

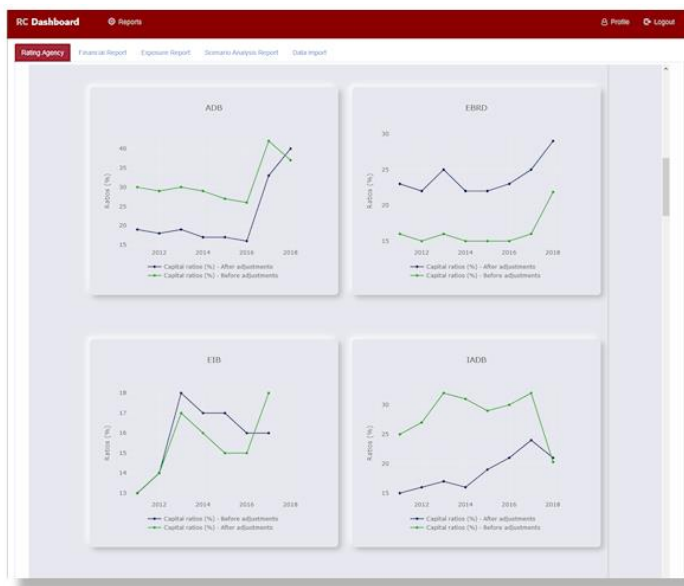
Note

RC-Dashboard and Database Tool

RC-Dashboard and Database Tool combines powerful and flexible analytics with high-quality and configurable visualisation of the results obtained. In an example application data on financial reports, portfolios and financial indicators are loaded and manipulated using a bespoke set of routines and algorithms and then presented through a dashboard.

The software supports analysis by risk or finance teams within financial institutions and their presentation to a wider audience of managers and analysts.

The system is implemented as a server-based web-application using analytics libraries and high-quality graphical components.



RC-Dashboard and Database Tool Features

- The capability to import data from a combination of public and the client-specific internal sources
- The scope to validate, manipulate and store in the database those data using the Database Tool
- The ability to trigger complex, customised calculations from the interface
- The scope to construct high quality bespoke visualisation of data analyses
- The capability to access and display the results of published calculations from other Risk Control software applications
- Data extraction functionality to export results obtained to workbooks.

Risk Control's Dashboard and Database Tool is an application that allows clients to manipulate and view data including outputs from other Risk Control software.

For the analysts the RC-Dashboard and Database Tool supports the following functionalities:

- View reports on internal data on portfolio and financials
- View reports on calculations based on internal data
- View reports based on external data
- View reports based on calculations by other Risk Control software
- Export data from the dashboard

For the risk specialist the RC-Dashboard and Database Tool supports the following functionalities:

- Upload data to the database and view them through the Dashboard
- Perform calculations and scenario analyses and view the results via the Dashboard
- View calculations performed by other Risk Control software

The screenshot shows the RC Dashboard interface with two data tables. The top table is for ADB and the bottom table is for EBRD. Both tables have columns for Variables, 2011, 2012, 2013, 2014, and 2015. The variables include Capital ratios (Before and After adjustments), Credit risk (Total, Corporate, Retail, Securitization, Other assets), and Credit risk - average risk weight (Government and central banks, Institutions).

Variables	2011	2012	2013	2014	2015
Capital ratios (%)					
After adjustments	19.00	18.00	19.00	17.00	17.00
Before adjustments	30.00	29.00	30.00	29.00	27.00
Credit risk					
Institutions	1,543,051.06	636,968.26	1,367,532.47	1,567,493.32	1,451,942.3
Corporate	2,359,845.50	2,818,021.65	3,246,753.25	4,086,112.05	4,694,996.3
Retail	0.00	0.00	0.00	0.00	0.00
Securitization	0.00	0.00	0.00	0.00	0.00
Other assets	1,006,337.65	409,260.08	431,818.18	468,600.49	492,159.3
Total credit risk	26,951,611.12	27,622,127.37	28,089,810.39	32,229,562.12	37,495,790
Of which mortgage					0.00
Government and central banks	22,041,725.56	23,759,857.38	23,043,506.49	26,116,606.04	30,856,640
Credit risk - average risk weight (%)					
Government and central banks	49.00	45.00	44.00	46.00	47.00
Institutions	22.00	8.00	19.00	21.00	32.00

Variables	2011	2012	2013	2014	2015
Capital ratios (%)					
After adjustments	23.00	22.00	25.00	22.00	22.00
Before adjustments	16.00	15.00	16.00	15.00	15.00
Credit risk					
Institutions	6,095,239.27	7,253,467.97	7,229,870.13	5,595,626.78	6,227,642.3
Corporate	12,424,524.68	12,675,350.70	13,526,623.38	13,499,354.64	16,094,765
Retail	0.00	0.00	0.00	0.00	0.00
Securitization	4,643,482.91	716,367.80	367,532.47	380,312.12	361,542.2
Other assets	0.00	848,100.80	670,779.22	1,307,279.77	1,211,836.3
Total credit risk	28,597,575.67	27,461,416.34	28,481,818.18	27,387,994.28	32,138,295
Of which mortgage					0.00
Government and central banks	4,834,328.82	5,967,779.72	6,687,012.99	6,604,730.78	8,244,030.2
Credit risk - average risk weight (%)					
Government and central banks	63.00	60.00	60.00	63.00	69.00
Institutions	52.00	31.00	34.00	28.00	30.00

Technical Information

The RC-Dashboard and Database Tool provides a configurable user interface for the visualisation of structured data. The software presents data from an underlying data source in a clearly arranged way, organising charts in tabs. These tabs can be restricted based on user privileges to provide different user groups with appropriate data.

The software consists of a module written in Java which handles the user authentication and organises the display according to the user's permissions. This module employs the dashboard module which is written in Python and JavaScript.

Database access with the use of DB-API 2.0 currently supports PostgreSQL and SQL Server but can be extended most other DBMS.

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