

BearingPoint®

Abacus360 Regulator

Integrated platform for collection, analysis and dissemination of supervisory and statistical data for central banks and supervisory authorities

**CENTRAL
BANKING**

AWARDS 2018

CONSULTANCY AND ADVISORY
PROVIDER OF THE YEAR -
DATA AND REGULATORY MANAGEMENT

**CENTRAL
BANKING**

AWARDS 2017

CONSULTANCY AND ADVISORY SERVICES
PROVIDER OF THE YEAR (CORE)

**CENTRAL
BANKING**

AWARDS 2016

TECHNOLOGY PROVIDER OF THE YEAR

Complex regulatory reporting requirements with short change cycles and big data sets affect supervisors, central banks and national competent authorities around the world and have a big impact on their operating model including IT infrastructure and business processes. In light of this situation, BearingPoint has launched a next generation product that helps to optimize the regulatory reporting pipeline through industrialisation of the operational supervision process (data collection, validation, analysis, and sharing): Abacus360 Regulator.

Challenge for Regulators

The specific challenge for regulators is to manage collection, data quality, timely processing and analysis of supervisory data. Regulators have to deal with large amounts of data of various kinds - collected from supervised entities for statistical, prudential or stability purposes, provided by information providers or obtained from internal research and analysis. Such data would span from granular micro information on single mortgage loans, securities traded and counterparties affected to macro-economic analysis of countries or regions to form-based collections of financial and risk data or ad-hoc supervisory exercises. Some of this data will remain only in the perimeter of the central bank some will be remitted to other stakeholders such as the European Supervisory Authorities (ESAs), country governments, the International Monetary Fund (IMF) or the Bank for International Settlements (BIS), some will be disseminated to the wider public or research community.

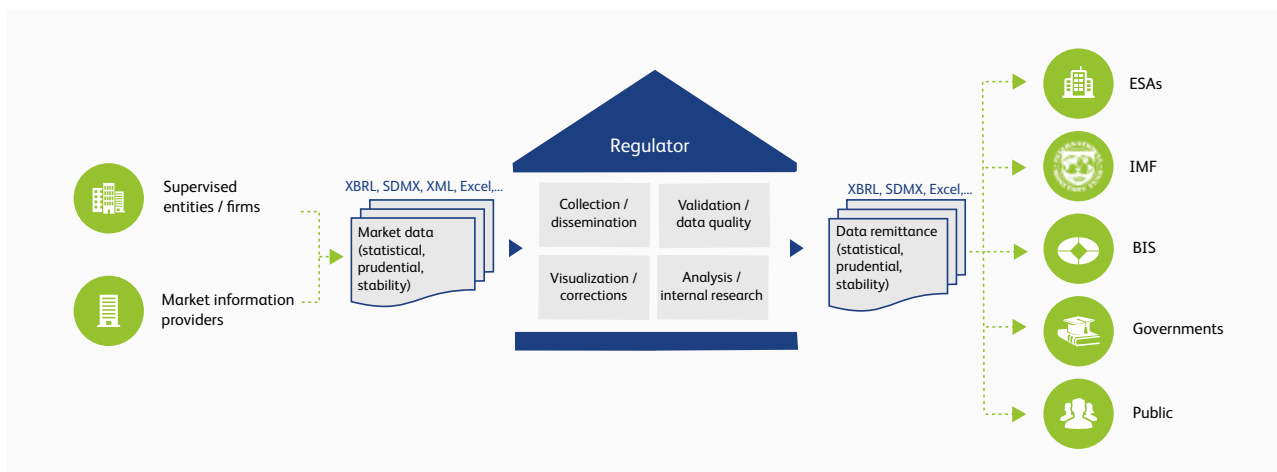


Figure 1: managing data collection, analysis and dissemination effectively

Therefore, it is mission-critical for regulators to

- effectively handle large amounts of data from various sources
- gain transparency on the status of the supervised entities in the collection and dissemination process
- get a timely overview of relevant micro and macro developments in the financial markets and
- execute reliable trend analyses on KPIs and Key Risk Indicators (KRIs) based on validated collected data

Automation and industrialization are the answers

The expanding requirements have proved to be a great challenge and cost driver for IT departments of regulators. IT infrastructure and processes have to be optimized in order to collect, process, analyze and disseminate supervisory and statistical data from different sources and in various formats. Process automation and innovative solutions are required to reduce expenditures, operational burdens and time to market for new supervisory requirements.

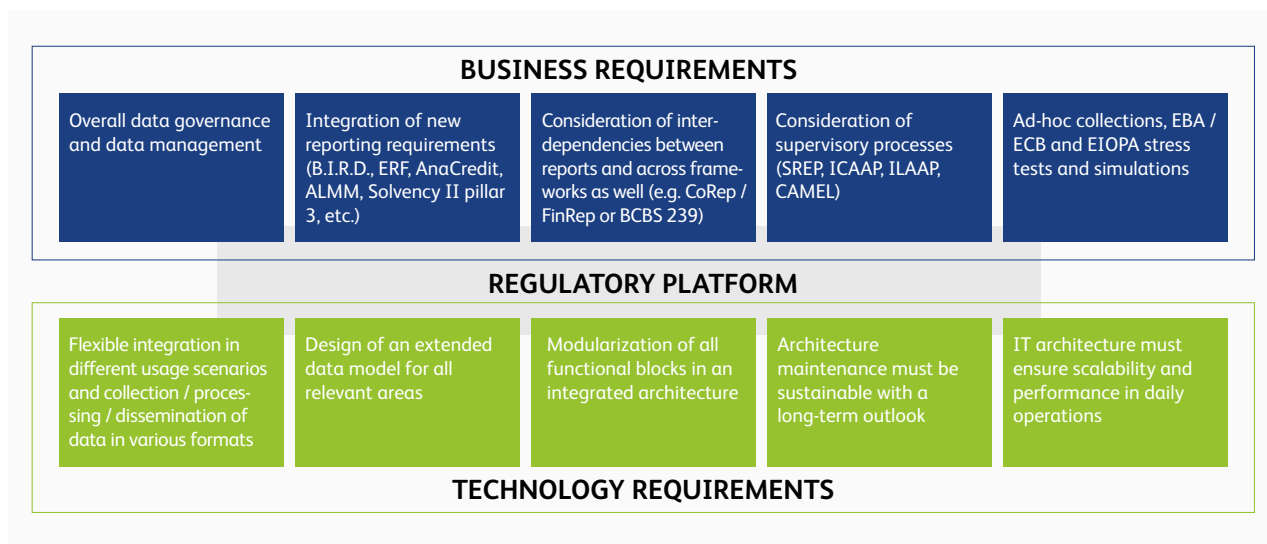


Figure 2: Requirements for Future-Oriented regulatory platforms

Abacus360 Regulator – Next Generation RegTech

Abacus360 Regulator

An innovative platform for risk-based supervision and regulatory analytics.

With Abacus360 Regulator, BearingPoint has developed an innovative, integrated solution for collection, analysis and dissemination of supervisory and statistical data. Abacus360 Regulator offers essential functionalities on one modular, high-performance platform allowing for 360° risk-based supervision:

- **Enhanced Collection:** innovative functions for streamlining the process of data collection, processing and dissemination including the possibility to define customer-specific master data like permissions, waivers, etc.
- **Regulatory Analytics:**
 - regulatory business intelligence
 - functionality for monitoring and controlling supervisory KRIs

Abacus360 Regulator is based on BearingPoint's proven Abacus platform, which is the result of more than 20 years of experience in regulation. Abacus360 Regulator stands for a holistic 360° approach in two fundamental ways: Firstly, the new platform goes far beyond mere collection by integrating comprehensive functionalities for regulatory analytics, risk calculations and management of supervisory KRIs. Secondly, the new platform covers the requirements for all stakeholders involved within the Regulatory Value Chain. Abacus360 Regulator is suitable for various usage scenarios. The platform can be deployed as

- a closed solution for the regulator (with no access from outside market participants)
- as an open solution also for firms providing them advanced portal functionality as a service and thus reducing regulatory burdens
- as a shared services platform

Integrated Platform for Collection, Analysis and Dissemination of Supervisory and Statistical Data

Rapid deployment thanks to standard business content and regulatory maintenance through BearingPoint.

Abacus360 Regulator complies with the requirements of the regulatory frameworks of global regulations from the BCBS, the European Central Bank (ECB), the European Banking Authority (EBA), the European Insurance and Occupational Pensions Authority (EIOPA) as well as with the local requirements of national supervisory authorities.

Abacus360 Regulator provides standard reporting content for numerous jurisdictions but also facilitates flexible integration of jurisdiction-specific requirements via Designer tools. BearingPoint takes care of constant regulatory maintenance, for example with regard to CoRep, FinRep, AnaCredit and Solvency II.

ABACUS360 REGULATOR					
REGULATORY REPORTING			DATA MANAGEMENT, MONITORING & ANALYSIS		
Prudential Reporting		National Reporting		Data Collection	Sign-off, Workflows & Alerting
COREP	Solvency II	Open for any national reporting requirements		Automated XBRL data upload	Processing, monitoring, notifications
FINREP	Other			Data upload (XML, XLS, ABACUS/Connect, etc.)	Sign-off and remittance to ECB, EBA, EIOPA
Statistical Reporting		Disclosure		Manual data entry	KPI calculation and alerting
ECB Statistics	ECB insurance statistics and other statistics	Disclosure according to Basel 3 Pillar III		Data Quality & Validation	Monitoring & Analysis
Granular Reporting		Ad Hoc Reporting		Validation rules engine (including XBRL validation engine)	Smart cube analysis for granular data, including robust query engine for analysis
AnaCredit	Input Approach (e.g. BIRD)	ECB / EBA / EIOPA Stress Test	Other ad-hoc requests	Non-XBRL validations and cross validation (incl. EBA / EIOPA filing rules; 2nd Level Rules, SSM rules)	ECB, EBA, EIOPA, national templates Template Designer
BCBS • CRR / CRD LV • NATIONAL LEGISLATION • SREP • BRRD					

Figure 3: Abacus360 Regulator - Integrated platform for collection, analysis & dissemination of supervisory and statistical data

Enhanced Collection – An Optimized Reporting Process

The Enhanced Collection component provides intelligent features to facilitate a streamlined reporting process, such as **Validation Designer** for the definition and application of validation rules to ensure a user-specific, efficient and automated collection of high-quality and complete data, additionally secured through a comprehensive consideration of diverse data sources.

Analytics

The Analytics Components offers regulatory-specific business intelligence functionality, creating transparency through the growing amounts of increasingly complex data. The fundamental Analytics Components modules are:

- **Smart Cube Analyzer** for the analysis of supervisory and statistical data across various ratios and dimensions including slicing, dicing, drill-up and down into regulatory data marts
- **Template Designer** for individually designed and customized templates for internal and external reporting (regular and ad-hoc collections)
- **Smart Cubes** – data structures designed according to collection-type – enabling a functional view of the data

The Analytics component of Abacus360 Regulator creates transparency for the growing and increasingly complex data allowing for risk-based supervision. Based on standardized smart cubes for relevant statistics or supervisory topics, Abacus360 Regulator offers a wide range of analysis capabilities enabling supervisors to execute easily definable evaluations according to specific, customized parameters and to clearly present results related to specific reference and remittance dates, thus facilitating analysis of developments over longer periods in form of time series possibly identifying outliers as well as benchmarks and comparison of firms. All report results can be exported to standard Office applications. Moreover, Abacus360 Regulator provides an ETL functionality for export to BI systems.

Analytics with Abacus360 Regulator

360° analytics of complex data including time series analysis.

System Architecture and Technical Functionality

Abacus360 Regulator is an integrated, modular platform. The various components can be individually combined according to the specific needs of supervisors. Abacus360 Regulator is characterized by high performance and scalability as well as significantly increased transparency and improved integration in supervisory processes. The key feature of the new platform is an integrated data model to ensure maintenance sustainability over the long-term, even under constantly changing framework conditions. Furthermore, Abacus360 Regulator offers a wide range of regulatory business intelligence functions based on data mart structures (smart cubes).

Long term maintenance sustainability through integrated data model.

Workflow

Abacus360 Regulator provides user-friendly features for the customization of workflows:

- **Dashboard** with a variety of tools for easy and efficient planning and managing entire workflows for regulatory calculations, data quality assessments, analytics and dissemination of reports; definition of notifications for process control, user interaction, etc. including for example alerts before or after reports are due
- **Workflow Designer** for an easy and efficient definition and configuration of user-specific workflows for the data and report receipts and for other processes related to supervisory and statistical reporting; through the Workflow Designer Abacus360 Regulator facilitates automated scheduling based on complex rule sets (this feature is on the roadmap and will be finalized shortly).

Engine

The Engine offers a robust, rule-based calculation engine. It is based on a logical data model defined in the user interface and is a functionally structured component model that can provide a complete history of all system artefacts and full transparency regarding dependencies:

- **Calculation Designer** for capturing business logic rules via the user interface and supporting flexible adaptations and enhancements to the complex rule sets for the creation of supervisory and statistical aggregates, for example Financial Soundness Indicators (FSI) and Consolidated Banking Data (CBD)
- **Data Model Designer** for the definition of customized tables and attributes via the user interface and their integration in the data model
- **REST** interface for allocated data
- Fully integrated **XBRL processor**
- **Reporting Manager** for the presentation of a reporting schedule, providing a searchable view of the scheduled obligations of institutions, showing what they need to submit for each reporting period and by when.

Abacus – Award-winning RegTech

Abacus360 Regulator is based on BearingPoint's proven Abacus platform. Customers representing 1,900 firms in more than 20 countries trust on the products of BearingPoint's Abacus Solution Suite, among them large central banks, regulatory authorities, renowned financial institutions, a major part of the 129 most important European Banks under supervision of the SSM and leading insurance companies. The Abacus Solution Suite products, in particular Abacus360 Regulator, have been honored by leading analysts and industry-specific reports. This year, Central Banking acknowledged BearingPoint as **"Consultancy and Advisory Provider of the Year"** for its expertise in data management and regulatory reporting. This marks the third Central Banking award in a row the company has now received. Finally, with Abacus360 Regulator, BearingPoint was a winner in the category **"Regulatory Reporting / Regulatory Risk Analytics and Calculations"** at the first RegTech Directory Spotlight Awards 2017 by RegTech Associates.



Regulatory Expertise, Consulting & Services

BearingPoint is a leading management and technology consultancy with long-term expertise in the area of regulation. We work closely with regulators and actively contribute to the process of standard setting. BearingPoint is member of XBRL International along with other standardization bodies and works with supervisory authorities such as the ECB, EBA and EIOPA. We combine this regulatory expertise with our proven software solution suite and expert consulting capabilities as well as training seminars and managed services in the area of regulation.

Rapid Deployment and Comprehensive Customer Support

Abacus360 Regulator users benefit from short deployment times since it is an integrated standard solution providing both business content and maintenance of regulatory artefacts by BearingPoint, e.g. reporting frameworks, XBRL taxonomies, filing and validation rules, etc. Our comprehensive customer support services include a hotline, a web-based Open Ticket Request System (OTRS) and a useful online service providing documentation, downloads of software packages and other resources. In addition, the Abacus360 Regulator Wiki, roadmap and release plan and regular user groups provide numerous possibilities for current, informative and critical discourses between users and BearingPoint to collectively realize the best practices in relation to regulations and our product strategy.

Abacus360 Regulator - 360° RegTech

Full regulatory maintenance service by BearingPoint included

Why You Should Decide on Abacus360 Regulator

Abacus360 Regulator is the result of more than 20 years of experience in regulation. Users profit from the regulatory maintenance of the solution through BearingPoint. Moreover, Abacus360 Regulator integrates comprehensive functionality for supervisory and statistical data collection, analytics and dissemination onto one single platform. Finally, Abacus360 Regulator is suitable for various usage scenarios.

Expertise

Extensive functional coverage, regulatory compliance thought leadership in regulation



Reliability

Trusted, transparent reporting platform, regulatory maintenance through BearingPoint



Efficiency

Integrated platform for multi-jurisdictional reporting, unified data model, investment protection



Holistic Portfolio

Software & services, implementation, consulting and support from one hand



Innovation

Innovative solutions along the Regulatory Value Chain



Extensive Market Coverage

Large, stable, international client base



About BearingPoint RegTech

With its RegTech product unit, BearingPoint is a leading international provider of innovative regulatory and risk technology solutions (RegTech and RiskTech) and services along the Regulatory Value Chain for Financial Services.

Customers representing 6,000 firms worldwide, among them large international banks, a major part of the largest European banks, leading insurance companies as well as supervisory authorities and central banks, trust BearingPoint's RegTech products and services.

We work closely with regulators and, as a member of standardization bodies such as the XBRL consortium, we actively contribute to the standard-setting process. We combine our regulatory know-how with our proven, reliable and forward-looking RegTech solution suite, expert consulting capabilities, as well as managed services and training seminars.

For more information, please visit www.reg.tech

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