Creditreform Covered Bond Rating

Commerzbank AG
Mortgage Covered Bond Program

Creditreform Rating

Rating Object

Country Issuer	Germany	Repayment method	Hard Bullet
Cover pool asset class	Mortgage	Overcollateralization	Min (2,00%)
Legal framework	German Pfandbrief Act		Current (44,35%)
Nominal value	EUR 21.016,53 m.		Committed (0,00%)
Cover pool value	EUR 30.337,81 m.	Covered bonds coupon type	Fix (90,01%)
WAL maturity covered bonds	5,42 (Years)		Floating (9,99%)
WAL maturity cover pool	5,67 (Years)		Other (0,00%)
Cut-off date Covered Pool Information:	31.03.2020		

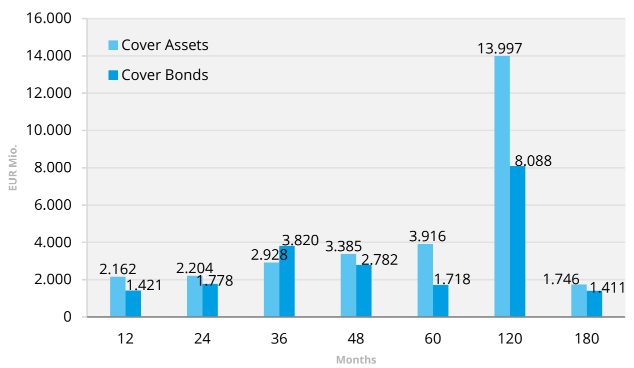
Rating Overview

Rating Summary		*Credit Risk Metrics*	
Issuer	Commerzbank AG	Metrics date	11.12.2019
LT Issuer Rating	BBB+	Rating Case Default Rate	38,01%
ST Issuer Rating	L2	Rating Case Recovery Rate	87,42%
+Legal and regulatory framework analysis	+4 Notches	Expected Loss	4,78%
+Liquidity and refinancing risk	+1 Notch	Rating Case Breakeven OC	2,15%
= Rating after 1st uplift	AA	*Program Key Counterparties*	
Cover Pool & cash flow analysis	AAA	Servicer	NA
+ 2nd rating uplift	+2 Notches	Account Bank	NA
Rating covered bond program / Outlook	**AAA "Watch Negative"**	Sponsor	NA

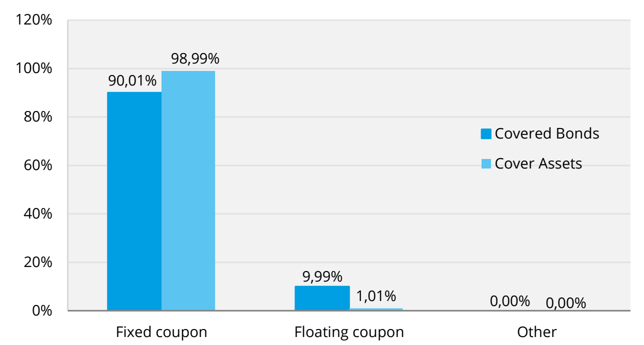
Cover Assets Composition

General Information		*Property Type*	
Cover Pool Balance	EUR 30.337,81 m.	Residential	EUR 28.929,96 m.
Average Seasoning	55,92 Months	Commercial	EUR 768,85 m.
Total number of exposures	240.220	Other	EUR 0,00 m.
Distribution by type of asset		*Distribution by Loan size*	
Mortgages	EUR 29.698,81 m.	Number of Commercial Loans	419
Public Sector	EUR 0,00 m.	Number of Residential Loans	239.801
Shipping	EUR 0,00 m.	Average Size Commercial Loans (000s)	1.835
Substitute Assets	EUR 639,00 m.	Average Size Residential Loans (000s)	121
Other	EUR 0,00 m.		

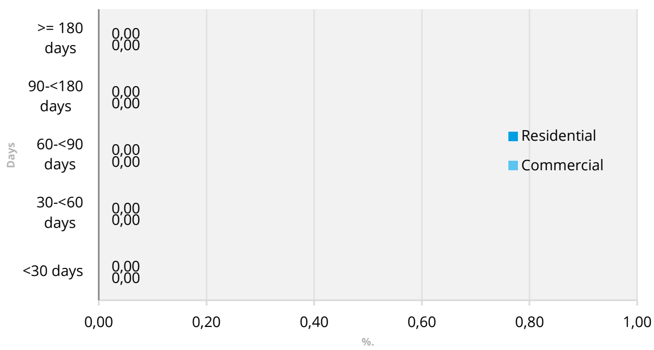
Asset-liability Profile



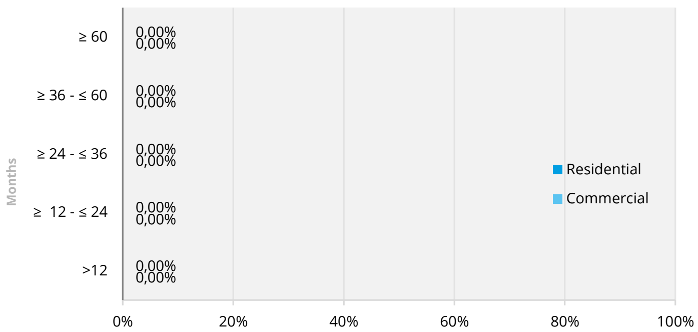
Interest Rate



Arrears Distribution



Seasoning Distribution



Unindexed LTV Distribution Commercial Loans			Unindexed LTV Distribution Residential Loans		
LTV	*Nominal*	*% Loans*	*LTV*	*Nominal*	*% Loans*
>0 - <=40 %	NA	NA	>0 - <=40 %	4.561,57	15,36%
>40 - <=50 %	NA	NA	>40 - <=50 %	3.485,32	11,74%
>50 - <=60 %	NA	NA	>50 - <=60 %	21.651,92	72,91%
>60 - <=70 %	NA	NA	>60 - <=70 %	0,00	0,00%
>70 - <=80 %	NA	NA	>70 - <=80 %	0,00	0,00%
>80 - <=90 %	NA	NA	>80 - <=90 %	0,00	0,00%
>90 - <=100 %	NA	NA	>90 - <=100 %	0,00	0,00%
>100%	NA	NA	>100%	0,00	0,00%

Currency Distribution

Currency	*Covered Bonds*	*Cover Assets*
EUR	21.016,53 m.	30.337,81 m.
AUD	0,00 m.	0,00 m.
BRL	0,00 m.	0,00 m.
CAD	0,00 m.	0,00 m.
CHF	0,00 m.	0,00 m.
CZK	0,00 m.	0,00 m.
DKK	0,00 m.	0,00 m.
GBP	0,00 m.	0,00 m.
HKD	0,00 m.	0,00 m.
JPY	0,00 m.	0,00 m.
KRW	0,00 m.	0,00 m.
NOK	0,00 m.	0,00 m.
PLN	0,00 m.	0,00 m.
SEK	0,00 m.	0,00 m.
SGD	0,00 m.	0,00 m.
USD	0,00 m.	0,00 m.
Other	0,00 m.	0,00 m.

Loan Distribution by Regions (as % of total Mortgages)

Region	*% Residential Loans*	*% Commercial Loans*
NA	NA	NA
NA	NA	NA
NA	NA	NA
NA	NA	NA
NA	NA	NA
NA	NA	NA
NA	NA	NA
NA	NA	NA
NA	NA	NA

Swap Counterparties

Name	*Type of arrangement*	*LEI*
NA	NA	NA
Swap Agreements		
Interest Rate Swap		NA
Currency Swap		NA

ISIN Lists

Issuer	ISIN	Coupon Type	Coupon Rate (%)	Issue date	Maturity date
Commerzbank AG	DE000CZ40J26	Fix	2,00	26.11.2013	27.11.2023
Commerzbank AG	DE000CZ40LM6	Fix	0,05	11.07.2016	11.07.2024
Commerzbank AG	DE000CZ40MU7	Fix	0,63	28.05.2018	28.05.2025
Commerzbank AG	DE000CZ45VF8	Fix	0,05	09.12.2019	09.05.2029
Commerzbank AG	DE000EH1ABB0	Fix	3,25	29.07.2010	29.07.2020
Commerzbank AG	DE000CZ40KK2	Fix	0,30	06.02.2015	07.02.2022
Commerzbank AG	DE000CZ40MB7	Fix	0,63	24.08.2017	24.08.2027
Commerzbank AG	DE000CZ40NB5	Fix	0,05	28.09.2018	01.08.2022
Commerzbank AG	DE000CZ40KZ0	Fix	0,88	07.09.2015	08.09.2025
Commerzbank AG	DE000CZ40MN2	Fix	0,63	13.03.2018	13.03.2025
Commerzbank AG	DE000CZ40NU5	Fix	0,24	10.04.2019	10.04.2026
Commerzbank AG	DE000EH1A3P2	Floating	EIEUR3M + 0.8	03.06.2009	03.06.2024
Commerzbank AG	DE000CZ40JW9	Fix	1,63	17.10.2013	19.10.2020
Commerzbank AG	DE000CZ40LQ7	Fix	0,13	30.08.2016	15.12.2026
Commerzbank AG	DE000CZ40MV5	Fix	0,88	06.06.2018	06.06.2028
Commerzbank AG	DE000EH1ABH7	Fix	2,88	05.10.2010	05.10.2020
Commerzbank AG	DE000CZ40KL0	Fix	0,25	02.03.2015	02.03.2021
Commerzbank AG	DE000CZ40MH4	Fix	0,27	11.12.2017	11.06.2024
Commerzbank AG	DE000CZ40NN0	Fix	0,13	09.01.2019	09.01.2024
Commerzbank AG	DE000CZ40LG8	Fix	0,50	09.06.2016	09.06.2026
Commerzbank AG	DE000CZ40MQ5	Fix	0,88	16.04.2018	18.04.2028
Commerzbank AG	DE000CZ40NY7	Fix	0,23	06.05.2019	06.05.2026
Commerzbank AG	DE000CZ45VY9	Floating	EIEUR3M + 0.6	30.03.2020	30.09.2022
Commerzbank AG	DE000CZ40KG0	Fix	0,25	26.01.2015	26.01.2022
Commerzbank AG	DE000CZ40LS3	Fix	0,13	23.11.2016	23.02.2023
Commerzbank AG	DE000CZ40MW3	Fix	0,25	13.06.2018	13.09.2023
Commerzbank AG	DE000CZ45VS1	Fix	0,01	10.03.2020	11.03.2030
Commerzbank AG	DE000EH1ACA0	Fix	4,13	07.04.2011	07.04.2021
Commerzbank AG	DE000CZ40KX5	Fix	0,25	23.07.2015	23.07.2020

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Data Definitions

The data is presented with a cut-off date . Following the clarification regarding the source of information:
Issuer: Issuer source of information are all available public information, i.e. Investor Reports, Harmonised Transparency Templates "HTT", National Transparency Templates "NTT", Prospectus etc. Not reported or non available information will be labeled as "NA" .

Field Name	Source	Definition
Cover pool asset class	Issuer	The asset type in the cover pool (public sector assets or mortgage assets)
Legal framework	CRA	The set of legislative and regulatory rules of the respective jurisdiction that regulates the covered bonds (CB) program
Nominal value	Issuer	The total amount of outstanding covered bonds as of cut-off date expressed in millions
Cover pool value	Issuer	Aggregate value of all assets in the cover pool as of cut-off date expressed in millions
WAL maturity covered bonds	Issuer	The weighted average remaining maturity of all outstading covered bonds in years
WAL maturity cover pool	Issuer	The weighted average remaining maturity of all outstading covered assets in years
Repayment method	Issuer	Hard Bullet: Covered bonds are repaid on the maturiry date which cannot be extended Soft Bullet: The maturity date of the covered bonds can be extended by a fixed period Conditional pass-through (CPT): Covered bonds with a scheduled maturity date, and an extension mechanism defined by certain conditions
Overcollateralization	Issuer	Current OC: The proportion of covel assets that exceeds the proportion of currrently outstanding covered bonds, calculated as ([Cover pool value]/[outstanding covered bonds]-1)*100 Min OC: The OC level that the issuer must maintain according to the respective CB legislation Committed OC: The minimum OC level that the issuer has committed to maintain
Covered bonds coupon type	Issuer	Type of interest rate paid on covered bonds, expressed as a percentage of bond's face value
LT Issuer Rating	CRA	Long-term ratings assess the default risks for each category of a bank's financial instruments with a residual term-to-maturity of more than one year
ST Issuer Rating	CRA	Short-term ratings assess the default risks for each category of a bank's financial instruments with a residual term-to-maturity of less than one year
Legal and regulatory framework analysis	CRA	A qualitative assessement of legislative and regulatory rules of the covered bonds program
Liquidity and refinancing risk	CRA	A qualitative assessement of regulatory requirements for liquidity and refinancing risk of the covered bonds program
First rating uplift	CRA	The rating after adding up the notches from Legal and regulatory framework analysis and Liquidity and refinancing risk with LT Issuer rating
Cover pool and cash flow analysis	CRA	The quantitative assessment of the cover assets and covered bonds at different rating-level stressed scenarios
Second rating upflift	CRA	The rating after adding up the notches from cash-flow analysis with 1st rating uplift (only effective if the rating from cash-flow analysis is higher than the 1st rating uplift)
Metrics date	CRA	The date on which CRA assigned the initial / follow-up rating of the covered bond program
Rating Case Default Rate (RDR)	CRA	Stressed default rate of the cover assets represented by the base case stressed scenario
Rating Case Recovery Rate (RRR)	CRA	Stressed recovery rate of the defaulted assets represented by the base case stressed scenario
Expected Loss	CRA	Stressed loss rate of the cover assets represented by the base case stressed scenario. The expected loss rate has been calculated as [RDR*(1-RRR)] [%]
Rating Case Breakeven OC	CRA	The required stressed OC level compatible with the base case rating
Average Seasoning	Issuer	Average length of the loans from the origination date to the cut-off date in months
Loan Size	Issuer	Average size of the loans (i.e. Total value of cover assets / Number of loans)
LTV	Issuer	The loan-to-value (LTV) is the ratio of a loan to the value of the property securing the loan
LEI	CRA	Legal Entity Identifier (LEI) enables unique identification of legal entities in financial transactions
Arrears Distribution	Issuer	The distrbution of arrears of the cover assets with respect to each asset class
Seasoning Distribution	Issuer	The distrbution of seasoning of the cover assets with respect to each asset class
Asset liability Profile	CRA	The maturity structure of the cover assets and liabilities
% Residential Loans	Issuer	Outstanding value of loans that are secured by the residential property expressed as % of total outstadning loans in the cover pool
% Commercial Loans	Issuer	Outstanding value of loans that are secured by the commercial property expressed as % of total outstadning loans in the cover pool
Fixed Coupon	Issuer	All assets and liabilities in the covered bond program that yield a fixed interest rate
Floating Coupon	Issuer	All assets and liabilities in the covered bond program that have variable interest rates
EIEURxM	Reuters	Euro x Month EURIBOR
EURSWExY	Reuters	Euro x Year Interest Rate Swap Fixing

Disclaimer

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