![Fannie Mae logo]

Draft DUS Disclose™ Attribute Glossary

The attributes defined below can be found in the Advanced Search Download MBS or Mega Results and the Daily and Monthly DUS Disclose Files. The attributes are arranged by Security, Loan, Property and Credit Facility categories. If the attributes are common between the two datasets we have captured both names. If an attribute appears in only one of the locations it will only have one attribute name listed in the column with the location name.

Advanced Search Download Results Attribute Name	DUS Disclose Files Attribute Name	DUS Disclose Definition	DUS Disclose Definition Notes	Allowable Values
Security				
Additional Disclosure Indicator	Additional Disclosure Indicator	Indicates if the MBS has additional disclosure describing any non-standard terms and/or characteristics.		
Security ARM Index	ARM Index	For an adjustable-rate mortgage security, the index on which an adjustable interest rate is based.	The index is generally a published percent, such as the average interest rate or yield on U.S. Treasury bills. Also, in New Issuance Files Mega Relationships Record Type.	
Security ARM Subtype	ARM Subtype	For an adjustable-rate mortgage security, the alphanumeric code that identifies the ARM product characteristics.	Characteristics include index, initial fixed-rate period, rate and payment adjustment frequencies and caps, convertibility, and other features. Also, in New Issuance Files Mega Relationships Record Type.	
Security Convertible		Indicates if loans in the security can convert from adjustable-rate to fixed rate.		

Advanced Search Download Results Attribute Name	DUS Disclose Files Attribute Name	DUS Disclose Definition	DUS Disclose Definition Notes	Allowable Values
Security Cumulative Prepayment Allocation ($)	Cumulative Yield Maintenance Allocation	The aggregate yield maintenance and prepayment premium amounts paid to investors since the inception of the Trust.		
Security CUSIP	CUSIP	The identifier, assigned by the Committee on Uniform Securities Identification Procedures, to the security upon the issuance of a security.	This security identifier is assigned to each security, but not to individual loans.	
Security Dissolved Date	Dissolved Date	The date on which a security issued by Fannie Mae is dissolved.		
Security Factor		The current balance of the security expressed as a percentage of the original face amount.		
Security First Payment Date	First Payment Date	The date on which the first distribution of interest and, if required, principal is made investors in the security.		
Security First Scheduled Payment Change Date In Trust		For an adjustable-rate mortgage security, the first payment change for all the mortgage loans in the security since the inception of the Trust.		
Security Interest Type	Interest Type	Indicates the interest type of a security.		● Adjustable ● Adjustable Hybrid ● Fixed ● Step ● Other
Security Issue Date	Issue Date	The first day of the month in which the security was issued.	A security settles on the book entry date (settlement date) which may not be the issue date.	

Advanced Search Download Results Attribute Name	DUS Disclose Files Attribute Name	DUS Disclose Definition	DUS Disclose Definition Notes	Allowable Values
			Also, in New Issuance Files Mega Relationships Record Type.	
Security Look Back Period		For an adjustable -rate mortgage security, the number of days prior to a rate change date used to determine the appropriate index rate for the underlying collateral.		
Security Maturity Date	Maturity Date	At securitization, the last date on which an investor could receive a payment.	The maturity date of the security is the latest maturity date for any of the underlying mortgage loans. Also, in New Issuance Files Mega Relationships Record Type.	
Security Maximum Loan Issuance UPB ($)	Maximum Loan Issuance UPB	At securitization, the highest cut-off date balance of all active loans in a security.		
Security Maximum Loan PTR (%)	Maximum Loan Pass-Through Rate	At securitization, the highest pass-through rate of any of the mortgage loans in the security.		
Security Minimum Loan Issuance UPB ($)	Minimum Loan Issuance UPB	At securitization, the lowest cut-off date balance of all active loans in a security.		
Security Minimum Loan PTR (%)	Minimum Loan Pass-Through Rate	At securitization, the lowest pass-through rate of any of the mortgage loans in the security.		
Security Next Distribution Date	Next Distribution Date	The next payment date on which funds will be distributed to certificate holders.		
Security Next Rate Change Date	Next Rate Change Date	For an adjustable-rate security, the next date that the interest rate is scheduled to change.	Also, in New Issuance Files Mega Relationships Record Type.	

Advanced Search Download Results Attribute Name	DUS Disclose Files Attribute Name	DUS Disclose Definition	DUS Disclose Definition Notes	Allowable Values
Security Number of Loans - Current	Ending Current Period Loan Count	The total number of active loans in a mortgage backed security at the end of the current reporting period.	In New Issuance Files Mega Relationships Record Type and has attribute name of Number of Loans.	
Security Number of Loans - Issuance	Number of Loans (Issuance Files) Original Loan Count (Ongoing file)	At securitization, the number of mortgage loans in the pool.		
Security Number of Prepaid Loans	Prepaid Loans - Number	The total number of mortgage loans in a security that have either fully or partially prepaid.		
Security Number of Properties - Current	Number of Properties	The current number of properties that serve as collateral for the mortgage loan.	This field will be zero for fully defeased loans.	
Security Number of Properties - Issuance		At securitization, the number of properties which serve as mortgage collateral.		
Security Paying PTR (%) - Current	Remittance Rate / Pass Through Rate	The weighted average of the pass-through rates for all the loans in the security in the current period paid to investors.	In New Issuance Files Mega Relationships Record Type and has attribute name of WA Pass-Through Rate. The weight for the calculation is the Unpaid Principal Balance amount of each loan at issuance.	
Security Paying PTR (%) - Issuance	Paying PTR - Issuance	At securitization, the weighted average of the pass-through rates for all the loans in the security paid to investors.	The weight for the calculation is the Unpaid Principal Balance amount of each loan at issuance.	
Security Payment Reset Frequency	Payment Reset Frequency	For an adjustable-rate mortgage security, the payment adjustment	The payment adjustment frequency is the number of months between scheduled payment changes. For a	

Advanced Search Download Results Attribute Name	DUS Disclose Files Attribute Name	DUS Disclose Definition	DUS Disclose Definition Notes	Allowable Values
		frequency for all the mortgage loans in the security.	loan with an initial fixed-rate period, the payment adjustment frequency is the number of months between subsequent payment changes.	
Security Periodic Payment Change (%)	Periodic Payment Change - Current	For an adjustable-rate mortgage security, the maximum percentage increase or decrease of the principal and interest payment that can occur in the next payment adjustment for a security.		
Security Periodic Rate Change (%)	Periodic Rate Change - Current	For an adjustable-rate mortgage security, the maximum percentage that the interest rate can increase or decrease from the previous rate on the subsequent rate change for the underlying loans.		
Security Prefix	Prefix	Indicates the type of mortgage loans and the basic terms of the security.	Also, in New Issuance Files Mega Relationships Record Type.	
Security Prepaid Loans Principal Amount ($)	Prepaid loans - principal	The sum of the prepaid principal amount for all mortgage loans in a security.		
Security Prepayment Allocation ($)	Yield Maintenance Allocation	The amount of prepayment premiums or yield maintenance paid to a security in the current period.		
Security Prepayment Latest End Date		The last prepayment end date of all the loans in the security	For Yield Maintenance (YM) this is the YM End Date; for Declining Premium (DP) this is the 1% End Date; for Defeasance (Def) this is the Defeasance End Date.	

Advanced Search Download Results Attribute Name	DUS Disclose Files Attribute Name	DUS Disclose Definition	DUS Disclose Definition Notes	Allowable Values
Security Prepayment Type		The type of prepayment premium in place with the longest term for a specified period during the mortgage loan term.	If there are multiple prepayment types in a security, the predominant type will be displayed	
Security Product Type		Indicates a Fannie Mae Multifamily product.		● DUS ● Non-DUS ● Credit Facility ● Bulk Delivery ● Negotiated Transaction
Security Rate Reset Frequency	Rate Reset Frequency	For an adjustable-rate mortgage security, the rate adjustment frequency for all the mortgage loans in the security.		
Security Resecuritization	Resecuritization	Indicates if a specific security is eligible to be resecuritized.		● Eligible ● Ineligible
Security Resecuritized Date		The issue date of the resecuritization in which the original security was placed.	If multiple resecuritization dates 9/99/9999 is displayed	
Security Seasoning - Current	WA Seasoning - Current	The weighted average number of months since origination of all mortgage loans in a security.	The weight for the calculation is the Unpaid Principal Balance amount of each loan at issuance. Also, in New Issuance Files Mega Relationships Record Type.	
Security Seasoning - Issuance	WA Seasoning - Issuance	At securitization, the weighted average number of months since origination of all mortgage loans in a security.	The weight for the calculation is the Unpaid Principal Balance amount of each loan at issuance.	
Security Settlement Date	Settlement Date	The date on which the security is settled and the mortgage loan(s) are delivered into the Trust.		

Advanced Search Download Results Attribute Name	DUS Disclose Files Attribute Name	DUS Disclose Definition	DUS Disclose Definition Notes	Allowable Values
Security Status	Status	Indicates the current status of the security.		● Active ● Dissolved ● Collapsed ● Terminated
Security Terminated Date	Terminated Date	The date when the security was liquidated.	The final payment of principal and/or interest will be made to the security holders on the 25th of month	
Security Total Interest Distribution ($)	Total Interest Distribution	The total interest payment made to investors in the period.		
Security Total Principal Distribution ($)	Total Principal Distribution	The total principal payment made to investors in the period.		
Security Transaction ID	Transaction ID	An identifier assigned to the transaction, which could be a security identifier or a name as applicable.		
Security Type	Security Type	Indicates the type of security.		● MBS ● Mega ● REMIC ● DMBS
Security UPB ($) - Current	Bond Ending Balance	The balance amount of a security after allocations of principal and/or realized losses as reported at the end of a period.		
Security UPB ($) - Issuance	Issuance UPB (Issuance Files) Original Note Amount (Ongoing file)	At securitization, the total amount of securitized and pari passu mortgage debt securing the property.	In New Issuance Files Mega Relationships Record Type and has attribute name of Original Balance.	
Security WA Accruing Note Rate (%) - Current	WA Accruing Note Rate - Current (Ongoing Supplemental File)	The weighted average of the accruing interest rates on all mortgage loans in a security	The weight for the calculation is the Scheduled Unpaid Principal Balance amount of each loan.	

Advanced Search Download Results Attribute Name	DUS Disclose Files Attribute Name	DUS Disclose Definition	DUS Disclose Definition Notes	Allowable Values
	Calculated WAC (Monthly Ongoing File - Collateral Summary Level)		In New Issuance Files Mega Relationships Record Type and has attribute name of WA Accruing Note Rate – Current.	
Security WA Accruing Note Rate (%) - Issuance	WA Accruing Note Rate - Issuance	At securitization, the weighted average of the accruing interest rates on all the mortgage loans in a security.	The weight for the calculation is the Scheduled Unpaid Principal Balance amount of each loan.	
Security WA Accruing PTR (%) - Current		The weighted average accruing pass-through rates of all mortgage loans in a security.	The weight for the calculation is the Scheduled Unpaid Principal Balance amount of each loan.	
Security WA Amortization Term	Amortization WAM	The weighted average of the original amortization terms for all mortgage loans in the security.	The weight for the calculation is the Scheduled Unpaid Principal Balance amount of each loan in the current period.	
Security WA Issuance UPB ($)	WA Issuance UPB	At securitization, the weighted average of the unpaid principal balance amounts for all the mortgage loans in the security.		
Security WA Lifetime PTR Cap (%) - Current	WA Lifetime PTR Cap - Current	The weighted average of the lifetime pass through rate caps for all mortgage loans within a security.	The weight for the calculation is the Scheduled Unpaid Principal Balance amount of each loan.	
Security WA Lifetime PTR Floor (%) - Current	WA Lifetime PTR Floor - Current	The weighted average of the lifetime pass through rate floors for all mortgage loans within a security.	The weight for the calculation is the Scheduled Unpaid Principal Balance amount of each loan.	
Security WA Loan Margin Rate (%) - At Issuance	WA Loan Margin Rate – At Issuance	At securitization, the weighted average of the loan margins for all mortgage loans in the security.	The weight for the calculation is the Scheduled Unpaid Principal Balance amount of each loan at issuance.	

Advanced Search Download Results Attribute Name	DUS Disclose Files Attribute Name	DUS Disclose Definition	DUS Disclose Definition Notes	Allowable Values
Security WA Loan Margin Rate (%) - Current	WA Loan Margin Rate - Current	The current weighted average of the loan margins for all mortgage loans in the security.	The weight for the calculation is the Scheduled Unpaid Principal Balance amount of each loan at issuance.	
Security WA LTV (%) - Issuance	WA Issuance LTV	At securitization, the weighted average of the LTVs for all the mortgage loans which serve as collateral.	The weight for the calculation is the Scheduled Unpaid Principal Balance amount of each loan at issuance.\n\nAlso, in New Issuance Files Mega Relationships Record Type.\n\nAt securitization, WA Amortization Term for Converted Megas issued prior to April 30, 2018 will not be populated on DUS Disclose.	
Security WA MBS Margin (%) - Current	WA MBS Margin - Current	The weighted average of the net margins for all mortgage loans in security.	The weight for the calculation is the Scheduled Unpaid Principal Balance amount of each loan.\n\nAlso, in New Issuance Files Mega Relationships Record Type.	
Security WA Months to Rate Change - At Issuance		At securitization, the weighted average number of months until the next rate change date for each mortgage loan remaining in the security.	For loans that have experienced their final rate change, this value will include the number of months until the loan is due to mature.\n\nThe weight for the calculation is the Unpaid Principal Balance amount of each loan at issuance.	
Security WA NCF DSCR (x) - Current	WA NCF DSCR - Current	The weighted average of the current Net Cash Flow (NCF) Debt Service Coverage Ratio (DSCR) for all mortgage loans in the security.	The weight for the calculation is the Scheduled Unpaid Principal Balance amount of each loan.	

Advanced Search Download Results Attribute Name	DUS Disclose Files Attribute Name	DUS Disclose Definition	DUS Disclose Definition Notes	Allowable Values
			Also, in New Issuance Files Mega Relationships Record Type.	
Security WA NCF DSCR (x) - Issuance	WA NCF DSCR - Issuance	At securitization, the weighted average of the current Net Cash Flow (NCF) Debt Service Coverage Ratio (DSCR) for all mortgage loans in the security.	The weight for the calculation is the Scheduled Unpaid Principal Balance amount of each loan.	
Security WA Note Rate Cap (%) - Current	WA Note Rate Cap - Current	The weighted average of the note rate caps for all mortgage loans in a security.	The weight for the calculation is the Scheduled Unpaid Principal Balance amount of each loan.	
Security WA Note Rate Floor (%) - Current	WA Note Rate Floor - Current	The weighted average of the note rate floors for all mortgage loans in a security.	The weight for the calculation is the Scheduled Unpaid Principal Balance amount of each loan.	
Security WA Original I/O Term	WA Original I/O Term	At securitization, the weighted average of the original Interest Only terms for all mortgage loans in the security.	The weight for the calculation is the Scheduled Unpaid Principal Balance amount of each loan.	
Security WA Original Term - Current	WA Original Term - Current	The weighted average of the original terms for all the mortgage loans in a security.	The weight for the calculation is the Scheduled Unpaid Principal Balance amount of each loan.

Beginning May 1, 2018, WA Original Term-Current will not be available for newly issued Megas, but will be available on an ongoing basis. | |
| Security WA Original Term - Issuance | WA Original Term - Issuance | At securitization, the weighted average of the original term for all the mortgage loans in a security. | The weight for the calculation is the Scheduled Unpaid Principal Balance amount of each loan at issuance.

Also, in New Issuance Files Mega Relationships Record Type. | |

Advanced Search Download Results Attribute Name	DUS Disclose Files Attribute Name	DUS Disclose Definition	DUS Disclose Definition Notes	Allowable Values
Security WA Prepayment Term		The weighted average of the original prepayment terms for all the mortgage loans in the security.	The weight for the calculation is the Scheduled Unpaid Principal Balance amount of each loan. For Yield Maintenance (YM) the term ends on the YM End Date; for Declining Premium (DP) the term ends on the 1% end date; for Defeasance (Def) the term end on the Def End Date.	
Security WA Remaining Term - Current	WA Remaining Term – Current (Ongoing Supplemental File) Maturity WAM (Collateral Record Type)	The weighted average of the remaining months to maturity for all the mortgage loans in the security.	The weight for the calculation is the Scheduled Unpaid Principal Balance amount of each loan in the current period. Also, in New Issuance Files Mega Relationships Record Type.	
Security WA Remaining Term - Issuance	WA Remaining Term - Issuance	At securitization, the weighted average of the remaining loan term of all the mortgage loans in the security.	The weight for the calculation is the Scheduled Unpaid Principal Balance amount of each loan at issuance.	
Loan				
Issuance DSCR (x) (Pre-DUS Disclose)		The DSCR generally disclosed for pools issued prior to DUS Disclose implementation on December 4, 2017.		
Loan 2nd Preceding Year DSCR (x)	Second Preceding Fiscal Year DSCR (NCF) (Loan Record Type)	For all properties underlying the mortgage loans, the ratio of total net cash flow (NCF) to total debt service from the first consecutive year-end operating statements		

Advanced Search Download Results Attribute Name	DUS Disclose Files Attribute Name	DUS Disclose Definition	DUS Disclose Definition Notes	Allowable Values
		prior to the preceding fiscal year-end property operating statements.		
Loan 3rd Preceding Year DSCR (x)		For all properties underlying the mortgage loans, the ratio of total net cash flow (NCF) to total debt service from the second consecutive year-end operating statements prior to the preceding fiscal year-end property operating statements.		
Loan Accrual Method	Interest Accrual Method (Loan Record Type)	Indicates the number of days convention used to calculate interest on a loan during a monthly pay period.		● 30/360 ● Actual/365 ● Actual/360 ● Actual/366
Loan Additional Debt Balance ($)	Additional Debt UPB ($)	The unpaid principal balance associated with a specific type of additional debt associated with the subject mortgage loan.		
Loan Additional Debt Lien Priority	Additional Debt Lien Priority	The priority of the lien, if applicable, with a specific type of additional debt associated with the subject mortgage loan.		● First ● Second ● Third ● Fourth or More Subordinate
Loan Additional Debt Maturity Date	Additional Debt Maturity Date	For an instrument of additional debt, the due date for final payment.	May be a Fannie Mae mortgage loan or third party subordinate lien.	
Loan Additional Debt Maximum Monthly Payment ($)	Additional Debt Maximum Monthly Payment	For an instrument of additional debt, the highest monthly payment for the mortgage loan.	May be a Fannie Mae mortgage loan or third party subordinate lien.	
Loan Additional Debt Monthly Payment ($)	Additional Debt Monthly Payment Amount	For an instrument of additional debt, the dollar amount of the monthly debt service, if applicable,		

Advanced Search Download Results Attribute Name	DUS Disclose Files Attribute Name	DUS Disclose Definition	DUS Disclose Definition Notes	Allowable Values
		for the specific type of additional debt associated with the subject mortgage loan.		
Loan Additional Debt Pool Number & Loan Number	Additional Debt Transaction ID & Loan Number	The combination of the pool number followed by the Fannie Mae loan number associated with the additional debt.	Only populated when the additional debt is a Fannie Mae mortgage loan. If more than one additional debt then "Multiple" will show.	
Loan Additional Debt Type	Additional Debt Type (Additional Loan Record Type)	Indicates the type of additional debt associated with the subject mortgage loan.		● Line of Credit ● Mezzanine Debt ● Third Party Subordinate Lien ● Fannie Mae Mortgage Loan ● Preferred Equity
Loan All-In At-Issuance LTV (%)	All-In Issuance LTV	At securitization, the ratio of the actual unpaid principal balance (UPB) of the mortgage loan and all other debt, including securitized debt, pari passu debt, additional debt, Mezzanine debt (inclusive of 3rd party Mezzanine debt) to the combined value of all underlying properties, expressed as a percentage.		
Loan All-In Current NCF DSCR (x)		The ratio of the current annualized Net Cash Flow (NCF) of a mortgaged property to the annualized principal and interest payments and payments on Mezzanine debt and/or preferred equity (inclusive of 3rd party Mezzanine debt) and debt service on pari passu debt, other Fannie Mae mortgage loan	This field will be null for any loan that does not have Mezzanine debt or preferred equity.	

Advanced Search Download Results Attribute Name	DUS Disclose Files Attribute Name	DUS Disclose Definition	DUS Disclose Definition Notes	Allowable Values
		debt, and subordinate third party debt , if applicable.		
Loan All-In UW NCF DSCR (x)	UW NCF DSCR All-In (x)	The ratio of the underwritten annualized Net Cash Flow (NCF) of a mortgaged property to the annualized principal and interest payments (for Amortizing and Partial Interest Only include Principal & Interest payments or for Full Interest Only include Interest payments) and payments on Mezzanine debt (inclusive of 3rd party Mezzanine debt) and debt service on pari passu debt, other Fannie Mae mortgage loan debt, and subordinate third party debt, if applicable.	This field will be null for any loan that does not have Mezzanine debt.	
Loan Amortization Term	Original Amortization Term (months)	The number of months over which the mortgage loan's unpaid principal balance is scheduled to be amortized, as determined at the origination date.	For fully amortizing mortgage loans, the amortization term is equal to the mortgage loan term. For balloon loans, the amortization term is longer than the mortgage loan term, requiring a balloon principal payment at loan maturity. If the mortgage loan requires interest-only (IO) payments for the entire term prior to the mortgage loan's Maturity Date, the Amortization Term is "0".	
Loan Amortization Type	Amortization Type	Indicates the type of amortization scheduled over the mortgage loan term.		● Fully Amortizing ● Amortizing Balloon ● Interest Only/Balloon

Advanced Search Download Results Attribute Name	DUS Disclose Files Attribute Name	DUS Disclose Definition	DUS Disclose Definition Notes	Allowable Values
				● Interest Only/Amortizing/Balloon ● Interest Only/Fully Amortizing
Loan ARM Index	ARM Index	For an adjustable-rate mortgage loan, the index on which an adjustable interest rate is based.		
Loan ARM Margin (%)	ARM Margin (%)	For an adjustable-rate mortgage loan, the rate added to the index that determines the interest rate.		
Loan At-Issuance LTV (%)	Issuance LTV	At securitization, the ratio of the actual unpaid principal balance of the mortgage loan (plus prior liens if supplemental) to the combined value of all underlying properties.		
Loan Balance per Unit ($)		At securitization for a mortgage loan, the cut-off date balance, divided by the number of units in the underlying properties.		
Loan Conversion Eligibility End Date	Conversion Eligibility End Date	For an adjustable-rate mortgage loan with a convertible option, the last day on which a borrower may convert the interest rate on the mortgage loan from an adjustable-rate to a fixed-rate.		
Loan Conversion Eligibility Start Date	Conversion Eligibility Start Date	For an adjustable-rate mortgage loan with a convertible option, the first day on which a borrower may convert the interest rate on the mortgage loan from an adjustable-rate to a fixed rate.		

Advanced Search Download Results Attribute Name	DUS Disclose Files Attribute Name	DUS Disclose Definition	DUS Disclose Definition Notes	Allowable Values
Loan Convertible	Convertible (Y/N)	Indicates if the mortgage loan can convert from adjustable-rate to fixed rate in the future.	Beginning in October 2017, DUS Hybrid ARM loans will be populated with N.	
Loan Cross Defaulted Loan		The Fannie Mae loan number assigned to the mortgage loan which is cross defaulted with the subject mortgage loan.	If more than one loan is cross defaulted then "Multiple" will show.	
Loan Cross-Collateralized Loan		The Fannie Mae loan number assigned to the mortgage loan which is cross collateralized with the subject mortgage loan.	If more than one loan is cross collateralized then "Multiple" will show.	
Loan Current NCF Debt Yield (%)			This field is blank and is not available at this time.	
Loan Defeasance Status	Defeasance Status	Indicates if a mortgage loan is eligible for defeasance or has been defeased.	F = Full Defeasance N = No Defeasance Occurred X= Defeasance Not Allowed	● F ● N ● X
Loan DSCR (x) YTD	Most Recent DSCR (NCF) (Loan Record Type)	For all properties underlying the mortgage loan, the ratio of total net cash flow (NCF) to total debt service from the most recent property operating statements after the preceding fiscal year end statement.		
Loan DSCR at Maximum Payment (x) (Pre-DUS Disclose)		This DSCR at Maximum Payment was generally disclosed for pools issued prior to DUS Disclose implementation on December 4, 2017.		
Loan First Payment Date	First Payment Date	The date on which the borrower must pay the first full interest and/or principal payment due on		

Advanced Search Download Results Attribute Name	DUS Disclose Files Attribute Name	DUS Disclose Definition	DUS Disclose Definition Notes	Allowable Values
		the mortgage loan in accordance with the loan documents.		
Loan First Scheduled Payment Change Date in Trust	First Scheduled Payment Change Date in Trust	At securitization, for adjustable-rate mortgage loans, the date that the mortgage loan payment amount is next scheduled to change.		
Loan First Scheduled Rate Change Date in Trust	First Scheduled Rate Change Date in Trust	At securitization, for adjustable-rate mortgage loans, the date that the interest rate is next scheduled to change.		
Loan Fixed Principal Payment Amount ($)	Fixed Principal Payment Amount	For a Structured adjustable-rate mortgage loan (SARM), the fixed principal amount that is included in the principal and interest payment for amortizing or partial interest-only mortgage loans.		
Loan Green Financing Type	Green Financing Type	The type of green financing under which a mortgage loan was originated.		● Green Preservation Plus ● Other Green Financing ● M-PIRE ● Green Rewards
Loan I/O End Date	Interest Only End Date	The date of the last interest-only payment for a mortgage loan that has a full or partial interest-only period.		
Loan Initial Fixed Term	Initial Fixed Term	For an adjustable-rate mortgage loan, the number of calendar months between the first full month the mortgage loan accrues interest and the first interest rate change date.		

Advanced Search Download Results Attribute Name	DUS Disclose Files Attribute Name	DUS Disclose Definition	DUS Disclose Definition Notes	Allowable Values
Loan Initial Fixed Term End Date	Initial Fixed Term End Date	For an adjustable-rate mortgage loan, the date that the initial fixed term ends.		
Loan Interest Type	Interest Type	Indicates if a mortgage loan is a fixed-rate or adjustable-rate mortgage.		● Fixed ● ARM
Loan Lien Position	Lien Position	The lien priority placed on the property securing the mortgage loan.		● First ● Second ● Third ● Fourth or More Subordinate
Loan Liquidation / Prepayment Code	Liquidation/Prepayment Code	Indicates the type of unscheduled principal collection or liquidation proceeds received during the current reporting period.		● Payoff Prior to Maturity ● Repurchase/Substitution ● Partial Liquidation (Curtailment) ● Disposition/Liquidation ● Full Payoff At Maturity ● Payoff With Penalty ● Payoff With Yield Maintenance ● Curtailment With Penalty ● Curtailment With Yield Maintenance
Loan Liquidation / Prepayment Date	Liquidation/Prepayment Date	The date on which the mortgage loan was liquidated/prepaid.		
Loan Lookback Period	Lookback Period (days)	For an adjustable -rate mortgage loan, the number of days prior to a rate change date used to determine the appropriate index rate.	If the loan is not an adjustable-rate loan, then the value is null.	
Loan Maturity Date	Maturity Date	The date the final scheduled payment of principal and interest is due per the loan documents.		

Advanced Search Download Results Attribute Name	DUS Disclose Files Attribute Name	DUS Disclose Definition	DUS Disclose Definition Notes	Allowable Values
Loan Mezzanine Loan Balance ($)	Mezzanine Loan UPB ($)	At securitization for a Mezzanine loan, the unpaid principal balance.		
Loan Mezzanine Loan Initial Term Maturity Date	Mezzanine Loan Initial Term Maturity Date	For a Mezzanine loan, the initial Maturity Date, without regard to any options the Mezzanine borrower may have to extend the Maturity Date.		
Loan Mezzanine Monthly Payment ($)	Mezzanine Monthly Payment Amount ($)	The monthly scheduled payment to be paid on the Mezzanine debt associated with the mortgage loan.		
Loan Monthly Debt Service ($)	Monthly Debt Service (Issuance Files)	For a mortgage loan, the monthly scheduled principal and interest payments to be paid.		
Loan Monthly Debt Service Amount ($) - Partial IO	Monthly Debt Service Amount - Partial IO	For fixed-rate partial interest only (IO) mortgage loans, the scheduled monthly debt service (total) due once a partial IO loan begins amortizing (i.e., the first payment with both interest and principal amortization). For Adjustable-Rate Mortgages: Amortizing mortgage loans, the monthly debt service (amortizing) calculated using the Lifetime Maximum Interest Rate. Full Interest Only mortgage loans, the monthly debt service (interest only) calculated using Lifetime Maximum Interest Rate. Partial Interest Only mortgage loans, the monthly debt service (amortizing) calculated		

Advanced Search Download Results Attribute Name	DUS Disclose Files Attribute Name	DUS Disclose Definition	DUS Disclose Definition Notes	Allowable Values
		using the Lifetime Maximum Interest Rate. For Structured Adjustable Rate Mortgages: Amortizing mortgage loans, the monthly debt service (amortizing) calculated using the Variable Underwriting Rate. Full Interest Only mortgage loans, the monthly debt service (interest only) calculated using the Variable Underwriting Rate. Partial Interest Only mortgage loans, the monthly debt service (amortizing) calculated using the Variable Underwriting Rate.		
Loan Next Payment Change Date	Next Payment Adjustment Date	For an adjustable-rate mortgage loan, the next date on which the monthly payment on the mortgage loan is scheduled to change.	If the first payment change on the loan has not yet occurred, this date would be the same as the First Payment Change Date.	
Loan Next Rate Change Date	Next Rate Adjustment Date	For an adjustable-rate mortgage loan, the next date that the interest rate is scheduled to change.	If the first rate change on the loan has not yet occurred, this date would be the same as the First Rate Change Date.	
Loan Note Date	Note Date	The date on which the mortgage note or deed of trust is executed.		
Loan Note Rate Cap (%)	Note Rate Cap (%)	For an adjustable-rate mortgage loan, the maximum interest rate over the life of the loan.	If the loan is an uncapped adjustable-rate loan this field will display 9's. If the loan is not an adjustable-rate mortgage, then the value is blank.	

Advanced Search Download Results Attribute Name	DUS Disclose Files Attribute Name	DUS Disclose Definition	DUS Disclose Definition Notes	Allowable Values
Loan Note Rate Floor (%)	Note Rate Floor (%)	For an adjustable-rate mortgage loan, the minimum interest rate over the life of the loan.	If the loan is an uncapped adjustable-rate loan this field will display 9's. If the loan is not an adjustable-rate mortgage, then the value is blank.	
Loan Number	Loan Number	A unique number assigned to each mortgage loan by Fannie Mae.		
Loan Original I/O Term	Original Interest Only Period (months)	The number of months in which there are interest-only payments per the mortgage loan documents.		
Loan Original Note Rate (%)	Original Interest Rate	The original interest rate on a mortgage loan as identified in the mortgage loan documents.		
Loan Original Term	Original Loan Term (months)	The number of months from the date the mortgage loan starts accruing interest (i.e., one month before the first payment due date) to the maturity date.		
Loan Original UPB ($)	Original UPB	The original amount of the mortgage loan as indicated by the mortgage loan documents.		
Loan Paying Note Rate (%) - Current	Current Note Rate	The interest rate of the mortgage loan.		
Loan Paying Note Rate (%) - Issuance	Issuance Note Rate	At securitization, the interest rate of the mortgage loan at securitization.		
Loan Paying PTR (%) - Current	Net Rate	The interest rate on a mortgage loan in effect for the current period, after deducting the applicable servicing and guaranty fees.		
Loan Paying PTR (%) - Issuance	Pass-Through Rate	At Securitization, the interest rate on a mortgage loan in effect after		

Advanced Search Download Results Attribute Name	DUS Disclose Files Attribute Name	DUS Disclose Definition	DUS Disclose Definition Notes	Allowable Values
		deducting the applicable servicing and guaranty fee.		
Loan Payment Reset Frequency	Payment Reset Frequency (months)	For an adjustable-rate mortgage loan, the number of months between scheduled payment changes after the first payment date.		
Loan Payment Status	Payment Status	Indicates the status of the mortgage loan payment.		● Current ● 30-59 Days Delinquent ● 60-89 Days Delinquent ● 90+ Days Delinquent
Loan Periodic Payment Change Decrease (%)	Periodic Payment Change Decrease (%)	For an adjustable-rate mortgage loan, the maximum percentage decrease of the principal and interest payment that can occur at the next payment adjustment.		
Loan Periodic Payment Change Increase (%)	Periodic Payment Change Increase (%)	For an adjustable-rate mortgage loan, the maximum percentage increase of the principal and interest payment that can occur at the next payment adjustment.		
Loan Periodic Rate Change Decrease (%)	Periodic Rate Change Decrease (%)	For an adjustable-rate mortgage loan, the maximum percentage the interest rate can decrease from the previous rate for the subsequent rate change.		
Loan Periodic Rate Change Increase (%)	Periodic Rate Change Increase (%)	For an adjustable-rate mortgage loan, the maximum percentage the interest rate can increase from the previous rate for the subsequent rate change.		

Advanced Search Download Results Attribute Name	DUS Disclose Files Attribute Name	DUS Disclose Definition	DUS Disclose Definition Notes	Allowable Values
Loan Preceding Year DSCR (x)	Preceding Fiscal Year DSCR (NCF) (Loan Record Type)	For all properties underlying the mortgage loans, the ratio of NCF to total debt service from the preceding fiscal year-end property operating statements.		
Loan Prepayment End Date	Loan Prepayment End Date	The last day on which the prepayment premium with the longest term.		
Loan Prepayment Premium / Yield Maintenance (YM) Received ($)	Prepayment Premium/Yield Maintenance (YM) Received	The amount of prepayment premiums or yield maintenance received from the borrower and paid to the security in exchange for allowing the borrower to pay off the mortgage loan		
Loan Prepayment Provision	Prepayment Provision	Sequential codes for each type of prepayment provision and the term of the provision in months following each code.		
Loan Prepayment Provision End Date	Prepayment Provision End Date	Sequential codes for each type of prepayment provision, and the end date following each code.	This field is displayed as a string with sequential codes for each type of prepayment provision, and the end date following each code	
Loan Prepayment Type	Loan Prepayment Type	Indicates the type of prepayment premium in place with the longest term for a specified period during the mortgage loan term.		● L = Lockout or prepayment is not allowed during this period ● YM = Yield Maintenance ● #% = Percentage value that is multiplied by the current unpaid principle balance at the time of prepayment to calculate the premium ● DEF = Defeasance

Advanced Search Download Results Attribute Name	DUS Disclose Files Attribute Name	DUS Disclose Definition	DUS Disclose Definition Notes	Allowable Values
				● O = Open or prepayment is allowed without prepayment premium during this period
Loan Purpose	Loan Purpose	Indicates the borrower's purpose for obtaining the mortgage loan.		● Acquisition ● ARM to Fixed Conversion ● Construction Take out ● Equity ● Forward Conversion ● New Construction ● Purchase ● Refinance ● Rehabilitation ● Supplemental
Loan Rate Reset Frequency	Rate Reset Frequency (months)	For an adjustable-rate mortgage loan, the rate adjustment frequency in months..		
Loan Remaining Term		The number of months remaining until the borrower is expected to pay the mortgage loan in full.		
Loan Scheduled Interest Amount ($)	Scheduled Interest Amount	The dollar amount of interest scheduled to be paid in the current period.		
Loan Scheduled Principal Amount ($)	Scheduled Principal Amount	The dollar amount of principal scheduled to be paid in the current period.		
Loan Seasoning - Current		The age of the mortgage loan, in months, from origination to the current reporting period.	For calculation purposes, origination means the date on which the first full month of interest begins to accrue.	
Loan Seasoning - Issuance	Seasoning (months)	At securitization, the age of the mortgage loan, in months, from	For calculation purposes, origination means the date on	

Advanced Search Download Results Attribute Name	DUS Disclose Files Attribute Name	DUS Disclose Definition	DUS Disclose Definition Notes	Allowable Values
		origination to the security issuance date.	which the first full month of interest begins to accrue.	
Loan Seller	Loan Seller	The name of the entity that delivers the mortgage loan to Fannie Mae at the time of acquisition.		
Loan Servicer Name	Loan Servicer	The name of the entity that currently services the mortgage loan.		
Loan Tier	Tier	Fannie Mae Multifamily credit structure indicating the underwriting of the loan at the origination of the loan. The structure includes underwritten Debt Service Coverage Ratio and underwritten Loan to Value limits; Tier limits may vary by Property Type and are subject to change.		● Tier 1 ● Tier 2 ● Tier 3 ● Tier 4
Loan Tier Drop Eligible	Tier Drop Eligible (Y/N)	Indicates if a mortgage loan is eligible for the tier dropping option.	A tier drop eligible loan is permitted to have a subordinate loan placed on the related mortgaged property that, when combined with the related senior loan, increases the overall leverage to a lower Tier.	● Y ● N
Loan Total Debt Current Balance ($) - Issuance	Total Debt Current UPB ($)	The sum of the mortgage loan's unpaid principal balance and the unpaid principal balances of all additional debt outstanding at the time of securitization.		
Loan Total Scheduled P&I Due ($)	Total Scheduled P&I Due	The total dollar amount of principal and interest payments scheduled to		

Advanced Search Download Results Attribute Name	DUS Disclose Files Attribute Name	DUS Disclose Definition	DUS Disclose Definition Notes	Allowable Values
		be paid by borrower in the current reporting period.		
Loan UPB - Current ($)	Current Ending Scheduled Balance (Loan Record Type)	The scheduled or stated principal balance for a mortgage loan as of the end of the current reporting period.		
Loan UW NCF Debt Yield (%)	UW NCF Debt Yield (%)	For a mortgage loan, the underwritten net cash flow divided by the original mortgage loan unpaid principal balance inclusive of the UPB for any outstanding supplemental mortgage loans.	This field is blank and is not available at this time.	
Loan UW NCF DSCR (I/O) (x)	UW NCF DSCR (I/O) (x)	For a mortgage loan with interest only payments, the ratio of the underwritten Net Cash Flow (NCF) of a mortgaged property to the annualized interest payments due on the related mortgage loan and any pari passu debt, other Fannie Mae mortgage loan debt and subordinate third party debt, if applicable.	This field will be null for any loan that is not Interest Only.	
Loan UW NCF DSCR (x)	UW NCF DSCR (x)	The ratio of the underwritten Net Cash Flow (NCF) of a mortgaged property to the principal and interest payments (for Amortizing and Partial Interest Only include Principal & Interest payments or for Full Interest Only include Interest payments) due on the related mortgage loan and pari passu debt, other Fannie Mae mortgage loan		

Advanced Search Download Results Attribute Name	DUS Disclose Files Attribute Name	DUS Disclose Definition	DUS Disclose Definition Notes	Allowable Values
		debt and subordinate third party debt, if applicable.		
Loan UW NCF DSCR at Cap (x)	UW NCF DSCR at Cap (x)	For an adjustable-rate mortgage loan, the ratio of the underwritten Net Cash Flow (NCF) of a mortgaged property to the debt service of the loan and pari passu debt, other Fannie Mae mortgage loan debt and subordinate third party debt, if applicable.	The Debt Service Coverage Ratio (DSCR) is calculated using the Loan Lifetime Cap Interest Rate for a capped adjustable-rate loan or the Strike Rate plus Mortgage Margin for a Structured adjustable rate loan. This field will be null for adjustable-rate loans without a cap.	
Lockout End Date		The final day of the period during which a borrower is prohibited from voluntarily prepaying a mortgage loan.		
Property				
2nd Preceding Annual Year		The time period for the 2nd Preceding Year.		
3rd Preceding Annual Year		The time period for the 3rd Preceding Year.		
Current Quarter		The time period for the current quarter.		
Preceding Annual Year		The time period for the Preceding Year.		
Property % of Units At or Below 50% Area Median Income	% of Units At or Below 50% Area Median Income	The percentage of units set aside in the subject property which serve tenants earning no more than 50% of the Area Median Income (AMI).	Multifamily affordable housing loans may require that a certain percentage of property dwelling units be set aside for a tenant group earning up to (and including) a certain percentage of the Area	

Advanced Search Download Results Attribute Name	DUS Disclose Files Attribute Name	DUS Disclose Definition	DUS Disclose Definition Notes	Allowable Values
			Median Income (AMI). AMI is determined by HUD and is a measurement used to determine low- and/or moderate-income households.	
Property % of Units At or Below 60% Area Median Income	% of Units At or Below 60% Area Median Income	The percentage of units set aside in the subject property which serve tenants earning no more than 60% of the Area Median Income (AMI).	Multifamily affordable housing loans may require that a certain percentage of property dwelling units be set aside for a tenant group earning up to (and including) a certain percentage of the Area Median Income (AMI). AMI is determined by HUD and is a measurement used to determine low- and/or moderate-income households. If a property has any units that are required to be reserved for tenants with a household income equal to or less than 50% of the Area Median Income, those units should be excluded from this ("Under 60%") percentage.	
Property % of Units At or Below 80% Area Median Income	% of Units At or Below 80% Area Median Income	The percentage of units set aside in the subject property which serve tenants earning no more than 80% of the Area Median Income (AMI).	Multifamily affordable housing loans may require that certain property dwelling units be set aside for a tenant group earning up to a certain percentage of the Area Median Income (AMI). AMI is determined by HUD and is a measurement used to determine low- and/or moderate-income	

Advanced Search Download Results Attribute Name	DUS Disclose Files Attribute Name	DUS Disclose Definition	DUS Disclose Definition Notes	Allowable Values
			households. If a property has any units that are required to be reserved for tenants with a household income equal to or less than 60% of the Area Median Income, those units should be excluded from this ("Under 80%") percentage.	
Property 2nd Preceding Year EGI ($)	Second Preceding Fiscal Year Revenue (Property Record Type)	The normalized effective gross income or revenue as applicable, for the first consecutive year end prior to the preceding fiscal year end operating statement.		
Property 2nd Preceding Year NCF ($)	Second Preceding Fiscal Year NCF (Property Record Type)	The normalized effective gross income less total operating expenses and capital expenditures (replacement reserves) as applicable for the first consecutive year end prior to the preceding fiscal year end operating statement.		
Property 2nd Preceding Year Operating Expenses ($)	Second Preceding Fiscal Year Operating Expenses (Property Record Type)	The normalized total operating expenses as applicable, for the first consecutive year end prior to the preceding fiscal year end operating statement.	Included are real estate taxes, insurance, management fees, utilities, and repairs and maintenance. Excluded are capital expenditures, tenant improvements, and leasing commissions.	
Property 2nd Preceding Year Physical Occupancy (%)	Second Preceding Fiscal Year Physical Occupancy	The percentage of rentable space occupied as of the first consecutive year end prior to the preceding fiscal year end.		

Advanced Search Download Results Attribute Name	DUS Disclose Files Attribute Name	DUS Disclose Definition	DUS Disclose Definition Notes	Allowable Values
Property 3rd Preceding Year EGI ($)		The normalized effective gross income or revenue as applicable, for the second consecutive year end prior to the preceding fiscal year end operating statement.		
Property 3rd Preceding Year NCF ($)		The normalized effective gross income less total operating expenses and capital expenditures (replacement reserves) as applicable for the second consecutive year end prior to the preceding fiscal year end operating statement.		
Property 3rd Preceding Year Operating Expenses ($)		The normalized total operating expenses as applicable, for the second consecutive year end prior to the preceding fiscal year end operating statement.	Included are real estate taxes, insurance, management fees, utilities, and repairs and maintenance. Excluded are capital expenditures, tenant improvements, and leasing commissions.	
Property 3rd Preceding Year Physical Occupancy (%)		The percentage of rentable space occupied as of the second consecutive year end prior to the preceding fiscal year end.		
Property Address	Property Address (Ongoing File)	The street address of the property or properties which serve as mortgage collateral are located.	For a mortgage loan secured by more than one property, the current addresses are shown together (abbreviated as needed).	
Property Affordable Housing Type	Affordable Housing Type	Indicates the type of multifamily affordable housing for the property supporting the mortgage loan.		● LIHTC ● Project Based HAP/Sec 8 ● LIHTC & Project Based HAP/Sec 8

Advanced Search Download Results Attribute Name	DUS Disclose Files Attribute Name	DUS Disclose Definition	DUS Disclose Definition Notes	Allowable Values
				● Other ● Not MAH
Property Age Restricted	Age Restricted (Y/N)	Indicates if the property either restricts occupancy to persons who are 62 years of age or older or requires that at least 80% of the units in a community be occupied by at least one person who is 55 years of age or older, or as otherwise defined in the Housing for Older Persons Act (HOPA).		
Property City	Property City (Ongoing File)	The name of the city where the property or properties which serve as mortgage collateral are located.		
Property Condition Rating	Property Condition	Indicates the condition of the property based on the most recent inspection results.		● Excellent ● Good ● Fair ● Poor
Property Condition Rating As of Date	Date of Last Inspection	The date of the most recent physical site inspection.		
Property County	Property County (Issuance Files)	At securitization, the name of the county in which the property or properties that serve as mortgage collateral are located.		
Property EGI ($) YTD	Most Recent Revenue (Property Record Type)	The amount of total revenues for the most recent operating statement reported by the servicer.		
Property Energy Star Score	ENERGY STAR® Score	The score assigned to the property by the ENERGY STAR® Portfolio Manager application.	The score compares the property to similar properties nationwide for key performance indicators (e.g., energy use and costs, water use and costs, and greenhouse gas	

Advanced Search Download Results Attribute Name	DUS Disclose Files Attribute Name	DUS Disclose Definition	DUS Disclose Definition Notes	Allowable Values
			emissions). The score ranges from 0 to 100.	
Property Energy Star Score Date	ENERGY STAR® Score Date	The date that a score was assigned to the property by the ENERGY STAR® Portfolio Manager Application.		
Property General Property Type	General Property Type	Indicates the general type of the property securing the mortgage loan.	Allowable value of SE is a defeased property and only available in the DUS Disclose files.	● Manufactured Housing ● Cooperative Housing ● Multifamily ● SE
Property Green Building Certification	Green Building Certification	Indicates the type of designation, if any, awarded by a third party certifying that the related mortgaged property meets defined criteria for energy and/or water efficiency, waste management, indoor air quality, and/or other environmental sustainability measures.		● Leadership in Energy and Environmental Design (LEED), US Green Building Council ● Green Communities, Enterprise Community Partners ● GreenPoint Rated, Build It Green ● EarthCraft, Greater Atlanta Home Builders Association and South Face ● Energy Star, United States Environmental Protection Agency (US EPA) ● National Green Building Standard (NGBS), Home Innovation Research Labs ● Green Globes, Green Building Initiative ● Other Green Building Certification

Advanced Search Download Results Attribute Name	DUS Disclose Files Attribute Name	DUS Disclose Definition	DUS Disclose Definition Notes	Allowable Values
Property HAP Remaining Term	HAP Remaining Term (months)	At the time of acquisition of the mortgage loan, the term in months remaining on the Housing Assistance Payment program associated with the property.		
Property ID	Property ID	A unique number assigned by Fannie Mae to each property securing a mortgage loan.		
Property MSA	Metropolitan Statistical Area	The Metropolitan Statistical Area (or PMSA if the MSA is consolidated) in which the property is located.		
Property Name	Property Name (Ongoing File)	The name of the property or properties which serve as mortgage collateral are located.		
Property NCF ($) YTD	Most Recent NCF (Property Record Type)	The dollar amount of income received by the property after accounting for operating expenses and after deducting capital expenditures (replacement reserves) per the most recent operating statement reported by the servicer on the property.		
Property Operating Expenses ($) YTD	Most Recent Operating Expenses (Property Record Type)	The total amount of operating expenses for the period covered by the most recent operating statement reported by the servicer.		
Property Ownership Interest	Ownership Interest	Indicates if ownership of the mortgaged property is held as a fee simple or a leasehold interest by the borrower.		● Fee Simple ● Leasehold

Advanced Search Download Results Attribute Name	DUS Disclose Files Attribute Name	DUS Disclose Definition	DUS Disclose Definition Notes	Allowable Values
Property Physical Occupancy (%) YTD	Most Recent Physical Occupancy (Property Record Type)	The most recent available percentage of rentable units occupied.		
Property Preceding Year EGI ($)	Preceding Fiscal Year Revenue (Property Record Level)	The amount of total revenue normalized, and annualized as applicable, from the preceding fiscal year end operating statement.		
Property Preceding Year NCF ($)	Preceding Fiscal Year NCF (Property Record Type)	The amount of effective gross income less total operating expenses and capital expenditures (replacement reserves) from the preceding fiscal year end operating statement.		
Property Preceding Year Operating Expenses ($)	Preceding Fiscal Year Operating Expenses (Property Record Type)	The amount of total operating expenses normalized, and annualized as applicable, that relates to the preceding fiscal year end operating statement.	Included are real estate taxes, insurance, management fees, utilities, and repairs and maintenance. Excluded are capital expenditures, tenant improvements, and leasing commissions.	
Property Preceding Year Physical Occupancy (%)	Preceding Fiscal Year Physical Occupancy (Property Record Type)	The percentage of units occupied as of the preceding fiscal year end operating statement available.		
Property Source Energy Use Intensity	Source Energy Use Intensity	For a mortgage loan, the energy per square foot consumed per year at the property.	Calculated by dividing the total energy consumed from the source (representing the total amount of raw fuel that is required to operate the building(s) incorporating all transmission, delivery, and production losses) by the building(s) in one year (measured in kBtu) by	

Advanced Search Download Results Attribute Name	DUS Disclose Files Attribute Name	DUS Disclose Definition	DUS Disclose Definition Notes	Allowable Values
			the total gross floor area of the building(s) (kBtu/ftý).	
Property Source Energy Use Intensity Date	Source Energy Use Intensity Date	For a mortgage loan, the date the Source Energy Use Intensity (EUI) was calculated for the property.	EUI is calculated by dividing the total energy consumed from the source (representing the total amount of raw fuel that is required to operate the building(s) in a single year incorporating all transmission, delivery, and production losses) by the total gross floor area of the building(s).	
Property Specific Property Type	Specific Property Type	Indicates the specific type of the property securing the mortgage loan.		● Multifamily ● Cooperative ● Manufactured Housing ● Seniors ● Dedicated Student ● Other ● Military
Property State	Property State (Ongoing)	The current two-character abbreviated code representing the state in which the property or properties which serve as mortgage collateral are located.		● AK ● AL ● AR ● AS ● AZ ● CA ● CO ● CT ● DC ● DE ● FL ● FM ● GA ● GU

Advanced Search Download Results Attribute Name	DUS Disclose Files Attribute Name	DUS Disclose Definition	DUS Disclose Definition Notes	Allowable Values
				● HI ● IA ● ID ● IL ● IN ● KS ● KY ● LA ● MA ● MD ● ME ● MH ● MI ● MN ● MO ● MP ● MS ● MT ● NC ● ND ● NE ● NH ● NJ ● NM ● NV ● NY ● OH ● OK ● OR ● PA ● PR ● PW

Advanced Search Download Results Attribute Name	DUS Disclose Files Attribute Name	DUS Disclose Definition	DUS Disclose Definition Notes	Allowable Values
				● RI ● SC ● SD ● TN ● TX ● UT ● VA ● VI ● VT ● WA ● WI ● WV ● WY ● UM
Property Status	Property Status	Indicates the status of a property serving as collateral for a mortgage loan.		● Defeased ● Substituted ● Same as at Contribution
Property Tax Escrow	Tax Escrow (Y/N)	Indicates if the servicer is required to escrow funds for the direct payment of real estate property taxes to the property taxing authority.		● Y ● N ● Various
Property Terrorism Insurance	Terrorism Insurance	Indicates if there is terrorism insurance coverage on the property serving as collateral for the mortgage loan.		● Y
Property Total Units	Current Number of Units/Beds/Rooms	The current number of units, beds or rooms at the mortgaged property as of the current reporting period.		
Property Unit of Measure	Unit of Measure	Indicates the type of rentable space.		● Units ● Pads

Advanced Search Download Results Attribute Name	DUS Disclose Files Attribute Name	DUS Disclose Definition	DUS Disclose Definition Notes	Allowable Values
Property Units with Income or Rent Restrictions (%)	Units with Income or Rent Restrictions (%)	The percentage of units, which are subject to either income or rent restrictions set aside for qualified tenants per the stated income limitations, in the property serving as collateral for a mortgage loan		
Property UW EGI ($)	UW Effective Gross Income ($)	The sum of all underwritten income produced by the property or properties which serve as mortgage collateral.	The value is often derived by calculating the maximum rental income achievable at market rates, net of adjustments that reflects vacancies, credit loss and other such deductions. The Effective Gross income also includes other income, such as parking and laundry fee, typically calculated based on historical collection adjusted to reflect underwritten occupancy or use.	
Property UW NCF ($)		The underwritten dollar amount of income received by the property after accounting for total operating expenses and deducting capital expenditures (replacement reserves).		
Property UW Operating Expenses (%)		The sum of total underwritten operating expenses divided by the underwritten effective gross income.	For multifamily, commercial and healthcare Operating Statement Analysis Report, the sum of total operating expenses divided by effective gross income, as reflected on the operating statement.	
Property UW Physical Occupancy (%)	Physical Occupancy %	The occupancy rate for a mortgaged property showing units physically		

Advanced Search Download Results Attribute Name	DUS Disclose Files Attribute Name	DUS Disclose Definition	DUS Disclose Definition Notes	Allowable Values
		occupied by tenants and provided at underwriting.		
Property UW Replacement Reserves ($)	UW Replacement Reserves ($)	The dollar amount underwritten for capital expenditures (replacement reserves).		
Property Value ($)		At securitization, the value of the related mortgaged property as reported.		
Property Value as of Date		The date the property value of the related mortgaged property was reported.		
Property Year Built	Year Built	The year in which a mortgaged property (or the first phase of a multi-phase mortgaged property) was built.		
Property Zip Code	Property Zip Code (Ongoing File)	The current zip (or postal) code for the property or properties which serve as mortgage collateral are located.		
Credit Facility				
Credit Facility Deal 2nd Preceding NCF DSCR (x)	Credit Facility Deal 2nd Preceding NCF DSCR (x)	For Credit Facilities, Debt Service Coverage Ratio (DSCR) is based on Net Cash Flow (NCF) for the deal calculated from the first consecutive year end prior to the preceding fiscal year for all properties.		
Credit Facility Deal 2nd Preceding Year	Credit Facility 2nd Deal Preceding Year	For Credit Facilities, the period for which the operating statement data applies.		

Advanced Search Download Results Attribute Name	DUS Disclose Files Attribute Name	DUS Disclose Definition	DUS Disclose Definition Notes	Allowable Values
Credit Facility Deal 3rd Preceding NCF DSCR (x)	Credit Facility Deal 3rd Preceding NCF DSCR (x)	For Credit Facilities, Debt Service Coverage Ratio (DSCR) based on Net Cash Flow (NCF) for the deal calculated from the second consecutive year end prior to the preceding fiscal year for all properties.		
Credit Facility Deal 3rd Preceding Year	Credit Facility 3rd Deal Preceding Year	For Credit Facilities, the period for which the operating statement data applies.		
Credit Facility Deal Additional Loans Allowed	Additional Loans Allowed (Y/N)	For Credit Facilities, indicates if any additional borrowings are permitted.		● Y ● N
Credit Facility Deal LTV (%)	Issuance LTV at the Facility Level	For Credit Facilities, the ratio of the Aggregate Cut Off Date Balance Amount to the Collateral Aggregate Value Amount, expressed as a percentage.		
Credit Facility Deal Max Borrowing Amount ($)	Maximum Borrowing Amount at the Facility Level	For Credit Facilities, the total maximum borrowing amount.		
Credit Facility Deal Max Permitted LTV (%)	Maximum Permitted LTV of Credit Facility	For Credit Facilities, the maximum permissible ratio of the total facility debt balance to the appraised value of the collateral.		
Credit Facility Deal Min Permitted DSCR (x) - ARM	Minimum Permitted DSCR of Credit Facility - ARM Loans	For Credit Facilities, the minimum DSCR allowed for variable rate loans within the facility.		
Credit Facility Deal Min Permitted DSCR (x) - Fixed	Minimum Permitted DSCR of Credit Facility - Fixed Rate Loans	For Credit Facilities, the minimum DSCR allowed for fixed rate loans within the facility.		

Advanced Search Download Results Attribute Name	DUS Disclose Files Attribute Name	DUS Disclose Definition	DUS Disclose Definition Notes	Allowable Values
Credit Facility Deal Number of Properties	Number of Mortgaged Properties at the Facility Level	At securitization for Credit Facilities, the number of properties which serve as mortgage collateral.		
Credit Facility Deal Other Collateral - Amount ($)	Value of Other Collateral ($) at Facility Level	At securitization for Credit Facilities, the value of non-property collateral.		
Credit Facility Deal Other Collateral - Type	Other Collateral Type at Facility Level	For Credit Facilities, the type of non-property collateral held by Fannie Mae and/or third participant custodian.		● Guaranteed Investment Contract (GIC) ● Delivery Assurance ● Investment Agreement ● Cash ● Corporate Guaranty ● Promissory Note ● Letter of Credit ● Borrower Certificate ● Other
Credit Facility Deal Preceding NCF DSCR (x)	Credit Facility Deal Preceding NCF DSCR (x)	For Credit Facilities, Debt Service Coverage Ratio (DSCR) based on Net Cash Flow (NCF) for the deal calculated from the preceding fiscal year for all properties.		
Credit Facility Deal Preceding Year	Credit Facility Deal Preceding Year	For Credit Facilities, the period for which the operating statement data applies.		
Credit Facility Deal Property Additions Allowed	Property Additions Allowed (Y/N)	For Credit Facilities, indicates if the borrower is allowed to add additional properties as collateral to the Credit Facility.		● Y ● N
Credit Facility Deal Property Release Allowed	Property Releases Allowed (Y/N)	For Credit Facilities, indicates if properties may be released from the collateral pool in a deal.		● Y ● N

Advanced Search Download Results Attribute Name	DUS Disclose Files Attribute Name	DUS Disclose Definition	DUS Disclose Definition Notes	Allowable Values
Credit Facility Deal Property Substitution Allowed	Property Substitution Allowed (Y/N)	For Credit Facilities, indicates if substituting new properties for existing properties is permissible.		● Y ● N
Credit Facility Deal Property Value ($)	Aggregate Property Value at the Facility Level	For Credit Facilities, the aggregate property value(s) at issuance.		
Credit Facility Deal Total Collateral Value ($)	Total Collateral Value at the Facility Level	At securitization for Credit Facilities, the aggregate value of all the underlying collateral.		
Credit Facility Deal Total UPB ($)	Total Issuance UPB at the Facility Level	At securitization for Credit Facilities, the aggregate cut-off date balance for all loans in the Facility.		
Credit Facility Deal UW NCF DSCR (x)	UW NCF DSCR at the Facility Level	For Credit Facilities, the ratio of the underwritten net cash flow from all active properties in the facility to the debt service amount, specifically the total principal and interest, for all active loans.	Full interest-only loans will reflect only interest, and partial interest-only mortgage loans will reflect both principal and interest.	
Credit Facility Deal UW NCF DSCR I/O (x)	UW NCF DSCR (IO) at the Facility Level	For Credit Facilities with at least one active partial interest-only loan still in its interest-only period, the ratio of the underwritten Net Cash Flow from all active properties in the facility at the time of a new issuance of a loan in the facility to the debt service amount, specifically the total principal and interest, for all active loans that are in the facility. Both full interest-only and partial interest-only mortgage loans will reflect only interest.	If all partial interest-only loans are no longer in the interest only period, the field is null.	

Advanced Search Download Results Attribute Name	DUS Disclose Files Attribute Name	DUS Disclose Definition	DUS Disclose Definition Notes	Allowable Values
DUS Disclose Files Attributes – The following attributes only appear in the monthly and daily files.				
	Accrual Days	The number of days in the interest accrual period for a security.	This attribute will be zero until the second Distribution Date.	
	Accrued Interest	The amount of interest distributed to the security holders for the specified period.		
	Actual Balance	The actual outstanding unpaid principal balance of the mortgage loan as of the current reporting date, which is based on principal payments made to-date by the borrower.		
	Additional Debt Minimum Interest Rate (%)	For an instrument of additional debt that is an adjustable-rate loan, which may be a Fannie Mae mortgage loan or third party subordinate lien, the minimum interest rate to which the loan may adjust, expressed as a percentage.		
	Additional Debt ARM Margin (%)	For an instrument of additional debt that is an adjustable-rate loan, which may be a Fannie Mae mortgage loan or third party subordinate lien, the rate that is added to the index value in order to establish the new interest rate on each interest rate change date, expressed as a percentage.		
	Additional Debt Balloon (Y/N)	For an instrument of additional debt, which may be a Fannie Mae mortgage loan or third party		

Advanced Search Download Results Attribute Name	DUS Disclose Files Attribute Name	DUS Disclose Definition	DUS Disclose Definition Notes	Allowable Values
		subordinate lien, an indicator identifying a mortgage loan that does not fully amortize and requires a balloon payment at mortgage loan maturity.		
	Additional Debt Current Interest Rate	For an instrument of additional debt, which may be a Fannie Mae mortgage loan or third party subordinate lien, the current annual rate of interest assessed on the unpaid mortgage loan balance.		
	Additional Debt Last Interest Only Payment Date	For an instrument of additional debt that has an interest only term, which may be a Fannie Mae mortgage loan or third party subordinate lien, the date of the last interest-only payment.		
	Additional Debt Lien Holder	For an instrument of additional debt, which may be a Fannie Mae mortgage loan or third party subordinate lien, the name of the lien holder.		
	Additional Debt Line of Credit Full Amount ($)	For an instrument of additional debt that is a line of credit, the maximum amount of the line of credit.		
	Additional Debt Original Amortization Term	For additional debt, which may be a Fannie Mae mortgage loan or third party subordinate lien, the number of months over which the mortgage loan unpaid principal balance is		

Advanced Search Download Results Attribute Name	DUS Disclose Files Attribute Name	DUS Disclose Definition	DUS Disclose Definition Notes	Allowable Values
		scheduled to be amortized, as determined at the origination date.		
	Additional Debt Type (Loan Record Type)	Indicates if there are additional debt types associated with the subject mortgage loan.	If there are multiple additional debt, the allowable value will be "Multiple"	● Line of Credit ● Mezzanine Debt ● Third Party Subordinate Lien ● Fannie Mae Mortgage Loan ● Preferred Equity ● Multiple ● None
	Allocated Percentage of Loan at Contribution	The percentage of the mortgage loan that is supported by the property as collateral.	The sum of all properties assigned as collateral to an individual loan should be 100%.	
	Associated Loan Number	See Loan Number definition.		
	Associated Transaction ID	See Transaction ID definition.		
	Beginning Unpaid Interest Balance	The aggregate amount of interest accrued, but not yet paid, for a security at the beginning of a distribution period.	Should equal the prior month Ending Unpaid Interest Balance.	
	Bond Beginning Balance	The balance amount of a security prior to allocations of principal and/or realized losses reported at the beginning of a period.		
	Class Name/Class ID	The name of a security as defined in the disclosure documents.		
	Contribution Financials As Of Date	At securitization, the last day of the reporting period for the underwritten operating statement.		
	Correction Date	The date the correction was published.		

Advanced Search Download Results Attribute Name	DUS Disclose Files Attribute Name	DUS Disclose Definition	DUS Disclose Definition Notes	Allowable Values
	Cross Collateralized (Y/N)	Indicates if the mortgage loan is cross collateralized with another mortgage loan.		● Y ● N
	Cross Defaulted (Y/N)	Indicates if the mortgage loan is cross defaulted with another mortgage loan.		● Y ● N
	Crossed Transaction ID & Loan Number	A combination of the pool number followed by the Fannie Mae loan number(s) for the mortgage loan which is cross collateralized and/or cross defaulted with the subject mortgage loan.		
	Cumulative Prepayment Penalty / Premium Allocation	The aggregate Prepayment Premiums paid to investors for a security since the inception of the Trust.		
	Current Allocated Ending Scheduled Loan Amount	As of the current reporting date, the outstanding principal balance allocated to the property.		
	Current Allocated Percentage	The percentage of the mortgage loan that is supported by the property as collateral.	The sum of all properties assigned as collateral to an individual loan should be 100%. This should be the same as at contribution unless the collateral is released, fully defeased or partially defeased. For full and partial defeasances, the percentage for the defeased portion(s) should equal 100%.	
	Current Beginning Scheduled Balance	The scheduled or stated principal balance of a mortgage loan as of the beginning of the reporting period.		

Advanced Search Download Results Attribute Name	DUS Disclose Files Attribute Name	DUS Disclose Definition	DUS Disclose Definition Notes	Allowable Values
	Current Ending Scheduled Balance (Collateral Record Type)	The total unpaid principal balance, as of the end of the current period, for all mortgage loans that serve as collateral for the transaction.		
	Current Index Rate (Loan Record Type)	For adjustable-rate mortgage loans, the index rate used in the determination of the current period accruing interest rate for a mortgage loan.		
	Current Index Rate (Security Record Type)	For adjustable-rate mortgage loans, the index rate used in the determination of the current period accruing interest rate for a security.		
	Cut-Off Date Balance (Mega Relationships Record Type)	The dollar amount of unpaid principal balance for the Collateral CUSIP that is participating as collateral to a group or security backing a security.		
	Deferred Maintenance Flag	Indicates if the most recent inspection identified that deferred maintenance exists on the property.		
	Distribution Date	The date on which funds are distributed to certificate holders for a particular period as defined in disclosure documents.		
	Economic Occupancy (%) (T12)	For a Credit Facility, the net rental collections expressed as a percentage of gross potential rent, reported at the aggregate Credit Facility level.		

Advanced Search Download Results Attribute Name	DUS Disclose Files Attribute Name	DUS Disclose Definition	DUS Disclose Definition Notes	Allowable Values
	Ending Unpaid Interest Balance	The aggregate amount of interest accrued, but not yet paid, for a security at the end of a period.	This also represents the next month's Beginning Unpaid Interest Balance and will include interest accrued on outstanding unpaid shortfalls if called for in the bond waterfall.	
	Fannie Mae Transaction ID at the Facility Level	A unique number assigned to each pool within a Credit Facility.		
	Fiscal Year End Month	The month and day in which the borrower's fiscal year ends as reflected on the property operating statement.		
	Ground Lease (Y/N)	Indicates if a ground lease exists and is subordinate to the mortgage on the property.		● Y ● N
	Group ID	The unique alpha-numeric code assigned to each group of pools or loans in the case of whole loan REMICs within a securitization.	A Group ID may not be applicable for every transaction.	
	Interest Accrual Method (Security Record Type)	Indicates the structure which determines the pool accrual rate method to count days for payment calculation.	Also, in New Issuance Files Mega Relationships Record Type.	● Actual/Actual ● Actual/365 ● 30/365 ● Actual/360 ● 30/360 ● Other
	Interest Shortfall / (Excess)	The amount of interest shortfall (or excess) allocated for a security in the period. This is exclusive of interest accrued on outstanding unpaid shortfalls.	This field will always be blank.	

Advanced Search Download Results Attribute Name	DUS Disclose Files Attribute Name	DUS Disclose Definition	DUS Disclose Definition Notes	Allowable Values
	Last Loan Contribution Date (Ongoing file)	The date on which the security is settled and the mortgage loan(s) are delivered into the Trust.		
	Last Property/Collateral Contribution Date	The last date that a property was contributed as collateral for the mortgage loan.	For mortgage loans where no additional collateral was contributed after pool issuance, the pool issuance is the last date collateral was contributed to the mortgage loan.	
	Loan & Collateral Footnote	Comments describing the Additional Disclosure.		
	Loan Issuance UPB ($) (Loan Record Type)	The total mortgage loan unpaid principal balance at securitization.		
	Loan Issuance UPB / Unit ($) (Loan Record Type)	At securitization, the mortgage loan's unpaid principal balance divided by the number of units in the underlying properties.		
	Loan Servicer	The name of the entity that currently services the mortgage loan.		
	Master Servicer	Fannie Mae, in its capacity as master servicer, or any successor or assign that will have the responsibilities specified for this capacity in the Offering Documents.		
	Mega Collateral CUSIP	See CUSIP definition.		
	Mega Collateral Transaction ID	See Transaction ID definition.		
	Mezzanine Loan Amortization Term	For a Mezzanine loan, the number of months over which the loan balance is scheduled to be amortized.	For Mezzanine loans with a balloon payment, the amortization term is longer than the term of the Mezzanine loan. If the Mezzanine	

Advanced Search Download Results Attribute Name	DUS Disclose Files Attribute Name	DUS Disclose Definition	DUS Disclose Definition Notes	Allowable Values
			loan requires interest-only payments for its entire term before its Maturity Date, the Mezzanine Amortization Term is "0".	
	Mezzanine Loan First Monthly Payment Due Date	For a Mezzanine loan, the date on which the first monthly, quarterly, or semiannual payment of interest (is due from the Mezzanine borrower).		
	Mezzanine Loan Initial Term Interest Rate (%)	For a Mezzanine loan, the interest rate applied over the initial term, expressed as a percentage.		
	Mezzanine Loan Interest Accrual Method	For a Mezzanine loan, the "number of days" convention used to calculate interest.		● 30/360 ● Actual/365 ● Actual/360 ● Actual/366
	Mezzanine Loan Interest Only End Date	For a Mezzanine loan with a full or partial interest-only period, the date on which the last interest-only payment is due.		
	Mezzanine Loan Prepayment Provision	For a Mezzanine loan, the prepayment type in place for a specified period during the mortgage loan term.		● Declining Premium ● Lockout ● Other
	Mezzanine Loan Prepayment Provision End Date	For a Mezzanine loan, the last day on which the associated prepayment feature will be effective.		
	Mezzanine Loan Prepayment Provision Term	For a Mezzanine loan, the number of months during which the associated prepayment feature is applicable		

Advanced Search Download Results Attribute Name	DUS Disclose Files Attribute Name	DUS Disclose Definition	DUS Disclose Definition Notes	Allowable Values
	Mezzanine Loan Provider	The name of the institution providing the Mezzanine loan to the borrower.		
	Most Recent Debt Service Amount (Loan Record Type)	For all properties underlying the mortgage loan, the total actual payment amount of principal and/or interest that covers the same number of months as the most recent property operating statement.		
	Most Recent Debt Service Amount (Property Record Type)	The total actual payment amount of principal and/or interest that covers the same number of months as the most recent property operating statement.	Calculate using the current allocated percentage to get the allocated amount for each property.	
	Most Recent DSCR (NCF) (Property Record Type)	A ratio of net cash flow (NCF) to debt service for the most recent property operating statement after the preceding fiscal year end statement.		
	Most Recent Financial As of End Date (Loan Record Type)	For all properties underlying the mortgage loan, the last day of the period from the most recent operating statements.		
	Most Recent Financial As Of End Date (Property Record Type)	The last day of the reporting period for the most recent operating statement after the preceding fiscal year end statement.		
	Most Recent Financial As of Start Date (Loan Record Type)	For all properties underlying the mortgage loan, the first day of the period from the most recent operating statements.		

Advanced Search Download Results Attribute Name	DUS Disclose Files Attribute Name	DUS Disclose Definition	DUS Disclose Definition Notes	Allowable Values
	Most Recent Financial As Of Start Date (Property Record Type)	The first day of the reporting period for the most recent operating statement after the preceding fiscal year end statement.		
	Most Recent Financial Indicator (Loan Record Type)	For all properties underlying the mortgage loan, indicates if the most recent property operating statement information has been normalized and/or annualized.		● YN
	Most Recent Financial Indicator (Property Record Type)	Identifies if the most recent property operating statement information has been normalized and/or annualized.		
	Most Recent NCF (Loan Record Type)	For all properties underlying the mortgage loan, the total normalized NCF amount from the most recent operating statements.		
	Most Recent Occupancy As Of Date	Effective date of the most recently received rent roll.		
	Most Recent Operating Expenses (Loan Record Type)	For all properties underlying the mortgage loan, the total normalized operating expense amount from the most recent operating statements.		
	Most Recent Physical Occupancy (Loan Record Type)	For all properties underlying the mortgage loan, the most recent available weighted average percentage of units occupied.		
	Most Recent Revenue (Loan Record Type)	For all properties underlying the mortgage loan, the total normalized revenue amount from the most recent operating statements.		

Advanced Search Download Results Attribute Name	DUS Disclose Files Attribute Name	DUS Disclose Definition	DUS Disclose Definition Notes	Allowable Values
	Most Recent Valuation Date (Loan Record Type)	The effective date of the most recent appraised values.		
	Most Recent Value (Loan Record Type)	For all properties underlying the mortgage loan, the total of the most recent appraised values.		
	NCF ($) (Trailing 12 months)	Net Cash Flow (NCF) for twelve months preceding the current reporting period for the Credit Facility property operating statements.		
	NCF ($) (Trailing 3 months)	Net Cash Flow (NCF) for three months preceding the current reporting period for the Credit Facility property operating statements.		
	NCF at Contribution	See UW NCF ($) definition.		
	Next Index Rate	For adjustable-rate loan, the index rate that will be used to determine the interest rate in effect for the next scheduled interest payment.		
	Next Note Rate	For an adjustable-rate mortgage loan, the interest rate that will be used to determine the next scheduled payment.		
	NOI/NCF Indicator (Loan Record Type)	For all properties underlying a mortgage loan, the method used to calculate net operating income or net cash flow.		● CREFC
	NOI/NCF Indicator (Property Record Type)	Indicates the method used to calculate net operating income or net cash flow for a property.		● CREFC

Advanced Search Download Results Attribute Name	DUS Disclose Files Attribute Name	DUS Disclose Definition	DUS Disclose Definition Notes	Allowable Values
	Note Rate Rounding Methodology	For an adjustable-rate mortgage loan, the rounding methodology to be applied to the sum of the index plus margin in determining the periodic mortgage interest rate.		● No Rounding ● Rounding Down ● Rounding Nearest ● Rounding Up
	Notional Flag	Indicates if the balance is solely for the calculation of interest and not for principal distributions.		
	Operating Expenses at Contribution	See UW Operating Expenses ($) definition.		
	Paid Through Date	The date of the last paid installment that has been paid by the borrower.	For a mortgage loan, the date the last payment of interest (for full or partial interest-only mortgage loans) or principal and interest (for amortizing mortgage loans) was received.	
	Percent of Initial Pool Balance	The unpaid principal balance percent of a mortgage loan in the pool, relative to the unpaid principal balance of the security at issuance.		
	Percent Pledged (Mega Relationships Record Type)	The percentage of Original Unpaid Principal Balance (UPB) of the Collateral CUSIP that is participating as a collateral to a Group/Pool backing a security.		
	Phase Year/Units	Concatenation of Phase Year and Phase Units with units counts in parentheses and phases separated by forward slash.		
	Physical Occupancy As-of-Date	The underwritten effective date of the received rent roll.		

Advanced Search Download Results Attribute Name	DUS Disclose Files Attribute Name	DUS Disclose Definition	DUS Disclose Definition Notes	Allowable Values
	Physical Occupancy at Contribution	See UW Physical Occupancy definition.		
	Preceding Fiscal Year Debt Service Amount (Loan Record Type)	For all properties underlying the mortgage loan, the total actual payment amount of principal and/or interest that covers the same number of months as the preceding fiscal year-end property operating statement.		
	Preceding Fiscal Year Debt Service Amount (Property Record Type)	The total actual principal and or interest payment amount that covers the first consecutive year end statement available. Payments include actual principal and or interest as required by the loan documents.	Calculate using the current allocated percentage to get the allocated amount for each property.	
	Preceding Fiscal Year DSCR (NCF) (Property Record Type)	A ratio of net cash flow (NCF) to debt service for the preceding fiscal year end statement available.		
	Preceding Fiscal Year Financial As Of Date (Loan Record Type)	For all properties underlying the mortgage, the last day of the period loan from the preceding fiscal year-end operating statements.		
	Preceding Fiscal Year Financial As Of Date (Property Record Type)	The last date for the preceding fiscal year end statement available.		
	Preceding Fiscal Year NCF (Loan Record Type)	For all properties underlying the mortgage loan, the total normalized NCF from the preceding fiscal year-end operating statements		

Advanced Search Download Results Attribute Name	DUS Disclose Files Attribute Name	DUS Disclose Definition	DUS Disclose Definition Notes	Allowable Values
	Preceding Fiscal Year Operating Expenses (Loan Record Type)	For all properties underlying the mortgage loan, the total normalized operating expense amount from the preceding fiscal year end operating statements.		
	Preceding Fiscal Year Physical Occupancy (Loan Record Type)	For all the properties underlying the mortgage loan, the weighted average percentage of units occupied from the preceding fiscal year end operating statements.		
	Preceding Fiscal Year Revenue (Loan Record Type)	For all properties underlying the mortgage loan, the amount of total revenues normalized, and annualized as applicable, from the preceding fiscal year end statements.		
	Prepayment Penalty / Premium Allocation	The amount of Prepayment Premiums paid to Investors for a security in the period.		
	Prepayment Provision (Security Record Type)	Sequential codes for each type of prepayment provision and the weighted average term of the provision in months following each code.	Also, in New Issuance Files Mega Relationships Record Type	● L = Lockout or prepayment is not allowed during this period ● YM = Yield Maintenance ● DEF = Defeasance ● O = Open or prepayment is allowed without prepayment premium during this period ● DP = Declining Premium ● Oth = Other Prepayment
	Prepayment Provision End Date (Security Record Type)	Sequential codes for each type of prepayment provision and the end date following each code.	The end date reflects the latest date for each code.	

Advanced Search Download Results Attribute Name	DUS Disclose Files Attribute Name	DUS Disclose Definition	DUS Disclose Definition Notes	Allowable Values
			Also, in New Issuance Files Mega Relationships Record Type.	
	Property / Collateral Contribution Date	The date that the property was contributed to the securitization.	If the property was part of the original transaction collateral, then the date is closing/securitization date. If the property was defeased or substituted, then this date would reflect the effective date of the defeasance or substitution.	
	Property Address (Issuance Files)	At securitization, the address of the property or properties which serve as the mortgage collateral are located.		
	Property City (Issuance Files)	At securitization, the name of the city where the property or properties which serve as mortgage collateral are located.		
	Property Name (Issuance Files)	At securitization, the name of the property which serves as mortgage collateral.		
	Property State (Issuance Files)	At securitization, the two-character abbreviated code representing the state in which the property or properties which serve as mortgage collateral are located.		
	Property Value ($) (Issuance Files)

Most Recent Value (Ongoing File) | The most recent appraised value of the property. | | |
| | Property Value As-of-Date (Issuance File) | The date that the most recent appraised value was effective. | | |

Advanced Search Download Results Attribute Name	DUS Disclose Files Attribute Name	DUS Disclose Definition	DUS Disclose Definition Notes	Allowable Values
	Most Recent Valuation Date (Ongoing File)			
	Property Zip Code (Issuance File)	At securitization, the zip (or postal) code for the property or properties which serve as mortgage collateral.		
	Prospectus Loan ID	See Loan ID		
	Publication Date	The date and time the disclosure for a security was published.	Time is Eastern Standard.	
	Realized Loss (Gain) to Trust	Any reduction or increase to the principal balance for a security without a corresponding principal payment.	This field will always be null.	
	Record Date	The date used to determine the holder of record for the current period payment. The holder of the security at the opening of business on this date will be paid interest on the payment date.		
	Record Type	The level of the data attributes.	Examples: Security, Loan or Property	
	Remaining Amortization Term (months)	At securitization, the number of remaining months over which the mortgage loan unpaid principal balance is scheduled to be amortized.		
	Remaining Loan Term (months) (Issuance Files)	At securitization, the number of remaining months to the maturity of the mortgage loan.		
	REMIC Collateral CUSIP	See CUSIP definition.		
	REMIC Collateral Transaction ID	See Transaction ID definition.		

Advanced Search Download Results Attribute Name	DUS Disclose Files Attribute Name	DUS Disclose Definition	DUS Disclose Definition Notes	Allowable Values
	Revenue at Contribution	See UW Effective Gross Income ($) definition.		
	Scheduled Principal Amount	The dollar amount of scheduled principal portion paid to the investor.		
	Second Preceding Fiscal Year Debt Service Amount (Loan Record Type)	For all properties underlying the mortgage loan, the total actual payment amount of principal and/or interest that covers the same number of months as the first consecutive year-end prior to the preceding fiscal year-end property operating statement.		
	Second Preceding Fiscal Year Debt Service Amount (Property Record Level)	The total actual principal and or interest payments for the first consecutive year end prior to the preceding fiscal year end statement as reported by the servicer. Payments include actual principal and or interest as required by the loan agreement.	It is calculated by using the current allocated percentage to get the allocated amount for each property.	
	Second Preceding Fiscal Year DSCR (NCF) (Property Record Type)	A ratio of net cash flow (NCF) to debt service for the first consecutive year end prior to the preceding fiscal year end statement.		
	Second Preceding Fiscal Year Financial As Of Date (Loan Record Type)	For all properties underlying the mortgage loan, the last day of the period from the first consecutive year-end operating statements prior to the preceding fiscal year-end operating statements.		

Advanced Search Download Results Attribute Name	DUS Disclose Files Attribute Name	DUS Disclose Definition	DUS Disclose Definition Notes	Allowable Values
	Second Preceding Fiscal Year Financial As Of Date (Property Record Type)	The end date of the operating statement that relates to the first consecutive year end prior to the preceding fiscal year end statement.		
	Second Preceding Fiscal Year NCF (Loan Record Type)	For all properties underlying the mortgage loan, the total normalized NCF from the first consecutive year-end operating statements prior to the preceding fiscal year-end operating statements.		
	Second Preceding Fiscal Year Operating Expenses (Loan Record Type)	For all properties underlying the mortgage loan, the total normalized operating expense amount from the first consecutive year-end operating statements prior to the preceding fiscal year-end operating statements.		
	Second Preceding Fiscal Year Physical Occupancy (Loan Record Type)	For all properties underlying the mortgage loan, the percentage of units occupied as of the first consecutive year end prior to the preceding fiscal year end.		
	Second Preceding Fiscal Year Revenue (Loan Record Type)	For all properties underlying the mortgage loan, the total normalized revenue amount from the first consecutive year-end operating statements prior to the preceding fiscal year-end operating statements for all properties underlying the mortgage loan.		

Advanced Search Download Results Attribute Name	DUS Disclose Files Attribute Name	DUS Disclose Definition	DUS Disclose Definition Notes	Allowable Values
	Security Footnote	A description on the Annex A with Additional Disclosure.		
	T12 NCF DSCR - Period (Credit Facility Record Type)	For Credit Facilities, the trailing 12 month period for which the DSCR value reported is applicable.		
	T12 NCF DSCR - Period (Loan and Property Record Type)	For Credit Facilities properties, the 12 month period for which the operating statement data applies.		
	T12 NCF DSCR (x)	For Credit Facilities, DSCR is based on net cash flow for the deal calculated from twelve months preceding the current reporting period for all properties in the facility.		
	T3 NCF DSCR - Period (Credit Facility Record Type)	For Credit Facilities, the trailing 3 month period for which the DSCR value reported is applicable.		
	T3 NCF DSCR - Period (Loan and Property Record Type)	For Credit Facilities properties, the 3 month period for which the operating statement data applies.		
	T3 NCF DSCR (x)	For Credit Facilities, the DSCR based on net cash flow for the deal calculated using the three months preceding the current reporting period for all properties in the facility.		
	Total Loan Amount at Origination	See Original UPB definition.		
	Total Penalty for the Period	The total prepayment premium paid to the Investor within the current period for all loans backing all classes within the transaction.		

Advanced Search Download Results Attribute Name	DUS Disclose Files Attribute Name	DUS Disclose Definition	DUS Disclose Definition Notes	Allowable Values
	Total Units	At securitization, the total number of residential units in all phases of the property securing the mortgage loan.		
	Trustee	Fannie Mae, in its capacity as trustee, its successors or assigns, which has the responsibilities specified for this capacity in the Trust Documents.		
	Unscheduled Principal Collections (Loan Record Type)	The dollar amount of prepaid principal included in the current payment.		
	Unscheduled Principal Collections (Security Record Type) Unscheduled Principal Collections/Other Principal Adjustments (Collateral Record Type)	Principal prepayments and other unscheduled payments of principal on the loan that are passed through to the certificate holders on the current distribution date.		
	UW Economic Occupancy (%) (Property Record Type)	At underwriting, net rental collections used in the underwriting of the mortgage loan expressed as a percentage of gross potential rent.	Gross potential rent adjusted to account for vacancy loss, bad debt expense, and rental concessions, as a percentage of total gross potential rent.	
	UW NCF ($)	At securitization, the underwritten net cash flow (NCF).	Formerly known as UW NOI, NCF is calculated by taking the Effective Gross Income (EGI) amount less Total Operating Expenses (TOE) and Capital Expenditures (Replacement Reserves).	

Advanced Search Download Results Attribute Name	DUS Disclose Files Attribute Name	DUS Disclose Definition	DUS Disclose Definition Notes	Allowable Values
	UW Total Operating Expense ($)	The underwritten annual total dollar amount of all expenses related to operating the property, not including Capital Expenditures (Replacement Reserves).		
	Valuation Amount at Contribution	The estimated value of the related mortgaged property as reported to Fannie Mae by the Lender , which value may equal either the appraised value (based on the third party appraisal) or the Lender's underwriting value (based on the Lender's evaluation of the mortgaged property and the Lender's analysis of market rent, sales comparables, and projected market trends).		
	WA Amortization Term - Issuance	At securitization, the weighted average of the original amortization terms for all mortgage loans in the security.	The weight for the calculation is the Scheduled Unpaid Principal Balance amount of each loan. Also, in New Issuance Files Mega Relationships Record Type. At Issuance WA Amortization Term for Converted Megas issued prior to April 30, 2018 will not be populated on DUS Disclose.	
	WA Lifetime Pass-Through Rate Cap - Issuance	At securitization, for an adjustable-rate mortgage security, the weighted average of the lifetime pass through rate caps for all mortgage loans within a security.	The weight for the calculation is the Scheduled Unpaid Principal Balance amount of each loan.	

Advanced Search Download Results Attribute Name	DUS Disclose Files Attribute Name	DUS Disclose Definition	DUS Disclose Definition Notes	Allowable Values
	WA Lifetime Pass-Through Rate Floor - Issuance	At securitization, for an adjustable-rate mortgage security, the weighted average of the lifetime pass through rate floors for all mortgage loans within a security.	The weight for the calculation is the Scheduled Unpaid Principal Balance amount of each loan.	
	WA MBS Margin - Issuance	At securitization, the weighted average of the net loan margins for all mortgage loans in the mortgage backed security (MBS), expressed as a percentage.	The weight for the calculation is the Scheduled Unpaid Principal Balance amount of each loan at issuance.	