

User Guide for Technical Documents and Addenda

(Version: 28th May 2021)

Effective Date	Technical Documents and Addenda
28 th May'21	Technical Report Version 2021 Update 1
19 th Apr'21	Version 2020 Update 2 Addendum 2: Introduction of an additional covariate for China's listed firms
5 th Nov'20	Version 2020 Update 2 Addendum 1: Replacement of Switzerland's 3-month and 1-year interest rates
14 th Sep'20	Technical Report Version 2020 Update 2
14 th Sep'20	Version 2020 Update 1 Addendum 1: Increase the updating frequency for one DTD parameter from monthly to daily
1 st Jul' 20	Technical Report Version 2020 Update 1
10 th May' 20	Version 2017 Update 1 Addendum 15: Replacement of stock index in Egypt
11 th Feb' 20	Version 2017 Update 1 Addendum 14: Replacement of stock index in Italy and Ghana's 1-year interest rate
14 th Oct' 19	Version 2017 Update 1 Addendum 13: Likelihood function for Indian default data
11 th Jun' 18	Version 2017 Update 1 Addendum 12: Expansion of coverage to Qatar
2 nd May' 18	Version 2017 Update 1 Addendum 11: Changes in parameter estimation method in the CRI Probability of Default model
2 nd May' 18	Version 2017 Update 1 Addendum 10: Changes to treatment of interest rate in the CRI Probability of Default model
2 nd May' 18	Version 2017 Update 1 Addendum 9: Addition of covariates to the CRI Probability of Default model and estimation change for North America and China
16 th Apr' 18	Version 2017 Update 1 Addendum 8: Replacement of interest rates and stock index in Kuwait
12 th Mar' 18	Version 2017 Update 1 Addendum 7: Replacement of Chile's 1-year and 3-month interest rate
16 th Jan '18	Version 2017 Update 1 Addendum 1*: The CRI Systemically Important Financial Institution (CriSIFI) with new credit cycle indices
28 th Dec '17	Version 2017 Update 1 Addendum 6: Winsorization of the stock index return in the three

	<u>calibration groups</u>
18 th Dec '17	<u>Version 2017 Update 1 Addendum 5: Changes in parameter estimation</u>
18 th Dec '17	<u>Version 2017 Update 1 Addendum 4: Changes to covariates in the CRI Probability of Default model</u>
15 th Dec '17	<u>Version 2017 Update 1 Addendum 3: The CRI Probability of Default implied Rating (PDiR)</u>
10 th Oct '17	<u>Version 2017 Update 1 Addendum 2: Expansion of coverage to 9 additional African economies</u>
1 st Sep '17	<u>Version 2017 Update 1 Addendum 1: The CRI Systemically Important Financial Institution (CriSIFI)</u>
30 th May '17	<u>Technical Report Version 2017 Update 1</u>
28 th Mar '17	<u>Version 2016 Update 1 Addendum 2: Definition revision and statistics update on the corporate credit and other-exit events</u>
23 rd Feb '17	<u>Version 2016 Update 1 Addendum 1*: Revision to the parameter estimation on intercept and the DTD Level and their statistical inference for the Chinese sample</u>
23 rd Dec '16	<u>Technical Report Version 2016 Update 1 Addendum 1: Revision to the parameter estimation on intercept and the DTD Level for the Chinese sample</u>
26 th Aug '16	<u>Technical Report Version 2016 Update 1</u>
13 th Jun '16	<u>Technical Report Version 2015 Update 1 Addendum 6: Replacement of Romania stock index / Exclusion of an OTC market in Romania</u>
23 rd May '16	<u>Technical Report Version 2015 Update 1 Addendum 5: Definition revision and statistics update on the corporate credit and other-exit events</u>
17 th Mar '16	<u>Technical Report Version 2015 Update 1 Addendum 4: Revision to other liabilities fraction estimation in DTD computation</u>
18 th Feb '16	<u>Technical Report Version 2015 Update 1 Addendum 3: Replacement of Denmark's 1-year interest rate/ Replacement of Indonesia's 3-month interest rate</u>
15 th Jan '16	<u>Technical Report Version 2015 Update 1 Addendum 2: Identification of additional default events in India</u>
17 th Dec '15	<u>Technical Report Version 2015 Update 1 Addendum 1: Addition of discretionary credit events/ Replacement of Morocco stock index</u>
14 th Jul '15	<u>Technical Report Version 2015 Update 1</u>
14 th Jul '15	<u>Technical Report Version 2014 Update 1 Addendum 9: Update on the replacement of Romania stock index</u>
20 th Jun '15	<u>Technical Report Version 2014 Update 1 Addendum 8: Reclassification of economic regions</u>
9 th Feb '15	<u>Technical Report Version 2014 Update 1 Addendum 7: Replacement of Jordan's 3-month and</u>

	<u>1-year interest rate</u>
12 th Jan '15	<u>Technical Report Version 2014 Update 1 Addendum 6: Replacement of interest rates/ CRI coverage expansion/ Revision to the missing value treatment for PD calculation/ Adjustment for Lithuania due to its entrance to Eurozone</u>
13 th Dec '14	<u>Technical Report Version 2014 Update 1 Addendum 5: Revision to the M&A treatment</u>
15 th Nov '14	<u>Technical Report Version 2014 Update 1 Addendum 4: Replacement of Thailand's 3-month interest rate/Revision to the treatment of 3-month interest rate variables and coefficients for Switzerland and Iceland/RMI increased coverage: Addition of Oman, Jamaica and Bangladesh</u>
18 th Oct '14	<u>Technical Report Version 2014 Update 1 Addendum 3: Revision to one of the financial statement priority rules/Replacement of India's 3-month and 1-year interest rate</u>
16 th Aug '14	<u>Technical Report Version 2014 Update 1 Addendum 2: Further exclusion OTC traded companies/Replacement Romania stock index</u>
8 th Jul '14	<u>Technical Report Version 2014 Update 1 Addendum 1: Revision to the aggregate PD calculation</u>
8 th Jul '14	<u>Technical Report Version 2014 Update 1</u>
1 st Jul '14	<u>Actuarial Spread, a new CRI measure: Scientific foundation and methodology</u> Note: As an additional background document, please read the <u>Actuarial Spread White Paper</u>
19 th Mar '14	<u>Technical Report Version 2013 Update 2b Addendum 5: Revision to balance sheet items used in distance-to-default(DTD)</u>
14 th Jan '14	<u>Technical Report Version 2013 Update 2b Addendum 4: Replacement of Sweden's risk-free rate</u>
11 th Dec '13	<u>Technical Report Version 2013 Update 2b Addendum 3: Replacement of Singapore's 3-month interest rate</u>
16 th Nov '13	<u>Technical Report Version 2013 Update 2b Addendum 2: Revision to financial statement priority rules for Taiwan/Replacement of Russia's 3-month interest rate</u>
12 th Oct '13	<u>Technical Report Version 2013 Update 2b Addendum 1: Revisions to financial statement priority rules for Australia and South-Korea/Revisions to the winsorization for market-to-book ratio/Revisions to the monthly calibration for the emerging markets group/Reclassification of default events in Thailand /Replacement of Jordan's stock index</u>
17 th Sep '13	<u>Technical Report Version 2013 Update 2b</u> Note 1: Version 2013 Update 2b replaces the previously posted Version 2013 Update 2. Note 2: On 17/01/2014 a new update of the technical report has been uploaded after revisions to plots B.3.-B.8.
21 st Aug '13	<u>Technical Report Version 2013 Update 1 Addendum1: Revisions to monthly parameter updates</u>
10 th Jul '13	<u>Technical Report Version 2013 Update 1</u> Note: Please read 'Technical Report Version 2013 Update 1' in conjunction with Addendum 8 released on 15th May 2013. Due to the publication schedule of the Global Credit Review this addendum is not included in this version of the technical report.

15 th May '13	<u>Technical Report Version 2012 Update 2 Addendum 8: Changes to distance-to-default (DTD) computation</u>
1 st Apr '13	<u>Technical Report Version 2012 Update 2 Addendum 7: Extension to 5-year forecast horizon</u>
12 th Mar '13	<u>Technical Report Version 2012 Update 2 Addendum 6b: Level/Trend calculation</u>
15 th Feb '13	<u>Technical Report Version 2012 Update 2 Addendum 6: Missing value treatment</u>
15 th Jan '13	<u>Technical Report Version 2012 Update 2 Addendum 5: Daily sigma</u>
5 th Dec '12	<u>Technical Report Version 2012 Update 2 Addendum 4: Treatment of companies after default event</u>
4 th Dec '12	<u>Technical Report Version 2012 Update 2 Addendum 3: RMI global coverage</u>
19 th Oct '12	<u>Technical Report Version 2012 Update 2 Addendum 1: Financial statements/M&A treatment</u>
15 th Aug '12	<u>Technical Report Version 2012 Update 2 Addendum 2: RMI increased coverage: Addition of Vietnam and New Zealand</u>
1 st Aug '12	<u>Technical Report Version 2012 Update 2</u>
12 th Jun '12	<u>Technical Report Version 2012 Update 1 Addendum 1: Relative size computation</u>
12 th Jun '12	<u>Technical Report Version 2012 Update 1</u>
15 th May '12	<u>Technical Report Version 2011 Update 1 Addendum 4: DTD computation and net income variable</u>
16 th Mar '12	<u>Technical Report Version 2011 Update 1 Addendum 3: Data screening</u>
13 th Dec '11	<u>Technical Report Version 2011 Update 1 Addendum 2: Calibration grouping</u> <u>Technical Report Version 2011 Update 1 Addendum 1: Default definition</u>
7 th Jul '11	<u>Technical Report Version 2011 Update 1</u> <u>Technical Report Version 2011 Update 1 Appendix</u>