

## Multifamily Structured Credit Risk (MSCR) Notes

### DISCLAIMER

European institutional investors should be aware that Freddie Mac makes no representation or warranty concerning the accuracy or completeness of the information set forth herein as it relates to the due diligence requirements under Article 5 or otherwise. An EU institutional investor must conduct its own independent review and make its own assessment of the completeness of the information set forth herein with respect to the due diligence obligations set forth in Article 5. EU and UK institutional investors should consult legal, tax and accounting advisors for assistance in assessing the information set forth herein and concluding that the due diligence obligations under Article 5 have been satisfied.

MSCR to ESMA Annex 3 Mapping

**Explanatory Notes:**

- The table below maps MSCR data fields to ESMA data fields where relevant MSCR data fields exist
- MSCR data fields are based on the CREFC IRP Loan Periodic Update ("LPU") and Loan Setup ("LSU") files. See [www.crefc.com](http://www.crefc.com) for more details on reporting guidelines for commercial mortgages
- The MSCR files for each transaction can be accessed via the MSIA link (<https://fm-msia.com/>)
- In some cases the relevant ESMA field can be populated by a transformation of one or more MSCR fields, which is outlined in the column "Input for ESMA field and Explanations".
- Note that in selected cases there can be some approximations, specifically for list fields.
- Note that ESMA format for dates is YYYY-MM-DD, in LPU/LSU the format is YYYYMMDD. The ESMA format for monetary values is preceded by the currency, so use e.g. "USD 100000.00"

ESMA - FIELD CODE	ESMA - FIELD NAME	ESMA - FORMAT	ESMA - CONTENT TO REPORT	ESMA - ND1 - ND4 ALLOWED ?	ESMA - ND5 ALLOWED ?	RELEVANT LPU / LSU FIELD(S)	LPU / LSU FIELD NAME(S)	INPUT FOR ESMA FIELD AND EXPLANATIONS
CREL1	Unique Identifier	{ALPHANUM-28}	The unique identifier assigned by the reporting entity in accordance with Article 11(1) of Delegated Regulation (EU) .../... [include number].	NO	NO			Freddie Mac does not provide a unique identifier based on EU disclosure guidelines. Users are encouraged to build an ID based on: -LEI number of reporting identity -Date combination of when the securitisation was issued -Letter N, since the securitisation is non-ABCP
CREL2	Original Obligor Identifier	{ALPHANUM-1000}	Original unique obligor identifier. The identifier must be different from any external identification number, in order to ensure anonymity of the obligor. The reporting entity must not amend this unique identifier.	NO	NO			Freddie Mac does not provide an Obligor Identifier in its loan-level data. A unique identifier can be constructed by using the respective Loan Seller, Zip code and Property name, all of which are available in the loan-level appendix of the respective Offering Circular Example: "WellsFargoBank_63123_VillagesGeneralGrant"
CREL3	New Obligor Identifier	{ALPHANUM-1000}	If the original identifier in field CREL2 cannot be maintained in this field enter the new identifier here. If there has been no change in the identifier, enter the same identifier as in CREL2. The reporting entity must not amend this unique identifier.	NO	NO			Freddie Mac does not provide an Obligor Identifier in its loan-level data. A unique identifier can be constructed by using the respective Loan Seller, Zip code and Property name, all of which are available in the loan-level appendix of the respective Offering Circular Example: "WellsFargoBank_63123_VillagesGeneralGrant"
CREL4	Original Underlying Exposure Identifier	{ALPHANUM-1000}	Unique underlying exposure identifier. The identifier must be different from any external identification number, in order to ensure anonymity of the obligor. The reporting entity must not amend this unique identifier.	NO	NO	LSU 3 / LPU 3	Loan ID	Relevant LPU field
CREL5	New Underlying Exposure Identifier	{ALPHANUM-1000}	If the original identifier in field CREL4 cannot be maintained in this field enter the new identifier here. If there has been no change in the identifier, enter the same identifier as in CREL4. The reporting entity must not amend this unique identifier.	NO	NO	No Change, see Above	No Change, see Above	Relevant LPU field
CREL6	Data Cut-Off Date	{DATEFORMAT}	The data cut-off date for this data submission.	NO	NO	LPU 136	Reporting Period End Date	Relevant LPU Field
CREL7	Pool Addition Date	{DATEFORMAT}	The date that the underlying exposure was transferred to the SSPE. For all underlying exposures in the pool as at the cut-off date in the first report submitted to the securitisation repository, if this information is not available then enter the later of: (i) the closing date of the securitisation, and (ii) the origination date of the underlying exposure.	NO	YES			For MSCR transactions, the Pool Addition Date refers to the Closing Date of the securitization which can be found in the respective Offering Circular
CREL8	Date Of Restructuring	{DATEFORMAT}	Enter the date at which the underlying exposure has been restructured. Restructuring refers to any changes made to the contractual terms of the underlying exposure agreement due to forbearance, including payment holidays, arrears capitalisation, change of interest rate basis or margins, fees, penalties, maturity and/or other generally-accepted measures of restructuring due to forbearance.  In the event of multiple dates, all dates must be provided in accordance with the XML schema.	YES	YES	LPU 130	Modification Execution Date	Relevant LPU Field
CREL9	Date Of Repurchase	{DATEFORMAT}	Date on which the underlying exposure was repurchased from the pool.	NO	YES	LPU 29 LPU 32	- Liquidation / Prepayment Date - Liquidation / Prepayment Code	If LPU 32 = 4 (Repurchase), then LPU 29 refers to the Loan Repurchase Date
CREL10	Date Of Substitution	{DATEFORMAT}	If underlying exposure was substituted for another underlying exposure after the Securitisation Date, the date of such substitution.	NO	YES			Not Applicable - No substitutions allowed.
CREL11	Redemption Date	{DATEFORMAT}	Date on which account redeemed or (for defaulted underlying exposures) the date that the recovery process was completed.	NO	YES			MSCR are synthetic CRT transactions and hence the redemption date corresponds to the removal date from the reference portfolio. Removal of an underlying reference loan can be followed in the monthly LPU data tape
CREL12	Geographic Region - Obligor	{NUTS}	The geographic region (NUTS3 classification) where the obligor is located. Where no NUTS3 classification has been produced by Eurostat (e.g. a non-EU jurisdiction), enter the two-digit country code in {COUNTRYCODE_2} format followed by 'ZZZ'.	YES	NO			Always "USZZZ"
CREL13	Geographic Region Classification	{YEAR}	Enter the year of the NUTS3 classification used for the Geographic Region fields, e.g. 2013 for NUTS3 2013. All geographic region fields must use the same classification consistently for each underlying exposure and across all underlying exposures in the data submission. For example, reporting using NUTS3 2006 for some geographic fields relating to a given underlying exposure and reporting using NUTS3 2013 for other fields relating to the same exposure is not allowed. In the same way, reporting geographic region fields using NUTS3 2006 for some underlying exposures and reporting geographic region fields using NUTS3 2013 for other underlying exposures in the same data submission is not allowed.	YES	NO			Always "NDS"
CREL14	Special Scheme	{ALPHANUM-10000}	If the underlying exposure is governed by any special public sector arrangement, enter the full name (without abbreviations) of the arrangement here.	YES	YES			Always "NDS"
CREL15	Origination Date	{DATEFORMAT}	Date of original underlying exposure advance.	YES	NO	LSU 91	Origination Date	Relevant LSU field
CREL16	Start Date Of Amortisation	{DATEFORMAT}	The date that amortisation will commence on the securitised underlying exposure (this can be a date prior to the securitisation date).	YES	YES	LSU 12 LSU 10 LSU 92	- Interest Only (Y/N) - First Loan Payment Due Date - Original Interest Only Term	If LSU 12 = N - Use LSU 10 - Otherwise use the payment date immediately after the First Payment Date plus the number of months indicated by LSU 92
CREL17	Maturity Date At Securitisation Date	{DATEFORMAT}	The maturity date of the underlying exposure as defined in the underlying exposure agreement. This would not take into account any extended maturity date that may be allowed under the underlying exposure agreement.	NO	YES	LSU 43	Maturity Date At Contribution	Relevant LSU field
CREL18	Maturity Date	{DATEFORMAT}	The date of maturity of the underlying exposure or expiry of the lease.	NO	YES	LPU 11	Maturity date	Relevant LPU field
CREL19	Original Term	{INTEGER-9999}	Original contractual term (number of months) at the origination date.	YES	YES	LSU 6	Original Term Of Loan	Relevant LSU field
CREL20	Duration Of Extension Option	{INTEGER-9999}	Duration in months of any maturity extension option available to the underlying exposure. In the event of multiple maturity extensions available, enter the duration of the option that has the shortest extension period for the underlying exposure.	NO	YES			Always "NDS"
CREL21	Nature Of Extension Option	{LIST}	Reference thresholds involved for the possibility of triggering/exercising the extension option referred to in field CREL20:  Minimum Interest Coverage Ratio (MICR) Minimum Debt Service Coverage Ratio (MDSC) Maximum Loan-To-Value (MLTV) Multiple Conditions (MLTC) Other (OTHR)	NO	YES			Always "NDS"
CREL22	Currency Denomination	{CURRENCYCODE_3}	The underlying exposure currency denomination.	NO	NO			Always "USD"

CREL23	Current Principal Balance	(MONETARY)	Outstanding principal balance of the securitised underlying exposure. This includes any amounts that are secured by the mortgage and will be classed as principal in the securitisation. For example if fees have been added to the underlying exposure balance and are part of the principal in the securitisation these are to be added. It excludes any interest arrears or penalty amounts. Current balance includes the principal arrears. However, savings amount are to be deducted if a subparticipation exists. (i.e. underlying exposure balance = underlying exposure +/- subparticipation; +/- 0 if no subparticipation).  Include the currency in which the amount is denominated, using (CURRENCYCODE_3) format.	NO	YES	LPU 36	Actual Balance	Relevant LPU Field
CREL24	Original Principal Balance	(MONETARY)	Original underlying exposure balance (inclusive of fees). This is referring to the balance of the underlying exposure at the underlying exposure origination date, not the date of the underlying exposure's sale to the SSPE or the closing date of the securitisation.  Include the currency in which the amount is denominated, using (CURRENCYCODE_3) format.	YES	YES	LSU 5	Original Note Amount	Relevant LSU field
CREL25	Original Principal Balance At Securitisation Date	(MONETARY)	Original Principal Balance of the securitised underlying exposure at the Securitisation Date as identified in the Offering Circular.  Include the currency in which the amount is denominated, using (CURRENCYCODE_3) format.	YES	NO	LSU 44	Scheduled Principal Balance At Contribution	Relevant LSU field
CREL26	Committed Undrawn Facility Underlying Exposure Balance	(MONETARY)	The total whole underlying exposure remaining facility/ Undrawn balance at the end of the period. The total whole underlying exposure remaining facility at the end of the Interest Payment Date that the obligor can still draw upon.  Include the currency in which the amount is denominated, using (CURRENCYCODE_3) format.	NO	NO			Always "USD 0.00"
CREL27	Total Other Amounts Outstanding	(MONETARY)	Cumulative outstanding amounts on loan (e.g. insurance premium, ground rents, cap ex) that have been expended by SSPE/Servicer. The cumulative amount of any property protection advances or other sums that have been advanced by the Servicer or SSPE and not yet reimbursed by the obligor.  Include the currency in which the amount is denominated, using (CURRENCYCODE_3) format.	NO	YES			Always "NDS"
CREL28	Purchase Price	(PERCENTAGE)	Enter the price, relative to par, at which the underlying exposure was purchased by the SSPE. Enter 100 if no discounting was applied.	NO	YES			Always "NDS"
CREL29	Latest Utilisation Date	(DATEFORMAT)	Date of the most recent utilisation/drawdown of the underlying exposure facility agreement.	NO	YES			Always "NDS"
CREL30	Purpose	(LIST)	Underlying exposure purpose - In the event of multiple purposes, report the option that best describes the arrangement:  Acquisition for investment (ACQI) Acquisition for Liquidation (ACQL) Refinancing (RFIN) Construction (CNST) Redevelopment (RDVL) Other (OTHR)	YES	NO			As per the loan-level appendix of the respective Offering Circular (Acquisition, Refinance)"
CREL31	Structure	(LIST)	Underlying Exposure Structure:  Whole loan - not split into subordinated debt items/notes (LOAN) Participated mortgage underlying exposure with pari passu debt outside the issuance vehicle (PMLP) Participated mortgage underlying exposure with subordinate debt outside the issuance vehicle (PMLS) A Loan; as part of an A/B participation structure (AABP) B Loan; as part of an A/B participation structure (BABP) A Loan; as part of an A/B/C participation structure (AABC) B Loan; as part of an A/B/C participation structure (BABC) C Loan; as part of an A/B/C participation structure (CABC) Structural mezzanine financing (MZSD) Subordinate debt with separate loan documentation outside the issuance vehicle (SOBD) Other (OTHR)	YES	NO			Use "LOAN"  To the extent that there would be deviations from "LOAN", these would be indicated in the respective Offering Circular
CREL32	Waterfall A-B Pre Enforcement Scheduled Interest Payments	(LIST)	Waterfall pre-enforcement schedule for interest payments:  Sequential (SQNL) B loan first (BLLF) Pro-Rata (PRAT) Modified Pro-Rata (MPRT) Other (OTHR)	NO	YES			Always "NDS"
CREL33	Waterfall A-B Pre Enforcement Scheduled Principal Payments	(LIST)	Waterfall pre-enforcement schedule for principal payments:  Sequential (SQNL) B loan first (BLLF) Pro-Rata (PRAT) Modified Pro-Rata (MPRT) Other (OTHR)	NO	YES			Always "NDS"
CREL34	Principal Payment Allocation To Senior Loan	(PERCENTAGE)	Insert % of all periodical scheduled principal payments that go to the senior loan (e.g. A loan), if there are multiple loans in the lending arrangement (for example, if field CREL31 is completed with values PMLS, AABP, BABP, AABC, BABC, or CABC).	NO	YES			Always "NDS"
CREL35	Waterfall Type	(LIST)	Type of waterfall governing the overall lending arrangement:  Interest A, principal A, interest B, principal B (IPIB) Interest A, interest B, principal A, principal B (IIPB) Other (OTHR)	NO	YES			Always "NDS"
CREL36	Defaulted Underlying Exposure Purchase Price	(PERCENTAGE)	If the subordinated loan holder (e.g. B loan holder) can purchase the senior loan in an event of default, enter the purchase price as per the applicable co-lender/intercreditor agreement.	NO	YES			Always "NDS"
CREL37	Cure Payments Possible?	(LIST)	Can the subordinated loan holder (e.g. B loan holder) make cure payments in lieu of the mortgage obligor? Select from the list below:  No possibility to make cure payment (NCPN) Cure payment can be made up to a fixed number limit over the lifetime of the underlying exposure (FNLP) Cure payment can be made without limit over the lifetime of the underlying exposure (NLCP) Other (OTHR)	YES	NO			Always "NCPN"
CREL38	Restrictions On Sale Of Subordinated Loan?	(Y/N)	Are there any restrictions on the ability of the subordinated loan holder (e.g. B loan holder) to sell off the loan to a third party?	NO	YES			If Additional Financing in Place (Existing) in the loan-level appendix of the respective Offering Circular indicates "Y" -Use "Y" -Otherwise use "NDS"
CREL39	Subordinated Loan Holder Affiliated To Obligor?	(Y/N)	Is there a non-disfranchised subordinated loan holder (e.g. B loan holder) affiliated (i.e. part of the same financial group) as the commercial mortgage obligor?	NO	YES			Always "NDS"
CREL40	Subordinated Loan Holder Control Of Workout Process	(Y/N)	Can the subordinated loan holder (e.g. B loan holder) exercise control over the decision to and process to enforce and sell the loan collateral?	NO	YES			Always "NDS"

CREL41	Do Non-Payments On Prior Ranking Claims Constitute A Default Of The Underlying Exposure?	(Y/N)	Do Non-payments on Prior Ranking Claims Constitute a Default of the underlying exposure?	NO	YES			Always "NDS"
CREL42	Do Non-Payments On Equal Ranking Underlying Exposures Constitute Default Of Property?	(Y/N)	Do Non-payments on Equal Ranking underlying exposures Constitute Default of Property?	NO	YES			There might be cross-defaulted loans which are highlighted in the loan-level appendix of the respective Offering Circular (see under "Crossed Loans (Y/N)"). If this is the case -Use Y -Otherwise use NDS
CREL43	Noteholder Consent	(Y/N)	Is Noteholder consent needed in any restructuring? Restructuring includes changes in the securitised underlying exposure's payment terms (including interest rate, fees, penalties, maturity, repayment schedule, and/or other generally-accepted measures of payment terms)	YES	NO			Always "N"
CREL44	Noteholder Meeting Scheduled	(DATEFORMAT)	What date is the next noteholder meeting scheduled for?	NO	YES			Always "NDS"
CREL45	Syndicated	(Y/N)	Is the underlying exposure syndicated? Method used by the SSPE to acquire ownership in the syndicated underlying exposure:	YES	NO			Always "N"
CREL46	Participation Of SSPE	(LIST)	Assignment (ASGN) Novation (NOVA) Equitable Assignment (EQTB) Funded Participation (pari passu interest) (PARI) Junior Participation Interest (JUNP) Legal Assignment (LGAS) Notified Assignment (NOTA) Sub Participation (SUBP) Risk Participation (RSKP) Sale Event (SALE) Other (OTHR)	NO	YES			Always "NDS"
CREL47	Consequence For Breach Of Financial Covenant	(LIST)	The consequence for the financial covenant breach: Event of Default (EDFT) Additional Amortisation (AAMR) Cash Trap Reserve (CTRS) Terminate Property Manager (TPRM) Other (OTHR)	NO	YES			Always "EDFT"
CREL48	Financial Information Non-Submission Penalties	(Y/N)	Are there any monetary penalties for obligor's failure to submit required financial information (Op. Statement, Schedule, etc.) as per underlying exposure documents?	YES	NO			Always "N"
CREL49	Recourse	(Y/N)	Is there recourse (full or limited) to the obligor's assets beyond the proceeds of any collateral for this underlying exposure?	YES	YES	LSU 73	Recourse (Y/N)	Relevant LSU field
CREL50	Recourse - 3rd Party	(Y/N)	Is there recourse (full or limited) to another party (e.g. guarantor) in the event the obligor defaults on an obligation under the underlying exposure agreement?	YES	YES			Use N unless it is specifically outlined in the respective Offering Circular that 3rd Party Recourse is relevant for some loans in which case use Y for the respective loans
CREL51	Servicing Standard	(Y/N)	Does the servicer of this securitised underlying exposure also service the whole underlying exposure or only one/several components of the whole underlying exposure (e.g. A or B component, or one of the pari-passu components)?	NO	NO			Always "Y"
CREL52	Amounts Held In Escrow	(MONETARY)	Total balance of the legally charged reserve accounts as at the data cut-off date. Include the currency in which the amount is denominated, using (CURRENCYCODE_3) format.	NO	YES			Existence of Escrow accounts is indicated in the loan-level appendix of the respective Offering Circular (see under "Tax Escrow (Y/N)", "Insurance Escrow (Y/N)" and "Other Escrow (Y/N)"). If not indicated, use NDS
CREL53	Collection Of Escrows	(Y/N)	Enter Y if any payments are held in reserve accounts to cover ground lease payments, insurance or taxes only (not maintenance, improvements, capex etc.) as required under the underlying exposure agreement.	YES	NO			Existence of Escrow accounts is indicated in the loan-level appendix of the respective Offering Circular (see under "Tax Escrow (Y/N)", "Insurance Escrow (Y/N)" and "Other Escrow (Y/N)"). If not indicated, use NDS
CREL54	Collection Of Other Reserves	(Y/N)	Are any amounts other than ground rents taxes or insurance held in reserve accounts as required under the terms of the underlying exposure agreement for tenant improvements, leasing commissions and similar items in respect of the related property or for purpose of providing additional collateral for such underlying exposure?	NO	NO	LSU 77	Collection of Other Reserves (Y/N)	Relevant LSU field
CREL55	Trigger For Escrow To Be Held	(LIST)	Type of trigger event leading to amounts to be paid into escrow: No Trigger (NONE) Loan to Value Trigger (LVTX) Interest Coverage Trigger (ICVR) Debt Service Coverage Trigger (DSCT) Net Operating Income Trigger (NOIT) Other (OTHR)	YES	NO			Always "ND1"
CREL56	Target Escrow Amounts / Reserves	(MONETARY)	Target escrow amounts / reserves. Include the currency in which the amount is denominated, using (CURRENCYCODE_3) format.	NO	YES			See CREL52
CREL57	Escrow Account Release Conditions	(ALPHANUM-1000)	Release conditions of the escrow account. If multiple conditions, each condition must be provided in accordance with the XML schema. When the Cash Reserve can be used:	NO	YES			See CREL52
CREL58	Conditions Of Drawing Cash Reserve	(LIST)	Financial Covenant Breach (FICB) Trigger Event (TREV) Other (OTHR)	NO	YES			See CREL52
CREL59	Escrow Account Currency	(CURRENCYCODE_3)	Escrow account currency denomination.	NO	YES			Always "USD"
CREL60	Escrow Payments Currency	(CURRENCYCODE_3)	Currency of the Escrow payments. Fields CREL52 and CREL56.	NO	YES			Always "USD"
CREL61	Total Reserve Balance	(MONETARY)	Total balance of the reserve accounts at the underlying exposure level at the underlying exposure Payment Date. Includes Maintenance, Repairs & Environmental, etc. (excludes Tax & Insurance reserves). Includes LCs for reserves. To be completed if field CREL54 ("Collection of Other Reserves") is equal to "Y" = Yes. Include the currency in which the amount is denominated, using (CURRENCYCODE_3) format.	NO	YES			See CREL52
CREL62	Reserve Balance Currency	(CURRENCYCODE_3)	Reserve account currency denomination.	NO	YES			Always "USD"
CREL63	Escrow Trigger Event Occurred	(Y/N)	Enter Y if an event has occurred which has caused reserve amounts to be established. Enter N if payments are built up as a normal condition of the underlying exposure agreement.	NO	NO			See CREL52
CREL64	Amounts Added To Escrows In Current Period	(MONETARY)	Amount that has been added to any escrows or reserves between the previous data cut-off date and the data cut-off date of this data submission. Include the currency in which the amount is denominated, using (CURRENCYCODE_3) format.	NO	YES			See CREL52

CREL65	Revenue	(MONETARY)	Total revenues from all sources for the period covered by the most recent financial operating statement (i.e. year to date or trailing 12 months) for all the properties. May be normalised if required by the applicable servicing agreement. Include the currency in which the amount is denominated, using (CURRENCYCODE_3) format.	YES	NO	LPU 66	Revenue	Relevant LPU Field
CREL66	Operating Expenses At Securitisation Date	(MONETARY)	Total underwritten operating expenses for all the properties as described in the Offering Circular. These may include real estate taxes, insurance, management, utilities, maintenance and repairs and direct property costs to the landlord; capital expenditures and leasing commissions are excluded. If multiple properties exist, total the operating expenses of the underlying properties. Include the currency in which the amount is denominated, using (CURRENCYCODE_3) format.	NO	YES	LSU 71	Operating Expenses at Contribution	Relevant LSU field
CREL67	Capital Expenditures At Securitisation Date	(MONETARY)	Anticipated capex over the life of the securitised underlying exposure at Securitisation Date (as opposed to repairs and maintenance) if identified in the Offering Circular. Include the currency in which the amount is denominated, using (CURRENCYCODE_3) format.	NO	YES			Use "NDS" as there is no information identified in the Offering Circular. Information on relevant Capital Expenditures can be found in the respective Multifamily Operating Statements. Note that the amounts refer to ongoing CapEx rather than over the life of the loan
CREL68	Financial Statement Currency	(CURRENCYCODE_3)	The currency used in the initial financial reporting of fields CREL65 - CREL66.	YES	NO			Always "USD"
CREL69	Obligor Reporting Breach	(Y/N)	Is obligor in breach of its obligation to deliver reports to underlying exposure servicer or lender? Y = Yes or N = No.	YES	NO			Always "N"
CREL70	Debt Service Coverage Ratio Method	(LIST)	Define the calculation of the Debt Service Coverage Ratio financial covenant requirement, the inferred method of calculation. If the calculation method differs between the whole loan and the A-loan, then enter the A-loan method.  Current Period (CRRP) Projection - 6 month forward calculation (PRSF) Projection - 12 month forward calculation (PRTF) Combo 6 - Current period and a 6 month forward calculation (CMSF) Combo 12 - Current period and a 6 month forward calculation (CMTF) Historical - 6 month forward calculation (HISF) Historical - 12 month forward calculation (HITF) Modified - Includes a reserve injection or a percentage rental income probability calculation (MODI) Multiple Period - Consecutive period calculation (MLTP) Other (OTHR)	YES	NO			Always "CRRP"
CREL71	Debt Service Coverage Ratio Indicator At Securitisation Date	(LIST)	How the Debt Service Coverage Ratio is calculated or applied when an underlying exposure relates to multiple properties:  Partial - Not all properties received financials, servicer to leave empty (PRTL) Average - Not all properties received financials, servicer allocates debt service only to properties where financials are received (AVER) Full - All statements collected for all properties (FULL) Worst Case - Not all properties received financials, servicer allocates 100% of debt service to all properties where financials are received (WCAS) None Collected - No financials were received (NCOT) Consolidated - All properties reported on one "rolled up" financial from the obligor (COND) Whole loan based on loan agreements (WLAG) Whole loan based on other method (WLOT) Trust Note based on loan agreement (TNAG) Trust Note based on other method (TNOT) Other (OTHR)	NO	YES			Use "NDS" for single properties. Use "FULL" for multiple properties
CREL72	Most Recent Debt Service Coverage Ratio Indicator	(LIST)	How the Debt Service Coverage Ratio is calculated or applied when an underlying exposure relates to multiple properties:  Partial - Not all properties received financials, servicer to leave empty (PRTL) Average - Not all properties received financials, servicer allocates debt service only to properties where financials are received (AVER) Full - All statements collected for all properties (FULL) Worst Case - Not all properties received financials, servicer allocates 100% of debt service to all properties where financials are received (WCAS) None Collected - No financials were received (NCOT) Consolidated - All properties reported on one "rolled up" financial from the obligor (COND) Whole loan based on loan agreements (WLAG) Whole loan based on other method (WLOT) Trust Note based on loan agreement (TNAG) Trust Note based on other method (TNOT) Other (OTHR)	NO	YES			Use "NDS" for single properties. Use "FULL" for multiple properties
CREL73	Debt Service Coverage Ratio At The Securitisation Date	(PERCENTAGE)	The Debt Service Coverage Ratio calculation for the securitised underlying exposure, at the Securitisation Date, based on the underlying exposure documentation.	YES	NO	LSU 84	DSCR (NCF) at Contribution	Relevant LSU field
CREL74	Current Debt Service Coverage Ratio	(PERCENTAGE)	Current Debt Service Coverage Ratio calculation for the securitised underlying exposure, based on the underlying exposure documentation.	YES	NO	LPU 97	Most Recent DSCR (NCF)	Relevant LPU Field
CREL75	Original Loan-To-Value	(PERCENTAGE)	The Loan to Value ratio (LTV) for the entire lending arrangement (i.e. not just reflecting the securitised loan amount), as at the Securitisation Date.	YES	NO	LSU 5 LSU 67	- Original Note Amount - Valuation Amount at Contribution	Use LSU 5 divided by LSU 67
CREL76	Current Loan-To-Value	(PERCENTAGE)	Current Loan to Value ratio (LTV) for the entire lending arrangement (i.e. not just reflecting the securitised loan amount).	YES	NO	LPU 36 LPU 75	- Actual Balance - Most Recent Value	Use LPU 36 divided by LPU 75
CREL77	Interest Coverage Ratio At The Securitisation Date	(PERCENTAGE)	The Interest Coverage Ratio calculation for the securitised underlying exposure, at the Securitisation Date.	YES	NO	LSU 12	Interest Only (Y/N)	IF LSU 12 = Y - Use CREL 73 (Debt Service Coverage Ratio At The Securitisation Date) - Otherwise use "ND2"
CREL78	Current Interest Coverage Ratio	(PERCENTAGE)	Current Interest Coverage Ratio calculation for the securitised underlying exposure.	YES	NO	LSU 12	Interest Only (Y/N)	IF LSU 12 = Y - Use CREL 74 (Current Debt Service Coverage Ratio) - Otherwise use "ND2"

CREL79	Interest Coverage Ratio Method	(LIST)	Define the calculation of the Interest Coverage Ratio financial covenant requirement at the level of the securitised underlying exposure (or the whole underlying exposure level if not specified for any specific underlying exposure arrangements within the overall lending arrangement), the inferred method of calculation:  Current Period (CRRP) Projection - 6 month forward calculation (PRSF) Projection - 12 month forward calculation (PRTF) Combo 6 - Current period and a 6 month forward calculation (CMSF) Combo 12 - Current period and a 6 month forward calculation (CMTF) Historical - 6 month forward calculation (HSF) Historical - 12 month forward calculation (H1TF) Modified - Includes a reserve injection or a percentage rental income probability calculation (MODI) Multiple Period - Consecutive period calculation (MLTP) Other (OTHR)	NO	YES			Always "CRRP"
CREL80	Number Of Properties At Securitisation Date	(INTEGER-9999)	The number of properties that serve as security for the underlying exposure at the Securitisation Date.	NO	YES	LSU 54	Number of Properties at Contribution	Relevant LSU field
CREL81	Number Of Properties At Data Cut-Off Date	(INTEGER-9999)	The number of properties that serve as security for the underlying exposure.	YES	NO	LPU 86	Number of Properties	Relevant LPU Field
CREL82	Properties Collateralised To The Underlying Exposure	(ALPHANUM-1000)	Enter the unique collateral identifiers (CREC4) of the properties that serve as security for the underlying exposure at the data cut-off date. If multiple properties enter all of the identifiers as set out in the XML schema.	NO	NO			There is no unique Collateral Identifier directly available but use combination of Zip Code and Property Name as unique identifier which are available in the loan-level appendix of the respective Offering Circular (see also CREC 3/4)  Example: "63123 VillagesGeneralGrant"
CREL83	Property Portfolio Value At Securitisation Date	(MONETARY)	The valuation of the properties securing the underlying exposure at the Securitisation Date as described in the Offering Circular. If multiple properties then sum the value of the properties.  Include the currency in which the amount is denominated, using [CURRENCYCODE_3] format.	NO	YES	LSU 67	Valuation Amount at Contribution	In case of single property, use LSU 67, in case of multiple properties, sum up all LSU 67 values for the respective loan
CREL84	Property Portfolio Valuation Currency At Securitisation Date	(CURRENCYCODE_3)	The currency of the valuation in CREL83.	NO	YES			Always "USD"
CREL85	Status Of Properties	(LIST)	Status of properties. Where multiple situations from the list below exist, choose the situation which best represents the overall set of properties.  Lasting Power of Attorney (LPOA) Receivership (RCVR) In Foreclosure (FCLS) Real Estate Owned (REOW) Defeased (DFSD) Partial Release (PRLS) Released (RLSD) Same as at Securitisation Date (SCDT) In special servicing (SSRV) Other (OTHR)	NO	YES	LPU 76 LPU 77	- Workout Strategy - Most Recent Special Servicer Transfer Date	If LPU 77 is filled out, use "SSRV" If LPU 76 = 2, use "FCLS" If LPU 76 = 7, use "REOX" Otherwise use "SCDT"
CREL86	Valuation Date At Securitisation Date	(DATEFORMAT)	The date the valuation was prepared for the values disclosed in the Offering Circular. For multiple properties, if several dates, take the most recent date.	NO	YES	LSU 68	Valuation Date at Contribution	Relevant LSU field
CREL87	Amortisation Type	(LIST)	Type of amortisation of the underlying exposure including principal and interest.  French - i.e. Amortisation in which the total amount — principal plus interest — repaid in each instalment is the same. (FRXX) German - i.e. Amortisation in which the first instalment is interest-only and the remaining instalments are constant, including capital amortisation and interest. (DEXX) Fixed amortisation schedule - i.e. Amortisation in which the principal amount repaid in each instalment is the same. (FIXE) Bullet - i.e. Amortisation in which the full principal amount is repaid in the last instalment. (BLLT) Other (OTHR)	YES	NO			The Amortization Type can be found in the loan-level appendix of the respective Offering Circular (see under "Loan Amortization Type"). Note that the list outlined in CREL87 is not exhaustive, hence use "OTHR"
CREL88	Principal Grace Period End Date	(DATEFORMAT)	If applicable as at the data cut-off date, indicate the principal grace period end date.	NO	YES			For performing loans, use "NDS" Information on potential Principal Grace Periods can be found in the reporting segment "Historical Loan Modification/Forbearance"
CREL89	Grace Days Allowed	(INTEGER-9999)	The number of days after a payment is due in which the lender will not consider the missed payment to be an Event of Default. This refers to missed payments due to non-technical reasons (i.e. missed payments not due to systems failures for example).	NO	YES			While the underlying loan documentation will have a number of days specified, in practice Freddie Mac evaluates the non-payment individually and in line with the monthly reporting cycle. Hence the number of Grace Days Allowed can somewhat deviate from the contractual number of grace days
CREL90	Scheduled Principal Payment Frequency	(LIST)	Frequency of principal payments due, i.e. period between payments:  Monthly (MNTH) Quarterly (QUTR) Semi Annual (SEMI) Annual (YEAR) Other (OTHR)	NO	YES	LSU 12	Interest Only (Y/N)	If LSU12 = N - Use "MNTH" - Otherwise use "OTHR"
CREL91	Scheduled Interest Payment Frequency	(LIST)	Frequency of interest payments due, i.e. period between payments:  Monthly (MNTH) Quarterly (QUTR) Semi Annual (SEMI) Annual (YEAR) Other (OTHR)	NO	YES			Always "MNTH"
CREL92	Number Of Payments Before Securitisation	(INTEGER-9999)	Enter the number of payments made prior to the exposure being transferred to the securitisation.	YES	NO	LSU 6 LSU 41	- Original Term - Remaining Term at Contribution	Calculate as LSU 6 minus LSU 41 minus 1
CREL93	Prepayment Terms Description	(ALPHANUM-100)	Must reflect the information in offering circular. For instance, if the prepayment terms are the payment of a 1% fee in year one, 0.5% in year two and 0.25% in year three of the loan this may be shown in the offering circular as: 1%(12), 0.5%(24), 0.25%(36).	YES	YES	LSU 21	Prepayment Terms Description	Relevant LSU field
CREL94	Prepayment Lock-Out End Date	(DATEFORMAT)	The date after which the lender allows prepayment of the underlying exposure.	YES	YES	LSU 18	Prepayment Lock-Out End Date	Relevant LSU field
CREL95	Yield Maintenance End Date	(DATEFORMAT)	Date after which underlying exposure can be prepaid without yield maintenance.	NO	YES	LSU 19	Yield Maintenance End Date	Relevant LSU field
CREL96	Prepayment Fee	(MONETARY)	Amount collected from the obligor as the fee/penalty due for making prepayments as required under the terms of the underlying exposure agreement. This is not intended to include any amounts paid as a "break cost" to make up interest payments up to the underlying exposure Payment Date.  Include the currency in which the amount is denominated, using [CURRENCYCODE_3] format.	NO	YES	LPU 30	Prepayment Premium/Yield Maintenance (YM) Received	Relevant LPU Field

CREL97	Prepayment Fee End Date	(DATEFORMAT)	The date after which the lender allows prepayment of the underlying exposure without requirement for a prepayment fee to be paid.	YES	YES	LSU 20	Prepayment Premium End Date	Relevant LSU field
CREL98	Unscheduled Principal Collections	(MONETARY)	Unscheduled payments of principal received in the most recent collection period. Other principal payments received during the interest period that will be used to pay down the underlying exposure. This may relate to sales proceeds, voluntary prepayments, or liquidation amounts.  Include the currency in which the amount is denominated, using (CURRENCYCODE_3) format.	NO	YES	LPU 27	Unscheduled Principal Collections	Relevant LPU Field
CREL99	Liquidation / Prepayment Date	(DATEFORMAT)	The most recent date on which an unscheduled principal payment was received or liquidation proceeds are received.	NO	YES	LPU 29	Liquidation/ Prepayment Date	Relevant LPU Field
CREL100	Liquidation / Prepayment Code	(LIST)	Code assigned to any unscheduled principal payments or liquidation proceeds received during the collection period:  Partial Liquidation (Curtailment) (PTLQ) Payoff Prior to Maturity (PTPY) Liquidation or Disposition (LQDP) Repurchase or Substitution (RPSB) Full Payoff at Maturity (FLPY) Discounted Payoff (DPOD) Payoff with Penalty (PYPN) Payoff with Yield Maintenance (YLMT) Curtailment with Penalty (CTPL) Curtailment with Yield Maintenance (CTYL) Other (OTHR)	NO	YES	LPU 32	Liquidation/ Prepayment Code	IF LPU32 = 1, use "PTLQ" IF LPU32 = 2, use "PTPY" IF LPU32 = 3, use "LQDP" IF LPU32 = 4, use "RPSB" IF LPU32 = 5, use "FLPY" IF LPU32 = 6, use "DPOD" IF LPU32 = 8, use "PYPN" IF LPU32 = 9, use "YLMT" IF LPU32 = 10, use "CTPL" IF LPU32 = 11, use "CTYL"
CREL101	Prepayment Interest Excess / Shortfall	(MONETARY)	Shortfall or excess of actual interest payment from the scheduled interest payment that is not related to an underlying exposure default. Results from a prepayment received on a date other than a scheduled payment due date: Shortfall – The difference by which the amount of interest paid is less than the scheduled interest that was due on the underlying exposure Payment Date, (this would only apply if there is a shortfall after the obligor has paid any break costs). Excess – Interest collected in excess of the accrued interest due for the underlying exposure interest accrual period. A negative number represents a shortfall and excess is represented as a positive number.  Refers to the entire lending arrangement (i.e. not just reflecting the securitised underlying exposure amount)  Include the currency in which the amount is denominated, using (CURRENCYCODE_3) format.	NO	YES			Always "NDS"
CREL102	Payment Date	(DATEFORMAT)	The most recent date principal and interest is paid to the SSPE as at the data cut-off date, this would normally be the interest payment date of the underlying exposure.	NO	YES	LPU 8	Paid Through Date	Relevant LPU Field
CREL103	Next Payment Adjustment Date	(DATEFORMAT)	For adjustable rate underlying exposures, the next date that the amount of scheduled principal and/or interest is due to change. For fixed rate underlying exposures, enter the next payment date.	NO	YES	LPU 22	Next Payment Adjustment Date	Relevant LPU Field
CREL104	Next Payment Date	(DATEFORMAT)	Date of next underlying exposure payment.	NO	YES			The next payment date follows the same day of the month as indicated in CREL 102 for the subsequent month (subject to business day convention)
CREL105	Payment Due	(MONETARY)	This is the next contractual payment due by the obligor according to the payment frequency of the underlying exposure.  Include the currency in which the amount is denominated, using (CURRENCYCODE_3) format.	NO	YES	LPU 25	Total Scheduled P&I Due	Relevant LPU Field
CREL106	Original Interest Rate	(PERCENTAGE)	Underlying exposure all-in interest rate at the date of origination of the securitised underlying exposure.	YES	NO	LSU 8	Original Note Rate	Relevant LSU field
CREL107	Interest Rate At The Securitisation Date	(PERCENTAGE)	The total interest rate (e.g. EURIBOR + Margin) that is being used to calculate interest due on the securitised underlying exposure for the first Interest Payment Date after the Securitisation Date.	YES	NO	LSU 45	Note Rate At Contribution	Relevant LSU field
CREL108	First Payment Adjustment Date	(DATEFORMAT)	For adjustable rate underlying exposures, the first date that the amount of scheduled principal and/or interest is due to change. For fixed rate underlying exposures, enter the first date that the amount of scheduled principal or interest is due (not the first date after securitisation on which it could change).	YES	YES	LSU 24 LSU 22 LSU 10	- First Payment Adjustment Date - ARM Index - First Loan Payment Due Date	IF LSU 22 not blank - Use LSU 24 - Otherwise use LSU 10
CREL109	Interest Rate Type	(LIST)	Interest rate type:  Floating rate underlying exposure (for life) (FLJF) Floating rate underlying exposure linked to one index that will revert to another index in the future (FINX) Fixed rate underlying exposure (for life) (FXRL) Fixed with future periodic resets (FXPR) Fixed rate underlying exposure with compulsory future switch to floating (FLCF) Floating rate underlying exposure with floor (FLFL) Floating rate underlying exposure with cap (CAPF) Floating rate underlying exposure with both floor and cap (FLCA) Discount (DISC) Switch Optionality (SWIC) Obligor Swapped (OBLS) Modular (MODE) Other (OTHR)	NO	YES	LSU 14	Interest Rate Type	IF LSU 14 = 1, use "FXRL" IF LSU 14 = 2, use "FLJF"
CREL110	Current Interest Rate	(PERCENTAGE)	Gross rate per annum used to calculate the current period scheduled interest on the securitised underlying exposure. Rates calculated on a period-by-period basis must be annualised.	NO	YES	LPU 10	Current Note Rate	Relevant LPU Field

			The base reference interest index currently applicable (the reference rate on which the interest rate is set): MunisAA (MAAA) FutureSWAP (FUSW) LIBID (LIBI) LIBOR (LIBO) SWAP (SWAP) Treasury (TREA) Euribor (EURI) Pfandbriefe (PFAN) EONIA (EONA) EONIA Swaps (EONS) EURDOLLAR (ELU5) EuroSwiss (EUCH) TIBOR (TIBO) ISDAFIX (ISDA) GCFRepo (GCFR) STIBOR (STBO) BBSW (BBSW) JIBAR (JIBA) BLBOR (BLBO) CDOR (CDOR) CIBOR (CIBO) MOSPRIM (MOSP) NIBOR (NIBO) PRIBOR (PRBO) TELBOR (TLBO) WIBOR (WIBO)	NO	YES				
CREL111	Current Interest Rate Index	(LIST)				LSU 22	ARM Index		<p>If LSU 22 not blank - Use "LIBOR" - Otherwise use "NDS"</p> <p>Note that of October 2020, there will be a transition of Libor to SOFR in which case use "OTHR"</p> <p>The transition will affect all new MSCR transactions issued post September 2020. Transactions issued before October 2020 will transition underlying loans from Libor to SOFR over some months</p>
CREL112	Current Interest Rate Index Tenor	(LIST)	Tenor of the current interest rate index: Overnight (OVNG) IntraDay (INDA) 1 day (DAIL) 1 week (WEEK) 2 week (TOWK) 1 month (MNTH) 2 month (TOMN) 3 month (QUTR) 4 month (FOMN) 6 month (SEMI) 12 month (YEAR) On Demand (ONDE) Other (OTHR)	NO	YES		LSU 14	Interest Rate Type	<p>If LSU14 = 2 (ARM) - Use "MNTH" - Otherwise use "NDS"</p>
CREL113	Current Interest Rate Margin	(PERCENTAGE)	Current interest rate margin of the floating-rate underlying exposure over (or under, in which case input as a negative) the index rate.	NO	YES	LSU 25 LSU 14	- ARM Margin - Interest Rate Type	<p>If LSU14 = 2 (ARM) - Use LSU 25 - Otherwise use "NDS"</p>	
CREL114	Interest Rate Reset Interval	(INTEGER-9999)	Number of months between each interest rate reset date on the underlying exposure.	NO	YES			<p>If LSU14 = 2 (ARM) - Use "1" - Otherwise use "NDS"</p>	
CREL115	Current Index Rate	(PERCENTAGE)	The index rate used to determine the current securitised underlying exposure interest rate. The interest rate (before margin) used to calculate the interest paid on the securitised underlying exposure payment date in field CREL102.	NO	YES	LPU 9	Current index Rate	<p>If LPU 9 not blank - Use LPU 9 - Otherwise use "NDS"</p>	
CREL116	Index Determination Date	(DATEFORMAT)	If the underlying exposure Agreement states specific dates for the index to be set, enter the next index determination date.	NO	YES	LSU 14 LPU 21	- Interest Rate Type - Next Rate Adjustment Date	<p>If LSU14 = 1 (FRM), use "NDS" If LSU14 = 2 (ARM), the Index Determination Date varies between product categories and typically ranges from 15 to 45 days on a lookback basis from the Next Rate Adjustment Date (LPU21)</p>	
CREL117	Rounding Increment	(PERCENTAGE)	The incremental percentage by which an index rate is to be rounded in determining the interest rate as set out in the underlying exposure agreement.	NO	YES			Always "0.001%"	
CREL118	Interest Rate Cap	(PERCENTAGE)	Maximum rate that the obligor must pay on a floating rate underlying exposure as required under the terms of the underlying exposure agreement.	NO	YES	LSU 26	Lifetime Rate Cap %	Relevant LSU field	
CREL119	Interest Rate Floor	(PERCENTAGE)	Minimum rate that the obligor must pay on a floating rate underlying exposure as required under the terms of the underlying exposure agreement.	NO	YES	LSU 27	Lifetime Rate Floor %	Relevant LSU field	
CREL120	Current Default Interest Rate	(PERCENTAGE)	Interest rate used to calculate the default interest paid on the securitised underlying exposure payment date in field CREL102.	NO	YES			Always "NDS"	
CREL121	Accrual Of Interest Allowed	(Y/N)	Do the documents describing the terms and conditions of the underlying exposure allow for interest to be accrued and capitalised?	YES	NO			Use "ND2"	
CREL122	Day Count Convention	(LIST)	The 'days' convention used to calculate interest: 30 / 360 (A011) Actual / 365 (A005) Actual / 360 (A004) Actual / Actual ICMA (A006) Actual / Actual ISDA (A008) Actual / Actual AFB (A010) Actual / 366 (A009) Other (OTHR)	NO	YES		LSU 15	Interest Accrual Method	Relevant LSU field
CREL123	Total Scheduled Principal & Interest Due	(MONETARY)	Scheduled principal & interest payment due on the securitised underlying exposure on the most recent payment date, as at the data cut-off date. Include the currency in which the amount is denominated, using {CURRENCYCODE_3} format.	NO	NO	LPU 25	Total Scheduled P&I Due	Relevant LPU Field	
CREL124	Total Scheduled Principal & Interest Paid	(MONETARY)	Scheduled principal & interest payment paid on the securitised underlying exposure on the most recent payment date, as at the data cut-off date. Include the currency in which the amount is denominated, using {CURRENCYCODE_3} format.	NO	NO			<p>Use CREL 123</p> <p>Note that the Scheduled Principal &amp; Interest payment paid will be always the same as the payment due for Freddie Mac portfolio loans but the actual payment paid might differ. Moreover, partial payments are not accepted by Freddie Mac.</p>	
CREL125	Negative Amortisation	(MONETARY)	Negative amortisation/deferred interest/capitalised interest without penalty. Negative amortisation occurs when interest accrued during a payment period is greater than the scheduled payment and the excess amount is added to the outstanding underlying exposure balance. Refers to the entire lending arrangement (i.e. not just reflecting the securitised underlying exposure amount) Include the currency in which the amount is denominated, using {CURRENCYCODE_3} format.	YES	NO			Use "ND2"	



CRELI126	Deferred Interest	(MONETARY)	Deferred interest on the whole loan (i.e. including the securitised loan and any other loan belonging to the lending arrangement with the obligor). Deferred interest is the amount by which the interest an obligor is required to pay on a mortgage loan, less than the amount of interest accrued on the outstanding principal balance.  Include the currency in which the amount is denominated, using (CURRENCYCODE_3) format.	YES	NO			Use "ND2"
CRELI127	Total Shortfalls in Principal & Interest Outstanding	(MONETARY)	Cumulative outstanding principal and interest amounts due on the entire lending arrangement (i.e. not just the securitised underlying exposure) as at the data cut-off date.  Include the currency in which the amount is denominated, using (CURRENCYCODE_3) format.	NO	YES			Always "USD 0.00"  Note that as per Freddie Mac payment and guarantee mechanisms, there are no shortfalls for underlying portfolio loans
CRELI128	Date Last In Arrears	(DATEFORMAT)	Date the obligor was last in arrears.  Current balance of arrears, which is defined as:	YES	YES			Use "ND1"
CRELI129	Arrears Balance	(MONETARY)	Total payments due to date PLUS any amounts capitalised PLUS any fees applied to the account LESS total payments received to date.  If no arrears then enter 0.  Include the currency in which the amount is denominated, using (CURRENCYCODE_3) format.	NO	NO			Always "USD 0.00"  Note that as per Freddie Mac payment and guarantee mechanisms, there are no shortfalls for underlying portfolio loans
CRELI130	Number Of Days In Arrears	(INTEGER-9999)	Number of days this underlying exposure is in arrears (either interest or principal and, if different, the higher number of the two) as at the data cut-off date.	NO	NO	LPU 40	Payment Status of Loan	If LPU 40 = 0, use "0" If LPU 40 = 1, use "59" If LPU 40 = 2, use "89" If LPU 40 = 3, use "120" Relevant information can be also found in the Delinquency Loan Detail in the Investor report. Note that LPU 40 = 3 equates to 90+ days
CRELI131	Reason for Default or Foreclosure	(LIST)	If the underlying exposure is in default as per Article 178 of Regulation (EU) No 575/2013, select the appropriate reason:  In default because the debtor is unlikely to pay, in accordance with Article 178 of Regulation (EU) No 575/2013. (UPXX) In default because any debt is more than 90/180 days past due, in accordance with Article 178 of Regulation (EU) No 575/2013. (PDX)  In default both because it is considered that the debtor is unlikely to pay and because any debt is more than 90/180 days past due, in accordance with Article 178 of Regulation (EU) No 575/2013. (LUPP)	YES	YES			Always "NDS"
CRELI132	Default Amount	(MONETARY)	Total gross default amount before the application of sale proceeds and recoveries and inclusive of any capitalised fees/penalties/etc. If not in default, enter 0.  Include the currency in which the amount is denominated, using (CURRENCYCODE_3) format.	NO	YES	LPU 76 LPU 36	- Workout Strategy - Actual Balance	
CRELI133	Default Date	(DATEFORMAT)	The date of default.  Include the currency in which the amount is denominated, using (CURRENCYCODE_3) format.	NO	YES	LPU 76 LPU 8	- Workout Strategy - Paid Through Date	If LPU 76 = 2 or 3 or 7 - Use LPU 8 plus one month - Otherwise use "NDS"
CRELI134	Interest In Arrears	(Y/N)	Is the interest that accrues on the underlying exposure paid in arrears?	NO	NO			Always "Y"
CRELI135	Actual Default Interest	(MONETARY)	Actual default interest paid between the previous data cut-off date and the data cut-off date of this data submission. Total amount of default interest paid by the obligor during the interest period or on the underlying exposure payment date.  Include the currency in which the amount is denominated, using (CURRENCYCODE_3) format.	NO	YES			Always "NDS"
CRELI136	Account Status	(LIST)	Current status of the underlying exposure that has been securitised:  Performing (PERF) Restructured - No Arrears (RNAR) Restructured - Arrears (RARR) Defaulted according to Article 178 of Regulation (EU) No 575/2013 (DFLT) Not defaulted according to Article 178 of Regulation (EU) No 575/2013 but classified as defaulted due to another definition of default being met (NDFT) Defaulted both according to Article 178 of Regulation (EU) No 575/2013 and according to another definition of default being met (DTCR) Defaulted only under another definition of default being met (DADB) Arrears (ARRE) Repurchased by Seller – Breach of Representations and Warranties (REBR) Repurchased by Seller – Defaulted (REDF) Repurchased by Seller – Restructured (RERE) Repurchased by Seller – Special Servicing (RESS) Repurchased by Seller – Other Reason (REOT) Redeemed (RDMD) Other (OTHR)  Restructuring refers to any changes made to the contractual terms of the underlying exposure agreement due to forbearance, including payment holidays, arrears capitalisation, change of interest rate basis or margins, fees, penalties, maturity, and/or other generally-accepted measures of restructuring due to forbearance.	NO	NO	LPU 40 LPU 32 LPU 49 LPU 76	- Payment Status of Loan - Liquidation/ Prepayment Code - Modification Code - Workout Strategy	If LPU 40 = 0, use "PERF" If LPU 40 = 1 or 2 or 3, use "ARRE" If LPU 32 = 4, use "REDF" If LPU 49 is populated, use "RNAR" if LPU 40 = 0 If LPU 49 is populated, use "RARR" if LPU 40 = 1 or 2 or 3 If LPU 76 = 2 or 3 or 7, use "DADB" If an underlying reference loan has been removed from the LPU data tape, use "RDMD"  Note that for repurchased loans, a small percentage might be repurchased for reasons other than default
CRELI137	Allocated Losses	(MONETARY)	The allocated losses to date, net of fees, accrued interest etc. after application of sale proceeds (excluding prepayment charge if subordinate to principal recoveries). Show any gain on sale as a negative number. Should reflect most recent situation as at the data cut-off date, i.e. as recoveries are collected and the work out process progresses.  Include the currency in which the amount is denominated, using (CURRENCYCODE_3) format.	NO	YES	LPU 47	Realized Loss to Trust	Relevant LPU Field
CRELI138	Net Proceeds Received On Liquidation	(MONETARY)	Net proceeds received on liquidation used to determine loss to the SSPE per the Securitisation Documents. The amount of the net proceeds of sale received, this will determine whether there is a loss or shortfall on the underlying exposure.  Include the currency in which the amount is denominated, using (CURRENCYCODE_3) format.	NO	YES	LPU 45	Net Proceeds Received on Liquidation	Relevant LPU Field
CRELI139	Liquidation Expense	(MONETARY)	Expenses associated with the liquidation to be netted from the other assets of issuer to determine loss per the Securitisation Documents. Amount of any liquidation expenses that will be paid out of the net sales proceeds to determine whether there will be any loss.  Include the currency in which the amount is denominated, using (CURRENCYCODE_3) format.	NO	YES			Use "NDS" for performing loans. For loans in foreclosure, please note that there will be blanks as Freddie Mac collects this information only in cases or REO or when the loan has been foreclosed
CRELI140	Expected Timing Of Recoveries	(INTEGER-9999)	The underlying exposure servicer's expected recovery timing in months.	NO	YES			Use "NDS" Note that in case of defaulted loans, there is no stated expected recovery timing but estimates vary significantly based on location and property individual factors

CREL141	Cumulative Recoveries	(MONETARY)	Total recoveries (regardless of their source) on the (defaulted/charged-off/etc.) debt, net of costs. Include all sources of recoveries here, not just proceeds from the disposal of any collateral. Include the currency in which the amount is denominated, using (CURRENCYCODE 3) format.	NO	YES	LPU 45	Net Proceeds Received on Liquidation	Relevant LPU Field
CREL142	Enforcement Start Date	(DATEFORMAT)	The date on which foreclosure or administration proceedings or alternative enforcement procedures were initiated against or agreed by the obligor.	NO	YES			Use "NDS" for performing loans. For loans in foreclosure, please note that there will be blanks as Freddie Mac collects this information only in cases or REO when the loan has been foreclosed
CREL143	Workout Strategy Code	(LIST)	Work-out strategy: Modification (MODI) Enforcement (ENFR) Receivership (RCVR) Insolvency (NSOL) Extension (XTSN) Loan Sale (LLES) Discounted Pay Off (DPFF) Property in Possession (PPOS) Resolved (RSLV) Pending Return to Servicer (PRTS) Deed in Lieu of Foreclosure (DLFR) Full Pay Off (FPOF) Representations and Warranties (REWR) Other (OTHR)	NO	YES	LPU 76	Workout Strategy	IF LPU 76 = 1, use "MODI" IF LPU 76 = 2, use "ENFR" IF LPU 76 = 3, use "NSOL" IF LPU 76 = 4, use "XTSN" IF LPU 76 = 5, use "LLES" IF LPU 76 = 6, use "DPFF" IF LPU 76 = 7, use "PPOS" IF LPU 76 = 8, use "RSLV" IF LPU 76 = 9, use "PRTS" IF LPU 76 = 10, use "DLFR" IF LPU 76 = 11, use "FPOF" IF LPU 76 = 12, use "REWR" IF LPU 76 = 13, use "OTHR" IF LPU 76 = 98, use "OTHR"
CREL144	Modification	(LIST)	Type of modification: Maturity Date Extension (MEXT) Amortisation Change (AMMC) Principal Write-off (PWOF) Temporary Rate Reduction (TMRR) Capitalisation of Interest (CINT) Capitalisation of Costs Advanced (e.g. insurance, ground rent) (CPCA) Combination (COMB) Other (OTHR)	NO	YES	LPU 49	Modification Code	IF LPU 49 = 1, use "MEXT" IF LPU 49 = 2, use "AMMC" IF LPU 49 = 3, use "PWOF" IF LPU 49 = 5, use "TMRR" IF LPU 49 = 6, use "CINT" IF LPU 49 = 7, use "OTHR" IF LPU 49 = 8, use "OTHR" IF LPU 49 = 9, use "COMB" IF LPU 49 = 10, use "OTHR"
CREL145	Special Servicing Status	(Y/N)	As of the underlying exposure Payment Date is the underlying exposure currently being specially serviced?	NO	NO	LPU 77	Most Recent Special Servicer Transfer Date	IF LPU 77 is filled out - Use "Y" - Otherwise use "N"
CREL146	Most Recent Special Servicer Transfer Date	(DATEFORMAT)	The date an underlying exposure was transferred to the special Servicer following a servicing transfer event. Note: If the underlying exposure has had multiple transfers, this is the last date transferred to special servicing.	NO	YES	LPU 77	Most Recent Special Servicer Transfer Date	Relevant LPU Field
CREL147	Most Recent Primary Servicer Return Date	(DATEFORMAT)	The date an underlying exposure becomes a "corrected mortgage underlying exposure", which is the date the underlying exposure was returned to the master/primary Servicer from the special Servicer. Note: If the underlying exposure has had multiple transfers, this is the last date returned to the master/primary Servicer from special servicing.	NO	YES	LPU 78	Most Recent Master Servicer Return Date	Relevant LPU Field
CREL148	Non Recoverability Determined	(Y/N)	Indicator (Yes/No) as to whether the Servicer or Special Servicer has determined that there will be a shortfall in recovering any advances it has made and the outstanding underlying exposure balance and any other amounts owing on the underlying exposure from proceeds upon sale or liquidation of the property or underlying exposure.	YES	YES			Use "NDS" (or "ND2" for non-performing loans)
CREL149	Covenant Breach / Trigger	(LIST)	Type of Covenant Breach / Trigger: Interest Coverage Ratio (ICRX) Debt Service Coverage Ratio (DSCR) Loan-to-Value (LTV) Interest Coverage Ratio or Debt Service Coverage Ratio (ICDS) Interest Coverage Ratio or Debt Service Coverage Ratio or Loan-to-Value (ICDL) Property Level Breach (PROP) Obligor Level Breach (OBLG) Tenant or Vacancy Level Breach (TENT) Other (OTHR)	NO	YES			Freddie Mac does not have covenant trigger or breaches as data fields in its reporting system. Note that a material breach of the terms and conditions might be reported in the respective investor reports
CREL150	Date Of Breach	(DATEFORMAT)	The date that any breach of the underlying exposure terms and conditions occurred. If multiple breaches, the date of the earliest breach.	YES	YES			Use "ND2" Note that a material breach of the terms and conditions might be reported in the respective investor reports
CREL151	Date Of Breach Cure	(DATEFORMAT)	The date that any breach reported in field CREL150 cured. If multiple breaches, the date which the last breach cured.	NO	YES			Freddie Mac does not have covenant trigger or breaches as data fields in its reporting system. In case of a material breach, the Date of Breach Cure might be reported in the respective investor reports
CREL152	Servicer Watchlist Code	(WATCHLIST)	If the underlying exposure has been entered onto the servicer watchlist, enter the most appropriate corresponding code from Table 2 in Annex 1 of this Regulation. If multiple criteria are applicable, list the most detrimental code.	NO	YES			Use the Servicer Watchlist Code as indicated in the Servicer Watchlist Report (Field 18). Note that in some cases the mapping to the ESMA Watchlist Codes might not be accurate
CREL153	Servicer Watchlist Date	(DATEFORMAT)	Determination Date that an underlying exposure was placed on the Watchlist. If underlying exposure came off the Watchlist in a prior period and is now coming back on, use the new entry date.	NO	YES	LPU 105	Date Added to Servicer Watchlist	Relevant LPU Field
CREL154	Interest Rate Swap Provider	(ALPHANUM-100)	If there is an interest rate swap on the underlying exposure, provide the full legal name of the interest rate swap provider. The name entered must match the name associated with the LEI in the Global Legal Entity Foundation (GLEIF) database.	NO	YES			Always "NDS"
CREL155	Interest Rate Swap Provider Legal Entity Identifier	(LEI)	Provide the Legal Entity Identifier (as specified in the Global Legal Entity Foundation (GLEIF) database) of the underlying exposure interest rate swap provider.	NO	YES			Always "NDS"
CREL156	Interest Rate Swap Maturity Date	(DATEFORMAT)	Date of maturity for the interest rate underlying exposure level swap.	NO	YES			Always "NDS"
CREL157	Interest Rate Swap Notional	(MONETARY)	Interest rate underlying exposure level swap notional amount Include the currency in which the amount is denominated, using (CURRENCYCODE 3) format.	NO	YES			Always "NDS"
CREL158	Currency Swap Provider	(ALPHANUM-100)	If there is an exchange rate swap on the underlying exposure, provide the full legal name of the exchange rate swap provider. The name entered must match the name associated with the LEI in the Global Legal Entity Foundation (GLEIF) database.	NO	YES			Always "NDS"
CREL159	Currency Swap Provider Legal Entity Identifier	(LEI)	Provide the Legal Entity Identifier (as specified in the Global Legal Entity Foundation (GLEIF) database) of the underlying exposure currency swap provider.	NO	YES			Always "NDS"
CREL160	Currency Swap Maturity Date	(DATEFORMAT)	Date of maturity for the currency underlying exposure level swap.	NO	YES			Always "NDS"
CREL161	Currency Swap Notional	(MONETARY)	Currency underlying exposure level swap notional amount Include the currency in which the amount is denominated, using (CURRENCYCODE 3) format.	NO	YES			Always "NDS"
CREL162	Exchange Rate For Swap	(PERCENTAGE)	The exchange rate that has been set for a currency underlying exposure level swap.	NO	YES			Always "NDS"
CREL163	Other Swap Provider	(ALPHANUM-100)	The full legal name of the swap provider for the underlying exposure, where the swap is neither an interest rate nor currency swap. The name entered must match the name associated with the LEI in the Global Legal Entity Foundation (GLEIF) database.	NO	YES			Always "NDS"

CREL164	Other Swap Provider Legal Entity Identifier	(LEI)	Provide the Legal Entity Identifier (as specified in the Global Legal Entity Foundation (GLEIF) database) of the underlying exposure other swap provider.	NO	YES			Always "NDS"
CREL165	Obligor Must Pay Breakage On Swap	(LIST)	Extent to which the obligor is obligated to pay breakage costs to the underlying exposure swap provider. In the event of multiple swaps, enter the most appropriate value. Total Indemnification from obligor (TOTL) Partial Indemnification from obligor (PINO) No Indemnification from obligor (NOPE)	YES	NO			Use "NOPE"
CREL166	Full Or Partial Termination Event Of Swap For Current Period	(LIST)	If underlying exposure swap has been terminated between the previous data cut-off date and the data cut-off date of the current report submission, identify reason. In the event of multiple swaps, enter the most appropriate value. Swap Terminated due to Ratings Downgrade of Underlying Exposure Swap Provider (RTDW) Swap Terminated due to Payment Default to Underlying Exposure Swap Provider (PYMD) Swap Terminated due to Other Type of Default by Underlying Exposure Swap Counterparty (CNTD) Swap Terminated due to Full or Partial Prepayment by Obligor (PRPP) Swap Terminated due to Other Type of Default by Obligor (OBGD) Other (OTHR)	NO	YES			Always "NDS"
CREL167	Net Periodic Payment Made By Swap Provider	(MONETARY)	Net amount of payment made by the swap counterparty securitised underlying exposure, on the underlying exposure Payment Date as required by the swap contract. This does not include any breakage or termination payments. In the event of multiple swaps, enter the sum across all swaps. Include the currency in which the amount is denominated, using (CURRENCYCODE 3) format.	NO	YES			Always "NDS"
CREL168	Breakage Costs Due To Underlying Exposure Swap Provider	(MONETARY)	Amount of any payment due from the obligor to the swap counterparty for partial or full termination of the swap. In the event of multiple swaps, enter the most appropriate value. Include the currency in which the amount is denominated, using (CURRENCYCODE 3) format.	NO	YES			Always "NDS"
CREL169	Shortfall In Payment Of Breakage Costs On Swap	(MONETARY)	Amount of any shortfall, if any, of breakage costs resulting from the full or partial termination of the swap, paid by the obligor. In the event of multiple swaps, enter the sum across all swaps. Include the currency in which the amount is denominated, using (CURRENCYCODE 3) format.	NO	YES			Always "NDS"
CREL170	Breakage Costs Due From Swap Counterparty	(MONETARY)	Amount of any gains paid by the swap counterparty to the obligor on full or partial termination. In the event of multiple swaps, enter the most appropriate value. Include the currency in which the amount is denominated, using (CURRENCYCODE 3) format.	NO	YES			Always "NDS"
CREL171	Next Swap Reset Date	(DATEFORMAT)	Date of next reset date on the underlying exposure level swap. In the event of multiple swaps, enter the most appropriate value.	NO	YES			Always "NDS"
CREL172	Sponsor	(ALPHANUM-100)	The name of the underlying exposure sponsor.	NO	YES			Always "NDS"
CREL173	Agent Bank Of Syndication Legal Entity Identifier	(LEI)	Provide the Legal Entity Identifier (as specified in the Global Legal Entity Foundation (GLEIF) database) of the agent bank of syndication, i.e. the entity acting as an interface between the obligor and the lending parties involved in the syndicated underlying exposure.	NO	YES			Always "NDS"
CREL174	Servicer Legal Entity Identifier	(LEI)	Provide the Legal Entity Identifier (as specified in the Global Legal Entity Foundation (GLEIF) database) of the underlying exposure servicer.	NO	YES			Use CREL 177
CREL175	Servicer Name	(ALPHANUM-100)	Give the full legal name of the underlying exposure servicer. The name entered must match the name associated with the LEI in the Global Legal Entity Foundation (GLEIF) database.	NO	YES			For MSRC transactions, the Servicer is generally the same entity as the original loan seller, or "Originator". Use CREL 176
CREL176	Originator Name	(ALPHANUM-100)	Give the full legal name of the underlying exposure originator. The name entered must match the name associated with the LEI in the Global Legal Entity Foundation (GLEIF) database.	NO	NO			The Originator can be found in the loan-level appendix of the respective Offering Circular (see under "Originator")
CREL177	Originator Legal Entity Identifier	(LEI)	Provide the Legal Entity Identifier (as specified in the Global Legal Entity Foundation (GLEIF) database) of the underlying exposure originator.	NO	NO			Freddie Mac does not have LEIs in its database. The Loan Seller LEI (which is the equivalent of the Originator LEI) can be retrieved from the GLEIF database (see www.gleif.org)
CREL178	Originator Establishment Country	(COUNTRYCODE_2)	Country where the underlying exposure originator is established.	NO	NO			Always "US"
CREL179	Original Lender Name	(ALPHANUM-100)	Give the full legal name of the original lender. The name entered must match the name associated with the LEI in the Global Legal Entity Foundation (GLEIF) database.	YES	YES			Use CREL 176
CREL180	Original Lender Legal Entity Identifier	(LEI)	Provide the Legal Entity Identifier (as specified in the Global Legal Entity Foundation (GLEIF) database) of the original lender. Where no Legal Entity Identifier is available, enter NDS.	YES	YES			Use CREL 177
CREL181	Original Lender Establishment Country	(COUNTRYCODE_2)	Country where the original lender is established.	YES	YES			Always "US"
<b>Collateral-level information section</b>								
CREC1	Unique Identifier	(ALPHANUM-28)	Report the same unique identifier here as the one entered into field CREL1.	NO	NO			Same as CREL 1
CREC2	Underlying Exposure Identifier	(ALPHANUM-1000)	Unique underlying exposure identifier. This must match the identifier in field CREL5. The reporting entity shall not amend this unique identifier.	NO	NO			Same as CREL 5
CREC3	Original Collateral Identifier	(ALPHANUM-1000)	The original unique identifier assigned to the collateral. The reporting entity shall not amend this unique identifier.	NO	NO			There is no unique Collateral Identifier directly available but use combination of Zip Code and Property Name as unique identifier which are available in the loan-level appendix of the respective Offering Circular Example: "63123 VillagesGeneralGrant"
CREC4	New Collateral Identifier	(ALPHANUM-1000)	If the original identifier in field CREC3 cannot be maintained in this field enter the new identifier here. If there has been no change in the identifier, enter the same identifier as in CREC3. The reporting entity shall not amend this unique identifier.	NO	NO			There is no unique Collateral Identifier directly available but use combination of Zip Code and Property Name as unique identifier which are available in the loan-level appendix of the respective Offering Circular Example: "63123 VillagesGeneralGrant"
CREC5	Collateral Type	(LIST)	The primary (in terms of value) type of asset securing the debt. Where there is a guarantee backed by physical or financial collateral, look through the guarantee to any collateral that may be supporting that guarantee. Automobile (CARX) Industrial Vehicle (INDV) Commercial Truck (CMTR) Rail Vehicle (RALV) Nautical Commercial Vehicle (NACM) Nautical Leisure Vehicle (NALV) Aeroplane (AERO) Machine Tool (MCHT) Industrial Equipment (INDQ) Office Equipment (OFEQ) IT Equipment (ITEQ) Medical Equipment (MDEQ) Energy Related Equipment (ENEQ) Commercial Building (CBLD) Residential Building (RBLD) Industrial Building (IBLD) Other Vehicle (OTHV) Other Equipment (OTHE) Other Real Estate (OTRE) Other goods or inventory (OTGI) Securities (SECU) Guarantee (GUAR) Other Financial Asset (OTFA) Mixed Categories Due to Security Over All Assets of the Obligor (MIXD) Other (OTHR)	NO	NO			Use "CBLD"
CREC6	Property Name	(ALPHANUM-100)	The name of the property that serves as security for the underlying exposure. If the collateral being reported is not property collateral, enter NDS.	NO	YES	LSU 55	Property Name	Relevant LSU field

CREC7	Property Address	(ALPHANUM-1000)	The address of the property that serves as security for the underlying exposure. If the collateral being reported is not property collateral, enter NDS.	NO	YES	LSU 56 LSU 57 LSU 58	- Property Address - Property City - Property State	Relevant LSU fields
CREC8	Geographic Region - Collateral	(NUTS)	The geographic region (NUTS3 classification) where the physical collateral is located. Where no NUTS3 classification has been produced by Eurostat (e.g. a non-EU jurisdiction), enter the two-digit country code in (COUNTRYCODE_2) format followed by "ZZ".	YES	YES			Always "USZZ"
CREC9	Property Post Code	(ALPHANUM-100)	The primary property full postal code. If the collateral being reported is not property collateral, enter NDS.	NO	YES	LSU 59	Property Zip Code	Relevant LSU field
CREC10	Lien	(INTEGER-9999)	Highest lien position held by the originator in relation to the collateral.	YES	YES	LSU 78	Lien Position at Contribution	Relevant LSU field
CREC11	Property Status	(LIST)	Status of property: Lasting Power of Attorney (LPOA) Receivership (RCVS) In Foreclosure (FCLS) Real Estate Owned (REOW) Defeased (DFSD) Partial Release (PRLS) Released (RLSD) Same as at Securitisation Date (SCDT) In Special Servicing (SSRV) Other (OTHR) If the collateral being reported is not property collateral, enter NDS.	NO	YES	LPU 76 LPU 77	- Workout Strategy - Most Recent Special Servicer Transfer Date	If LPU 77 is filled out, use "SSRV" If LPU 76 = 2, use "FCLS" If LPU 76 = 7, use "REOX" Otherwise use "SCDT"
CREC12	Property Type	(LIST)	Property type: Caravan Park (CRVP) Car Park (CARP) Health Care (HEAL) Hospitality or Hotel (HOTL) Industrial (IDSR) Land (LAND) Leisure (LEIS) Multifamily (MULF) Mixed Use (MIXD) Office (OFFC) Pub (PUBX) Retail (RETL) Self Storage (SSTR) Warehouse (WARE) Various (VARI) Other (OTHR) If the collateral being reported is not property collateral, enter NDS.	NO	YES			Always "MULF"
CREC13	Property Form Of Title	(LIST)	The relevant form of property title. A lease on land only, in which the obligor usually owns a building or is required to build as specified in the lease. Such leases are usually long-term net leases; the obligor's rights and obligations continue until the lease expires or is terminated through default. Leasehold (LESH) Freehold (FREE) Mixed (MIXD) Other (OTHR) If the collateral being reported is not property collateral, enter NDS.	NO	YES			The Property Form of Title can be found in the loan-level appendix of the respective Offering Circular (see under "Title Vesting (Fee/Leasehold)")
CREC14	Current Valuation Date	(DATEFORMAT)	The date of the most recent valuation.	YES	YES	LPU 74	Most Recent Valuation Date	Relevant LPU Field
CREC15	Current Valuation Amount	(MONETARY)	The most recent valuation of the property as assessed by an independent external or internal appraiser; if such assessment is not available, the current value of the property can be estimated using a real estate value index sufficiently granular with respect to geographical location and type of property; if such real estate value index is also not available, a real estate price index sufficiently granular with respect to geographical location and type of property can be used after application of a suitably chosen mark-down to account for the depreciation of the property. If the collateral being reported is not property collateral, enter the most recent valuation of the collateral as assessed by an independent external or internal appraiser or, if not available, by the originator. Include the currency in which the amount is denominated, using (CURRENCYCODE_3) format.	YES	YES	LPU 75	Most Recent Value	Relevant LPU Field
CREC16	Current Valuation Method	(LIST)	The most recent method of calculating the value of the collateral provided in field CREC15. Full, internal and external inspection (FIE) Full, only external inspection (FOE) Drive-by (DRVB) Automated Valuation Model (AUV) Indexed (IDX) Desktop (DSKT) Managing Agent / Estate Agent (MAEA) Tax Authority (TAXH) Other (OTHR)	YES	NO			Use "ND1"
CREC17	Current Valuation Basis	(LIST)	The most recent Valuation Basis: Open Market (OPEN) Vacant Possession (VCNT) Other (OTHR)	YES	NO			Use "ND1"
CREC18	Original Valuation Method	(LIST)	The method of calculating the value of the collateral at the time of underlying exposure origination: Full, internal and external inspection (FIE) Full, only external inspection (FOE) Drive-by (DRVB) Automated Valuation Model (AUV) Indexed (IDX) Desktop (DSKT) Managing Agent / Estate Agent (MAEA) Tax Authority (TAXH) Other (OTHR)	YES	NO			Use "ND2" Note that there is a defined collateral valuation approach for MSCR loans which is described in the loan-level appendix of the respective Offering Circular (see under "Appraisal Valuation Type")
CREC19	Collateral Securitisation Date	(DATEFORMAT)	Date the property / collateral was contributed as security for the underlying exposure. If this property / collateral has been substituted, enter the date of the substitution. If the property / collateral was part of the original securitisation, this will be the Securitisation Date.	YES	NO			Use the Closing Date of the respective Offering Circular
CREC20	Allocated Percentage Of Underlying Exposure At Securitisation Date	(PERCENTAGE)	Allocated underlying exposure % attributable to property / collateral at Securitisation Date where there is more than one property / collateral item securing the underlying exposure. This may be set out in the underlying exposure Agreement, otherwise assign by valuation or Net Operating Income.	YES	YES			Use "ND2" Note that the allocation will be generally on a pro-rata basis but deviations cannot be excluded
CREC21	Current Allocated Underlying Exposure Percentage	(PERCENTAGE)	Allocated underlying exposure % attributable to the collateral at the underlying exposure payment date. Where there is more than one collateral item securing the underlying exposure, the sum of all percentages shall equal 100%. This may be set out in the underlying exposure agreement, otherwise assign by valuation (Net Operating Income).	NO	YES			Freddie Mac does not track this percentage as a separate data field. Note that the allocation will be generally on a pro-rata basis but deviations cannot be excluded
CREC22	Valuation At Securitisation	(MONETARY)	The valuation of the property / collateral securing the underlying exposure at Securitisation Date as described in the Offering Circular. Include the currency in which the amount is denominated, using (CURRENCYCODE_3) format.	NO	YES	LSU 67	Valuation Amount at Contribution	Relevant LSU field
CREC23	Name Of Valuer At Securitisation	(ALPHANUM-100)	Name of valuation firm who performed the property / collateral valuation at the Date of Securitisation.	NO	YES			This information is not available in Freddie Mac's systems
CREC24	Date Of Valuation At Securitisation	(DATEFORMAT)	The date the valuation was prepared for the values disclosed in the Offering Circular.	NO	YES	LSU 68	Valuation Date at Contribution	Relevant LSU field
CREC25	Year Built	(YEAR)	Year the property was built per the valuation report or underlying exposure document.	YES	YES	LSU 64	Year Built	Relevant LSU field
CREC26	Year Last Renovated	(YEAR)	Year that last major renovation/new construction was completed on the property per the valuation report or underlying exposure document.	YES	YES			The Year Renovated can be found in the loan-level appendix of the respective Offering Circular (see under "Year Renovated")
CREC27	Number Of Units	(INTEGER-999999999)	For property type Multifamily enter number of units, for Hospitality/Hotel/Healthcare - beds, for Caravan Parks - units, Lodging/rooms, Self Storage/units.	NO	YES	LSU 63	Number of Units	Relevant LSU field
CREC28	Net Square Metres	(INTEGER-999999999)	The total net rentable area of the property in square metres that serve as security for the underlying exposure per the most recent valuation report.	NO	YES	LSU 62	Net Rentable Square Feet At Contribution	Relevant LSU Field Note that total net rentable area of the property is measured in sq feet.
CREC29	Commercial Area	(INTEGER-999999999)	The total net Commercial rentable area of the property in square metres that serves as security for the underlying exposure per the most recent valuation report.	NO	YES			Always "NDS"
CREC30	Residential Area	(INTEGER-999999999)	The total net Residential rentable area of the property in square metres that serves as security for the loan per the most recent valuation report.	NO	YES			See CREC 28
CREC31	Net Internal Floor Area Validated	(Y/N)	Has the valuer (of the most recent valuation) verified the net internal floor area of the property?	YES	YES			Use "ND1"

CREC32	Occupancy As Of Date	(DATEFORMAT)	Date of most recently received rent roll/ tenancy schedule. For hospitality (hotels), and health care properties use average occupancy for the period for which the financial statements are reported.	NO	YES	LPU 73	Most Recent Financial As of End Date	Relevant LPU Field
CREC33	Economic Occupancy At Securitisation	(PERCENTAGE)	The percentage of rentable space with signed leases in place at Securitisation Date if disclosed in Offering Circular (tenants may not be in occupation but are paying rent).	NO	YES			Always "NDS"
CREC34	Physical Occupancy At Securitisation	(PERCENTAGE)	At Securitisation the available percentage of rentable space actually occupied (i.e. where tenants are actually in occupation and not vacated), if disclosed in Offering Circular. Shall be derived from a rent roll or other document indicating occupancy consistent with most recent financial year information.	NO	YES	LSU 69	Physical Occupancy at Contribution	Relevant LSU field
CREC35	Vacant Possession Value At Securitisation Date	(MONETARY)	Vacant possession value at Date of Securitisation. Include the currency in which the amount is denominated, using (CURRENCYCODE_3) format.	NO	YES			Always "NDS"
CREC36	Date Of Financials At Securitisation	(DATEFORMAT)	The end date of the financials for the information used in the Offering Circular (e.g. year to date, annual, quarterly or trailing 12 months).	YES	YES	LSU 72	Contribution Financials As Of Date	Relevant LSU field
CREC37	Net Operating Income At Securitisation	(MONETARY)	Revenue less Operating Expenses at Securitisation Date. Include the currency in which the amount is denominated, using (CURRENCYCODE_3) format.	YES	YES	LSU 65	NOI at Contribution	Relevant LSU field
CREC38	Most Recent Financials As Of Start Date	(DATEFORMAT)	The first day of the period covered in the most recent financial operating statement available (e.g. Monthly, Quarterly, Year to Date or Trailing 12 months).	YES	YES	LPU 72	Most Recent Financials As Of Start Date	Relevant LPU Field
CREC39	Most Recent Financials As Of End Date	(DATEFORMAT)	The end date of the financials used for the most recent financial operating statement (e.g. Monthly, Quarterly, Year to Date or Trailing 12 months).	YES	YES	LPU 73	Most Recent Financials As Of End Date	Relevant LPU Field
CREC40	Most Recent Revenue	(MONETARY)	Total revenues for the period covered by the most recent financial operating statement (e.g. Monthly, Quarterly, Year to Date or Trailing 12 months) for the property. Include the currency in which the amount is denominated, using (CURRENCYCODE_3) format.	YES	YES	LPU 66	Most Recent Revenue	Relevant LPU Field
CREC41	Most Recent Operating Expenses	(MONETARY)	Total operating expenses for the period covered by the most recent financial operating statement (e.g. Monthly, Quarterly, Year to Date or Trailing 12 months) for the property. These may include real estate taxes, insurance, management, utilities, maintenance and repairs and direct property costs to the landlord; capital expenditures and leasing commissions are excluded. Include the currency in which the amount is denominated, using (CURRENCYCODE_3) format.	YES	YES	LPU 67	Most Recent Operating Expenses	Relevant LPU Field
CREC42	Most Recent Capital Expenditure	(MONETARY)	Total Capital Expenditure (as opposed to repairs and maintenance) for the period covered by the most recent financial operating statement e.g. Monthly, Quarterly, Year to Date or Trailing 12 months) for the property. Include the currency in which the amount is denominated, using (CURRENCYCODE_3) format.	YES	YES			This value can be found in the Capital Expenditure Section in the MF Operating Statements
CREC43	Ground Rent Payable	(MONETARY)	If property is leasehold, provide the current annual leasehold rent payable to the lessor. Include the currency in which the amount is denominated, using (CURRENCYCODE_3) format.	NO	YES			This value can be found in the MF Operating Statements
CREC44	Weighted Average Lease Terms	(PERCENTAGE)	Weighted average lease terms in years, using as weights the latest-available outstanding value of the lease.	NO	YES			For multifamily properties, lease term is typically annual but deviations can occur (e.g. monthly in student housing)
CREC45	Property Leasehold Expiry	(DATEFORMAT)	Provide the earliest date the leasehold interest expires.	NO	YES			Use "NDS"
CREC46	Contractual Annual Rental Income	(MONETARY)	The contractual annual rental income derived from the most recent obligor tenancy schedule. Include the currency in which the amount is denominated, using (CURRENCYCODE_3) format.	NO	YES			This information can be derived from the Gross Rent in the MF Operating Statements
CREC47	Income Expiring 1-12 Months	(PERCENTAGE)	Percentage of income expiring in 1 to 12 months.	YES	YES			Always "NDS"
CREC48	Income Expiring 13-24 Months	(PERCENTAGE)	Percentage of income expiring in 13 to 24 months.	YES	YES			Always "NDS"
CREC49	Income Expiring 25-36 Months	(PERCENTAGE)	Percentage of income expiring in 25 to 36 months.	YES	YES			Always "NDS"
CREC50	Income Expiring 37-48 Months	(PERCENTAGE)	Percentage of income expiring in 37 to 48 months.	YES	YES			Always "NDS"
CREC51	Income Expiring 49+ Months	(PERCENTAGE)	Percentage of income expiring in 49 or more months.	YES	YES			Always "NDS"
<b>Tenant-level information section</b>								
CRET1	Unique Identifier	(ALPHANUM-28)	Report the same unique identifier here as the one entered into field CREL1.	NO	NO			Given the high level of tenant granularity with natural persons as tenants in multifamily properties, Freddie Mac does not obtain information on individual tenant terms
CRET2	Underlying Exposure Identifier	(ALPHANUM-1000)	Unique underlying exposure identifier. This must match the identifier in field CREL5. The reporting entity shall not amend this unique identifier.	NO	NO			Same as CREL 5
CRET3	Collateral Identifier	(ALPHANUM-1000)	Unique identifier for the collateral. This field must match CREC4, to allow mapping.	NO	NO			Same as CREC 4
CRET4	Tenant Identifier	(ALPHANUM-1000)	Unique identifier for the tenant. The identifier must be different from any external identification number, in order to ensure anonymity of the obligor. The reporting entity shall not amend this unique identifier.	NO	NO			See CRET1
CRET5	Tenant Name	(ALPHANUM-100)	Name of current tenant. If tenant is a natural person, then this field should match field CRET4.	YES	NO			See CRET1
CRET6	NACE Industry Code	(NACE)	Tenant industry NACE Code, as set out in Regulation (EC) No 1893/2006 (or as otherwise amended).	YES	YES			See CRET1
CRET7	Date Of Lease Expiration	(DATEFORMAT)	Expiration date of lease of current tenant.	NO	YES			See CRET1
CRET8	Rent Payable	(MONETARY)	Annual Rent payable by current tenant. Include the currency in which the amount is denominated, using (CURRENCYCODE_3) format.	NO	YES			See CRET1
CRET9	Rent Currency	(CURRENCYCODE_3)	Rent currency denomination.	NO	YES			Always "USD"