations	Data Type	Format	Max Length	Implementation Notes
S-01	Prefix	The designation assigned by the issuer denoting the type of the loans and the security.		String		3	
S-02	Security Identifier	The unique designation assigned to the security by the issuer.		String		6	
S-03	CUSIP	The unique designation assigned to the security by the Committee on Uniform Securities Identification Procedures (CUSIP).		String		9	
S-04	Security Factor Date	The month and year on which the corresponding factor is effective.		Date	MMCCYY	6	
S-05	Security Factor	The decimal value that, when multiplied by the Issuance Investor Security UPB amount, equals the Current Investor Security UPB amount.		Numeric	1.8	10	
S-06	Payment Delay Days	The indicator denoting whether the loans in the security participate in a 45 Day, 55 Day, or a 75 Day payment delay period at the time the security was issued.	45 = 45 Days 55 = 55 Days 75 = 75 Days	Numeric		2	
S-07	Security Data Correction Indicator	The indicator denoting the data correction status of the security based on the current reporting period.	Y = Yes N = No	String		1	Applicable Only for At Issuance Disclosure
S-08	Security Status Indicator	The indicator denoting the status of the security based on the current reporting period.	A = Active P = Paid Off C = Collapsed D = Dissolved	String		1	
S-09	Security Notification Indicator	The indicator denoting whether the disclosure is preliminary and subject to change or final.	P = Preliminary F = Final 7 = Not Applicable	String		1	Applicable Only for At Issuance Disclosure
S-10	Security Description	The unique designation of the security including abbreviated FED CODE , WA Net Interest Rate, Prefix and Security Identifier.		String		22	
S-11	Issuer	The name of the entity that issued the security.	FNM = Fannie Mae FRE = Freddie Mac	String		3	
S-12	Issue Date	The date on which the security was issued.		Date	MMDDCCYY	8	
S-13	Maturity Date	The month and year in which the final payment on the security is scheduled to be made at the time the security was issued.		Date	MMCCYY	6	
S-14	Updated Longest Maturity Date	The updated month and year in which the final payment on the security is scheduled to be made based on the longest maturity date of the remaining loans in the security.		Date	MMCCYY	6	
S-15	Issuance Investor Security UPB	The aggregate unpaid principal balance of the loans as they contribute to the balance of the security at the time the security was issued.		Numeric	14.2	17	
S-16	Current Investor Security UPB	The aggregate unpaid principal balance of the loans as they contribute to the current balance of the security.		Numeric	14.2	17	
S-17	WA Net Interest Rate	The weighted average interest rate of the loans at the time the security was issued less servicing fees and guarantor fees.		Numeric	2.3	6	
S-18	WA Issuance Interest Rate	The weighted average interest rate of the loans in effect at the time the security was issued.		Numeric	2.3	6	
S-19	WA Current Interest Rate	The weighted average interest rate of the loans in effect during the current reporting period.		Numeric	2.3	6	
S-20	WA Net Accrual Interest Rate	For adjustable-rate loans, the weighted average Net Interest Rate less servicing fees and guarantor fees.		Numeric	2.3	6	Applicable only for Fannie Mae issued securities

ID	Attribute Name	Attribute Definition	Enumerations	Data Type	Format	Max Length	Implementation Notes
S-21	WA Loan Term	The weighted average number of months in which regularly scheduled borrower payments are due.		Numeric		3	
S-22	WA Issuance Remaining Months to Maturity	The weighted average number of scheduled monthly payments that will reduce the Investor Loan UPB to zero, at the time the security was issued. *For fixed-rate loans, this value takes into account the impact of any curtailments.*		Numeric		3	
S-23	WA Current Remaining Months to Maturity	The weighted average number of scheduled monthly payments that will reduce the Current Investor Loan UPB to zero. *For fixed-rate loans, this value takes into account the impact of any curtailments.*		Numeric		3	
S-24	WA Loan Age	The weighted average number of scheduled payments from the time the loans were originated or modified up to and including the current reporting period.		Numeric		3	
S-25	WA Mortgage Loan Amount	The weighted average dollar amount of the loans as stated on the notes at the time the loans were originated or modified. *For reperforming, modified fixed-rate and modified step-rate loans, this value represents both the interest bearing and non-interest bearing amount.*		Numeric	9.2	12	
S-26	Average Mortgage Loan Amount	The simple average dollar amount of the loans as stated on the notes at the time the loans were originated or modified. *For reperforming, modified fixed-rate and modified step-rate loans, this value represents both the interest bearing and non-interest bearing amount.*		Numeric	9.2	12	
S-27	WA Loan-To-Value (LTV)	The weighted average ratio, expressed as a percentage, obtained by dividing the amount of the loans at origination by the value of the properties. *Property value reflects either the lesser of the sales price or the appraised property value for a purchase, or the appraised property value for a refinance.* *For reperforming, modified fixed-rate and modified step-rate loans, this value will be blank.*		Numeric		3	

ID	Attribute Name	Attribute Definition	Enumerations	Data Type	Format	Max Length	Implementation Notes
S-28	WA Combined Loan-To-Value (CLTV)	The weighted average ratio, expressed as a percentage, obtained by dividing the amount of all known outstanding loans at origination by the value of the properties. *Property value reflects either the lesser of the sales price or the appraised property value for a purchase, or the appraised property value for a refinance.* *For reperforming, modified fixed-rate and modified step-rate loans, this value will be blank.*		Numeric		3	
S-29	WA Debt-To-Income (DTI)	The weighted average ratio obtained by dividing the total monthly debt expenses by the total monthly incomes of the borrowers at the time the loans were originated or modified.		Numeric		3	
S-30	WA Borrower Credit Score	The weighted average standardized credit score used to evaluate the borrower during the loan origination process. *For reperforming, modified fixed-rate and modified step-rate loans, this value will be blank.*		Numeric		4	
S-31	Filler						
S-32	Filler						
S-33	Loan Count	The total number of loans in the security.		Numeric		9	
S-34	Third Party Origination UPB Percent	The percentage of the aggregate Investor Loan UPB that were originated by a third party, to include Broker and Correspondent originations. *For reperforming, modified fixed-rate and modified step-rate loans, this value will be blank.*		Numeric	3.2	6	
S-35	Seller Name	The name of the entity that sold the loans to the issuer.		String		100	For Multi-lender/Majors, this field will reflect MULTIPLE For Giants/Megas, this field will reflect the value of SCR (Single-Class Resecuritization) Will not be updated after issuance, regardless of mergers/acquisitions.
S-36	Seller City	The city of the address of the entity that sold the loans to the issuer.		String		50	For Multi-lender/Majors/Giants/Megas the field will be blank.
S-37	Seller State	The state or territory of the address of the entity that sold the loans to the issuer.		String		2	For Multi-lender/Majors/Giants/Megas the field will be blank.
S-38	Servicer Name	The name of the entity that services the loan during the current reporting period.		String		100	For Multi-lender/Majors, this field will reflect MULTIPLE For Giants/Megas, this field will reflect the value of SCR (Single-Class Resecuritization)
S-39	Servicer City	The city of the address of the entity that services the loan.		String		50	For Multi-lender/Majors/Giants/Megas the field will be blank.

ID	Attribute Name	Attribute Definition	Enumerations	Data Type	Format	Max Length	Implementation Notes
S-40	Servicer State	The state or territory of the address of the entity that services the loan.		String		2	For Multi-lender/Majors/Giants/Megas the field will be blank.
S-41	Delinquent Loans Purchased (Prior Month UPB)	The aggregate prior period Investor Loan UPB of the loans that were purchased from the security due to delinquency status during the current reporting period.		Numeric	14.2	17	Applicable only for Monthly Disclosure
S-42	Delinquent Loans Purchased (Loan Count)	The number of loans that were purchased from the security due to delinquency status during the current reporting period.		Numeric		9	Applicable only for Monthly Disclosure
S-43	Eligible for Resecuritization	The indicator denoting whether the security is eligible for resecuritization.	Y = Yes N = No	String		1	
S-44	Notes	Additional information about the loans in the security.		String		2048	
S-45	Notes Ongoing	Additional information about the loans in the security.		String		2048	Applicable only for Monthly Disclosure
S-46	Interest Only Security Indicator	The indicator denoting whether the loans only require interest payments for a specified period of time beginning with the first payment date.	Y = Yes N = No	String		1	
S-47	WA Months to Amortization	For interest-only loans, the weighted average number of months from the current month to the first scheduled principal and interest payment date.		Numeric		3	
S-48	Prepayment Penalty Indicator	The indicator denoting whether the security is subject to a penalty for early payment of principal.	Y = Yes N = No 9 = Not Available	String		1	
S-49	Reduced Minimum Servicing Indicator	The indicator denoting whether the loans in the security may have a reduced servicing fee.	Y = Yes N = No 9 = Not Available	String		1	
S-50	Subtype	For an adjustable-rate mortgage, the code that identifies ARM product characteristics and features.		String		20	Applicable only for Fannie Mae issued securities
S-51	Index	For adjustable-rate loans, the description of the index on which adjustments to the interest rate are based.	See Appendix A	String		3	
S-52	WA Mortgage Margin	For adjustable-rate loans, the weighted average number of percentage points to be added to the index to arrive at the new interest rate.		Numeric	2.3	6	
S-53	WA MBS PC Margin	For adjustable-rate loans, the weighted average mortgage margin less servicing fees and guarantor fees.		Numeric	2.3	6	
S-54	Interest Rate Adjustment Frequency	For adjustable-rate loans, the number of months, excluding any fixed-rate period, between scheduled rate changes.	555 = Mixed	Numeric		3	
S-55	Interest Rate Lookback	For adjustable-rate loans, the number of calendar days prior to the interest rate adjustment date used to determine the effective index value required to calculate the next interest rate.	555 = Mixed	Numeric		3	
S-56	Payment Adjustment Frequency	For adjustable-rate loans, the number of months between scheduled payment changes. For a security with an initial fixed-rate period, the payment adjustment frequency is the number of months between subsequent payment changes.	555 = Mixed	Numeric		3	
S-57	Payment Lookback	For negative amortizing adjustable-rate loans, the number of days prior to an payment effective date used to determine value when calculating a principal and interest payment.		Numeric		3	
S-58	Convertibility Indicator	For adjustable-rate loans, the indicator denoting whether the loans in the security have a feature that allows the borrower to convert from an adjustable rate to a fixed rate.	Y = Yes N = No 9 = Not Available	String		1	

ID	Attribute Name	Attribute Definition	Enumerations	Data Type	Format	Max Length	Implementation Notes
S-59	Negative Amortization Indicator	For adjustable-rate loans, the indicator denoting whether the loans in the security allow negative amortization.	Y = Yes N = No 9 = Not Available	String		1	
S-60	Negative Amortization Factor	For negative amortizing adjustable-rate loans, the decimal value that, when multiplied by the Issuance Investor Security UPB amount, equals the Negative Amortization amount.		Numeric	1.8	10	
S-61	WA Negative Amortization Limit	For negative amortizing adjustable-rate loans, the weighted average Negative Amortization Limit of the loans in the security.	777.777 = Not Applicable	Numeric	3.3	7	
S-62	Initial Fixed Rate Period	For adjustable-rate loans, the number of calendar months between the first full month the loans accrue interest and the first interest rate adjustment date.	00 = <=6 Months 01 = 7-18 Months 02 = 19-30 Months 03 = 31-42 Months 04 = 43-54 Months 05 = 55-66 Months 06 = 67-78 Months 07 = 79-90 Months 08 = 91-102 Months 09 = 103-114 Months 10 = 115-126 Months 11 = 127-138 Months 12 = 139-150 Months 13 = 151-162 Months 14 = 163-174 Months 15 = 175-186 Months 16 = >186 Months 55 = Mixed	String		2	
S-63	First Rate Adjustment Date	For adjustable-rate loans, the earliest First Rate Adjustment Date of the loans in the security.		Date	MMCCYY	6	Applicable only for Fannie Mae issued securities
S-64	First Payment Adjustment Date	For adjustable-rate loans, the earliest First Payment Adjustment Date of the loans in the security.		Date	MMCCYY	6	Applicable only for Fannie Mae issued securities
S-65	WA Months to Next Rate Adjustment Date	For adjustable-rate loans, the weighted average number of months from the current month to the next interest rate adjustment date.		Numeric		3	
S-66	WA Life Interest Rate Ceiling	For adjustable-rate loans, the weighted average lifetime maximum interest rate.		Numeric	2.3	6	
S-67	WA Net Life Interest Rate Ceiling	For adjustable-rate loans, the weighted average maximum interest rate less servicing fees and guarantor fees.		Numeric	2.3	6	
S-68	WA Life Interest Rate Floor	For adjustable-rate loans, the weighted average lifetime minimum interest rate.		Numeric	2.3	6	
S-69	WA Net Life Interest Rate Floor	For adjustable-rate loans, the weighted average minimum interest rate less servicing fees and guarantor fees.		Numeric	2.3	6	
S-70	Initial Interest Rate Cap Up %	For adjustable-rate loans, the maximum percentage points the interest rate can adjust upward at the first interest rate adjustment date.	55.555 = Mixed	Numeric	2.3	6	
S-71	Initial Interest Rate Cap Down %	For adjustable-rate loans, the maximum percentage points the interest rate can adjust downward at the first interest rate adjustment date.	55.555 = Mixed	Numeric	2.3	6	

ID	Attribute Name	Attribute Definition	Enumerations	Data Type	Format	Max Length	Implementation Notes
S-72	Periodic Interest Rate Cap Up %	For adjustable-rate loans, the maximum percentage points the interest rate can adjust upward at each interest rate adjustment date after the first interest rate adjustment date.	55.555 = Mixed	Numeric	2.3	6	
S-73	Periodic Interest Rate Cap Down %	For adjustable-rate loans, the maximum percentage points the interest rate can adjust downward at each interest rate adjustment date after the first interest rate adjustment date.	55.555 = Mixed	Numeric	2.3	6	
S-74	Initial Step Fixed-Rate Period	For reperforming, modified step-rate loans, the number of months between the first payment date of the modified loan and the first step rate adjustment.	00 = <=6 Months 01 = 7-18 Months 02 = 19-30 Months 03 = 31-42 Months 04 = 43-54 Months 05 = 55-66 Months 06 = 67-78 Months 07 = 79-90 Months 08 = 91-102 Months 09 = 103-114 Months 10 = 115-126 Months 11 = 127-138 Months 12 = 139-150 Months 13 = 151-162 Months 14 = 163-174 Months 15 = 175-186 Months 16 = >186 Months 55 = Mixed	String		2	
S-75	Step Rate Adjustment Frequency	For reperforming, modified step-rate loans, the number of months between each interest rate adjustment.	555 = Mixed	Numeric		3	
S-76	Next Step Rate Adjustment Date	For reperforming, modified step-rate loans, the month and year that the interest rate is scheduled to increase.		Date	MMCCYY	6	
S-77	WA Months to Next Step Rate Adjustment	For reperforming, modified step-rate loans, the weighted average number of months from the current month to the next date on which the mortgage interest rate increases.		Numeric		3	
S-78	Periodic Step Rate Cap Up %	For reperforming, modified step-rate loans, the maximum percentage points the interest rate may increase at each step rate adjustment date.	55.555 = Mixed	Numeric	2.3	6	
S-79	WA Origination Mortgage Loan Amount	For reperforming, modified fixed-rate and modified step-rate loans, the weighted average dollar amount of the loans in the security as stated on the notes at the time the loans were originated.		Numeric	9.2	12	
S-80	Average Origination Mortgage Loan Amount	For reperforming, modified fixed-rate and modified step-rate loans, the simple average dollar amount of the loans in the security as stated on the notes at the time the loans were originated. *This value represents both the interest bearing and non-interest bearing amount.*		Numeric	9.2	12	
S-81	WA Origination Interest Rate	For reperforming, modified fixed-rate and modified step-rate loans, the weighted average interest rate of the loans as stated on the note at the time the loans were originated.		Numeric	2.3	6	

ID	Attribute Name	Attribute Definition	Enumerations	Data Type	Format	Max Length	Implementation Notes
S-82	WA Origination Loan Term	For reperforming, modified fixed-rate and modified step-rate loans, the weighted average number of months in which regularly scheduled borrower payments are due as stated on the note at the time the loans were originated.		Numeric		3	
S-83	WA Origination Loan-To-Value (LTV)	For reperforming, modified fixed-rate and modified step-rate loans, the weighted average ratio, expressed as a percentage, obtained by dividing the amount of the loans at origination by the values of the properties. *Property values reflect either the lesser of the sales price or the appraised property value for a purchase, or the appraised property value for a refinance.*		Numeric		3	
S-84	WA Origination Combined Loan-To-Value (CLTV)	For reperforming, modified fixed-rate and modified step-rate loans, the weighted average ratio, expressed as a percentage, obtained by dividing the amount of all known outstanding loans at origination by the value of the property. *Property values reflect either the lesser of the sales price or the appraised property value for a purchase, or the appraised property value for a refinance.*		Numeric		3	
S-85	WA Origination Debt-To-Income (DTI)	For reperforming, modified fixed-rate and modified step-rate loans, the weighted average ratio obtained by dividing the total monthly debt expense by the total monthly income of the borrower at the time the loan was originated.		Numeric		3	
S-86	WA Origination Credit Score	For reperforming, modified fixed-rate and modified step-rate loans, the weighted average standardized credit score used to evaluate the borrower during the loan origination process.		Numeric		4	
S-87	Filler						
S-88	Filler						
S-89	Origination Third Party Origination UPB Percent	For reperforming, modified fixed-rate and modified step rate loans, the percentage of the aggregate Investor Loan UPB that were originated by a third party, to include Broker and Correspondent originations.		Numeric	3.2	6	
S-90	WA Estimated Loan-To-Value (ELTV)	For reinstated, reperforming, modified fixed-rate and modified step-rate loans, the weighted average ratio obtained by dividing the outstanding balance of the mortgage loan by the estimated current value of the property obtained by the issuer, at the time of issuance.		Numeric		3	
S-91	WA Updated Credit Score	For reinstated, reperforming, modified fixed-rate and modified step-rate loans, the weighted average most recently available standardized credit score provided at the time of issuance.		Numeric		4	

Security Supplemental File Record Type Description			
Record Type #	Record Type Description	Record Type #	Record Type Description
1	Quartiles	22	Not Paying Principal in First Distribution Stratification
2	Next Interest Rate Adjustment Date	23	Origination Year Stratification
3	Loan-To-Value (LTV) Not Available Stratification	24	Origination Channel Stratification
4	Combined Loan-To-Value (CLTV) Not Available Stratification	25	Non-Standard Loan Type Stratification
5	Debt-To-Income (DTI) Not Available Stratification	26	Modification Program Stratification
6	Borrower Credit Score Not Available Stratification	27	Modification Type Stratification
7	Days Delinquent Stratification	28	Modification Information Stratification
8	Number of Borrowers Stratification	29	Number of Modifications Stratification
9	First Time Home Buyer Stratification	30	Deferred Unpaid Principal Balance Stratification
10	Loan Purpose Stratification	31	Estimated Loan-to-Value (ELTV) Not Available Stratification
11	Occupancy Status Stratification	32	Updated Credit Score Not Available Stratification
12	Number of Units Stratification	33	Number of Remaining Steps Stratification
13	Property Type Stratification	34	Number of Steps - At Modification Stratification
14	Channel Stratification	35	Next Step Rate Adjustment Date Stratification
15	Property State Stratification	36	Origination Loan-To-Value (LTV) Not Available Stratification
16	Seller Name Stratification	37	Origination Combined Loan-To-Value (CLTV) Not Available Stratification
17	Servicer Name Stratification	38	Origination Debt-To-Income (DTI) Not Available Stratification
18	Mortgage Insurance Coverage Stratification	39	Origination Borrower Credit Score Not Available Stratification
19	Mortgage Insurance Cancellation Indicator Stratification	40	Origination Loan Purpose Stratification
20	Government Insured/Guarantee Stratification	41	Origination Occupancy Status Stratification
21	Interest Only First Principal and Interest Payment Date Stratification	42	Borrower Payment History Stratification
		43	Collateral List

ID	Attribute Name	Attribute Definition	Enumerations	Data Type	Format	Max Length	Implementation Notes
SS-001	Record Type = 1	Quartiles		String		2	
SS-002	Prefix	The designation assigned by the issuer denoting the type of the loans and the security.		String		3	
SS-003	Security Identifier	The unique designation assigned to the security by the issuer.		String		6	
SS-004	CUSIP	The unique designation assigned to the security by the Committee on Uniform Securities Identification Procedures (CUSIP).		String		9	
SS-005	Quartile	Based on the Current Investor UPB for all of the active loans in a security, distributed across the following quartile data points: MIN, 25%, MED, 75%, MAX	MAX 75% MED 25% MIN	String		3	
SS-006	Mortgage Loan Amount	The dollar amount of the loan as stated on the note at the time the loan was originated or modified. *For reperforming, modified fixed-rate and modified step-rate loans, this value represents both the interest bearing and non-interest bearing amount.*		Numeric	9.2	17	
SS-007	Interest Rate	The interest rate of the loan in effect during the current reporting period.		Numeric	2.3	6	
SS-008	Current Net Interest Rate	The interest rate of the loan in effect during the current reporting period less servicing fees and guarantor fees.		Numeric	2.3	6	
SS-009	Loan Term	The number of months in which regularly scheduled borrower payments are due.		Numeric		3	
SS-010	Remaining Months to Maturity	The number of scheduled monthly payments that will reduce the Current Investor Loan UPB to zero. *For fixed-rate loans, this value takes into account the impact of any curtailments.*		Numeric		3	
SS-011	Loan Age	The number of scheduled payments from the time the loan was originated and modified up to and including the current reporting period.		Numeric		4	
SS-012	Loan-To-Value (LTV)	The ratio, expressed as a percentage, obtained by dividing the amount of the loan at origination by the value of the property. *Property value reflects either the lesser of the sales price or the appraised property value for a purchase, or the appraised property value for a refinance.* *For reperforming, modified fixed-rate and modified step-rate loans, this value will be blank.*		Numeric		3	

SS-013	Combined Loan-To-Value (CLTV)	The ratio, expressed as a percentage, obtained by dividing the amount of all known outstanding loans at origination by the value of the property. *Property value reflects either the lesser of the sales price or the appraised property value for a purchase, or the appraised property value for a refinance.* *For reperforming, modified fixed-rate and modified step-rate loans, this value will be blank.*		Numeric		3	
SS-014	Debt-To-Income (DTI)	The ratio obtained by dividing the total monthly debt expense by the total monthly income of the borrower at the time the loan was originated or modified.		Numeric		3	
SS-015	Borrower Credit Score	The standardized credit score used to evaluate the borrower during the loan origination process. *For reperforming, modified fixed-rate and modified step-rate loans, this value will be blank.*		Numeric		4	
SS-016	Filler						
SS-017	Filler						
SS-018	Updated Credit Score	For reinstated, reperforming, modified fixed-rate and modified step-rate loans, the most recently available standardized credit score provided at the time of issuance.		Numeric		4	
SS-019	Estimated Loan-To-Value (ELTV)	For reinstated, reperforming, modified fixed-rate and modified step-rate loans, the ratio obtained by dividing the outstanding balance of the mortgage loan by the estimated current value of the property obtained by the issuer, at the time of issuance.		Numeric		3	

ID	Attribute Name	Attribute Definition	Enumerations	Data Type	Format	Max Length	Implementation Notes
SS-020	Record Type = 2	Next Interest Rate Adjustment Date		String		2	
SS-021	Prefix	The designation assigned by the issuer denoting the type of the loans and the security.		String		3	
SS-022	Security Identifier	The unique designation assigned to the security by the issuer.		String		6	
SS-023	CUSIP	The unique designation assigned to the security by the Committee on Uniform Securities Identification Procedures (CUSIP).		String		9	
SS-024	Next Interest Rate Adjustment Date	For adjustable-rate loans, the month and year that the interest rate is next subject to change.		Date	MMCCYY	6	
SS-025	Months to Next Interest Rate Adjustment Date	For the stratified attribute of adjustable-rate loans, the number of months from the current month to the next interest rate adjustment date.		Numeric		3	
SS-026	Interest Only First Principal and Interest Payment Date	For the stratified attribute for interest only adjustable-rate loans, the month and year that the first monthly scheduled fully amortizing principal and interest payment is due.		Date	MMCCYY	6	
SS-027	Aggregate Investor Loan UPB	For the stratified attribute of adjustable-rate loans, the sum of the Investor Loan UPB for the loans in the security.		Numeric	14.2	17	

SS-028	Percentage Investor Security UPB	For the stratified attribute of adjustable-rate loans, the percentage of the Investor Loan UPB for the loans in the security.		Numeric	3.2	6	
SS-029	Aggregate Loan Count	For the stratified attribute of adjustable-rate loans, the total number of loans in the security.		Numeric		9	
SS-030	Percentage Loan Count	For the stratified attribute of adjustable-rate loans, the percentage of loans in the security.		Numeric	3.2	6	
SS-031	WA Current Interest Rate	For the stratified attribute of adjustable-rate loans, the weighted average interest rate of the loans in effect during the current reporting period.		Numeric	2.3	6	
SS-032	Current High Interest Rate	For the stratified attribute of adjustable-rate loans, the highest interest rate of the loans in effect during the current reporting period.		Numeric	2.3	6	
SS-033	Current Low Interest Rate	For the stratified attribute of adjustable-rate loans, the lowest interest rate of the loans in effect during the current reporting period.		Numeric	2.3	6	
SS-034	WA Current Net Interest Rate	For the stratified attribute of adjustable-rate loans, the weighted average interest rate of the loans in effect during the current reporting period less servicing fees and guarantor fees.		Numeric	2.3	6	
SS-035	Current High Net Interest Rate	For the stratified attribute of adjustable-rate loans, the highest value interest rate of the loans in effect during the current reporting period less servicing fees and guarantor fees.		Numeric	2.3	6	
SS-036	Current Low Net Interest Rate	For the stratified attribute of adjustable-rate loans, the lowest value interest rate of the loans in effect during the current reporting period less servicing fees and guarantor fees.		Numeric	2.3	6	
SS-037	WA Mortgage Margin	For the stratified attribute of adjustable-rate loans, the weighted average number of percentage points to be added to the index to arrive at the new interest rate.		Numeric	2.3	6	
SS-038	High Mortgage Margin	For the stratified attribute of adjustable-rate loans, the highest number of percentage points to be added to the index to arrive at the new interest rate.		Numeric	2.3	6	
SS-039	Low Mortgage Margin	For the stratified attribute of adjustable-rate loans, the lowest number of percentage points to be added to the index to arrive at the new interest rate.		Numeric	2.3	6	
SS-040	WA MBS PC Margin	For the stratified attribute of adjustable-rate loans, the weighted average mortgage margin less servicing fees and guarantor fees.		Numeric	2.3	6	
SS-041	High MBS PC Margin	For the stratified attribute of adjustable-rate loans, the highest value mortgage margin less servicing fees and guarantor fees.		Numeric	2.3	6	
SS-042	Low MBS PC Margin	For the stratified attribute of adjustable-rate loans, the lowest value mortgage margin less servicing fees and guarantor fees.		Numeric	2.3	6	

SS-043	WA Life Ceiling Interest Rate	For the stratified attribute of adjustable-rate loans, the weighted average lifetime maximum interest rate.		Numeric	2.3	6	
SS-044	Life Ceiling High Interest Rate	For the stratified attribute of adjustable-rate loans, the highest value lifetime maximum interest rate.		Numeric	2.3	6	
SS-045	Life Ceiling Low Interest Rate	For the stratified attribute of adjustable-rate loans, the lowest value lifetime maximum interest rate.		Numeric	2.3	6	
SS-046	WA Life Ceiling Net Interest Rate	For the stratified attribute of adjustable-rate loans, the weighted average maximum interest rate less servicing fees and guarantor fees.		Numeric	2.3	6	
SS-047	Life Ceiling High Net Interest Rate	For the stratified attribute of adjustable-rate loans, the highest value maximum interest rate less servicing fees and guarantor fees.		Numeric	2.3	6	
SS-048	Life Ceiling Low Net Interest Rate	For the stratified attribute of adjustable-rate loans, the lowest value maximum interest rate less servicing fees and guarantor fees.		Numeric	2.3	6	
SS-049	WA Life Floor Interest Rate	For the stratified attribute of adjustable-rate loans, the weighted average lifetime minimum interest rate.		Numeric	2.3	6	
SS-050	Life Floor High Interest Rate	For the stratified attribute of adjustable-rate loans, the highest value lifetime minimum interest rate.		Numeric	2.3	6	
SS-051	Life Floor Low Interest Rate	For the stratified attribute of adjustable-rate loans, the lowest value lifetime minimum interest rate.		Numeric	2.3	6	
SS-052	WA Life Floor Net Interest Rate	For the stratified attribute of adjustable-rate loans, the weighted average minimum interest rate less servicing fees and guarantor fees.		Numeric	2.3	6	
SS-053	Life Floor High Net Interest Rate	For the stratified attribute of adjustable-rate loans, the highest value minimum interest rate less servicing fees and guarantor fees.		Numeric	2.3	6	
SS-054	Life Floor Low Net Interest Rate	For the stratified attribute of adjustable-rate loans, the lowest value minimum interest rate less servicing fees and guarantor fees.		Numeric	2.3	6	

ID	Attribute Name	Attribute Definition	Enumerations	Data Type	Format	Max Length	Implementation Notes
SS-055	Record Type = 3	Loan-To-Value (LTV) Not Available Stratification *For reperforming, modified fixed-rate and modified step-rate loans, this value will be blank.*		String		2	Applicable only if security characteristics apply.
SS-056	Prefix	The designation assigned by the issuer denoting the type of the loans and the security.		String		3	
SS-057	Security Identifier	The unique designation assigned to the security by the issuer.		String		6	
SS-058	CUSIP	The unique designation assigned to the security by the Committee on Uniform Securities Identification Procedures (CUSIP).		String		9	
SS-059	Aggregate Investor Loan UPB	For the stratified attribute, the sum of the Investor Loan UPB for the loans in the security.		Numeric	14.2	17	
SS-060	Percentage Investor Loan UPB	For the stratified attribute, the percentage of the Investor Loan UPB for the loans in the security.		Numeric	3.2	6	
SS-061	Aggregate Loan Count	For the stratified attribute, the total number of loans in the security.		Numeric		9	

SS-062	Percentage Loan Count	For the stratified attribute, the percentage of loans in the security.		Numeric	3.2	6	

ID	Attribute Name	Attribute Definition	Enumerations	Data Type	Format	Max Length	Implementation Notes
SS-063	Record Type = 4	Combined Loan-To-Value (CLTV) Not Available Stratification *For reperforming, modified fixed-rate and modified step-rate loans, this value will be blank.*		String		2	Applicable only if security characteristics apply.
SS-064	Prefix	The designation assigned by the issuer denoting the type of the loans and the security.		String		3	
SS-065	Security Identifier	The unique designation assigned to the security by the issuer.		String		6	
SS-066	CUSIP	The unique designation assigned to the security by the Committee on Uniform Securities Identification Procedures (CUSIP).		String		9	
SS-067	Aggregate Investor Loan UPB	For the stratified attribute, the sum of the Investor Loan UPB for the loans in the security.		Numeric	14.2	17	
SS-068	Percentage Investor Loan UPB	For the stratified attribute, the percentage of the Investor Loan UPB for the loans in the security.		Numeric	3.2	6	
SS-069	Aggregate Loan Count	For the stratified attribute, the total number of loans in the security.		Numeric		9	
SS-070	Percentage Loan Count	For the stratified attribute, the percentage of loans in the security.		Numeric	3.2	6	

ID	Attribute Name	Attribute Definition	Enumerations	Data Type	Format	Max Length	Implementation Notes
SS-071	Record Type = 5	Debt-To-Income (DTI) Not Available Stratification		String		2	Applicable only if security characteristics apply.
SS-072	Prefix	The designation assigned by the issuer denoting the type of the loans and the security.		String		3	
SS-073	Security Identifier	The unique designation assigned to the security by the issuer.		String		6	
SS-074	CUSIP	The unique designation assigned to the security by the Committee on Uniform Securities Identification Procedures (CUSIP).		String		9	
SS-075	Aggregate Investor Loan UPB	For the stratified attribute, the sum of the Investor Loan UPB for the loans in the security.		Numeric	14.2	17	
SS-076	Percentage Investor Loan UPB	For the stratified attribute, the percentage of the Investor Loan UPB for the loans in the security.		Numeric	3.2	6	
SS-077	Aggregate Loan Count	For the stratified attribute, the total number of loans in the security.		Numeric		9	
SS-078	Percentage Loan Count	For the stratified attribute, the percentage of loans in the security.		Numeric	3.2	6	

ID	Attribute Name	Attribute Definition	Enumerations	Data Type	Format	Max Length	Implementation Notes

SS-079	Record Type = 6	Borrower Credit Score Not Available Stratification *For reperforming, modified fixed-rate and modified step-rate loans, this value will be blank.*		String		2	
SS-080	Prefix	The designation assigned by the issuer denoting the type of the loans and the security.		String		3	
SS-081	Security Identifier	The unique designation assigned to the security by the issuer.		String		6	
SS-082	CUSIP	The unique designation assigned to the security by the Committee on Uniform Securities Identification Procedures (CUSIP).		String		9	
SS-083	Aggregate Investor Loan UPB	For the stratified attribute, the sum of the Investor Loan UPB for the loans in the security.		Numeric	14.2	17	
SS-084	Percentage Investor Loan UPB	For the stratified attribute, the percentage of the Investor Loan UPB for the loans in the security.		Numeric	3.2	6	
SS-085	Aggregate Loan Count	For the stratified attribute, the total number of loans in the security.		Numeric		9	
SS-086	Percentage Loan Count	For the stratified attribute, the percentage of loans in the security.		Numeric	3.2	6	

ID	Attribute Name	Attribute Definition	Enumerations	Data Type	Format	Max Length	Implementation Notes
SS-087	Record Type = 7	Days Delinquent Stratification		String		2	Applicable only for monthly disclosure and only if security characteristics apply
SS-088	Prefix	The designation assigned by the issuer denoting the type of the loans and the security.		String		3	
SS-089	Security Identifier	The unique designation assigned to the security by the issuer.		String		6	
SS-090	CUSIP	The unique designation assigned to the security by the Committee on Uniform Securities Identification Procedures (CUSIP).		String		9	
SS-091	Days Delinquent	The number of days for which a mortgage loan has been reported delinquent.	1 = 30-59 2 = 60-89 3 = 90-119 4 = 120+	String		1	
SS-092	Aggregate Investor Loan UPB	For the stratified attribute, the sum of the Investor Loan UPB for the loans in the security.		Numeric	14.2	17	
SS-093	Percentage Investor Loan UPB	For the stratified attribute, the percentage of the Investor Loan UPB for the loans in the security.		Numeric	3.2	6	
SS-094	Aggregate Loan Count	For the stratified attribute, the total number of loans in the security.		Numeric		9	
SS-095	Percentage Loan Count	For the stratified attribute, the percentage of loans in the security.		Numeric	3.2	6	

ID	Attribute Name	Attribute Definition	Enumerations	Data Type	Format	Max Length	Implementation Notes
SS-096	Record Type = 8	Number of Borrowers Stratification		String		2	
SS-097	Prefix	The designation assigned by the issuer denoting the type of the loans and the security.		String		3	
SS-098	Security Identifier	The unique designation assigned to the security by the issuer.		String		6	

SS-099	CUSIP	The unique designation assigned to the security by the Committee on Uniform Securities Identification Procedures (CUSIP).		String		9	
SS-100	Number of Borrowers	The number of borrowers who, at the time the loan is originated, are obligated to repay the loan.	1 2 > 2 99 = Not Available	String		2	
SS-101	Aggregate Investor Loan UPB	For the stratified attribute, the sum of the Investor Loan UPB for the loans in the security.		Numeric	14.2	17	
SS-102	Percentage Investor Loan UPB	For the stratified attribute, the percentage of the Investor Loan UPB for the loans in the security.		Numeric	3.2	6	
SS-103	Aggregate Loan Count	For the stratified attribute, the total number of loans in the security.		Numeric		9	
SS-104	Percentage Loan Count	For the stratified attribute, the percentage of loans in the security.		Numeric	3.2	6	

ID	Attribute Name	Attribute Definition	Enumerations	Data Type	Format	Max Length	Implementation Notes
SS-105	Record Type = 9	First Time Home Buyer Stratification		String		2	
SS-106	Prefix	The designation assigned by the issuer denoting the type of the loans and the security.		String		3	
SS-107	Security Identifier	The unique designation assigned to the security by the issuer.		String		6	
SS-108	CUSIP	The unique designation assigned to the security by the Committee on Uniform Securities Identification Procedures (CUSIP).		String		9	
SS-109	First Time Home Buyer	The indicator denoting whether a borrower on the loan qualifies as a first-time homebuyer.	Y = Yes N = No 9 = Not Available	String		1	
SS-110	Aggregate Investor Loan UPB	For the stratified attribute, the sum of the Investor Loan UPB for the loans in the security.		Numeric	14.2	17	
SS-111	Percentage Investor Loan UPB	For the stratified attribute, the percentage of the Investor Loan UPB for the loans in the security.		Numeric	3.2	6	
SS-112	Aggregate Loan Count	For the stratified attribute, the total number of loans in the security.		Numeric		9	
SS-113	Percentage Loan Count	For the stratified attribute, the percentage of loans in the security.		Numeric	3.2	6	

ID	Attribute Name	Attribute Definition	Enumerations	Data Type	Format	Max Length	Implementation Notes
SS-114	Record Type = 10	Loan Purpose Stratification		String		2	
SS-115	Prefix	The designation assigned by the issuer denoting the type of the loans and the security.		String		3	
SS-116	Security Identifier	The unique designation assigned to the security by the issuer.		String		6	
SS-117	CUSIP	The unique designation assigned to the security by the Committee on Uniform Securities Identification Procedures (CUSIP).		String		9	

SS-118	Loan Purpose	The classification describing the purpose of the loan.	C = Refinance - Cash Out N = Refinance - No Cash Out R = Refinance - Not Specified P = Purchase M = Modified - Loss Mitigation 9 = Not Available	String		1	
SS-119	Aggregate Investor Loan UPB	For the stratified attribute, the sum of the Investor Loan UPB for the loans in the security.		Numeric	14.2	17	
SS-120	Percentage Investor Loan UPB	For the stratified attribute, the percentage of the Investor Loan UPB for the loans in the security.		Numeric	3.2	6	
SS-121	Aggregate Loan Count	For the stratified attribute, the total number of loans in the security.		Numeric		9	
SS-122	Percentage Loan Count	For the stratified attribute, the percentage of loans in the security.		Numeric	3.2	6	

ID	Attribute Name	Attribute Definition	Enumerations	Data Type	Format	Max Length	Implementation Notes
SS-123	Record Type = 11	Occupancy Status Stratification		String		2	
SS-124	Prefix	The designation assigned by the issuer denoting the type of the loans and the security.		String		3	
SS-125	Security Identifier	The unique designation assigned to the security by the issuer.		String		6	
SS-126	CUSIP	The unique designation assigned to the security by the Committee on Uniform Securities Identification Procedures (CUSIP).		String		9	
SS-127	Occupancy Status	The classification describing the property occupancy status at the time the loan was originated. *For reperforming, modified fixed-rate and modified step-rate loans, this value will be blank.*	P = Primary Residence S = Second Home I = Investment Property 9 = Not Available	String		1	
SS-128	Aggregate Investor Loan UPB	For the stratified attribute, the sum of the Investor Loan UPB for the loans in the security.		Numeric	14.2	17	
SS-129	Percentage Investor Loan UPB	For the stratified attribute, the percentage of the Investor Loan UPB for the loans in the security.		Numeric	3.2	6	
SS-130	Aggregate Loan Count	For the stratified attribute, the total number of loans in the security.		Numeric		9	
SS-131	Percentage Loan Count	For the stratified attribute, the percentage of loans in the security.		Numeric	3.2	6	

ID	Attribute Name	Attribute Definition	Enumerations	Data Type	Format	Max Length	Implementation Notes
SS-132	Record Type = 12	Number of Units Stratification		String		2	
SS-133	Prefix	The designation assigned by the issuer denoting the type of the loans and the security.		String		3	
SS-134	Security Identifier	The unique designation assigned to the security by the issuer.		String		6	
SS-135	CUSIP	The unique designation assigned to the security by the Committee on Uniform Securities Identification Procedures (CUSIP).		String		9	

SS-136	Number of Units	The number of dwelling units in the mortgaged property at the time the loan was originated.	1 = 1 2 = 2 3 = 3 4 = 4 99 = Not Available	Numeric		2	
SS-137	Aggregate Investor Loan UPB	For the stratified attribute, the sum of the Investor Loan UPB for the loans in the security.		Numeric	14.2	17	
SS-138	Percentage Investor Loan UPB	For the stratified attribute, the percentage of the Investor Loan UPB for the loans in the security.		Numeric	3.2	6	
SS-139	Aggregate Loan Count	For the stratified attribute, the total number of loans in the security.		Numeric		9	
SS-140	Percentage Loan Count	For the stratified attribute, the percentage of loans in the security.		Numeric	3.2	6	

ID	Attribute Name	Attribute Definition	Enumerations	Data Type	Format	Max Length	Implementation Notes
SS-141	Record Type = 13	Property Type Stratification		String		2	
SS-142	Prefix	The designation assigned by the issuer denoting the type of the loans and the security.		String		3	
SS-143	Security Identifier	The unique designation assigned to the security by the issuer.		String		6	
SS-144	CUSIP	The unique designation assigned to the security by the Committee on Uniform Securities Identification Procedures (CUSIP).		String		9	
SS-145	Property Type	The classification describing the type of property that secures the loan.	CP = Cooperative CO = Condominium PU = Planned Unit Development SF = Single-Family MH = Manufactured Housing 99 = Not Available	String		2	
SS-146	Aggregate Investor Loan UPB	For the stratified attribute, the sum of the Investor Loan UPB for the loans in the security.		Numeric	14.2	17	
SS-147	Percentage Investor Loan UPB	For the stratified attribute, the percentage of the Investor Loan UPB for the loans in the security.		Numeric	3.2	6	
SS-148	Aggregate Loan Count	For the stratified attribute, the total number of loans in the security.		Numeric		9	
SS-149	Percentage Loan Count	For the stratified attribute, the percentage of loans in the security.		Numeric	3.2	6	

ID	Attribute Name	Attribute Definition	Enumerations	Data Type	Format	Max Length	Implementation Notes
SS-150	Record Type = 14	Channel Stratification		String		2	
SS-151	Prefix	The designation assigned by the issuer denoting the type of the loans and the security.		String		3	
SS-152	Security Identifier	The unique designation assigned to the security by the issuer.		String		6	
SS-153	CUSIP	The unique designation assigned to the security by the Committee on Uniform Securities Identification Procedures (CUSIP).		String		9	

SS-154	Channel	The origination channel used by the party that delivered the loan to the issuer. *For reperforming, modified fixed-rate and modified step-rate loans, this value will be blank.*	R = Retail B = Broker C = Correspondent T = Third Party Origination - Not Specified 9 = Not Available	String		1	
SS-155	Aggregate Investor Loan UPB	For the stratified attribute, the sum of the Investor Loan UPB for the loans in the security.		Numeric	14.2	17	
SS-156	Percentage Investor Loan UPB	For the stratified attribute, the percentage of the Investor Loan UPB for the loans in the security.		Numeric	3.2	6	
SS-157	Aggregate Loan Count	For the stratified attribute, the total number of loans in the security.		Numeric		9	
SS-158	Percentage Loan Count	For the stratified attribute, the percentage of loans in the security.		Numeric	3.2	6	

ID	Attribute Name	Attribute Definition	Enumerations	Data Type	Format	Max Length	Implementation Notes
SS-159	Record Type = 15	Property State Stratification		String		2	
SS-160	Prefix	The designation assigned by the issuer denoting the type of the loans and the security.		String		3	
SS-161	Security Identifier	The unique designation assigned to the security by the issuer.		String		6	
SS-162	CUSIP	The unique designation assigned to the security by the Committee on Uniform Securities Identification Procedures (CUSIP).		String		9	
SS-163	Property State	The abbreviation denoting the location of the property securing the loan.	See Appendix A	String		2	
SS-164	Aggregate Investor Loan UPB	For the stratified attribute, the sum of the Investor Loan UPB for the loans in the security.		Numeric	14.2	17	
SS-165	Percentage Investor Loan UPB	For the stratified attribute, the percentage of the Investor Loan UPB for the loans in the security.		Numeric	3.2	6	
SS-166	Aggregate Loan Count	For the stratified attribute, the total number of loans in the security.		Numeric		9	
SS-167	Percentage Loan Count	For the stratified attribute, the percentage of loans in the security.		Numeric	3.2	6	

ID	Attribute Name	Attribute Definition	Enumerations	Data Type	Format	Max Length	Implementation Notes
SS-168	Record Type = 16	Seller Name Stratification		String		2	
SS-169	Prefix	The designation assigned by the issuer denoting the type of the loans and the security.		String		3	
SS-170	Security Identifier	The unique designation assigned to the security by the issuer.		String		6	
SS-171	CUSIP	The unique designation assigned to the security by the Committee on Uniform Securities Identification Procedures (CUSIP).		String		9	
SS-172	Seller Name	The name of the entity that sold the loan to the issuer.		String		100	Will not be updated after issuance, regardless of mergers/acquisitions
SS-173	Aggregate Investor Loan UPB	For the stratified attribute, the sum of the Investor Loan UPB for the loans in the security.		Numeric	14.2	17	

SS-174	Percentage Investor Loan UPB	For the stratified attribute, the percentage of the Investor Loan UPB for the loans in the security.		Numeric	3.2	6	
SS-175	Aggregate Loan Count	For the stratified attribute, the total number of loans in the security.		Numeric		9	
SS-176	Percentage Loan Count	For the stratified attribute, the percentage of loans in the security.		Numeric	3.2	6	
SS-177	Minimum Loan Age	For the stratified attribute, the minimum number of scheduled payments from the time the loan was originated or modified up to and including the current reporting period.		Numeric		3	
SS-178	Maximum Loan Age	For the stratified attribute, the maximum number of scheduled payments from the time the loan was originated or modified to and including the current reporting period.		Numeric		3	
SS-179	Minimum Interest Rate	For the stratified attribute, the minimum interest rate of the loan in effect during the current reporting period.		Numeric	2.3	6	
SS-180	Maximum Interest Rate	For the stratified attribute, the maximum interest rate of the loan in effect during the current reporting period.		Numeric	2.3	6	
SS-181	Minimum Remaining Months to Maturity	For the stratified attribute, the minimum number of scheduled monthly payments that will reduce the Current Investor Loan UPB to zero.		Numeric		3	
SS-182	Maximum Remaining Months to Maturity	For the stratified attribute, the maximum number of scheduled monthly payments that will reduce the Current Investor Loan UPB to zero.		Numeric		3	
SS-183	WA Loan Age	For the stratified attribute, the weighted average number of scheduled payments from the time the loan was originated or modified up to and including the current reporting period.		Numeric		3	
SS-184	WA Interest Rate	For the stratified attribute, the weighted average interest rate of the loan in effect during the current reporting period.		Numeric	2.3	6	
SS-185	WA Remaining Months to Maturity	For the stratified attribute, the weighted average number of scheduled monthly payments that will reduce the Current Investor Loan UPB to zero.		Numeric		3	

ID	Attribute Name	Attribute Definition	Enumerations	Data Type	Format	Max Length	Implementation Notes
SS-186	Record Type = 17	Servicer Name Stratification		String		2	
SS-187	Prefix	The designation assigned by the issuer denoting the type of the loans and the security.		String		3	
SS-188	Security Identifier	The unique designation assigned to the security by the issuer.		String		6	
SS-189	CUSIP	The unique designation assigned to the security by the Committee on Uniform Securities Identification Procedures (CUSIP).		String		9	
SS-190	Servicer Name	The name of the entity that services the loan during the current reporting period. *Will reflect servicer names contributing > 1% of the Current Investor Security UPB.*	< 1%	String		100	Servicer names contributing < 1% of the Current Investor Security UPB will be aggregated and reflected in the < 1% enumeration
SS-191	Aggregate Investor Loan UPB	For the stratified attribute, the sum of the Investor Loan UPB for the loans in the security.		Numeric	14.2	17	

SS-192	Percentage Investor Loan UPB	For the stratified attribute, the percentage of the Investor Loan UPB for the loans in the security.		Numeric	3.2	6	
SS-193	Aggregate Loan Count	For the stratified attribute, the total number of loans in the security.		Numeric		9	
SS-194	Percentage Loan Count	For the stratified attribute, the percentage of loans in the security.		Numeric	3.2	6	
SS-195	Minimum Loan Age	For the stratified attribute, the minimum number of scheduled payments from the time the loan was originated or modified up to and including the current reporting period.		Numeric		3	
SS-196	Maximum Loan Age	For the stratified attribute, the maximum number of scheduled payments from the time the loan was originated or modified up to and including the current reporting period.		Numeric		3	
SS-197	Minimum Interest Rate	For the stratified attribute, the minimum interest rate of the loan in effect during the current reporting period.		Numeric	2.3	6	
SS-198	Maximum Interest Rate	For the stratified attribute, the maximum interest rate of the loan in effect during the current reporting period.		Numeric	2.3	6	
SS-199	Minimum Remaining Months to Maturity	For the stratified attribute, the minimum number of scheduled monthly payments that will reduce the Current Investor Loan UPB to zero.		Numeric		3	
SS-200	Maximum Remaining Months to Maturity	For the stratified attribute, the maximum number of scheduled monthly payments that will reduce the Current Investor Loan UPB to zero.		Numeric		3	
SS-201	WA Loan Age	For the stratified attribute, the weighted average number of scheduled payments from the time the loan was originated or modified to and including the current reporting period.		Numeric		3	
SS-202	WA Interest Rate	For the stratified attribute, the weighted average interest rate of the loan in effect during the current reporting period.		Numeric	2.3	6	
SS-203	WA Remaining Months to Maturity	For the stratified attribute, the weighted average number of scheduled monthly payments that will reduce the Current Investor Loan UPB to zero.		Numeric		3	

ID	Attribute Name	Attribute Definition	Enumerations	Data Type	Format	Max Length	Implementation Notes
SS-204	Record Type = 18	Mortgage Insurance Coverage Stratification		String		2	
SS-205	Prefix	The designation assigned by the issuer denoting the type of the loans and the security.		String		3	
SS-206	Security Identifier	The unique designation assigned to the security by the issuer.		String		6	
SS-207	CUSIP	The unique designation assigned to the security by the Committee on Uniform Securities Identification Procedures (CUSIP).		String		9	
SS-208	Mortgage Insurance Coverage	The mortgage insurance coverage in effect at the time the security was issued.	WITHMI = Loans With Mortgage Insurance NOMI = Loans Without Mortgage Insurance 99 = Not Available	String		6	
SS-209	Aggregate Investor Loan UPB	For the stratified attribute, the sum of the Investor Loan UPB for the loans in the security.		Numeric	14.2	17	

SS-210	Percentage Investor Loan UPB	For the stratified attribute, the percentage of the Investor Loan UPB for the loans in the security.		Numeric	3.2	6	
SS-211	Aggregate Loan Count	For the stratified attribute, the total number of loans in the security.		Numeric		9	
SS-212	Percentage Loan Count	For the stratified attribute, the percentage of loans in the security.		Numeric	3.2	6	

ID	Attribute Name	Attribute Definition	Enumerations	Data Type	Format	Max Length	Implementation Notes
SS-213	Record Type = 19	Mortgage Insurance Cancellation Indicator Stratification		String		2	
SS-214	Prefix	The designation assigned by the issuer denoting the type of the loans and the security.		String		3	
SS-215	Security Identifier	The unique designation assigned to the security by the issuer.		String		6	
SS-216	CUSIP	The unique designation assigned to the security by the Committee on Uniform Securities Identification Procedures (CUSIP).		String		9	
SS-217	Mortgage Insurance Cancellation Indicator	The indicator denoting whether the mortgage insurance has been cancelled after the security was issued.	Y = Yes N = No 7 = Not Applicable	String		1	
SS-218	Aggregate Investor Loan UPB	For the stratified attribute, the sum of the Investor Loan UPB for the loans in the security.		Numeric	14.2	17	
SS-219	Percentage Investor Loan UPB	For the stratified attribute, the percentage of the Investor Loan UPB for the loans in the security.		Numeric	3.2	6	
SS-220	Aggregate Loan Count	For the stratified attribute, the total number of loans in the security.		Numeric		9	
SS-221	Percentage Loan Count	For the stratified attribute, the percentage of loans in the security.		Numeric	3.2	6	

ID	Attribute Name	Attribute Definition	Enumerations	Data Type	Format	Max Length	Implementation Notes
SS-222	Record Type = 20	Government Insured/Guarantee Stratification		String		2	Applicable only to Government Insured/Guarantee loans.
SS-223	Prefix	The designation assigned by the issuer denoting the type of the loans and the security.		String		3	
SS-224	Security Identifier	The unique designation assigned to the security by the issuer.		String		6	
SS-225	CUSIP	The unique designation assigned to the security by the Committee on Uniform Securities Identification Procedures (CUSIP).		String		9	
SS-226	Government Insured/Guarantee	The classification describing the Government Insured/Guarantee Program, if any, covering the loan.	FH = FHA VA = Veterans Affair RH = Rural Housing IH = Section 184 Indian Home 99 = Not Available	String		2	
SS-227	Aggregate Investor Loan UPB	For the stratified attribute, the sum of the Investor Loan UPB for the loans in the security.		Numeric	14.2	17	
SS-228	Percentage Investor Loan UPB	For the stratified attribute, the percentage of the Investor Loan UPB for the loans in the security.		Numeric	3.2	6	
SS-229	Aggregate Loan Count	For the stratified attribute, the total number of loans in the security.		Numeric		9	

SS-230	Percentage Loan Count	For the stratified attribute, the percentage of loans in the security.		Numeric	3.2	6	

ID	Attribute Name	Attribute Definition	Enumerations	Data Type	Format	Max Length	Implementation Notes
SS-231	Record Type = 21	Interest Only First Principal and Interest Payment Date Stratification		String		2	
SS-232	Prefix	The designation assigned by the issuer denoting the type of the loans and the security.		String		3	
SS-233	Security Identifier	The unique designation assigned to the security by the issuer.		String		6	
SS-234	CUSIP	The unique designation assigned to the security by the Committee on Uniform Securities Identification Procedures (CUSIP).		String		9	
SS-235	Interest Only First Principal and Interest Payment Date	For interest-only loans, the month and year that the first monthly scheduled fully amortizing principal and interest payment is due.		Date	MMCCYY	6	
SS-236	Aggregate Investor Loan UPB	For the stratified attribute, the sum of the Investor Loan UPB for the loans in the security.		Numeric	14.2	17	
SS-237	Percentage Investor Loan UPB	For the stratified attribute, the percentage of the Investor Loan UPB for the loans in the security.		Numeric	3.2	6	
SS-238	Aggregate Loan Count	For the stratified attribute, the total number of loans in the security.		Numeric		9	
SS-239	Percentage Loan Count	For the stratified attribute, the percentage of loans in the security.		Numeric	3.2	6	
SS-240	Minimum Loan Age	For the stratified attribute, the minimum number of scheduled payments from the time the loan was originated or modified up to and including the current reporting period.		Numeric		3	
SS-241	Maximum Loan Age	For the stratified attribute, the maximum number of scheduled payments from the time the loan was originated or modified up to and including the current reporting period.		Numeric		3	
SS-242	Minimum Interest Rate	For the stratified attribute, the minimum interest rate of the loan in effect during the current reporting period.		Numeric	2.3	6	
SS-243	Maximum Interest Rate	For the stratified attribute, the maximum interest rate of the loan in effect during the current reporting period.		Numeric	2.3	6	
SS-244	Minimum Remaining Months to Maturity	For the stratified attribute, the minimum number of scheduled monthly payments that will reduce the Current Investor Loan UPB to zero.		Numeric		3	
SS-245	Maximum Remaining Months to Maturity	For the stratified attribute, the maximum number of scheduled monthly payments that will reduce the Current Investor Loan UPB to zero.		Numeric		3	
SS-246	WA Loan Age	For the stratified attribute, the weighted average number of scheduled payments from the time the loan was originated or modified up to and including the current reporting period.		Numeric		3	
SS-247	WA Interest Rate	For the stratified attribute, the weighted average interest rate of the loan in effect during the current reporting period.		Numeric	2.3	6	
SS-248	WA Remaining Months to Maturity	For the stratified attribute, the weighted average number of scheduled monthly payments that will reduce the Current Investor Loan UPB to zero.		Numeric		3	

SS-249	WA Months to Amortization	For the stratified attribute, the weighted average number of months from the current month to the first scheduled principal and interest payment date.		Numeric		3	

ID	Attribute Name	Attribute Definition	Enumerations	Data Type	Format	Max Length	Implementation Notes
SS-250	Record Type = 22	Not Paying Principal in First Distribution Stratification *Loans that will not receive a principal distribution in the first investor payment.*		String		2	Applicable only for at issuance for Single - Class (no resecuritizations)
SS-251	Prefix	The designation assigned by the issuer denoting the type of the loans and the security.		String		3	
SS-252	Security Identifier	The unique designation assigned to the security by the issuer.		String		6	
SS-253	CUSIP	The unique designation assigned to the security by the Committee on Uniform Securities Identification Procedures (CUSIP).		String		9	
SS-254	Aggregate Investor Loan UPB	For the stratified attribute, the sum of the Investor Loan UPB for the loans in the security.		Numeric	14.2	17	
SS-255	Percentage Investor Loan UPB	For the stratified attribute, the percentage of the Investor Loan UPB for the loans in the security.		Numeric	3.2	6	
SS-256	Aggregate Loan Count	For the stratified attribute, the total number of loans in the security.		Numeric		9	
SS-257	Percentage Loan Count	For the stratified attribute, the percentage of loans in the security.		Numeric	3.2	6	

ID	Attribute Name	Attribute Definition	Enumerations	Data Type	Format	Max Length	Implementation Notes
SS-258	Record Type = 23	Origination Year Stratification		String		2	
SS-259	Prefix	The designation assigned by the issuer denoting the type of the loans and the security.		String		3	
SS-260	Security Identifier	The unique designation assigned to the security by the issuer.		String		6	
SS-261	CUSIP	The unique designation assigned to the security by the Committee on Uniform Securities Identification Procedures (CUSIP).		String		9	
SS-262	Origination Year	The year of origination of the loans in the security.		Date	CCYY	4	
SS-263	Aggregate Investor Loan UPB	For the stratified attribute, the sum of the Investor Loan UPB for the loans in the security.		Numeric	14.2	17	
SS-264	Percentage Investor Loan UPB	For the stratified attribute, the percentage of the Investor Loan UPB for the loans in the security.		Numeric	3.2	6	
SS-265	Aggregate Loan Count	For the stratified attribute, the total number of loans in the security.		Numeric		9	
SS-266	Percentage Loan Count	For the stratified attribute, the percentage of loans in the security.		Numeric	3.2	6	

ID	Attribute Name	Attribute Definition	Enumerations	Data Type	Format	Max Length	Implementation Notes
SS-267	Record Type = 24	Origination Channel Stratification		String		2	Applicable only if security characteristics apply.

SS-268	Prefix	The designation assigned by the issuer denoting the type of the loans and the security.		String		3	
SS-269	Security Identifier	The unique designation assigned to the security by the issuer.		String		6	
SS-270	CUSIP	The unique designation assigned to the security by the Committee on Uniform Securities Identification Procedures (CUSIP).		String		9	
SS-271	Origination Channel	For reperforming, modified fixed-rate and modified step-rate loans, the origination channel used by the party that delivered the loan to the issuer.	R = Retail B = Broker C = Correspondent T = Third Party Origination - Not Specified 9 = Not Available	String		1	
SS-272	Aggregate Investor Loan UPB	For the stratified attribute, the sum of the Investor Loan UPB for the loans in the security.		Numeric	14.2	17	
SS-273	Percentage Investor Loan UPB	For the stratified attribute, the percentage of the Investor Loan UPB for the loans in the security.		Numeric	3.2	6	
SS-274	Aggregate Loan Count	For the stratified attribute, the total number of loans in the security.		Numeric		9	
SS-275	Percentage Loan Count	For the stratified attribute, the percentage of loans in the security.		Numeric	3.2	6	

ID	Attribute Name	Attribute Definition	Enumerations	Data Type	Format	Max Length	Implementation Notes
SS-276	Record Type = 25	Non-Standard Loan Type Stratification		String		2	Applicable only for at issuance for Single-Class (no resecuritizations). Totals may exceed 100%.
SS-277	Prefix	The designation assigned by the issuer denoting the type of the loans and the security.		String		3	
SS-278	Security Identifier	The unique designation assigned to the security by the issuer.		String		6	
SS-279	CUSIP	The unique designation assigned to the security by the Committee on Uniform Securities Identification Procedures (CUSIP).		String		9	
SS-280	Non-Standard Loan Type	The non-standard loan characteristics included in the security.	COOP = Cooperative HIGH = FHFA High Cost Area BYDN = Interest-rate buydown RELO = Relocation	String		4	
SS-281	Aggregate Investor Loan UPB	For the stratified attribute, the sum of the Investor Loan UPB for the loans in the security.		Numeric	14.2	17	
SS-282	Percentage Investor Loan UPB	For the stratified attribute, the percentage of the Investor Loan UPB for the loans in the security.		Numeric	3.2	6	
SS-283	Aggregate Loan Count	For the stratified attribute, the total number of loans in the security.		Numeric		9	
SS-284	Percentage Loan Count	For the stratified attribute, the percentage of loans in the security.		Numeric	3.2	6	

ID	Attribute Name	Attribute Definition	Enumerations	Data Type	Format	Max Length	Implementation Notes
SS-285	Record Type = 26	Modification Program Stratification		String		2	Applicable only if security characteristics apply.

SS-286	Prefix	The designation assigned by the issuer denoting the type of the loans and the security.		String		3	
SS-287	Security Identifier	The unique designation assigned to the security by the issuer.		String		6	
SS-288	CUSIP	The unique designation assigned to the security by the Committee on Uniform Securities Identification Procedures (CUSIP).		String		9	
SS-289	Modification Program	For reperforming, modified fixed-rate and modified step-rate loans, the program under which the loan was modified.	A = Alternative C = Classic B = HAMP Backup H = HAMP O = Other R = Regular S = Standard T = Streamlined U = Underwater 9 = Not Available	String		1	
SS-290	Aggregate Investor Loan UPB	For the stratified attribute, the sum of the Investor Loan UPB for the loans in the security.		Numeric	14.2	17	
SS-291	Percentage Investor Loan UPB	For the stratified attribute, the percentage of the Investor Loan UPB for the loans in the security.		Numeric	3.2	6	
SS-292	Aggregate Loan Count	For the stratified attribute, the total number of loans in the security.		Numeric		9	
SS-293	Percentage Loan Count	For the stratified attribute, the percentage of loans in the security.		Numeric	3.2	6	

ID	Attribute Name	Attribute Definition	Enumerations	Data Type	Format	Max Length	Implementation Notes
SS-294	Record Type = 27	Modification Type Stratification		String		2	Applicable only if security characteristics apply.
SS-295	Prefix	The designation assigned by the issuer denoting the type of the loans and the security.		String		3	
SS-296	Security Identifier	The unique designation assigned to the security by the issuer.		String		6	
SS-297	CUSIP	The unique designation assigned to the security by the Committee on Uniform Securities Identification Procedures (CUSIP).		String		9	
SS-298	Modification Type	For reperforming, modified fixed-rate and modified step-rate loans, the classification describing the type of modification.	R = Rate T = Term B = Rate & Term C = Capitalization F = Rate, Term & Forbearance O = Other	String		1	
SS-299	Aggregate Investor Loan UPB	For the stratified attribute, the sum of the Investor Loan UPB for the loans in the security.		Numeric	14.2	17	
SS-300	Percentage Investor Loan UPB	For the stratified attribute, the percentage of the Investor Loan UPB for the loans in the security.		Numeric	3.2	6	
SS-301	Aggregate Loan Count	For the stratified attribute, the total number of loans in the security.		Numeric		9	
SS-302	Percentage Loan Count	For the stratified attribute, the percentage of loans in the security.		Numeric	3.2	6	

ID	Attribute Name	Attribute Definition	Enumerations	Data Type	Format	Max Length	Implementation Notes
SS-303	Record Type = 28	Modification Information Stratification		String		2	Applicable only if security characteristics apply.
SS-304	Prefix	The designation assigned by the issuer denoting the type of the loans and the security.		String		3	
SS-305	Security Identifier	The unique designation assigned to the security by the issuer.		String		6	
SS-306	CUSIP	The unique designation assigned to the security by the Committee on Uniform Securities Identification Procedures (CUSIP).		String		9	
SS-307	Modification Information	For reperforming, modified fixed-rate and modified step-rate loans, the Total Capitalized Amounts and Deferred Unpaid Principal Balances of the loans in the security.	TOTAL CAPITALIZED AMOUNT DEFERRED UPB	String		25	
SS-308	Aggregate Investor Loan UPB	For the stratified attribute, the sum of the Investor Loan UPB for the loans in the security.		Numeric	14.2	17	
SS-309	Percentage Investor Loan UPB	For the stratified attribute, the percentage of the Investor Loan UPB for the loans in the security.		Numeric	3.2	6	
SS-310	Aggregate Loan Count	For the stratified attribute, the total number of loans in the security.		Numeric		9	
SS-311	Percentage Loan Count	For the stratified attribute, the percentage of loans in the security.		Numeric	3.2	6	

ID	Attribute Name	Attribute Definition	Enumerations	Data Type	Format	Max Length	Implementation Notes
SS-312	Record Type = 29	Number of Modifications Stratification		String		2	Applicable only if security characteristics apply.
SS-313	Prefix	The designation assigned by the issuer denoting the type of the loans and the security.		String		3	
SS-314	Security Identifier	The unique designation assigned to the security by the issuer.		String		6	
SS-315	CUSIP	The unique designation assigned to the security by the Committee on Uniform Securities Identification Procedures (CUSIP).		String		9	
SS-316	Number of Modifications	For reperforming, modified fixed-rate and modified step-rate loans, the number of times the loan has been modified.	1 2 >2	Numeric		2	
SS-317	Aggregate Investor Loan UPB	For the stratified attribute, the sum of the Investor Loan UPB for the loans in the security.		Numeric	14.2	17	
SS-318	Percentage Investor Loan UPB	For the stratified attribute, the percentage of the Investor Loan UPB for the loans in the security.		Numeric	3.2	6	
SS-319	Aggregate Loan Count	For the stratified attribute, the total number of loans in the security.		Numeric		9	
SS-320	Percentage Loan Count	For the stratified attribute, the percentage of loans in the security.		Numeric	3.2	6	

ID	Attribute Name	Attribute Definition	Enumerations	Data Type	Format	Max Length	Implementation Notes
SS-321	Record Type = 30	Deferred Unpaid Principal Balance Stratification *Applicable only for modified pools*		String		2	Applicable only if security characteristics apply.

SS-322	Prefix	The designation assigned by the issuer denoting the type of the loans and the security.		String		3	
SS-323	Security Identifier	The unique designation assigned to the security by the issuer.		String		6	
SS-324	CUSIP	The unique designation assigned to the security by the Committee on Uniform Securities Identification Procedures (CUSIP).		String		9	
SS-325	Deferred UPB Type	For reperforming, modified fixed-rate and modified step-rate loans, denotes if the reported unpaid principal balance includes any deferred amount.	WITHDEFUPB = With Deferred UPB NODEFUPB = Without Deferred UPB 99 = Not Available	String		10	
SS-326	Interest-Bearing UPB	For reperforming, modified fixed-rate and modified step-rate loans, the aggregate interest bearing unpaid principal balance at the time of modification.		Numeric	14.2	17	
SS-327	Deferred UPB	For reperforming, modified fixed-rate and modified step-rate loans, the aggregate non-interest bearing amount at the time of modification. This amount does not contribute to MBS. *The deferred amount is not included in the unpaid principal balance of the security and is not payable to the certificate holder.*		Numeric	14.2	17	
SS-328	Aggregate Loan Count	For the stratified attribute, the total number of loans in the security.		Numeric		9	
SS-329	WA Interest Rate	For the stratified attribute, the weighted average interest rate of the loans in effect during the current reporting period.		Numeric	2.3	6	
SS-330	WA Estimated LTV (ELTV)	For the stratified attribute in reinstated, reperforming, modified fixed-rate and modified step-rate loans, the weighted average ratio obtained by dividing the outstanding balance of the mortgage loan by the estimated current value of the property obtained by the issuer, at the time of issuance.		Numeric		3	
SS-331	WA Updated Credit Score	For the stratified attribute in reinstated, reperforming, modified fixed-rate and modified step-rate loans, the weighted average most recently available standardized credit score provided at the time of issuance.		Numeric		4	
SS-332	WA Debt To Income (DTI) Ratio	For the stratified attribute in reinstated, reperforming, modified fixed-rate and modified step-rate loans, the weighted average ratio obtained by dividing the total monthly debt expense by the total monthly income of the borrower at the time the loan was originated or modified.		Numeric		3	
SS-333	Average Mortgage Loan Amount	For the stratified attribute in reinstated, reperforming, modified fixed-rate and modified step-rate loans, the simple average dollar amount of the loan as stated on the note at the time the loan was originated or modified. *For reperforming, modified fixed-rate and modified step-rate loans, this value represents both the interest bearing and non-interest bearing amount.*		Numeric	9.2	12	

SS-334	Property State 1	The abbreviation denoting the location of the property securing the loan for the stratified attribute. *Ranked #1 by Investor Loan UPB*	See Appendix A	String		2	
SS-335	Aggregate Investor Loan UPB	For the stratified attribute, the sum of the Investor Loan UPB for the loans in the security that are associated with Property State #1 (ranked by Investor Loan UPB).		Numeric	14.2	17	
SS-336	Percentage Investor Loan UPB	For the stratified attribute, the percentage of the Investor Loan UPB for the loans in the security that are associated with Property State #1 (ranked by Investor Loan UPB).		Numeric	3.2	6	
SS-337	Aggregate Loan Count	For the stratified attribute, the total number of loans in the security that are associated with Property State #1 (ranked by Investor Loan UPB).		Numeric		9	
SS-338	Percentage Loan Count	For the stratified attribute, the percentage of loans in the security with Property State #1 (ranked by Investor Loan UPB).		Numeric	3.2	6	
SS-339	Property State 2	The abbreviation denoting the location of the property securing the loan for the stratified attribute. *Ranked #2 by Investor Loan UPB*	See Appendix A	String		2	
SS-340	Aggregate Investor Loan UPB	For the stratified attribute, the sum of the Investor Loan UPB for the loans in the security that are associated with Property State #2 (ranked by Investor Loan UPB).		Numeric	14.2	17	
SS-341	Percentage Investor Loan UPB	For the stratified attribute, the percentage of the Investor Loan UPB for the loans in the security that are associated with Property State #2 (ranked by Investor Loan UPB).		Numeric	3.2	6	
SS-342	Aggregate Loan Count	For the stratified attribute, the total number of loans in the security that are associated with Property State #2 (ranked by Investor Loan UPB).		Numeric		9	
SS-343	Percentage Loan Count	For the stratified attribute, the percentage of loans in the security with Property State #2 (ranked by Investor Loan UPB).		Numeric	3.2	6	
SS-344	Property State 3	The abbreviation denoting the location of the property securing the loan for the stratified attribute. *Ranked #3 by Investor Loan UPB*	See Appendix A	String		2	
SS-345	Aggregate Investor Loan UPB	For the stratified attribute, the sum of the Investor Loan UPB for the loans in the security that are associated with Property State #3 (ranked by Investor Loan UPB).		Numeric	14.2	17	
SS-346	Percentage Investor Loan UPB	For the stratified attribute, the percentage of the Investor Loan UPB for the loans in the security that are associated with Property State #3 (ranked by Investor Loan UPB).		Numeric	3.2	6	
SS-347	Aggregate Loan Count	For the stratified attribute, the total number of loans in the security that are associated with Property State #3 (ranked by Investor Loan UPB).		Numeric		9	
SS-348	Percentage Loan Count	For the stratified attribute, the percentage of loans in the security with Property State #3 (ranked by Investor Loan UPB).		Numeric	3.2	6	

ID	Attribute Name	Attribute Definition	Enumerations	Data Type	Format	Max Length	Implementation Notes

SS-349	Record Type = 31	Estimated Loan-to-Value (ELTV) Not Available Stratification *For non-reperforming, modified fixed-rate and modified step-rate loans, this value will be blank.*		String		2	Applicable only if security characteristics apply.
SS-350	Prefix	The designation assigned by the issuer denoting the type of the loans and the security.		String		3	
SS-351	Security Identifier	The unique designation assigned to the security by the issuer.		String		6	
SS-352	CUSIP	The unique designation assigned to the security by the Committee on Uniform Securities Identification Procedures (CUSIP).		String		9	
SS-353	Aggregate Investor Loan UPB	For the stratified attribute, the sum of the Investor Loan UPB for the loans in the security.		String	14.2	17	
SS-354	Percentage Investor Loan UPB	For the stratified attribute, the percentage of the Investor Loan UPB for the loans in the security.		Numeric	3.2	6	
SS-355	Aggregate Loan Count	For the stratified attribute, the total number of loans in the security.		Numeric		9	
SS-356	Percentage Loan Count	For the stratified attribute, the percentage of loans in the security.		Numeric	3.2	6	

ID	Attribute Name	Attribute Definition	Enumerations	Data Type	Format	Max Length	Implementation Notes
SS-357	Record Type = 32	Updated Credit Score Not Available Stratification *For non-reperforming, modified fixed-rate and modified step-rate loans, this value will be blank.*		String		2	Applicable only if security characteristics apply.
SS-358	Prefix	The designation assigned by the issuer denoting the type of the loans and the security.		String		3	
SS-359	Security Identifier	The unique designation assigned to the security by the issuer.		String		6	
SS-360	CUSIP	The unique designation assigned to the security by the Committee on Uniform Securities Identification Procedures		String		9	
SS-361	Aggregate Investor Loan UPB	For the stratified attribute, the sum of the Investor Loan UPB for the loans in the security.		Numeric	14.2	17	
SS-362	Percentage Investor Loan UPB	For the stratified attribute, the percentage of the Investor Loan UPB for the loans in the security.		Numeric	3.2	6	
SS-363	Aggregate Loan Count	For the stratified attribute, the total number of loans in the security.		Numeric		9	
SS-364	Percentage Loan Count	For the stratified attribute, the percentage of loans in the security.		Numeric	3.2	6	

ID	Attribute Name	Attribute Definition	Enumerations	Data Type	Format	Max Length	Implementation Notes
SS-365	Record Type = 33	Number of Remaining Steps Stratification		String		2	Applicable only for Freddie Mac securities
SS-366	Prefix	The designation assigned by the issuer denoting the type of the loans and the security.		String		3	
SS-367	Security Identifier	The unique designation assigned to the security by the issuer.		String		6	
SS-368	CUSIP	The unique designation assigned to the security by the Committee on Uniform Securities Identification Procedures (CUSIP).		String		9	

SS-369	Number of Remaining Steps	For reperforming, modified step-rate loans, the number of upward interest rate adjustments remaining.		Numeric		2	
SS-370	Aggregate Investor Loan UPB	For the stratified attribute, the sum of the Investor Loan UPB for the loans in the security.		Numeric	14.2	17	
SS-371	Percentage Investor Loan UPB	For the stratified attribute, the percentage of the Investor Loan UPB for the loans in the security.		Numeric	3.2	6	
SS-372	Aggregate Loan Count	For the stratified attribute, the total number of loans in the security.		Numeric		9	
SS-373	Percentage Loan Count	For the stratified attribute, the percentage of loans in the security.		Numeric	3.2	6	

ID	Attribute Name	Attribute Definition	Enumerations	Data Type	Format	Max Length	Implementation Notes
SS-374	Record Type = 34	Number of Steps - At Modification Stratification		String		2	Applicable only for Freddie Mac securities
SS-375	Prefix	The designation assigned by the issuer denoting the type of the loans and the security.		String		3	
SS-376	Security Identifier	The unique designation assigned to the security by the issuer.		String		6	
SS-377	CUSIP	The unique designation assigned to the security by the Committee on Uniform Securities Identification Procedures (CUSIP).		String		9	
SS-378	Number of Steps - At Modification	For reperforming, modified step-rate loans, the number of upward interest rate adjustments at the time of modification.		Numeric		2	
SS-379	Aggregate Investor Loan UPB	For the stratified attribute, the sum of the Investor Loan UPB for the loans in the security.		Numeric	14.2	17	
SS-380	Percentage Investor Loan UPB	For the stratified attribute, the percentage of the Investor Loan UPB for the loans in the security.		Numeric	3.2	6	
SS-381	Aggregate Loan Count	For the stratified attribute, the total number of loans in the security.		Numeric		9	
SS-382	Percentage Loan Count	For the stratified attribute, the percentage of loans in the security.		Numeric	3.2	6	

ID	Attribute Name	Attribute Definition	Enumerations	Data Type	Format	Max Length	Implementation Notes
SS-383	Record Type = 35	Next Step Rate Adjustment Date Stratification		String		2	Applicable only for Freddie Mac securities
SS-384	Prefix	The designation assigned by the issuer denoting the type of the loans and the security.		String		3	
SS-385	Security Identifier	The unique designation assigned to the security by the issuer.		String		6	
SS-386	CUSIP	The unique designation assigned to the security by the Committee on Uniform Securities Identification Procedures (CUSIP).		String		9	
SS-387	Next Step Rate Adjustment Date	For reperforming, modified step-rate loans, the month and year that the interest rate is scheduled to increase.		Date	MMCCYY	6	
SS-388	Projected WA Interest Rate	For reperforming, modified fixed-rate and modified step-rate loans, the projected weighted average of the expected interest rates in effect on the associated adjustment date, not accounting for prepayments.		Numeric	2.3	6	

SS-389	Projected WA Net Interest Rate	For reperforming, modified fixed-rate and modified step-rate loans, the projected weighted average of the expected interest rates in effect on the associated adjustment date, not accounting for prepayments less servicing fees and guarantor fees.		Numeric	2.3	6	
SS-390	Aggregate Investor Loan UPB	For the stratified attribute, the sum of the Investor Loan UPB for the loans in the security.		Numeric	14.2	17	
SS-391	Percentage Investor Loan UPB	For the stratified attribute, the percentage of the Investor Loan UPB for the loans in the security.		Numeric	3.2	6	
SS-392	Aggregate Loan Count	For the stratified attribute, the total number of loans in the security.		Numeric		9	
SS-393	Percentage Loan Count	For the stratified attribute, the percentage of loans in the security.		Numeric	3.2	6	

ID	Attribute Name	Attribute Definition	Enumerations	Data Type	Format	Max Length	Implementation Notes
SS-394	Record Type = 36	Origination Loan-To-Value (LTV) Not Available Stratification *For non- reperforming, modified fixed-rate and modified step-rate loans, this value will be blank.*		String		2	Applicable only if security characteristics apply.
SS-395	Prefix	The designation assigned by the issuer denoting the type of the loans and the security.		String		3	
SS-396	Security Identifier	The unique designation assigned to the security by the issuer.		String		6	
SS-397	CUSIP	The unique designation assigned to the security by the Committee on Uniform Securities Identification Procedures (CUSIP).		String		9	
SS-398	Aggregate Investor Loan UPB	For the stratified attribute, the sum of the Investor Loan UPB for the loans in the security.		Numeric	14.2	17	
SS-399	Percentage Investor Loan UPB	For the stratified attribute, the percentage of the Investor Loan UPB for the loans in the security.		Numeric	3.2	6	
SS-400	Aggregate Loan Count	For the stratified attribute, the total number of loans in the security.		Numeric		9	
SS-401	Percentage Loan Count	For the stratified attribute, the percentage of loans in the security.		Numeric	3.2	6	

ID	Attribute Name	Attribute Definition	Enumerations	Data Type	Format	Max Length	Implementation Notes
SS-402	Record Type = 37	Origination Combined Loan-To-Value (CLTV) Not Available Stratification *For non- reperforming, modified fixed-rate and modified step-rate loans, this value will be blank.*		String		2	Applicable only if security characteristics apply.
SS-403	Prefix	The designation assigned by the issuer denoting the type of the loans and the security.		String		3	
SS-404	Security Identifier	The unique designation assigned to the security by the issuer.		String		6	
SS-405	CUSIP	The unique designation assigned to the security by the Committee on Uniform Securities Identification Procedures (CUSIP).		String		9	

SS-406	Aggregate Investor Loan UPB	For the stratified attribute, the sum of the Investor Loan UPB for the loans in the security.		Numeric	14.2	17	
SS-407	Percentage Investor Loan UPB	For the stratified attribute, the percentage of the Investor Loan UPB for the loans in the security.		Numeric	3.2	6	
SS-408	Aggregate Loan Count	For the stratified attribute, the total number of loans in the security.		Numeric		9	
SS-409	Percentage Loan Count	For the stratified attribute, the percentage of loans in the security.		Numeric	3.2	6	

ID	Attribute Name	Attribute Definition	Enumerations	Data Type	Format	Max Length	Implementation Notes
SS-410	Record Type = 38	Origination Debt-To-Income (DTI) Not Available Stratification		String		2	Applicable only if security characteristics apply.
SS-411	Prefix	The designation assigned by the issuer denoting the type of the loans and the security.		String		3	
SS-412	Security Identifier	The unique designation assigned to the security by the issuer.		String		6	
SS-413	CUSIP	The unique designation assigned to the security by the Committee on Uniform Securities Identification Procedures (CUSIP).		String		9	
SS-414	Aggregate Investor Loan UPB	For the stratified attribute, the sum of the Investor Loan UPB for the loans in the security.		Numeric	14.2	17	
SS-415	Percentage Investor Loan UPB	For the stratified attribute, the percentage of the Investor Loan UPB for the loans in the security.		Numeric	3.2	6	
SS-416	Aggregate Loan Count	For the stratified attribute, the total number of loans in the security.		Numeric		9	
SS-417	Percentage Loan Count	For the stratified attribute, the percentage of loans in the security.		Numeric	3.2	6	

ID	Attribute Name	Attribute Definition	Enumerations	Data Type	Format	Max Length	Implementation Notes
SS-418	Record Type = 39	Origination Borrower Credit Score Not Available Stratification		String		2	Applicable only if security characteristics apply.
SS-419	Prefix	The designation assigned by the issuer denoting the type of the loans and the security.		String		3	
SS-420	Security Identifier	The unique designation assigned to the security by the issuer.		String		6	
SS-421	CUSIP	The unique designation assigned to the security by the Committee on Uniform Securities Identification Procedures (CUSIP).		String		9	
SS-422	Aggregate Investor Loan UPB	For the stratified attribute, the sum of the Investor Loan UPB for the loans in the security.		Numeric	14.2	17	
SS-423	Percentage Investor Loan UPB	For the stratified attribute, the percentage of the Investor Loan UPB for the loans in the security.		Numeric	3.2	6	
SS-424	Aggregate Loan Count	For the stratified attribute, the total number of loans in the security.		Numeric		9	
SS-425	Percentage Loan Count	For the stratified attribute, the percentage of loans in the security.		Numeric	3.2	6	

ID	Attribute Name	Attribute Definition	Enumerations	Data Type	Format	Max Length	Implementation Notes

SS-426	Record Type = 40	Origination Loan Purpose Stratification		String		2	Applicable only if security characteristics apply.
SS-427	Prefix	The designation assigned by the issuer denoting the type of the loans and the security.		String		3	
SS-428	Security Identifier	The unique designation assigned to the security by the issuer.		String		6	
SS-429	CUSIP	The unique designation assigned to the security by the Committee on Uniform Securities Identification Procedures (CUSIP).		String		9	
SS-430	Origination Loan Purpose Stratification	For reperforming, modified fixed-rate and modified step-rate loans, the classification of the loan as either a purchase money mortgage or a refinance mortgage at the time the loan was originated.	C = Refinance - Cash Out N = Refinance - No Cash Out R = Refinance - Not Specified P = Purchase M = Modified - Loss Mitigation 9 = Not Available	String		1	
SS-431	Aggregate Investor Loan UPB	For the stratified attribute, the sum of the Investor Loan UPB for the loans in the security.		Numeric	14.2	17	
SS-432	Percentage Investor Loan UPB	For the stratified attribute, the percentage of the Investor Loan UPB for the loans in the security.		Numeric	3.2	6	
SS-433	Aggregate Loan Count	For the stratified attribute, the total number of loans in the security.		Numeric		9	
SS-434	Percentage Loan Count	For the stratified attribute, the percentage of loans in the security.		Numeric	3.2	6	

ID	Attribute Name	Attribute Definition	Enumerations	Data Type	Format	Max Length	Implementation Notes
SS-435	Record Type = 41	Origination Occupancy Status Stratification		String		2	Applicable only if security characteristics apply.
SS-436	Prefix	The designation assigned by the issuer denoting the type of the loans and the security.		String		3	
SS-437	Security Identifier	The unique designation assigned to the security by the issuer.		String		6	
SS-438	CUSIP	The unique designation assigned to the security by the Committee on Uniform Securities Identification Procedures (CUSIP).		String		9	
SS-439	Origination Occupancy Status	For reperforming, modified fixed-rate and modified step rate loans, the classification describing the property occupancy status at the time the loan was originated.	P = Primary Residence S = Second Home I = Investment Property 9 = Not Available	String		1	
SS-440	Aggregate Investor Loan UPB	For the stratified attribute, the sum of the Investor Loan UPB for the loans in the security.		Numeric	14.2	17	
SS-441	Percentage Investor Loan UPB	For the stratified attribute, the percentage of the Investor Loan UPB for the loans in the security.		Numeric	3.2	6	
SS-442	Aggregate Loan Count	For the stratified attribute, the total number of loans in the security.		Numeric		9	
SS-443	Percentage Loan Count	For the stratified attribute, the percentage of loans in the security.		Numeric	3.2	6	

ID	Attribute Name	Attribute Definition	Enumerations	Data Type	Format	Max Length	Implementation Notes

SS-444	Record Type = 42	Borrower Payment History Stratification		String		2	Applicable only for Freddie Mac securities
SS-445	Prefix	The designation assigned by the issuer denoting the type of the loans and the security.		String		3	
SS-446	Security Identifier	The unique designation assigned to the security by the issuer.		String		6	
SS-447	CUSIP	The unique designation assigned to the security by the Committee on Uniform Securities Identification Procedures (CUSIP).		String		9	
SS-448	Days Delinquent	For reperforming, modified and modified step-rate loans, the number of days for which a mortgage loan was reported delinquent.	0 = Current 1 = 30-59 2 = 60-89 3 = 90-119 4 = 120+	String		1	
SS-449	Borrower Payment Date	The month and year that the borrower was scheduled to remit payment. *Up to 36-months of payment history*		Date	MMCCYY	6	
SS-450	Aggregate Investor Loan UPB	For the stratified attribute, the sum of the Investor Loan UPB for the loans in the security.		Numeric	14.2	17	
SS-451	Percentage Investor Loan UPB	For the stratified attribute, the percentage of the Investor Loan UPB for the loans in the security.		Numeric	3.2	6	
SS-452	Aggregate Loan Count	For the stratified attribute, the total number of loans in the security.		Numeric		9	
SS-453	Percentage Loan Count	For the stratified attribute, the percentage of loans in the security.		Numeric	3.2	6	

ID	Attribute Name	Attribute Definition	Enumerations	Data Type	Format	Max Length	Implementation Notes
SS-454	Record Type = 43	Collateral List		String		2	Applicable only for at issuance for Single - Class resecuritizations.
SS-455	Prefix	The designation assigned by the issuer denoting the type of the loans and the security.		String		3	
SS-456	Security Identifier	The unique designation assigned to the security by the issuer.		String		6	
SS-457	CUSIP	The unique designation assigned to the security by the Committee on Uniform Securities Identification Procedures (CUSIP).		String		9	
SS-458	Collateral Prefix	For each security that directly underlies the resecuritization, the designation assigned by the issuer denoting the type of the loans and the security.		String		3	
SS-459	Collateral Security Identifier	For each security that directly underlies the resecuritization, the unique designation assigned to the security by the issuer.		String		6	
SS-460	Collateral CUSIP	For each security that directly underlies the resecuritization, the unique designation assigned to the security by the Committee on Uniform Securities Identification Procedures (CUSIP).		String		9	

SS-461	Collateral Current WA Net Interest Rate	For each security that directly underlies the resecuritization, the weighted average interest rate of the loans in effect during the current reporting period less servicing fees and guarantor fees.		Numeric	2.3	6	
SS-462	Collateral Issue Date	For each security that directly underlies the resecuritization, the date on which the security was issued.		Date	MMDDCCYY	8	
SS-463	Collateral Issuer	The issuer for each security that directly underlies the resecuritization.		String		3	
SS-464	Collateral Maturity Date	For each security that directly underlies the resecuritization, the month and year that the final scheduled payment on the loan is due at the time of resecuritization.		Date	MMCCYY	6	
SS-465	Collateral Issuance Investor Security UPB	For each security that directly underlies the resecuritization, the unpaid principal balance of the loans as they contribute to the balance of the security.		Numeric	12.2	15	
SS-466	Collateral Issuance Contributing Investor Security UPB	For each security that directly underlies the resecuritization, the pro-rata share of the Investor Security UPB - Issuance amount .		Numeric	12.2	15	
SS-467	Collateral Current Contributing Investor Security UPB	For each security that directly underlies the resecuritization, the pro-rata share of the Investor Security UPB - Current amount.		Numeric	12.2	15	
SS-468	Collateral WA Interest Rate at Settlement	For each security that directly underlies the resecuritization, the weighted average interest rate at the time of resecuritization.		Numeric	2.3	6	
SS-469	Collateral WA Remaining Months to Maturity at Settlement	For each security that directly underlies the resecuritization, the weighted average number of scheduled monthly payments that will reduce the Current Investor Loan UPB to zero at the time of resecuritization. *For fixed-rate loans, this value takes into account the impact of any curtailments.*		Numeric		3	
SS-470	Collateral WA Loan Age at Settlement	For each security that directly underlies the resecuritization, the weighted average number of scheduled payments from the time the loan was originated or modified up to and including the current reporting period at the time of resecuritization.		Numeric		3	
SS-471	Collateral Trust Identifier	For each security that directly underlies the resecuritization, an identifier assigned to the trust when established into a multiclass resecuritization.		String		50	Applicable only for underlying REMIC collateral
SS-472	Collateral Class Identifier	For each security that directly underlies the resecuritization, an identifier assigned to the class when established into a multiclass resecuritization.		String		4	Applicable only for underlying REMIC collateral
SS-473	Group Identifier	An identifier assigned to the group when established into a multiclass resecuritization.		String		5	Applicable only for underlying REMIC collateral

Property State Code Enumerations			
Enumeration	Enumeration Name	Enumeration	Enumeration Name
AK	Alaska	MO	Missouri
AL	Alabama	MS	Mississippi
AR	Arkansas	MT	Montana
AZ	Arizona	NC	North Carolina
CA	California	ND	North Dakota
CO	Colorado	NE	Nebraska
CT	Connecticut	NH	New Hampshire
DC	District of Columbia	NJ	New Jersey
DE	Delaware	NM	New Mexico
FL	Florida	NV	Nevada
GA	Georgia	NY	New York
GU	Guam	OH	Ohio
HI	Hawaii	OK	Oklahoma
IA	Iowa	OR	Oregon
ID	Idaho	PA	Pennsylvania
IL	Illinois	PR	Puerto Rico
IN	Indiana	RI	Rhode Island
KS	Kansas	SC	South Carolina
KY	Kentucky	SD	South Dakota
LA	Louisiana	TN	Tennessee
MA	Massachusetts	TX	Texas
MD	Maryland	UT	Utah
ME	Maine	VA	Virginia
MI	Michigan	VI	Virgin Islands
MN	Minnesota	VT	Vermont
MO	Missouri	WA	Washington
MS	Mississippi	WI	Wisconsin
MT	Montana	WV	West Virginia
NC	North Carolina	WY	Wyoming

ARM Index Enumerations			
Enumeration	Enumeration Name	Enumeration	Enumeration Name
01	11THDIST_DLY_GUAR_RATE	31	FRM_CONV_60DAY_30YR_AA_DLY
02	CD_6MO_SEC_MRKT_MNTH_AVG	32	FRM_CONV_60DAY_POSTED_YLD_AA
03	CD_6MO_WKLY	33	FRM_CONV_60DAY_POSTED_YLD_SA
04	CMT_10YR_MNTH	34	LIBOR_1MO_BBA_DLY
05	CMT_10YR_WKLY_AVG	35	LIBOR_1MO_WSJ_DLY
06	CMT_1YR_CUML_AVG_PRIOR12_MNTH_AVG	36	LIBOR_1MO_WSJ
07	CMT_1YR_CUML_AVG_4WKS_WKLY_AVG	37	LIBOR_1YR_WSJ
08	CMT_1YR_CUML_AVG_PREV12_MNTH_AVG	38	LIBOR_1YR_WSJ_DLY
09	CMT_1YR_MNTH_AVG	39	LIBOR_3MO_BBA_DLY
10	CMT_1YR_WKLY_AVG	40	LIBOR_6MO_BBA
11	CMT_2YR_WKLY_AVG	41	LIBOR_6MO_BBA_DLY
12	CMT_3YR_MNTH_AVG	42	LIBOR_6MO_WSJ
13	CMT_3YR_WKLY_AVG	43	LIBOR_6MO_WSJ_DLY
14	CMT_5YR _WKLY_AVG	44	LIBOR_6MO_WSJ_MNTH_AVG
15	CMT_5YR_CUML_AVG_4WKS_WKLY_AVG	45	MM_6MO_COMBANK_WKLY
16	CMT_5YR_MNTH_AVG	46	NTL_AVG_CONT_PREV_OCC
17	CMT_6MO_WKLY_AVG	47	NTL_AVG_EFFECTIVE_RATE
18	CMT_7YR_MNTH	48	PRIME_WSJ_DLY
19	CMT_BLEND_1YR_WKLY_AVG	49	RNY_FRE_30YR_60DAY_DLY
20	COFI_12MO_11THDIST_CUML_AVG	50	TBILL_1YR_DISC_MNTH_AVG
21	COFI_1MO_11THDIST	51	TBILL_1YR_DISC_WKLY_AVG
22	COFI_1MO_7THDIST	52	TBILL_6MO_CUML_AVG_PREV26_WKLY_AVG
23	COFI_1MO_NTL_MNTH_AVG	53	TBILL_6MO_DISC_CUML_AVG_PREV4_WKLY_AVG
24	COFI_6MO_11THDIST	54	TBILL_6MO_DISC_MNTH_AVG
25	COFI_6MO_CA	55	TBILL_6MO_DISC_WKLY
26	COFI_FED_QRTY_AVG	56	TBILL_6MO_INV_CUML_AVG_PREV4_WKLY_AVG
27	COFI_FRE	57	TBILL_6MO_INV_WKLY
28	COS_1MO_WELLSFARGO	58	TBILL_6MO_SEC_WKLY_AVG
29	FRM_CONV_30DAY_POSTED_YLD_AA	555	Mixed Indices
30	FRM_CONV_30DAY_POSTED_YLD_SA		

Revision History					
Date	Version	Action			
6/30/2016	1.0	Enterprise Aligned Loan and Security Level File formats published.			
11/30/2016	1.1	Enterprises' aligned loan and security level file formats were updated to reflect new sort order across the files (detailed updates are noted below). Additional implementation notes added.			
		Version 1.0 Sort Order - Attribute Name	V1.0 Reference ID	Version 1.1 Sort Order - Attribute Name	V1.1 Reference ID
11/30/2016	1.1	Government Insured Guarantee	L-035	Seller Name	L-035
11/30/2016	1.1	Seller Name	L-036	Servicer Name	L-036
11/30/2016	1.1	Servicer Name	L-037	Mortgage Insurance Percent	L-037
11/30/2016	1.1	Mortgage Insurance Percent	L-038	Mortgage Insurance Cancellation Indicator	L-038
11/30/2016	1.1	Mortgage Insurance Cancellation Indicator	L-039	Government Insured Guarantee	L-039
11/30/2016	1.1	Loan Age As Of Modification	L-065	Modification Program	L-065
11/30/2016	1.1	Modification Program	L-066	Modification Type	L-066
11/30/2016	1.1	Modification Type	L-067	Number of Modifications	L-067
11/30/2016	1.1	Number of Modifications	L-068	Total Capitalized Amount	L-068
11/30/2016	1.1	Total Capitalized Amount	L-069	Interest Bearing Mortgage Loan Amount	L-069
11/30/2016	1.1	Interest Bearing Mortgage Loan Amount	L-070	Original Deferred Amount	L-070
11/30/2016	1.1	Original Deferred Amount	L-071	Current Deferred UPB	L-071
11/30/2016	1.1	Current Deferred UPB	L-072	Loan Age As Of Modification	L-072
11/30/2016	1.1	Interest Rate Step Indicator	L-073	Estimated Loan-To-Value (ELTV)	L-073
11/30/2016	1.1	Initial Step Fixed-Rate Period	L-074	Updated Credit Score	L-074
11/30/2016	1.1	Total Number of Steps	L-075	Filler	L-075
11/30/2016	1.1	Number of Remaining Steps	L-076	Interest Rate Step Indicator	L-076
11/30/2016	1.1	Next Step Rate	L-077	Initial Step Fixed-Rate Period	L-077
11/30/2016	1.1	Terminal Step Rate	L-078	Total Number of Steps	L-078
11/30/2016	1.1	Terminal Step Date	L-079	Number of Remaining Steps	L-079
11/30/2016	1.1	Step Rate Adjustment Frequency	L-080	Next Step Rate	L-080
11/30/2016	1.1	Months to Next Step Rate Adjustment Date	L-081	Terminal Step Rate	L-081
11/30/2016	1.1	Next Step Rate Adjustment Date	L-082	Terminal Step Date	L-082
11/30/2016	1.1	Periodic Step Cap Up Percent	L-083	Step Rate Adjustment Frequency	L-083
11/30/2016	1.1	Origination Channel	L-084	Next Step Rate Adjustment Date	L-084
11/30/2016	1.1	Origination Interest Rate	L-085	Months to Next Step Rate Adjustment Date	L-085
11/30/2016	1.1	Origination Mortgage Loan Amount	L-086	Periodic Step Cap Up Percent	L-086

11/30/2016	1.1	Origination Loan Term	L-087	Origination Mortgage Loan Amount	L-087
11/30/2016	1.1	Origination First Payment Date	L-088	Origination Interest Rate	L-088
11/30/2016	1.1	Origination Maturity Date	L-089	Origination Amortization Type	L-089
11/30/2016	1.1	Origination Loan-To-Value (LTV)	L-090	Origination Interest Only Loan Indicator	L-090
11/30/2016	1.1	Origination Combined Loan-To-Value (CLTV)	L-091	Origination First Payment Date	L-091
11/30/2016	1.1	Origination Debt-To-Income Ratio	L-092	Origination Maturity Date	L-092
11/30/2016	1.1	Origination Credit Score	L-093	Origination Loan Term	L-093
11/30/2016	1.1	Filler	L-094	Origination Loan-To-Value (LTV)	L-094
11/30/2016	1.1	Filler	L-095	Origination Combined Loan-To-Value (CLTV)	L-095
11/30/2016	1.1	Filler	L-096	Origination Debt-To-Income Ratio	L-096
11/30/2016	1.1	Origination Loan Purpose	L-097	Origination Credit Score	L-097
11/30/2016	1.1	Origination Occupancy Status	L-098	Filler	L-098
11/30/2016	1.1	Origination Amortization Type	L-099	Filler	L-099
11/30/2016	1.1	Origination Interest Only Loan Indicator	L-100	Filler	L-100
11/30/2016	1.1	Estimated Loan-To-Value (ELTV)	L-101	Origination Loan Purpose	L-101
11/30/2016	1.1	Updated Credit Score	L-102	Origination Occupancy Status	L-102
11/30/2016	1.1	Filler	L-103	Origination Channel	L-103
11/30/2016	1.1	Security Description	S-04	Security Factor Date	S-04
11/30/2016	1.1	Issuer	S-05	Security Factor	S-05
11/30/2016	1.1	Issue Date	S-06	Payment Delay Days	S-06
11/30/2016	1.1	Maturity Date	S-07	Security Data Correction Indicator	S-07
11/30/2016	1.1	Updated Longest Maturity Date	S-08	Security Status Indicator	S-08
11/30/2016	1.1	Issuance Investor Security UPB	S-09	Security Notification Indicator	S-09
11/30/2016	1.1	Current Investor Security UPB	S-10	Security Description	S-10
11/30/2016	1.1	Security Factor	S-11	Issuer	S-11
11/30/2016	1.1	WA Net Interest Rate	S-12	Issue Date	S-12
11/30/2016	1.1	WA Issuance Interest Rate	S-13	Maturity Date	S-13
11/30/2016	1.1	WA Current Interest Rate	S-14	Updated Longest Maturity Date	S-14
11/30/2016	1.1	WA Current Remaining Months to Maturity	S-15	Issuance Investor Security UPB	S-15
11/30/2016	1.1	WA Issuance Remaining Months to Maturity	S-16	Current Investor Security UPB	S-16
11/30/2016	1.1	WA Loan Age	S-17	WA Net Interest Rate	S-17
11/30/2016	1.1	WA Loan Term	S-18	WA Issuance Interest Rate	S-18
11/30/2016	1.1	WA Mortgage Loan Amount	S-19	WA Current Interest Rate	S-19
11/30/2016	1.1	Average Mortgage Loan Amount	S-20	WA Net Accrual Interest Rate	S-20

11/30/2016	1.1	WA Loan-To-Value (LTV)	S-21	WA Loan Term	S-21
11/30/2016	1.1	WA Combined Loan-To-Value (CLTV)	S-22	WA Issuance Remaining Months to Maturity	S-22
11/30/2016	1.1	WA Debt-To-Income (DTI)	S-23	WA Current Remaining Months to Maturity	S-23
11/30/2016	1.1	WA Borrower Credit Score	S-24	WA Loan Age	S-24
11/30/2016	1.1	Filler	S-25	WA Mortgage Loan Amount	S-25
11/30/2016	1.1	Filler	S-26	Average Mortgage Loan Amount	S-26
11/30/2016	1.1	Loan Count	S-27	WA Loan-To-Value (LTV)	S-27
11/30/2016	1.1	Third Party Origination UPB Percent	S-28	WA Combined Loan-To-Value (CLTV)	S-28
11/30/2016	1.1	Seller Name	S-29	WA Debt-To-Income (DTI)	S-29
11/30/2016	1.1	Seller City	S-30	WA Borrower Credit Score	S-30
11/30/2016	1.1	Seller State	S-31	Filler	S-31
11/30/2016	1.1	Servicer Name	S-32	Filler	S-32
11/30/2016	1.1	Servicer City	S-33	Loan Count	S-33
11/30/2016	1.1	Servicer State	S-34	Third Party Origination UPB Percent	S-34
11/30/2016	1.1	Delinquent Loans Purchased (Loan Count)	S-35	Seller Name	S-35
11/30/2016	1.1	Delinquent Loans Purchased (Prior Month UPB)	S-36	Seller City	S-36
11/30/2016	1.1	Security Data Correction Indicator	S-37	Seller State	S-37
11/30/2016	1.1	Security Status Indicator	S-38	Servicer Name	S-38
11/30/2016	1.1	Security Notification Indicator	S-39	Servicer City	S-39
11/30/2016	1.1	Eligible for Resecuritization	S-40	Servicer State	S-40
11/30/2016	1.1	Security Factor Date	S-41	Delinquent Loans Purchased (Prior Month UPB)	S-41
11/30/2016	1.1	Notes	S-42	Delinquent Loans Purchased (Loan Count)	S-42
11/30/2016	1.1	Notes Ongoing	S-43	Eligible for Resecuritization	S-43
11/30/2016	1.1	Payment Delay Days	S-44	Notes	S-44
11/30/2016	1.1	Interest Only Security Indicator	S-45	Notes Ongoing	S-45
11/30/2016	1.1	WA Months to Amortization	S-46	Interest Only Security Indicator	S-46
11/30/2016	1.1	Subtype	S-47	WA Months to Amortization	S-47
11/30/2016	1.1	Index	S-48	Prepayment Penalty Indicator	S-48
11/30/2016	1.1	Initial Fixed Rate Period	S-49	Reduced Minimum Servicing Indicator	S-49
11/30/2016	1.1	First Rate Adjustment Date	S-50	Subtype	S-50
11/30/2016	1.1	First Payment Adjustment Date	S-51	Index	S-51
11/30/2016	1.1	WA Months to Next Rate Adjustment Date	S-52	WA Mortgage Margin	S-52
11/30/2016	1.1	WA Net Accrual Interest Rate	S-53	WA MBS PC Margin	S-53
11/30/2016	1.1	WA Life Interest Rate Ceiling	S-54	Interest Rate Adjustment Frequency	S-54

11/30/2016	1.1	WA Life Interest Rate Floor	S-55	Interest Rate Lookback	S-55
11/30/2016	1.1	WA Net Life Interest Rate Ceiling	S-56	Payment Adjustment Frequency	S-56
11/30/2016	1.1	WA Net Life Interest Rate Floor	S-57	Payment Lookback	S-57
11/30/2016	1.1	WA Mortgage Margin	S-58	Convertibility Indicator	S-58
11/30/2016	1.1	WA MBS PC Margin	S-59	Negative Amortization Indicator	S-59
11/30/2016	1.1	Initial Interest Rate Cap Down %	S-60	Negative Amortization Factor	S-60
11/30/2016	1.1	Initial Interest Rate Cap Up %	S-61	WA Negative Amortization Limit	S-61
11/30/2016	1.1	Periodic Interest Rate Cap Down %	S-62	Initial Fixed Rate Period	S-62
11/30/2016	1.1	Periodic Interest Rate Cap Up %	S-63	First Rate Adjustment Date	S-63
11/30/2016	1.1	Interest Rate Lookback	S-64	First Payment Adjustment Date	S-64
11/30/2016	1.1	Interest Rate Adjustment Frequency	S-65	WA Months to Next Rate Adjustment Date	S-65
11/30/2016	1.1	Payment Lookback	S-66	WA Life Interest Rate Ceiling	S-66
11/30/2016	1.1	Payment Adjustment Frequency	S-67	WA Net Life Interest Rate Ceiling	S-67
11/30/2016	1.1	Negative Amortization Indicator	S-68	WA Life Interest Rate Floor	S-68
11/30/2016	1.1	Negative Amortization Factor	S-69	WA Net Life Interest Rate Floor	S-69
11/30/2016	1.1	WA Negative Amortization Limit	S-70	Initial Interest Rate Cap Up %	S-70
11/30/2016	1.1	Prepayment Penalty Indicator	S-71	Initial Interest Rate Cap Down %	S-71
11/30/2016	1.1	Reduced Minimum Servicing Indicator	S-72	Periodic Interest Rate Cap Up %	S-72
11/30/2016	1.1	Convertibility Indicator	S-73	Periodic Interest Rate Cap Down %	S-73
11/30/2016	1.1	WA Origination Interest Rate	S-74	Initial Step Fixed-Rate Period	S-74
11/30/2016	1.1	WA Origination Loan Term	S-75	Step Rate Adjustment Frequency	S-75
11/30/2016	1.1	WA Origination Mortgage Loan Amount	S-76	Next Step Rate Adjustment Date	S-76
11/30/2016	1.1	Average Origination Mortgage Loan Amount	S-77	WA Months to Next Step Rate Adjustment	S-77
11/30/2016	1.1	WA Origination Loan-To-Value (LTV)	S-78	Periodic Step Rate Cap Up %	S-78
11/30/2016	1.1	WA Origination Combined Loan-To-Value (CLTV)	S-79	WA Origination Mortgage Loan Amount	S-79
11/30/2016	1.1	WA Origination Debt-To-Income (DTI)	S-80	Average Origination Mortgage Loan Amount	S-80
11/30/2016	1.1	WA Origination Credit Score	S-81	WA Origination Interest Rate	S-81
11/30/2016	1.1	Filler	S-82	WA Origination Loan Term	S-82
11/30/2016	1.1	Filler	S-83	WA Origination Loan-To-Value (LTV)	S-83
11/30/2016	1.1	Origination Third Party Origination UPB Percent	S-84	WA Origination Combined Loan-To-Value (CLTV)	S-84
11/30/2016	1.1	Initial Step Fixed-Rate Period	S-85	WA Origination Debt-To-Income (DTI)	S-85
11/30/2016	1.1	Step Rate Adjustment Frequency	S-86	WA Origination Credit Score	S-86
11/30/2016	1.1	Next Step Rate Adjustment Date	S-87	Filler	S-87
11/30/2016	1.1	WA Months to Next Step Rate Adjustment	S-88	Filler	S-88

11/30/2016	1.1	Periodic Step Rate Cap Up %	S-89	Origination Third Party Origination UPB Percent	S-89
11/30/2016	1.1	WA Estimated Loan-To-Value (ELTV)	S-90	WA Estimated Loan-To-Value (ELTV)	S-90
11/30/2016	1.1	WA Updated Credit Score	S-91	WA Updated Credit Score	S-91
11/30/2016	1.1	Net Interest Rate - Current	SS-008	Current Net Interest Rate	SS-008
11/30/2016	1.1	WA Months to Amortization	SS-236	Aggregate Investor Loan UPB	SS-236
11/30/2016	1.1	Aggregate Investor Loan UPB	SS-237	Percentage Investor Loan UPB	SS-237
11/30/2016	1.1	Percentage Investor Loan UPB	SS-238	Aggregate Loan Count	SS-238
11/30/2016	1.1	Aggregate Loan Count	SS-239	Percentage Loan Count	SS-239
11/30/2016	1.1	Percentage Loan Count	SS-240	Minimum Loan Age	SS-240
11/30/2016	1.1	Minimum Loan Age	SS-241	Maximum Loan Age	SS-241
11/30/2016	1.1	Maximum Loan Age	SS-242	Minimum Interest Rate	SS-242
11/30/2016	1.1	Minimum Interest Rate	SS-243	Maximum Interest Rate	SS-243
11/30/2016	1.1	Maximum Interest Rate	SS-244	Minimum Remaining Months to Maturity	SS-244
11/30/2016	1.1	Minimum Remaining Months to Maturity	SS-245	Maximum Remaining Months to Maturity	SS-245
11/30/2016	1.1	Maximum Remaining Months to Maturity	SS-246	WA Loan Age	SS-246
11/30/2016	1.1	WA Loan Age	SS-247	WA Interest Rate	SS-247
11/30/2016	1.1	WA Interest Rate	SS-248	WA Remaining Months to Maturity	SS-248
11/30/2016	1.1	WA Remaining Months to Maturity	SS-249	WA Months to Amortization	SS-249
11/30/2016	1.1	Deferred Unpaid Principal Balance	SS-325	Deferred UPB Type	SS-325
11/30/2016	1.1	Filler	SS-358	Prefix	SS-358
11/30/2016	1.1	Filler	SS-359	Security Identifier	SS-359
11/30/2016	1.1	Filler	SS-360	CUSIP	SS-360
11/30/2016	1.1	Filler	SS-361	Aggregate Investor Loan UPB	SS-361
11/30/2016	1.1	Filler	SS-362	Percentage Investor Loan UPB	SS-362
11/30/2016	1.1	Filler	SS-363	Aggregate Loan Count	SS-363
11/30/2016	1.1	Filler	SS-364	Percentage Loan Count	SS-364
11/30/2016	1.1	Filler	SS-365	Record Type = 33	SS-365
11/30/2016	1.1	Record Type = 33	SS-366	Prefix	SS-366
11/30/2016	1.1	Prefix	SS-367	Security Identifier	SS-367
11/30/2016	1.1	Security Identifier	SS-368	CUSIP	SS-368
11/30/2016	1.1	CUSIP	SS-369	Number of Remaining Steps	SS-369
11/30/2016	1.1	Number of Remaining Steps	SS-370	Aggregate Investor Loan UPB	SS-370
11/30/2016	1.1	Aggregate Investor Loan UPB	SS-371	Percentage Investor Loan UPB	SS-371
11/30/2016	1.1	Percentage Investor Loan UPB	SS-372	Aggregate Loan Count	SS-372

11/30/2016	1.1	Aggregate Loan Count	SS-373	Percentage Loan Count	SS-373
11/30/2016	1.1	Percentage Loan Count	SS-374	Record Type = 34	SS-374
11/30/2016	1.1	Record Type = 34	SS-375	Prefix	SS-375
11/30/2016	1.1	Prefix	SS-376	Security Identifier	SS-376
11/30/2016	1.1	Security Identifier	SS-377	CUSIP	SS-377
11/30/2016	1.1	CUSIP	SS-378	Number of Steps - At Modification	SS-378
11/30/2016	1.1	Number of Steps - At Modification	SS-379	Aggregate Investor Loan UPB	SS-379
11/30/2016	1.1	Aggregate Investor Loan UPB	SS-380	Percentage Investor Loan UPB	SS-380
11/30/2016	1.1	Percentage Investor Loan UPB	SS-381	Aggregate Loan Count	SS-381
11/30/2016	1.1	Aggregate Loan Count	SS-382	Percentage Loan Count	SS-382
11/30/2016	1.1	Percentage Loan Count	SS-383	Record Type = 35	SS-383
11/30/2016	1.1	Record Type = 35	SS-384	Prefix	SS-384
11/30/2016	1.1	Prefix	SS-385	Security Identifier	SS-385
11/30/2016	1.1	Security Identifier	SS-386	CUSIP	SS-386
11/30/2016	1.1	CUSIP	SS-387	Next Step Rate Adjustment Date	SS-387
11/30/2016	1.1	Next Step Rate Adjustment Date	SS-388	Projected WA Interest Rate	SS-388
11/30/2016	1.1	Projected WA Interest Rate	SS-389	Projected WA Net Interest Rate	SS-389
11/30/2016	1.1	Projected WA Net Interest Rate	SS-390	Aggregate Investor Loan UPB	SS-390
11/30/2016	1.1	Aggregate Investor Loan UPB	SS-391	Percentage Investor Loan UPB	SS-391
11/30/2016	1.1	Percentage Investor Loan UPB	SS-392	Aggregate Loan Count	SS-392
11/30/2016	1.1	Aggregate Loan Count	SS-393	Percentage Loan Count	SS-393
11/30/2016	1.1	Percentage Loan Count	SS-394	Record Type = 36	SS-394
11/30/2016	1.1	Record Type = 36	SS-395	Prefix	SS-395
11/30/2016	1.1	Prefix	SS-396	Security Identifier	SS-396
11/30/2016	1.1	Security Identifier	SS-397	CUSIP	SS-397
11/30/2016	1.1	CUSIP	SS-398	Aggregate Investor Loan UPB	SS-398
11/30/2016	1.1	Aggregate Investor Loan UPB	SS-399	Percentage Investor Loan UPB	SS-399
11/30/2016	1.1	Percentage Investor Loan UPB	SS-400	Aggregate Loan Count	SS-400
11/30/2016	1.1	Aggregate Loan Count	SS-401	Percentage Loan Count	SS-401
11/30/2016	1.1	Percentage Loan Count	SS-402	Record Type = 37	SS-402
11/30/2016	1.1	Record Type = 37	SS-403	Prefix	SS-403
11/30/2016	1.1	Prefix	SS-404	Security Identifier	SS-404
11/30/2016	1.1	Security Identifier	SS-405	CUSIP	SS-405
11/30/2016	1.1	CUSIP	SS-406	Aggregate Investor Loan UPB	SS-406

11/30/2016	1.1	Aggregate Investor Loan UPB	SS-407	Percentage Investor Loan UPB	SS-407
11/30/2016	1.1	Percentage Investor Loan UPB	SS-408	Aggregate Loan Count	SS-408
11/30/2016	1.1	Aggregate Loan Count	SS-409	Percentage Loan Count	SS-409
11/30/2016	1.1	Percentage Loan Count	SS-410	Record Type = 38	SS-410
11/30/2016	1.1	Record Type = 38	SS-411	Prefix	SS-411
11/30/2016	1.1	Prefix	SS-412	Security Identifier	SS-412
11/30/2016	1.1	Security Identifier	SS-413	CUSIP	SS-413
11/30/2016	1.1	CUSIP	SS-414	Aggregate Investor Loan UPB	SS-414
11/30/2016	1.1	Aggregate Investor Loan UPB	SS-415	Percentage Investor Loan UPB	SS-415
11/30/2016	1.1	Percentage Investor Loan UPB	SS-416	Aggregate Loan Count	SS-416
11/30/2016	1.1	Aggregate Loan Count	SS-417	Percentage Loan Count	SS-417
11/30/2016	1.1	Percentage Loan Count	SS-418	Record Type = 39	SS-418
11/30/2016	1.1	Record Type = 39	SS-419	Prefix	SS-419
11/30/2016	1.1	Filler	SS-420	Security Identifier	SS-420
11/30/2016	1.1	Filler	SS-421	CUSIP	SS-421
11/30/2016	1.1	Filler	SS-422	Aggregate Investor Loan UPB	SS-422
11/30/2016	1.1	Filler	SS-423	Percentage Investor Loan UPB	SS-423
11/30/2016	1.1	Filler	SS-424	Aggregate Loan Count	SS-424
11/30/2016	1.1	Filler	SS-425	Percentage Loan Count	SS-425
11/30/2016	1.1	Filler	SS-426	Record Type = 40	SS-426
11/30/2016	1.1	Filler	SS-427	Prefix	SS-427
11/30/2016	1.1	Record Type = 40	SS-428	Security Identifier	SS-428
11/30/2016	1.1	Prefix	SS-429	CUSIP	SS-429
11/30/2016	1.1	Security Identifier	SS-430	Origination Loan Purpose Stratification	SS-430
11/30/2016	1.1	CUSIP	SS-431	Aggregate Investor Loan UPB	SS-431
11/30/2016	1.1	Origination Loan Purpose Stratification	SS-432	Percentage Investor Loan UPB	SS-432
11/30/2016	1.1	Aggregate Investor Loan UPB	SS-433	Aggregate Loan Count	SS-433
11/30/2016	1.1	Percentage Investor Loan UPB	SS-434	Percentage Loan Count	SS-434
11/30/2016	1.1	Aggregate Loan Count	SS-435	Record Type = 41	SS-435
11/30/2016	1.1	Percentage Loan Count	SS-436	Prefix	SS-436
11/30/2016	1.1	Record Type = 41	SS-437	Security Identifier	SS-437
11/30/2016	1.1	Prefix	SS-438	CUSIP	SS-438
11/30/2016	1.1	Security Identifier	SS-439	Origination Occupancy Status	SS-439
11/30/2016	1.1	CUSIP	SS-440	Aggregate Investor Loan UPB	SS-440

11/30/2016	1.1	Origination Occupancy Status	SS-441	Percentage Investor Loan UPB	SS-441
11/30/2016	1.1	Aggregate Investor Loan UPB	SS-442	Aggregate Loan Count	SS-442
11/30/2016	1.1	Percentage Investor Loan UPB	SS-443	Percentage Loan Count	SS-443
11/30/2016	1.1	Aggregate Loan Count	SS-444	Record Type = 42	SS-444
11/30/2016	1.1	Percentage Loan Count	SS-445	Prefix	SS-445
11/30/2016	1.1	Record Type = 42	SS-446	Security Identifier	SS-446
11/30/2016	1.1	Prefix	SS-447	CUSIP	SS-447
11/30/2016	1.1	Security Identifier	SS-448	Days Delinquent	SS-448
11/30/2016	1.1	CUSIP	SS-449	Borrower Payment Date	SS-449
11/30/2016	1.1	Days Delinquent	SS-450	Aggregate Investor Loan UPB	SS-450
11/30/2016	1.1	Borrower Payment Date	SS-451	Percentage Investor Loan UPB	SS-451
11/30/2016	1.1	Aggregate Investor Loan UPB	SS-452	Aggregate Loan Count	SS-452
11/30/2016	1.1	Percentage Investor Loan UPB	SS-453	Percentage Loan Count	SS-453
11/30/2016	1.1	Aggregate Loan Count	SS-454	Record Type = 43	SS-454
11/30/2016	1.1	Percentage Loan Count	SS-455	Prefix	SS-455
11/30/2016	1.1	Record Type = 43	SS-456	Security Identifier	SS-456
11/30/2016	1.1	Prefix	SS-457	CUSIP	SS-457
11/30/2016	1.1	Security Identifier	SS-458	Collateral Prefix	SS-458
11/30/2016	1.1	CUSIP	SS-459	Collateral Security Identifier	SS-459
11/30/2016	1.1	Collateral Security Identifier	SS-460	Collateral CUSIP	SS-460
11/30/2016	1.1	Collateral CUSIP	SS-461	Collateral Current WA Net Interest Rate	SS-461
11/30/2016	1.1	Collateral WA Net Interest Rate - Current	SS-462	Collateral Issue Date	SS-462
11/30/2016	1.1	Collateral Issue Date	SS-463	Collateral Issuer	SS-463
11/30/2016	1.1	Collateral Issuer	SS-464	Collateral Maturity Date	SS-464
11/30/2016	1.1	Collateral Maturity Date	SS-465	Collateral Issuance Investor Security UPB	SS-465
11/30/2016	1.1	Collateral Investor Security UPB - Issuance	SS-466	Collateral Issuance Contributing Investor Security UPB	SS-466
11/30/2016	1.1	Collateral Contributing Investor Security UPB - Issuance	SS-467	Collateral Current Contributing Investor Security UPB	SS-467
11/30/2016	1.1	Collateral Contributing Investor Security UPB - Current	SS-468	Collateral WA Interest Rate at Settlement	SS-468
11/30/2016	1.1	Collateral WA Interest Rate at Settlement	SS-469	Collateral WA Remaining Months to Maturity at Settlement	SS-469
11/30/2016	1.1	Collateral WA Remaining Months to Maturity at	SS-470	Collateral WA Loan Age at Settlement	SS-470

11/30/2016	1.1	Collateral WA Loan Age at Settlement	SS-471	Collateral Trust Identifier	SS-471
11/30/2016	1.1	Trust Identifier	SS-472	Collateral Class Identifier	SS-472
11/30/2016	1.1	Class Identifier	SS-473	Group Identifier	SS-473
11/30/2016	1.1	Group Identifier	SS-474		