

**A-TEAM**GROUP

# REGULATORY DATA HANDBOOK

FOURTH EDITION



# 2016/17

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A low-angle, black and white photograph of several modern skyscrapers reaching towards the sky. The perspective is from the ground looking up, creating a sense of height and scale. The buildings are composed of glass and steel, with their facades reflecting the sky. The sky is a pale, uniform grey.

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## REGULATORY DATA HANDBOOK

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# Turning Regulatory Compliance into Business Opportunity

Welcome to our fourth edition of the A-Team Group Regulatory Data Handbook – still our most popular download ever from the Data Management Review website.

The growing list of regulations and their compliance requirements continues to put pressure on financial institutions across the buy side and sell side. New regulations on our radar include the fourth Anti-Money Laundering Directive (AMLD4), European Market Infrastructure Regulation II (EMIR II), FIDLEG – or the Swiss Financial Services Act, Fundamental Review of the Trading Book (FRTB), General Data Protection Regulation (GDPR), Market Abuse Regulation (MAR), the Network and Information Security Directive (NIS), Packaged Retail and Insurance-based Investment Products (PRIIPs), Section 871(m) of the Internal Revenue Code, and Securities Financing Transactions Regulation (SFTR).

We have also touched on Brexit, which leaves all European financial regulations in place until negotiations on the UK's new relationship with the EU are completed.

Regulatory pressure is a driving force for many data management decisions and budgets, but being driven by fear of non-compliance and consequent penalties is not good for business.

Now, attention is turning to how financial institutions can leverage investment being made in data management for compliance in order to support business transformation and growth.

This is a topic A-Team has been covering across its content and we will continue to track progress throughout the year. We've delved into the pain points data managers face, the approaches they are taking, and the technology and data solutions that are available to help them both comply and build on their businesses.

If you find the overviews in this handbook useful, you may also value our more in-depth coverage on the impact of regulations on data management. You can find this on our website at [www.datamanagementreview.com](http://www.datamanagementreview.com) by browsing these sections:

- Surveys and white papers
- Webinars
- Additional handbooks
- Data Management Summit events in New York and London.

I hope you enjoy this latest version of our Regulatory Data Handbook.

Angela Wilbraham  
Chief Executive Officer  
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We host an extensive series of webinars throughout the year covering a selection of hot topics. Take a look at our upcoming webinars and our library of recordings at <http://bit.ly/DMRWebinars>

November 3rd	Meeting the data management challenges of MiFID II
November 10th	How to implement successful data governance
December 1st	How to establish a sustainable solution for data lineage
December 15th	Managing entity data hierarchies and keeping track of sanctions, watch lists and PEPs across KYC processes
<b>2017</b>	
March 2nd	Are you ready for the General Data Protection Regulation (GDPR)?
March 9th	How to apply data visualisation to data management
April 6th	Putting data management processes in place for MiFID II
April 20th	Using metrics to measure data quality
April 27th	Step-by-step guide to implementing a data governance framework
May 11th	Are you ready for the General Data Protection Regulation (GDPR): one year to go?
May 18th	Approaches to managing corporate actions data
May 25th	A harmonised approach to data management for regulatory reporting
June 8th	Tracking data lineage for regulatory compliance and change
June 22nd	Data management approaches for the buy-side
July 6th	New approaches to mapping symbologies
September 14th	Meeting the imperative for data quality
September 19th	Better analytics through agile data management
October 12th	How to get entity, hierarchy and relationship data right
October 18th	Managing the pain points in the countdown to MiFID II
November 9th	Making the most of data management utilities
November 16th	How to apply non-traditional technologies to data management: cloud, machine learning, automation, cognitive technology, blockchain and more
December 12th	Data management requirements for the 2018 regulatory agenda
December 14th	Measuring results from client onboarding solutions

If you would like to learn about webinar sponsorship and speaking opportunities, please contact Jo Webb at [jo@a-teamgroup.com](mailto:jo@a-teamgroup.com)





## Foreword

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By Dr Darryl Twigg, EVP Product Management, SmartStream

In recent years, numerous regulations have been published demanding the introduction of new controls, greater transparency and more frequent reporting. Many of the regulations originate from G20 mandates and provide global, standardised controls, but some have more regional origins and have been implemented via national laws in different jurisdictions, sometimes causing overlap or differences in the way requirements are applied.

The regulatory landscape is certainly complex and likely to become more so as further rules are implemented. It will also become larger as new regulations extend to cover previously exempt business lines and organisations. For financial institutions, regulation is having a profound effect on daily operations from data management to regulatory reporting. The cost of compliance is high, but so too is the cost of failure.

At the heart of solving the regulatory conundrum at an affordable cost are flexibility and the ability to handle complexity. These requirements can be met by emerging technologies that sustain business operations while supporting compliance with stringent controls, data aggregation demands, risk management requirements and reporting schedules.

SmartStream has shaped its solutions to assist clients as they respond to increasing regulation. The solutions are architected on a single technical stack, support all asset types and are founded on flexible workflows to enable easy adoption of processes associated with new regulatory requirements. They also provide real-time processing with intra-day control points and fulfil the critical factor of meeting regulatory deadlines quickly, accurately and efficiently.

To ease the burden of cost, SmartStream solutions are deployed on-premise, hosted or delivered as managed services, providing attractive options to firms subject to regulatory control, monitoring and reporting. Among the solutions is a unique reference data management utility that provides on-demand, high quality data to banks' front, middle and back offices, ensuring the best straight through processing rates while minimising errors and costly disputes.

As increasing regulation puts pressure on firms to implement necessary controls, the ability to achieve rapid deployment of regulatory responses at the lowest possible cost is a significant advantage.

# AIFMD

## At a Glance

**Regulation:** Alternative Investment Fund Management Directive (AIFMD)

**Regulatory Regime/ Authority:** EU

**Target Market Segment:** Alternative investment funds

**Core Data Requirements:** Identification of asset types, third-party valuation of fund assets, reporting

## Significant Milestones

**July 21, 2011:** Adopted by the European Commission

**July 22, 2013:** Directive comes into force

**July 30, 2015:** ESMA publishes advice on extending passport system to six non-EU countries

**July 18, 2016:** ESMA publishes advice on extending passport system to a further six non-EU countries

## Description and Data Requirement

The Alternative Investment Fund Management Directive (AIFMD) is an EU directive that focuses on data and transparency requirements in alternative fund managers' fund registration, valuation and reporting processes.

The goal of the directive is to set regulatory standards and create a level playing field for the operation of alternative investment funds in Europe through the use of reporting and governance requirements. It requires firms to establish 'appropriate and consistent' procedures to allow for the independent valuation of a fund's assets. To achieve this, the valuation must be performed either by an independent third party or by the asset manager, provided there is separation between the pricing and portfolio management functions.

AIFMD also aims to facilitate regulatory systemic risk monitoring by improving transparency. To this end, funds must register with national regulators and provide disclosure on their risk management systems and investment strategies in order to present a clear picture of their overall risk and data management capabilities. Finally, AIFMD introduces capital requirements for firms acting as third-party administrators for alternative investment funds.

As with many other regulations, firms within the scope of AIFMD need to maintain the accuracy and quality of their reference data, and support any standards requirements for the identification of instruments. Firms must also manage Market Identification Codes (MICs) and Legal Entity Identifiers (LEIs).

One of the most challenging data management aspects of the regulation is completing Annex IV, a broad and prescriptive transparency reporting requirement that must be fulfilled by alternative investment fund managers. The annex includes a reporting template that comprises more than 40 questions, requiring managers to provide information including instruments traded, exposures, assets under management,

The Bloomberg AIFMD solution provides comprehensive support for AIFMD reporting. The combination of our Reference Data Services and evaluated pricing enables funds to streamline identification and exposure analysis. Our Reference Data provides industry-standard terms and conditions, AIFMD-specific taxonomy and counterparty data (entity reference data and corporate structures) that are mapped to the LEI. BVAL, our evaluated pricing service for fixed income and derivatives instruments, provides the critical transparency firms need to meet regulatory reporting requirements.

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## AIFMD (cont.)

liquidity profiles, a breakdown of investments by type, geography and currency, and stress test results.

The reporting frequency for Annex IV is determined by assets under management. Firms managing between €100 million and €500 million must file Annex IV reports annually, while those managing between €500 million and €1 billion are expected to file on a semi-annual basis, and those running in excess of €1 billion must submit reports on a quarterly basis.

A contentious problem for data management is the requirement for alternative investment funds to use an EU-domiciled depository bank, which must also provide transparency into its own operations. The ability to provide data quickly, accurately and in the correct format to support the transparency and reporting requirements of AIFMD can also require significant investment in data management.

While AIFMD initially covered alternative investment fund managers and funds registered in the EU, providing them with a passport system that allows fund managers and funds registered in one EU member state to market products to other member states, the European Securities and Markets Authority (ESMA) has been investigating whether the passport system should be extended to non-EU alternative investment fund managers and funds.

In July 2015, ESMA published initial advice on the application of the passport system to six non-EU countries, namely Guernsey, Hong Kong, Jersey, Switzerland, Singapore and the US. More recently, in July 2016, ESMA extended its advice on the application of the passport system to a further six countries, namely Australia, Bermuda, Canada, Cayman Islands, Isle of Man and Japan. ESMA's advice on all 12 non-EU countries will be considered by the European Parliament, Council and Commission before any decisions are made on extending the passport system.

### Dates for Diary

**July 2017:** European Commission to review directive

### Key Links

#### Full Text:

<http://eur-lex.europa.eu/legal-content/EN/TXT/?qid=1474883233433&uri=CELEX:32013R0231>

#### FAQs:

[http://europa.eu/rapid/press-release\\_MEMO-10-572\\_en.htm](http://europa.eu/rapid/press-release_MEMO-10-572_en.htm)

#### ESMA Q&A

[https://www.esma.europa.eu/sites/default/files/library/2016-568\\_qa\\_aifmd\\_april\\_2016.pdf](https://www.esma.europa.eu/sites/default/files/library/2016-568_qa_aifmd_april_2016.pdf)

Financial organisations need to manage their exposure by the size of their operations. SmartStream has a suite of solutions that can help with these processes such as client reporting and balance sheet substantiation.

The logo for SmartStream features a stylized wave icon above the company name "SmartStream".

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# AMLD4

## At a Glance

**Regulation:** Fourth Anti-Money Laundering Directive (AMLD4)

**Regulatory Regime/ Authority:** EU

**Target Market Sector:** Financial institutions

### Core Data

**Requirements:** Customer data due diligence, identification of PEPs, beneficial ownership data

## Significant Milestones

**December 15, 2005:** Third AML Directive takes effect

**February 10, 2015:** AMLD4 approved by European Council

**May 20, 2015:** AMLD4 adopted by European Parliament

**July 5, 2016:** European Commission adopts proposal to amend AMLD4

## Description and Data Requirements

The fourth EU Anti-Money Laundering Directive (AMLD4) updates the EU's third AML Directive and aims to prevent use of the financial system for purposes of money laundering and terrorist financing. It strengthens rules on AML and counter terrorist financing (CTF), improves consistency of rules across EU member states, and aligns with recommendations from the Financial Action Task Force that are broadly considered to be global standards.

AMLD4 was adopted by the European Parliament in May 2015 and was due to take effect on June 26, 2017, but recent terrorist attacks in the EU and the revelations of the Panama Papers led the European Commission to adopt a proposal on July 5, 2016 that amends the AMLD4 framework, provides more stringent rules on AML and CTF, and brings forward the effective date of the directive to January 1, 2017.

The penalties for non-compliance remain the same, with fines for financial institutions of at least €5 million or 10% of annual turnover.

At a macro level, AMLD4 clarifies the need for policies and procedures to mitigate AML and CTF risks at the EU, national and business level. It also calls on companies to report suspicious transactions.

At a more granular level, the directive extends customer due diligence, requiring firms using simplified due diligence to evidence why they have considered customer risk to be low enough to use this type of due diligence. It also extends the scope of Politically Exposed Persons (PEPs) to include domestic PEPs, who are defined as prominent public people in the EU.

To improve transparency, AMLD4 requires financial institutions to verify the identity of their customers and the beneficial owners of their customers, and make this information readily available to national authorities.

On a broader scale, member states must set up registers that record the ultimate beneficial owners of businesses. While AMLD4 initially made these registers accessible to national authorities, entities such as banks doing due diligence on customers, and others who can demonstrate legitimate interest in gaining access to the information, the European Commission's July 2016 proposal goes further, requiring member states to provide public access to beneficial ownership data.

## AMLD4 (cont.)

Similarly, AMLD4 has been amended to require national registers to be interconnected, allowing national authorities, financial intelligence units and obliged entities to identify beneficial owners easily and efficiently.

To achieve faster detection of suspicious money laundering and terrorist financing transactions, a further amendment requires member states to set up automated, centralised mechanisms that can quickly identify holders of bank and payment accounts. Member states' enhanced customer due diligence measures for high-risk countries will also be harmonised to remove the option of making transactions in jurisdictions with less stringent regulations. Reflecting the rise of cryptocurrencies, AMLD4 has been amended to bring virtual currency exchange platforms and custodian wallet providers into scope, and allow national authorities to better monitor currency transfers.

From a data management perspective, AMLD4 requirements around beneficial ownership information will stretch many financial institutions' current capabilities, while changes to customer due diligence and the definition of PEPs will require institutions to adjust existing data management processes.

### Dates for Diary

**January 1, 2017:**

Compliance deadline

### Key Links

**Proposal:**

[http://ec.europa.eu/justice/criminal/document/files/aml-directive\\_en.pdf](http://ec.europa.eu/justice/criminal/document/files/aml-directive_en.pdf)

**Summary:**

<http://eur-lex.europa.eu/legal-content/EN/LSU/?uri=CELEX:32015L0849>

**Text:**

<http://eur-lex.europa.eu/legal-content/EN/TXT/?uri=CELEX:32015L0849>

# Basel III

## At a Glance

**Regulation:** Basel III

**Regulatory Regime/**

**Authority:** BCBS and national supervisory authorities

**Target Market Segment:**

Global financial institutions

**Core Data**

**Requirements:**

Disclosure of capital adequacy, risk profile

## Description and Data Requirements

Basel III is a Basel Committee on Banking Supervision (BCBS) regulation that includes a comprehensive set of reforms designed to strengthen the supervision, stability and risk management of the banking sector. The reforms focus on market standards for capital adequacy, stress testing and liquidity risk with the aim of improving the ability of banks to absorb shocks arising from financial and economic stress, including mass withdrawals from bank reserves, and improve risk management, governance, transparency and disclosure.

Basel III continues the theme of previous regulations based on the initial Basel Accord. Like Basel II, it is based on three pillars covering capital requirements, risk management and disclosure, but it pushes up capital requirements, includes a minimum leverage ratio and introduces liquidity requirements.

The regulation focuses on common equity and requires financial institutions to meet a minimum capital requirement of 4.5% of risk-weighted assets, up from 2% in Basel II, and Tier 1 capital of 6% of risk-weighted assets, up from 4% in Basel II. Capital buffers are also introduced to ensure a 2.5% capital conservation threshold.

There is also a discretionary counter-cyclical buffer of up to 2.5% of common equity that can be imposed by authorities if credit growth causes an unacceptable build-up of systemic risk. The risk-based capital requirements are backed up by a minimum leverage ratio that is calculated by dividing Tier 1 capital by a bank's average total consolidated assets, but must be maintained above 3%.

Finally, the regulation introduces liquidity requirements, including a Liquidity Coverage Ratio (LCR), to make sure banks have sufficient liquid assets to cover cash outflows for 30 days. The LCR does this by ensuring that a bank has an adequate stock of unencumbered high-quality liquid assets that can be

Basel III alongside BCBS 144 and 248 requires banks to be able to measure and manage their liquidity across an intraday, 30 day and a one year horizon. SmartStream's TLM Cash and Liquidity Management solution delivers a view and the tools to actively manage a bank's liquidity as well as produce regulatory reports. Meanwhile, SmartStream's TLM SmartRecs facilitates the rapid onboarding of reconciliations to help institutions overcome the backlog of reconciliations resulting from regulatory initiatives.



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## Basel III (cont.)

### Significant Milestones

**December 16, 2010:** Basel III rules text published

**June 1, 2011:** Revised version of rules text published

**June 1, 2013:** Guidelines updated to include LCR

**January 1, 2014:** Revised NSFR put in place

**October 1, 2015:** Risk requirements take effect

**January 1, 2016:** LCR minimum requirements set at 80% and increase 10% a year to 100% in 2019

**January 1, 2016:** Capital conservation buffer introduced

converted into cash easily and immediately in private markets to meet its liquidity needs for a 30-day liquidity stress scenario.

A Net Stable Funding Ratio (NSFR) ensures provision of enough stable funding to cover a one-year period of continued financial stress by requiring banks to maintain a stable funding profile in relation to on- and off-balance sheet activities. This should reduce the likelihood that disruptions to a bank's regular sources of funding will erode its liquidity position in a way that could increase the risk of its failure and potentially lead to broader systemic stress.

One of the major data management challenges of Basel III is meeting guidelines on risk data aggregation and analysis. The regulatory mandate requires firms to collect and analyse more data than previously from their risk management systems, and to report information in a timely manner across all business units to present an holistic view of risk exposure.

Disclosure includes details of regulatory capital and its reconciliation to reported accounts, and comprehensive explanations of how banks calculate regulatory capital.

Basel III was introduced to address concerns raised by the 2008 credit crisis and requires banks to work towards the provision of complete and accurate data, as well as data that is readily accessible to facilitate a rapid response to any future market crises. Banks with business models based on data silos will have to overhaul data management infrastructure to optimise risk data aggregation and ensure they can present a comprehensive view of risk data for full compliance.

While Basel III was initially scheduled for introduction in early 2013, changes introduced in April 2013 pushed back full implementation until March 31, 2019. This may be some time away, but some authorities are already acting on the regulation's principles.

Bloomberg's HQLA solution offers a set of data points to assist clients in complying with Basel III's Liquidity Coverage Ratio LCR requirements and regulatory reporting (e.g., FR 2052a reporting in the U.S. and Common Reporting (COREP) in the EU). This solution includes the critical data fields needed to determine an appropriate level of HQLA (e.g. Level 1, 2A or 2B) in both the U.S. and E.U. This data, which firms can also leverage for calculating their standardized credit risk capital requirements, is available via Bloomberg's enterprise data feed, which supports both batch requests as well as bulk offerings. Our HQLA solution is scalable and can be customized to clients' specific needs.

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## Basel III (cont.)

For example, UK regulators have opted to take a stronger stance on LCR than Basel III by increasing the percentage of LCR required at certain time points. The UK's Prudential Regulation Authority (PRA) required firms to reach 80% of LCR from the introduction of the new regime in October 2015 running through 2016, compared to Basel III recommendations of 60% for the fourth quarter of 2015 and 70% through 2016. The PRA target rises to 90% in 2017, against 80% under Basel III, and both reach 100% in 2018.

Like the PRA in the UK, authorities in other jurisdictions are expected to expand on the regulation as they carry out their own implementations.

To ensure the regulation produces desired outcomes, BCBS is monitoring the impact of elements of Basel III, including the framework for more resilient banks, leverage ratio and disclosure requirements, the LCR and NSFR, on a sample of banks. This exercise is repeated semi-annually with end of June and end of December reporting dates. The monitoring workbook, accompanying instructions and a list of frequently asked questions are publicly available.

### Dates for Diary

**January 1, 2018:**

Leverage ratio becomes mandatory

**January 1, 2018:** NSFR ratio introduced

**March 31, 2019:** Full implementation

### Key Links

**Full Text:**

<http://www.bis.org/publ/bcbs189.pdf>

**Overview:**

<http://www.bis.org/bcbs/basel3/b3summarytable.pdf>

**LCR Text:**

<http://www.bis.org/publ/bcbs238.pdf>

**NSFR Text:**

<http://www.bis.org/bcbs/publ/d295.pdf>

**Leverage Ratio and Disclosure**

**Requirements:**

<http://www.bis.org/publ/bcbs270.pdf>

S&P Global Market Intelligence provides data, analytics, and qualitative and quantitative models to help banks comply with requirements related to credit and market risk on multi-asset classes, and gain a full and granular view of their exposures. We also offer CDS spreads and related proxies to calculate credit valuation adjustment (CVA) capital charge under the new Basel III framework, and provide a range of cross reference and classification services that can help uncover the links between securities, entities and company relationships.

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# BCBS 239

## At a Glance

**Regulation:** BCBS 239

**Regulatory Regime/  
Authority:** BCBS and  
national supervisory  
authorities

**Target Market Segment:**  
Global financial  
institutions

**Core Data  
Requirements:** Risk  
data aggregation and  
reporting

## Significant Milestones

**June, 2012:** Consultation  
paper released

**January 9, 2013:**  
Regulation published

**January 1, 2016:**  
Compliance deadline

## Description and Data Requirements

BCBS 239 is a regulation issued by the Basel Committee on Banking Supervision (BCBS) and is designed to improve risk data aggregation and reporting across financial markets. It is based on 14 principles that cover disciplines ranging from IT infrastructure to data governance and supervision, and came into force on January 1, 2016.

The principles are interdependent, designed to underpin accurate risk aggregation and reporting in normal times and times of crisis, and split into four sets.

The first set of principles covers data governance and IT architecture requirements necessary to risk data aggregation and reporting. The focus here is on top-down methodology and oversight by bank executives. The second set details effective risk data aggregation across a bank, outlining a framework for automated aggregation of complete, accurate and timely data that can support on-demand reporting.

The third set of principles aims to improve risk reporting, and with a push to establish clear and useful reports, it addresses the requirement for frequent and well distributed reports that can be tailored to business needs across departments. The fourth set requires supervisors, including regulatory authorities, to determine whether the principles are achieving desired outcomes and define any necessary corrective action.

BCBS 239 is a supplement of the capital adequacy requirements of Basel III, which consider whether firms have enough resources to monitor and cover risk exposure. Like Basel III, BCBS 239 has a significant effect on data management, requiring firms to improve risk data aggregation capabilities according to the principles and present accurate risk data for reporting.

Risk data must be captured across a bank, which means consistent data taxonomies need to be established, and the data needs to be stored in a way that makes it accessible and

TimeScope EDM+ offers standard EDM capabilities such as out-of-the-box data integration, validation, exception management workflow, audit trail and distribution. Dealing with the data aggregation and reporting requirements of BCBS 239, these same capabilities are extended to support any complexity of asset class or data type, including time series, indices, curves, surfaces, cubes and derived data from statistical and valuation models.

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## BCBS 239 (cont.)

easy to understand, even in times of financial crisis. While many banks adhered to some of the principles of BCBS 239 due to other regulatory obligations before the compliance deadline, most had work to do to ensure compliance with all the principles, particularly those covering data governance, risk data aggregation and reporting. As with other regulations, compliance can be eased by breaking down data silos and creating a single enterprise-wide view of risk.

While BCBS 239 was originally published in January 2013 with the intent that global systemically important banks (G-SIBs) should be compliant by the January 2016 deadline, many G-SIBs struggled with the automation of risk data aggregation and were not fully compliant when the regulation took effect. Instead, they were either materially compliant and able to show regulators a small subset of risk reports, or able to show substantive plans, a commitment to compliance and a timetable for completion.

Domestic systemically important banks (D-SIBs) will be advised, rather than required, by national supervisors to adhere to the principles of BCBS 239, although some are expected to act ahead of regulatory intervention, acknowledging the potential advantages of BCBS 239 compliance including better customer service, improved business decisions based on accurate and timely information, reduced operational costs and increased profitability.

## Key Links

### Full Text:

<http://www.bis.org/publ/bcbs239.pdf>

### Publications:

<http://www.bis.org/bcbs/publications.htm>

### Progress Report:

<http://www.bis.org/bcbs/publ/d308.pdf>

### A-Team Group

#### BCBS 239 Handbook:

<http://bit.ly/bcbs239handbook>

The Basel Committee on Banking Supervision 239 (BCBS 239) requires metadata as part of an integrated data taxonomy and architecture. Essential for processing data reliably and nimbly, metadata also helps lower risk by aiding the understanding and usage of the data. Bloomberg Ontology is a W3C OWL-based data model that provides complete, automatable metadata for Bloomberg Reference Data Services, fulfilling the BCBS 239 requirements for Bloomberg data.

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SmartStream's solutions manage transactions from trade inception through to settlement on a single platform. This supports a more efficient automated data aggregation model ensuring the accuracy and integrity of risk reporting. Meanwhile, SmartStream's TLM SmartRecs facilitates the rapid onboarding of reconciliations to help institutions ensure completeness and overcome the backlog of reconciliations resulting from regulatory initiatives.

  
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# Benchmarks Regulation

## At a Glance

**Regulation:** Benchmarks Regulation

**Regulatory Regime/  
Authority:** EU

**Target Market Sector:**  
Global financial institutions

**Core Data  
Requirements:** Index and benchmark data management, data governance

## Description and Data Requirements

Benchmarks Regulation, or Regulation on Indices used as Benchmarks in Financial Instruments and Financial Contracts or to Measure the Performance of Investment Funds, is an EU regulation that came into force in June 2016. It aims to make benchmarks more reliable and less open to manipulation by improving how they function and are governed.

Regulation of benchmarks was initially proposed by the European Commission in September 2013 following alleged manipulation by financial firms of benchmarks including the London Interbank Offered Rate (Libor), the Euro Interbank Offered Rate (Euribor) and other benchmarks such as those for foreign exchange and commodities.

## Significant Milestones

**September 18, 2013:**  
European Commission proposes regulation

**June 30, 2016:**  
Regulation comes into force

**August 13, 2016:**  
Implementing regulation comes into force

The June 2016 regulation was followed by a European Commission implementing regulation establishing a list of critical benchmarks used in financial markets. The implementing regulation came into force in August 2016 and allows supervisors to make use of certain provisions of the Benchmarks Regulation in advance of its application in January 2018.

Euribor was the first benchmark to be included in the list, which will be reviewed and updated by the European Commission on a regular basis and will include, in due course, other benchmarks that fulfil the criteria of critical benchmarks.

The provisions in the implementing regulation that can be used ahead of the 2018 Benchmarks Regulation compliance deadline ensure supervisors can allow the continuation of critical benchmarks where their cessation would have a severe adverse impact on market participants and undermine the integrity of markets.

In particular, classifying Euribor as a critical benchmark allows supervisors to request data contributions from banks if they deem it necessary to ensure the representativeness of the benchmark.

Benchmarks Regulation contributes to the accuracy and integrity of benchmarks by ensuring contributors to benchmarks are subject to authorisation and ongoing supervision.

It also improves the governance of benchmarks, for example providing provisions for the management of conflicts of interest, and requiring greater transparency of how a

## Benchmarks Regulation (cont.)

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benchmark is produced. Finally, the regulation will ensure appropriate supervision of critical benchmarks.

The regulation affects all firms using benchmark data, including banks, pension funds and insurance companies. These firms must access, store, manage and distribute growing volumes of index and benchmark data stemming from a diverse and increasing number of sources.

Firms that customise or create composite benchmarks will become benchmark administrators and will need to implement data governance policies to ensure they comply with the regulation, a task that will become onerous as these types of benchmarks are more widely adopted and create the need to manage increasing volumes of bespoke data.

### Dates for Diary

**January 1, 2018:**

Compliance deadline

### Key Links

**Text:**

<http://eur-lex.europa.eu/legal-content/EN/TXT/?uri=CELEX:32016R1011>

**FAQs:**

[http://europa.eu/rapid/press-release\\_MEMO-13-799\\_en.htm](http://europa.eu/rapid/press-release_MEMO-13-799_en.htm)

# Brexit

## At a Glance

**Issue:** Brexit

**Regulatory Regime/  
Authority:** UK  
Government

**Market Segment:**  
Financial institutions in  
the UK

## Significant Milestones

**June 23, 2016:**  
Referendum on EU  
membership

## Dates for Diary

**Early 2017:** UK  
Government expected to  
invoke Article 50

**2019:** Expected end of  
negotiations with the EU

## Key Links

**EU Referendum:**  
<https://www.gov.uk/government/topical-events/eu-referendum>

**Economic Impact:**  
<https://www.gov.uk/government/publications/hm-treasury-analysis-the-immediate-economic-impact-of-leaving-the-eu>

## Description

The UK referendum on membership of the EU took place on Thursday June 23, 2016. By Friday morning, it was clear that the campaign to leave the EU had won the vote and Brexit became a reality.

While there is no certainty on when and how the UK will exit the EU, there is certainty that EU financial regulations will endure until negotiations are complete either within or outside the two-year time window provided by Article 50 of the Lisbon Treaty. The UK Government is expected to send Article 50 to the European Council in early 2017, triggering the start of negotiations on the UK's new relationship with the EU.

The government could rebuild a unique relationship with the EU, or it could implement a bilateral model similar to those agreed between the EU and countries such as Canada, Switzerland and Norway. From a financial services perspective, the Canadian and Swiss options would not give financial institutions the same access to the single European market as they have now. The Norwegian model provides access to the single market through Norway's membership of the European Economic Area, but the country has to comply with EU regulations and has no say in how they are made.

Key EU regulations already in place include European Market Infrastructure Regulation (EMIR), the Alternative Investment Fund Management Directive (AIFMD), and Solvency II. Looking ahead, the Markets in Financial Instruments Directive II (MiFID II), which will transform trading and transparency across EU financial markets, is scheduled to take effect in January 2018.

While Brexit could release firms in the UK from the requirements of these regulations, the government is more likely to write equivalent regulations that, if approved by the EU, will allow financial institutions in the UK to continue trading in the single market.

The worst case would be EU withdrawal of access to the single market and the end of the financial passporting system. The best option in this situation would be to set up a trading business in an EU member country and trade from there.

Whatever the timing and outcome of Brexit, financial institutions across the UK are considering scenarios that could result from Brexit and putting together governance frameworks designed to help them manage events as they unfold.

## Description and Data Requirements

The Comprehensive Capital Analysis and Review (CCAR) is an annual exercise carried out by the Federal Reserve to assess whether the largest bank holding companies (BHCs) operating in the US have sufficient capital to continue operations throughout times of economic and financial stress, and have robust, forward-looking capital planning processes that account for their unique risks.

The Federal Reserve issued the CCAR capital plan rule in November 2011, requiring BHCs with consolidated assets of \$50 billion or more to submit annual capital plans for review. The regulation has since been expanded to cover BHCs with consolidated assets of \$10 billion or more and foreign banks with US operations exceeding \$50 billion in assets.

The Federal Reserve capital plan rule specifies four mandatory requirements that span both quantitative and qualitative factors. The first requirement is an assessment of the expected uses and sources of capital over a nine-month planning period. The assessment must include estimates of projected revenues, losses, reserves and pro forma capital levels and capital ratios over the planning period under baseline conditions, supervisory stress scenarios, and at least one stress scenario developed by the BHC and appropriate to its business model and portfolios.

Under this requirement, a BHC must also: show how it will maintain minimum regulatory capital ratios and a pro forma Tier 1 common ratio above 5% under expected conditions and stressed scenarios; show the results of stress tests required by law or regulation; provide an explanation of how the capital plan takes these results into account; and provide a description of all planned capital actions over the planning period.

The second requirement calls for a detailed description of a BHC's process for assessing capital adequacy, while the third requirement covers a BHC's capital policy, and the fourth requires a BHC to notify the regulator of any changes to its business plan that are likely to have a material impact on its capital adequacy or liquidity.

The Federal Reserve can object to a capital plan if it has either quantitative or qualitative concerns about the plan or underlying elements such as governance, internal controls, risk identification and management, management information systems, and assumptions and analysis that support the capital planning process.

### At a Glance

**Regulation:**

Comprehensive Capital and Analysis Review (CCAR)

**Regulatory Regime/  
Authority:** US Federal Reserve Board**Target Market Segment:**  
Large bank holding companies**Core Data****Requirements:** Financial, risk and reference data, data aggregation, reporting

### Significant Milestones

**March 18, 2011:** first CCAR conducted**November 22, 2011:** Federal Reserve issues final rule on capital plans

## CCAR (cont.)

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### Dates for Diary

**June 2017:** Federal Reserve releases results of CCAR 2017

### Key Links

**Overview:**

<http://www.federalreserve.gov/newsevents/press/bcreg/bcreg201110318a1.pdf>

**CCAR 2016:**

<http://www.federalreserve.gov/newsevents/press/bcreg/bcreg20160629a1.pdf>

From a data management perspective, CCAR requires data sourcing, analytics, risk identification, risk data management and risk data aggregation for stress tests designed to assess the capital adequacy of BHCs and for regulatory reporting purposes. Data must be accessed, validated and reconciled across a BHC, often requiring data to be managed across several siloed systems, to provide consistent and accurate data. Financial, risk and reference data must then be integrated to fulfil the regulation's annual reporting requirement.

The extent of data required for compliance and the Federal Reserve's focus on risk identification and its link to capital planning and scenario generation, as well as on enterprise risk management and data governance, call for a move away from siloed systems and investment in a robust and automated regulatory framework and a flexible reporting solution.

CCAR is complemented by Dodd-Frank Act stress testing (DFAST), a forward-looking exercise that is supervised by the Federal Reserve and designed to help assess whether institutions have sufficient capital to absorb losses and support operations during adverse economic conditions. CCAR and DFAST are distinct testing exercises, although they do rely on similar processes, data, supervisory exercises and requirements.

## Description and Data Requirements

Common Reporting (Corep) is a standardised reporting framework issued by the European Banking Authority (EBA) for reporting under the Capital Requirements Directive IV (CRD IV). The framework includes a number of templates to support the reporting of credit risk, market risk, operational risk, own funds and capital adequacy ratios.

The regulation has been adopted by most European countries and covers all banks, building societies and investment firms, essentially firms covered by the Prudential sourcebook for Banks, Building Societies and Investment Firms (Bipru). It requires these firms to make a substantial review of the quantity, quality and frequency of data disclosures they make as part of their regulatory reporting regimes.

For many institutions, Corep means altering processes, implementing management oversight of reports and reviewing reports for accuracy in a timely manner. The increased granularity of information required for reports increases the volume of data that must be managed, while reports must present an enterprise view of data, often requiring finance and risk functions to work together to provide consistent underlying data. Additionally, the quality and robustness of data may need to be enhanced to generate more frequent reports and firms must ensure their systems can support the XBRL taxonomy that is mandated by Corep for reporting.

Corep also introduces new schedules, such as Immovable Property Losses and Group Solvency, that firms may not be familiar with, so understanding these categories and definitions prior to reporting is crucial to ensure reports are filed correctly.

Corep was due to be implemented alongside CRD IV and the corresponding Capital Requirements Regulation in 2013, with firms within its scope submitting capital adequacy reports within 30 days of the end of each quarter. However, UK firms have only been using Corep for regulatory reporting since January 2014 and a few European countries have still to adopt the standardised reporting format.

### At a Glance

**Regulation:** Common Reporting (Corep)

**Regulatory Regime/ Authority:** EBA

**Target Market Segment:** European financial institutions

**Core Data**

**Requirements:** Risk and capital adequacy reporting

### Significant Milestones

**August 27, 2012:** Close of consultation period

**September 17, 2013:** Revision of final draft

**January 1, 2014:** UK starts Corep reporting

### Key Links

**Guidelines:**

<https://www.eba.europa.eu/regulation-and-policy/supervisory-reporting/guidelines-on-common-reporting-2011->

**Explanatory Notes:**

<https://www.eba.europa.eu/documents/10180/109739/Explanatory-notes.pdf>

**XBRL Taxonomy:**

<http://www.eba.europa.eu/documents/10180/502670/COREP+FINREP+XBRL+Taxonomy+v2.0.0.pdf>

# CRD IV

## At a Glance

**Regulation:** Capital Requirements Directive IV (CRD IV)

**Regulatory Regime:** EU

**Target Market Segment:** European banks

**Core Data Requirements:** Risk profile and disclosure of capital adequacy

## Significant Milestones

**January 1, 2014:**  
Effective data

**July-October 2015:**  
Public consultation

## Description and Data Requirements

Capital Requirements Directive IV (CRD IV) is the fourth version of a European Commission regulation that implements Basel III type standards covering market liquidity risk and bank capital adequacy across the EU.

The directive is divided into two parts: the Capital Requirements Regulation, which applies to all firms in the EU and includes most of the Basel III provisions in a single rulebook; and the Capital Requirements Directive, which is implemented by national law and includes provisions for transparency, governance and capital buffers.

CRD IV applies to investment firms and credit institutions within the scope of Markets in Financial Instruments Directive II (MiFID II) and focuses on improving the quality and quantity of their available capital. It builds on previous capital requirements directives, extending corporate governance and supervisory requirements, and adding sanctions for non-compliance.

It also introduces capital requirements based on risk-weighted assets (RWAs), capital buffers designed to protect firms from potential market upheaval, and liquidity and leverage requirements to ensure firms can meet cash outflows and handle stress testing scenarios. Reporting is standardised using Financial Reporting (Finrep) and Common Reporting (Corep).

Brokers, traders and asset managers that must comply with CRD IV face a number of data management challenges. From a reference data perspective, CRD IV requires extensive detail to support capital, liquidity and RWA calculations.

To meet the regulation's risk requirements, firms may need to break down data silos to improve risk data aggregation and gain a comprehensive view of their assets and exposures. As CRD IV transposes many Basel III requirements into EU law, firms also need an understanding of this latter regulation.

Bloomberg's Liquidity Assessment (LQA) approach combines unparalleled financial data with a market impact model and a machine learning engine melting together all relevant factors that can influence liquidity. Leveraging our LQA Methodology for the EBA's Regulatory Technical Standards for Prudent Valuation, we deliver on the main AVAs which are linked to reserves and reflect market derived parameters.

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## CRD IV (cont.)

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CRD IV came into effect on July 1, 2014 and from July to October 2015 was the subject of a public consultation set up by the European Commission to consider issues such as the effect of the regulation on the level of capital held by banks, whether the regulation's requirements are proportionate to the risks they address, and whether some of the requirements could be simplified without compromising their objective of ensuring the financial stability of banks. A summary of responses from the consultation was published by the European Commission in December 2015.

### Dates for Diary

**January 1, 2019:** Full implementation

### Key Links

**Full Texts:**

**Regulation** - <http://eur-lex.europa.eu/LexUriServ/LexUriServ.do?uri=OJ:L:2013:321:0006:0342:EN:PDF>

**Directive** - <http://eur-lex.europa.eu/legal-content/EN/TXT/?uri=CELEX:32013L0036>

**FAQs:**

[http://europa.eu/rapid/press-release\\_MEMO-13-690\\_en.htm?locale=en](http://europa.eu/rapid/press-release_MEMO-13-690_en.htm?locale=en)

# Dodd-Frank

## At a Glance

**Regulation:** Dodd-Frank Wall Street Reform and Consumer Protection Act

**Regulatory Regime/ Authority:** US Government

**Target Market Segment:** Global financial institutions

**Core Data Requirements:** Identification of issuers, clients and counterparties

## Significant Milestones

**December 2, 2009:** Dodd-Frank is introduced to Congress

**July 21, 2010:** Effective date

**July 16, 2015:** SEC statement on the fifth anniversary of the regulation

## Description and Data Requirements

The Dodd-Frank Wall Street Reform and Consumer Protection Act (Dodd-Frank) is a US government regulation that was introduced in 2010 in an attempt to prevent the recurrence of events that triggered the 2008 financial crisis. The regulation largely covers the swaps market, which was previously unregulated, and is designed to promote the financial stability of the US by improving accountability and transparency in the financial system, monitoring companies deemed 'too big to fail', and protecting taxpayers and consumers from abusive financial services practices.

The extent of the legislation is evidenced by the large number of rules it mandates, most of which have been implemented by the US Securities and Exchange Commission (SEC), along with additional reforms designed to strengthen the nation's financial infrastructure, improve transparency and reduce risk. The SEC is generally charged with regulating security-based swaps, with input from the US Commodity Futures Trading Commission (CFTC), and the CFTC is generally charged with regulating non-security-based swaps, with input from the SEC.

The introduction of such widespread reform raised significant data management challenges for many financial institutions. One major challenge is the requirement to aggregate, analyse and report on large volumes of disparate data from across the financial services industry. The aim of the analysis is to provide better oversight of systemic risk, but with it comes the need to develop data architecture that supports stress testing scenarios designed to promote effective risk management, and timely and accurate reporting.

To support implementation, Dodd-Frank includes guidelines on managing and analysing data from a variety of sources, as well as guidelines on reporting formats. It also introduces a focus on data standardisation across financial markets that is manifested by the inclusion of the Legal Entity Identifier (LEI), a global standard for unique entity identification that is required

The Depository Trust & Clearing Corporation (DTCC) offers a one-stop suite of data management solutions, ensuring the quality and completeness of entity information, ongoing maintenance and validation, and enrichment of transactions. The suite of solutions, including Clariant, Avox, Omgeo ALERT, CRDE service and the GMEI utility, allow clients to maintain accurate data and documents to improve operational efficiencies and risk management in client onboarding, KYC procedures, regulatory reporting and transaction processing.

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# Dodd-Frank (cont.)

## Dates for Diary

**Ongoing:** Full implementation – the SEC has completed 67 rule making provisions and has a further four to complete

by Dodd-Frank not only for reporting, but also as the basis for systemic risk oversight and improved transparency.

Adoption of the LEI has been relatively slow since its introduction in 2012, meaning firms must continue to use a variety of proprietary and data vendor identifiers to access data from different sources of entity data. This presents a significant cross-referencing challenge that will only decrease as adoption and use of the global LEI increases. Implementing the LEI can also be a challenge as data repositories may not be readily extensible and downstream systems that must use the LEI to assess risk and counterparty exposure may need investment to accommodate the identifier.

## Key Links

### Full Text:

<https://www.sec.gov/about/laws/wallstreetreform-cpa.pdf>

### CFTC Final Rules:

<http://www.cftc.gov/lawregulation/doddfrankact/dodd-frankfinalrules/index.htm>

### Guidance and Questions:

<http://www.cftc.gov/LawRegulation/DoddFrankAct/GuidanceQandA/index.htm>

Dodd-Frank Act stress testing (DFAST) is a forward-looking exercise that is supervised by the Federal Reserve Board and designed to help assess whether institutions have sufficient capital to absorb losses and support operations during adverse economic conditions.

DFAST is complementary to the Comprehensive Capital Analysis and Review (CCAR), an annual exercise carried out by the Federal Reserve to assess whether the largest bank holding companies operating in the US have sufficient capital to continue operations throughout times of economic and financial stress, and have robust, forward-looking capital planning processes that account for their unique risks. DFAST and CCAR are distinct tests, although they do rely on similar processes, data, supervisory exercises and requirements.

Bloomberg provides a range of solutions to help firms meet the execution, clearing and reporting requirements under Dodd-Frank, as well as the Volcker Rule Covered Funds ownership prohibition. Among the solutions available: Covered Funds Identification tool: Helps banks identify which of their structured products, covered bonds and exchange traded products are Covered Funds; Reference Data Services: LEI; Bloomberg Vault Trade Reconstruction: Fast retrieval and export of trade details correlated with relevant pre- and post-trade communications; Bloomberg SEF: Provides efficient access to swaps regulated under Dodd-Frank.

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A key requirement in the Dodd-Frank Act is the reconciliation of OTC derivatives. In response, SmartStream delivers pre-built reconciliations for TLM Reconciliations Premium and workflow management in TLM Trade Process Management for OTC Derivatives, which manages the trade and its process legs across the lifetime of the trade. TLM Collateral Management supports the evolving requirements arising from Dodd-Frank. All firms can benefit from its portfolio management, reconciliation, dispute workflow, reporting, limit and threshold monitoring, as well as its ability to classify counterparties and product types in order to manage the margining of cleared and bilateral transactions.

  
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# EMIR and EMIR II

## Description and Data Requirements

European Market Infrastructure Regulation (EMIR) is an EU regulation aimed at improving the transparency of over-the-counter (OTC) derivatives markets and reducing the risks associated with these markets.

To achieve this, EMIR requires OTC derivatives meeting certain requirements to be cleared using a central counterparty (CCP). The CCP must be listed in the European Securities and Markets Authority (ESMA) registry and authorised as described in EMIR so that it is recognised across member states. EMIR also introduces risk mitigation procedures for bilaterally cleared OTC derivatives and requires all derivatives transactions to be reported to a trade repository.

Under EMIR, both counterparties to a trade must ensure that data related to a concluded trade, as well as counterparty data related to the entities involved in the trade, is reported to a trade repository. Both OTC and exchange-traded derivatives must be reported, as well as lifecycle events such as give-ups and terminations. Firms have until the working day following the trade to meet reporting requirements, which presents challenges in ensuring the quality and accuracy of counterparty data, and its timely delivery.

Other reporting issues include the need for firms to conduct an analysis of all their counterparties so that they can fulfil the regulation's classification requirements. This raises data management concerns as firms should aim to maintain an accurate list of counterparties so that they can check their status and track any organisations that are exempt from regulation.

EMIR mandates the use of the Legal Entity Identifier (LEI) and the Unique Trade Identifier (UTI), which is common to both parties to a trade, for reporting to a trade repository. The combination of these identifiers in a complex reporting system

### At a Glance

**Regulation:** European Market Infrastructure Regulation (EMIR)

**Regulatory Regime/ Authority:** EU

**Target Market Segment:** Global financial institutions

**Core Data Requirements:** Client, counterparty and trade identification, reporting

### Significant Milestones

**August 16, 2012:** Effective date

**February 12, 2014:** First reporting deadline

**June 21, 2016:** First clearing deadline

**September 1, 2016:** First margin requirements deadline

As a seasoned standards practitioner, CGS is committed to promoting the LEI and propagates its use and global adoption through a collaboration with DTCC's GMEI utility, allowing CUSIP/ISIN and LEI applications through a single interface. On the solutions side, CGS' LEI Plus product, which is free to existing CGS clients, links the official LEI with a robust directory of legal entity data produced through an alliance with Avox.



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## EMIR and EMIR II (cont.)

### Dates for Diary

#### December 31, 2016:

ESMA to deliver guidelines on trade reporting including Unique Trade Identifiers and Unique Product Identifiers

#### February 11, 2017:

Backloading deadline for OTC contracts entered before August 16, 2012 or after August 16, 2012 and before February 12, 2014 reporting deadline

**2017-2019:** Additional clearing deadlines phased in

**2017-2020:** Additional margin requirements phased in

can be difficult to manage. For example, as the LEI is not yet widely adopted, it must be mapped to proprietary and vendor identifiers used in counterparty and client data systems. To ensure correct mapping, many firms are centralising entity data and creating an entity master that will accommodate the LEI alongside other entity identifiers and entity hierarchy data.

The UTI poses different problems as EMIR requires all trades to have a UTI, but provides no standard mechanism for generating and communicating the identifier. The result is that UTIs are based on agreements between trading parties. If agreements are not made, the parties have to deal with reconciliation breaks at the trade repository.

Overall, EMIR reporting includes more than 80 fields with data divided between two tables, one containing data about the trading entity and the other listing common information, such as contract details. This data must be reported on both sides of the trade.

EMIR came into effect on August 16, 2012, with a reporting deadline of February 12, 2014. In August 2014, the regulation introduced a requirement for financial counterparties and non-financial counterparties to provide daily reports on mark-to-market valuations of positions and on collateral value.

The first clearing obligations were introduced in June 2016 for interest rate swaps, with credit default swaps following in February 2017 and all clearing requirements scheduled to be in place by 2019. Large institutions were obligated to meet margin requirements for non-centrally cleared trades in September 2016, with other institutions being phased in to meet margin requirements by September 2020.

Since the introduction of EMIR, ESMA has approved and registered six trade repositories for derivatives processing: DTCC Derivatives Repository, UnaVista, KDPW, Regis-TR, CME TR and ICE Trade Vault Europe. During 2014 and early 2015,

EMIR poses the most challenging compliance requirements in world financial market history. Large fines for non-compliant transaction reporting have already set the tone for these new regulations. Compliance data from Euromoney TRADEDATA minimises the risk associated with non-compliant transaction reporting; allows middle and back offices to focus on other areas of business management and reduces the cost and impact of maintaining internal regulatory database siloes. For compliance, tick TRADEDATAP. Data you can rely on.


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# EMIR and EMIR II (cont.)

## Key Links

### Text Summary:

<http://eur-lex.europa.eu/legal-content/EN/LSU/?uri=CELEX:32012R0648>

### Q&A:

[https://www.esma.europa.eu/sites/default/files/library/2016-1176\\_qa\\_xix\\_emir.pdf](https://www.esma.europa.eu/sites/default/files/library/2016-1176_qa_xix_emir.pdf)

### Third-Country CCPs:

[https://www.esma.europa.eu/sites/default/files/library/third-country\\_ccps\\_recognised\\_under\\_emir.pdf](https://www.esma.europa.eu/sites/default/files/library/third-country_ccps_recognised_under_emir.pdf)

### Responses to Public Consultation:

<https://ec.europa.eu/eusurvey/publication/emir-revision-2015>

ESMA authorised 17 European CCPs to offer services in the EU in accordance with EMIR, and in 2015 added 11 third-country CCPs established in Australia, Hong Kong, Japan and Singapore to the list. In 2016, it added a further eight third-country CCPs in South Africa, Canada, Mexico, Switzerland, South Korea and the US.

In accordance with Article 85 of EMIR, the European Commission launched a review of the legislation in May 2015 that could result in EMIR II. The review started with a public consultation that ran from May 21 to August 13, 2015 and a public hearing on the review on May 29, 2015.

The purpose of these activities was to get feedback from stakeholders on their experiences of the implementation of EMIR and provide the European Commission with guidance to prepare a final report. The European Commission is expected to submit a final report to the European Parliament and Council, together with any appropriate proposals for change, in the third or fourth quarter of 2016.

To assist in complying with EMIR Bloomberg provides entity classification data through our Reference Data Services and independent derivatives valuation through BVAL Derivatives. In addition, Bloomberg's EMIR reporting solutions allow clients to seamlessly connect to trade repositories without the need for building or maintaining complex connectivity to multiple repositories.

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A key requirement for EMIR is the reconciliation of OTC derivatives. In response, SmartStream delivers pre-built reconciliations for TLM Reconciliations Premium and workflow management in TLM Trade Process Management for OTC Derivatives, which manages the trade and its process legs across the lifetime of the trade. TLM Collateral Management supports the evolving requirements arising from EMIR. All firms can benefit from its portfolio management, reconciliation, dispute workflow, reporting, limit and threshold monitoring, as well as its ability to classify counterparties and product types in order to manage the margining of cleared and bilateral transactions.

  
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# FATCA and GATCA

## Description and Data Requirements

The Foreign Account Tax Compliance Act (FATCA) is a US Government regulation that requires foreign financial institutions (FFIs) with US clients to carry the burden of tax reporting for those clients to the US Internal Revenue Service (IRS). FFIs must enter contracts with the IRS and obtain Global Intermediary Identification Numbers (GIINs) through the IRS registration portal. GIIN numbers are used to identify financial entities, counterparties and issuers that are FATCA compliant. FFIs interacting with counterparties that do not have a GIIN, and are therefore not FATCA compliant, can be penalised.

To enforce FATCA regulation, the US Government makes Intergovernmental Agreements (IGAs) with governments in other countries. So far, it has signed 76 Model 1 agreements, which require FFIs to report all FATCA information to their own governmental agencies that then report to the IRS, and eight Model 2 agreements, which require FFIs to report directly to the IRS. Several more countries that have negotiated IGAs, but not yet finalised them, are being treated as having an IGA in place following additional guidance set down by the IRS in April 2014.

FFIs could register with the IRS and gain a GIIN after the official opening of the registration portal on January 1, 2014. The first list of registered FFIs was published on June 2, 2014 and updated monthly thereafter. Withholding tax of 30% on US source income, such as dividends, interest and insurance premiums, was introduced as the regulation became effective on July 1, 2014.

For many firms, FATCA compliance is not an easy task and requires significant investment in data management. FFIs must classify clients using US indicia and determine any Specified US Persons that need to be identified as US tax payers.

As the regulation calls for sensitive client data, such as tax, residency, citizenship and account status information, to be

### At a Glance

**Regulation:** Foreign Account Tax Compliance Act (FATCA)

**Regulatory Regime/ Authority:** US Government

**Target Market Segment:** Global financial institutions

**Core Data Requirements:** Client identification, data maintenance, reporting

### Significant Milestones

**March 18, 2010:** Enacted as part of the US Hiring Incentives to Restore Employment Act

**July 1, 2014:** Effective date

**December 31, 2014:** Compliance deadline

**March 31, 2015:** First reporting deadline

The Bloomberg FATCA withholding solution offers a streamlined approach for FFIs. Drawing on our unparalleled data resources – including industry-standard terms and conditions, corporate actions and entity data – the solution provides FATCA-specific, security-level details to help FFIs identify U.S. sourced FDAP income, grandfathered obligations, and material modifications. In addition we provide asset-level withholding eligibility status and an entity level participant identification (GIIN). Consolidating this data in one solution helps firms identify affected instruments quickly and accurately.

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# FATCA and GATCA (cont.)

## Dates for Diary

**March 31, 2017:** Next reporting deadline for FFIs in Model 2 IGA jurisdictions

**September 30, 2017:** Next reporting deadline for FFIs in Model 1 IGA jurisdictions

**January 1, 2019:** 30% withholding tax on sale after December 31st, 2018 of property producing US source income

gathered, the data management requirements of compliance include client onboarding, maintaining client data over time and supplementing existing data for reporting. These requirements are best met by integrating FATCA applications with Know Your Customer (KYC), client onboarding and tax systems.

From a data management perspective, dealing with complexities such as grandfathered obligations and material modifications adds to the burden. Grandfathered obligations, essentially obligations that were outstanding on June 30, 2014, are exempt from withholding, but material modifications may mean these obligations lose their exempt status. The data management problem is understanding what constitutes a material modification. While the IRS offers a list of material modifications, it is far from exhaustive and banks must review changes and consider what counts as a material modification.

## Key Links

### Overview:

[https://www.irs.gov/businesses/corporations/foreign-account-tax-compliance-act-fatca?\\_ga=1.6517492.797144261.1474889109](https://www.irs.gov/businesses/corporations/foreign-account-tax-compliance-act-fatca?_ga=1.6517492.797144261.1474889109)

### Guidance for FFIs:

[https://www.irs.gov/businesses/corporations/fatca-regulations-and-other-guidance?\\_ga=1.206869845.797144261.1474889109](https://www.irs.gov/businesses/corporations/fatca-regulations-and-other-guidance?_ga=1.206869845.797144261.1474889109)

### FAQs:

[https://www.irs.gov/businesses/corporations/fatcafaqs?\\_ga=1.23713927.0.797144261.1474889109](https://www.irs.gov/businesses/corporations/fatcafaqs?_ga=1.23713927.0.797144261.1474889109)

## GATCA

While most firms within the scope of FATCA are now compliant, they face the prospect of a global equivalent of the regulation, referred to as GATCA or Global FATCA. GATCA is based on the Convention on Mutual Administrative Assistance in Tax Matters developed in 1988 by the Organisation for Economic Co-operation and Development (OECD).

GATCA uses a model agreement similar to the FATCA Model 1 IGA and the OECD's Common Reporting Standard for the automatic exchange of tax information between countries.

All G20 countries, most OECD countries and a growing number of developing countries have signed the convention, with many planning to start the exchange of information by September 2017 and the remainder following by September 2018. Unlike FATCA, GATCA does not impose withholding tax on financial institutions that fail to comply, but it does add to the data management challenge already presented by FATCA.

SmartStream's TLM Corporate Actions facilitates a financial institution's reporting tax obligations of global income received from corporate actions by US persons.



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*\* Source: 2013 survey of 1,217 respondents across a range of industries, functional areas and company sizes, by Content Marketing Institute, MarketingProfs and Brightcove.*

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## Description and Data Requirements

FIDLEG, or the Swiss Financial Services Act, is a Swiss Government regulation designed to reshape the regulatory framework governing Swiss financial markets. It covers all types of financial services provided by both regulated and unregulated entities. It also applies to all types of clients and provides investor protection for clients including retail, professional and institutional clients.

The regulation is similar in scope and requirements, particularly around transparency, to the EU's Markets in Financial Instruments Directive II (MiFID II) and will allow Switzerland, a third-country regime in the EU regulatory framework, to continue to access EU financial markets.

Like MiFID II, FIDLEG is based on a comprehensive set of rules of conduct, including a duty to provide information to clients and ensure services and products offered are suitable for them, and an obligation to ensure best execution. To back up the rules, the regulation includes extensive information, documentation and reporting duties.

Information that financial services providers must disclose includes their identity and regulatory status, the services and financial instruments they offer, how they custody financial instruments, and the risks and costs associated with their services, instruments and custody. They must also ensure that clients have access to the Ombudsman in case of disputes.

Documentation duties require financial services providers to document in writing services they agree to provide and the information they collect on a client, any information and warning they give a client under suitability and appropriateness rules, services provided to a client, the needs of a client, and reasons for any recommendation to acquire or sell a financial instrument. There are also new rules on prospectus content and approval inspired by the EU Prospectus Directive.

Organisational obligations require financial services firms to have appropriate organisation and ensure that their employees and any third parties they instruct have appropriate qualifications, knowledge and experience.

Over and above the rules of conduct, financial services providers must handle client orders in good faith and ensure they provide best execution, taking into account financial terms, speed and qualitative factors. To support best

### At a Glance

**Regulation:** FIDLEG (Financial Services Act)

**Regulatory Regime/ Authority:** Swiss Government

**Target Market Segment:** Financial institutions

**Core Data Requirement:** Data aggregation, distribution, reporting

### Significant Milestones

**February 18, 2013:** Federal Department of Finance publishes proposal on FIDLEG

**Q2 2014:** Consultation opens

**October 15, 2014:** Consultation closes

**November 4, 2015:** Federal Council adopts dispatch on FIDLEG, bill ready for parliamentary deliberation

## FIDLEG (cont.)

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### Diary Dates

**Q3/4 2016:** Expected adoption in Swiss Parliament

**January 2018:** Expected effective date

execution, firms are required to implement internal policies on how to execute client orders.

FIDLEG also tackles conflicts of interest, particularly conflicts arising out of distribution fees or any other types of retrocessions, which are dealt with under the regulation's organisational measures and disclosures.

### Key Links

**Proposal:**

<http://www.news.admin.ch/NSBSubscriber/message/attachments/31593.pdf>

Penalties for non-compliance include criminal provisions for breaches of law in connection with prospectuses and basic information documents, illegal offerings of financial instruments, and breaches of the conduct rules.

## Description and Data Requirements

Financial Reporting (Finrep) forms part of the European Banking Authority's (EBA) supervisory reporting framework and provides a standardised EU-wide framework for reporting financial accounting data. The framework includes several templates, which set out how firms should report data from income statements and balance sheets, and divides the templates into four groups. The groups cover data that must be reported on a quarterly, quarterly with a threshold, semi-annual or annual basis.

In total, Finrep includes more than 50 templates and 6,500 data fields that must be populated with core and non-core quantitative financial data. The data management challenges for firms that must comply with the regulation include sourcing and processing more granular reporting data than has previously been required for reports mandated by local regulators, and reporting more frequently.

Under the regulation, firms must be able to show the workings that lead to final capital positions. They must also consider the dimensions of data. For example, some credit risk returns need to be divided according to geographic areas, counterparties and the like to provide a clear picture of a firm's activities in Finrep reports. In response to this, firms need to conduct a thorough gap analysis, assessing what data is required and how it can be accessed. They also need systems that can convert the data into the XBRL reporting format required by Finrep, a focus on data governance and the oversight that regulators increasingly demand as part of compliance.

Finrep, like Common Reporting (Corep), was introduced in 2014 as part of the Capital Requirements Directive IV (CRD IV), which aims to harmonise reporting across the EU. Finrep provides financial reporting and Corep capital reporting, although Corep is broader than Finrep covering both entity-by-entity and consolidated reporting, while Finrep applies only at the consolidated group level of credit institutions. Despite this, firms in the scope of the regulation must manage a larger reporting burden than in the past and report more frequently.

### At a Glance

**Regulation:** Financial Reporting (Finrep)

**Regulatory Regime/ Authority:** EBA

**Target Market Segment:** European financial institutions

**Core Data Requirements:** Management of financial accounting data, reporting

### Significant Milestones

**July 26, 2013:** Final draft of requirements published

**July 1, 2014:** Effective date

### Dates for Diary

December 31, 2016:  
Quarterly reporting date

### Key Links

**Guidelines:**  
<http://www.eba.europa.eu/regulation-and-policy/supervisory-reporting>

**Taxonomy:**  
<http://www.eba.europa.eu/documents/10180/502670/COREP+FINREP+XBRL+Taxonomy+v2.0.0.pdf>

# FRTB

## At a Glance

**Regulation:** Fundamental Review of the Trading Book (FRTB)

**Regulatory Regime/  
Authority:** BCBS

**Target Market Segment:** Financial institutions

**Core Data Requirements:** Market risk and capital requirement calculations, reporting

## Significant Milestones

**May 2012:** First consultation paper

**October 2013:** Second consultation paper

**December 2014:** Third consultation paper

**January 15, 2016:** Final text published

## Description and Data Requirements

The Basel Committee on Banking Supervision introduced the Fundamental Review of the Trading Book (FRTB) in a May 2012 consultation paper that set out a revised market risk framework and proposals to improve trading book capital requirements. The final FRTB paper was released on January 15, 2016, replacing existing capital requirements for market risk and suggesting a compliance deadline of 2019.

The regulation is a response to the 2008 financial crisis, which exposed fundamental weaknesses in the overall design of the trading book regime, and focuses on a revised internal models approach to market risk and capital requirements, a revised standardised approach, a shift from value at risk to an expected shortfall measure of risk, incorporation of the risk of market illiquidity, and reduced scope for arbitrage between regulatory banking and trading books.

The revised internal models approach introduces a more rigorous model approval process that enables regulators to remove internal modelling permission from individual trading desks and move them back to the standardised approach. The regulation also requires more consistent identification and capitalisation of material risk factors across banks, and adds more constraints to the capital reducing effects of hedging and diversification. There will also be a separate charge for non-modellable risk factors.

FRTB overhauls the standardised approach that will be used for banks that want a simple and straightforward model and is also the fallback for banks that do not get regulatory approval for internal models. The major change to the standardised approach is that it is based on risk sensitivities across asset classes. This should provide a consistent way to measure risk across geographies and regions, and allow regulators to compare risk and aggregate systemic risk.

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## FRTB (cont.)

The replacement of value at risk with an expected shortfall measure of risk is expected to improve the capture of tail risk, essentially the risk of unforeseen events not factored into a bank's model, and understanding of capital adequacy during periods of significant market stress.

The risk of market illiquidity is managed by incorporating varying liquidity horizons in the revised models. These replace the static 10-day horizon assumed for all traded instruments under value at risk in the current market risk framework and are designed to mitigate the risk of a sudden and severe impairment of market liquidity across asset markets.

To reduce arbitrage of regulatory capital between the banking book and the trading book, FRTB imposes a revised boundary between the books. There are also capital disincentives for transfers. Coupled with strict reporting guidelines and regulatory oversight, the regulation should provide a strong framework to govern the boundary between the two books.

While the compliance deadline of FRTB is a few years away, banks need to consider the data management challenges posed by the regulation and begin to review internal systems and controls to ensure they meet the requirements on time.

**Dates for Diary****January 2019:**

Compliance deadline

**Key Links****Text:**<https://www.bis.org/bcbs/publ/d352.pdf>

The FRTB framework addresses the shortcomings of the current Basel III market risk capital rules by redefining the trading / banking book boundary as well as introducing changes to better align the standardized and modelled approaches. E.g. banks have to evidence that there are sufficient 'real price' observations per risk factor to avoid a non modellable risk factor (NMRF) and the associated capital penalty. Bloomberg are helping banks demonstrate the existence of the required quantity and frequency of 'transactions' or 'committed quotes' to avoid NMRFs.

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TimeScope EDM+ addresses the broad data management challenges posed by FRTB. Those challenges relate to every stage of the data management process; from data acquisition & derivation to support P&L attribution and back-testing, validation and cleansing to ensure data accuracy, time series data storage for stressed market calibration, aggregation of data sources to meet criteria for modellability, through to data visualisation for management information dashboards.

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# GDPR

## At a Glance

**Regulation:** General Data Protection Regulation (GDPR)

**Regulatory Regime/  
Authority:** EU

**Target Market Segment:**  
Financial institutions

**Core data requirements:**  
Data privacy policies and processes, managing personal data

## Significant Milestones

**January 25, 2012:**  
European Commission proposes updated data protection regulation

**December 15, 2015:**  
European Parliament and Council of the EU agree final text

**April 8, 2016:** GDPR adopted by Council of the EU

**April 14, 2016:** GDPR adopted by European Parliament

## Description and Data Requirements

General Data Protection Regulation (GDPR) is an EU regulation replacing Data Protection Directive 95/46/EC that was established in 1995. The regulation is designed to harmonise data privacy laws across Europe, protect EU citizens' data privacy and reshape the way organisations across the region approach data privacy.

While GDPR sustains the key principles of data privacy established by the 1995 directive, it extends many of these and clarifies ambiguous territorial applicability set down in the 1995 directive by stating that the regulation applies to all companies processing personal data of data subjects residing in the EU regardless of company location. This means both EU and non-EU based companies processing personal data of data subjects in the EU must comply with the regulation. Organisations located outside the EU must also comply if they offer goods or services to EU data subjects.

The regulation extends data protection requirements to include not only controllers that are within the scope of the 1995 directive and determine the purposes, conditions and means of processing personal data, but also processors that process personal data on behalf of controllers.

GDPR does not make distinctions between industries and sectors, but its extensive demands will have a major impact on the financial services sector and require financial firms to reconsider how they build data management systems and manage personal data. Those that do this well and take a proactive approach to compliance should benefit from improved customer communication, strategic data management and a higher level of trust in the market. For those that breach compliance, the stakes are high – reputational damage and fines of up to 4% of annual turnover or €20 million.

The challenges presented by GDPR include gaining consent to process personal data, building data privacy by design, notifying authorities and individuals of data breaches, ensuring data portability, and giving individuals the right to have data deleted provided there are no legitimate grounds for keeping it. Financial institutions processing large volumes of sensitive data may need to appoint a data protection officer and will have to carry out privacy impact assessments to identify risks, minimise potential data breaches and implement data protection strategy.

## GDPR (cont.)

While financial firms subject to the 1995 directive already have data protection policies and practices in place, it is the detail of GDPR that adds complexity and must be addressed to achieve compliance. For example, general contractual terms will no longer be sufficient to provide proof of consent from individuals to process personal data. Instead, consent must be unambiguous, freely given, informed and refer explicitly to each processing purpose. Consent for processing sensitive data held by banks and financial institutions must be explicit. The data management requirement here is to consider how customer data is collected, managed and shared with third parties, and develop appropriate consent management policies.

Financial institutions must also respond to the regulation's enhanced rights for individuals to access, transfer and delete data by amending privacy policies and procedures, and the way in which they manage data access requests. The data privacy by design element requires financial institutions to promote privacy and data protection compliance in new system builds.

GDPR introduces stronger enforcement action if data protection rules are breached, including fines of up to 4% of turnover as mentioned above, and unifies enforcement across the EU with each national supervisory authority authorised to take action. Data breaches at financial institutions that are likely to cause significant damage to customers must be reported to the Data Protection Authority within 72 hours and customers must be notified without undue delay.

GDPR has been some years in the making, but was finally approved by the European Parliament on April 14, 2016. It will take effect in all member states on 25 May 2018, giving financial institutions a window of less than two years to achieve compliance and avoid the heavy fines of non-compliance.

### Dates for Diary

**May 25, 2018:**

Compliance deadline

### Key Links

**Text:**

[http://ec.europa.eu/justice/data-protection/reform/files/regulation\\_oj\\_en.pdf](http://ec.europa.eu/justice/data-protection/reform/files/regulation_oj_en.pdf)

**Summary:**

<http://www.eugdpr.org/article-summaries.html>

**FAQs:**

<http://www.eugdpr.org/gdpr-faqs.html>

# IFRS

## At a Glance

**Regulation:** International Financial Reporting Standards (IFRS)

**Regulatory Regime/  
Authority:** IASB

**Target Market Segment:**  
Global financial institutions

**Core Data Requirements:**  
Management of financial statements, reporting

## Significant Milestones

**January 1, 2013:** IFRS 13 takes effect

## Description and Data Requirements

The International Financial Reporting Standards (IFRS) are a set of global standards issued by the International Accounting Standards Board (IASB) and designed to support transparency, accountability and efficiency across financial markets.

IFRS comprises 15 published standards, IFRS 1 to IFRS 15, that set out obligations firms must fulfil when issuing financial statements. The obligations cover many aspects of financial reporting including how firms should present cash flows, liabilities, assets, expenses and so on.

The IFRS standards were devised to simplify the reporting process by providing a common set of rules and guidelines for generating reports that can be compared across institutions or with past performance to assess financial strength.

While all IFRS requirements have an impact on the way firms prepare their financial reports, two standards in particular have significant data management implications for financial institutions.

IFRS 9 includes requirements covering the measurement, classification, declassification and hedge accounting of financial assets and liabilities. These requirements can cause a sizeable workload as firms may need to perform impact analysis to identify any changes and adjust accounts accordingly. Using risk data from existing systems can help reduce the burden, as the data can be applied to particular IFRS 9 models, such as the expected loss model for impairment, and support disclosure calculations, saving both time and resources.

IFRS 13 focuses on the definition of 'fair value' and includes guidelines on how firms should conduct valuations, determine fair value and submit corresponding reports. Fair value is defined by IFRS 13 as the exit price, essentially the price that would be received if selling an asset or paid to transfer a liability between market participants on the measurement

Bloomberg's IFRS 9 SPPI Test solution assists clients in performing the contractual cash flows test required by IFRS 9's updated classification and measurement model. This solution automates the process of manually reviewing individual security prospectuses and legal documents by reviewing over 70 unique security attributes for each financial instrument and identifying potentially non-SPPI features or cash flows.

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# IFRS (cont.)

date. Firms need a clear understanding of this market-based measurement to ensure they gather the correct data for accurate reporting and disclosure.

With over 140 jurisdictions requiring IFRS to be used by all or most domestic financial institutions and listed companies, most firms are already compliant, but there are some jurisdictions, most significantly the US, that have yet to implement the standards despite regulatory efforts encouraging universal acceptance. The US, which favours the US GAAP reporting standard, is one of only a handful of jurisdictions that do not require or permit the use of IFRS.

## Dates for Diary

**January 1, 2018:**  
IFRS 9 takes effect

## Key Links

### Guide to IFRS Standards:

<http://www.ifrs.org/Use-around-the-world/Documents/2016-pocket-guide.pdf>

### IFRS 9 Summary:

<http://www.ifrs.org/current-projects/iasb-projects/financial-instruments-a-replacement-of-ias-39-financial-instruments-recognition/Pages/financial-instruments-replacement-of-ias-39.aspx>

### IFRS 13 Summary:

<http://www.ifrs.org/IFRSs/Documents/IFRS13en.pdf>

Bloomberg's objective and defensible evaluated pricing service, BVAL, offers Regulatory Transparency Fields that provide the underlying market data used in our pricing models. In addition, Bloomberg's Fair Value Leveling tool (FVHL) assists BVAL clients with the leveling requirements under ASC 820 and IFRS 13, enabling users to customize and store their own rules to determine fair value leveling results, either 1, 2 or 3, at a certain point in time, while aligning with BVAL's high quality price.

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## KYC

**At a Glance****Regulation:** Know Your Customer (KYC)**Regulatory Regime/  
Authority:** Multiple**Target Market Segment:**  
Global financial institutions**Core Data****Requirements:** Client identification and classification, ongoing customer data due diligence**Significant Milestones****October 26, 2001:** US Patriot Act signed into law**Description and Data Requirements**

Know Your Customer (KYC) refers to the process companies must go through to identify and understand clients before conducting financial business with them. It also requires the process to be revisited frequently to ensure information is up to date, complete and correct throughout the lifecycle of a client.

From a regulatory perspective, KYC is an essential element of due diligence and financial regulatory legislation such as anti-money laundering (AML) and countering the financing of terrorism. The process is also part of client onboarding and screening client information against sanctions, politically exposed persons (PEPs) lists and other watch lists.

KYC is not a single regulation, but the term used to describe regulatory requirements around client due diligence that are made and enforced in different countries with different legislative regimes. For example, in the US, the Patriot Act has made KYC mandatory for all banks since 2001. In the UK, the AML regime including KYC is set out in the Proceeds of Crime Act 2002, the Money Laundering Regulations 2007 and the Terrorism Act 2000.

As financial crime and fraud – particularly identity theft and concern about the financing of terrorism – have escalated over recent years, so too has the need for financial institutions to improve KYC processes and ensure compliance with local AML and counter-terrorism regulation.

Bloomberg's Reference Data Services provides the critical data firms need to meet the Know Your Customer due diligence requirements under the Anti-Money Laundering regulations. Among the products we offer are LEI, Regulatory/Compliance Back Office file, Corporate Structures and Corporate Actions.

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## KYC (cont.)

### Key Links

#### US Patriot Act:

<http://www.gpo.gov/fdsys/pkg/PLAW-107publ56/html/PLAW-107publ56.htm>

#### UK Proceeds of Crime Act:

<http://www.legislation.gov.uk/ukpga/2002/29/contents>

#### UK Money Laundering Regulations:

<http://www.legislation.gov.uk/uksi/2007/2157/introduction/made>

#### UK Terrorism Act:

<http://www.legislation.gov.uk/ukpga/2000/11/contents>

#### A-Team Group Entity Data Handbook:

<http://bit.ly/EntityDataHandbook>

KYC presents financial institutions with significant data management challenges, but also opportunities such as standardisation of customer information across an organisation, consistency in the quality of client records, improved customer service and the ability to accelerate client onboarding. It can also deliver significant cost savings through data standardisation, the ability to generate and manage one view of a customer across an organisation, and the efficient management of KYC documentation for purposes such as client onboarding.

The data management process requires banks to gather information from clients, often using paper documents, and then identify and correctly classify the clients according to their circumstances, including country of origin, business type, source of assets and income, types and purpose of transactions, and amount of funds. This information needs to be kept up to date and must be submitted to regulators on a frequent basis, meaning banks need to continually reassess their KYC procedures and increase the automation of their processes.

In many cases, due to the complexity of KYC, firms need to do more than keep a central repository of entity data and track audit trails. They may need to link KYC to customer data due diligence, enhanced due diligence and entity hierarchy data to gain an understanding of clients' relationships with other entities and ensure compliance and effective risk management.

In an increasingly hostile environment, client screening is an important part of KYC. It requires client data to be checked against financial sanctions, trade embargoes, PEPs and other watch lists to detect whether an order has been made to prohibit clients from carrying out particular transactions.

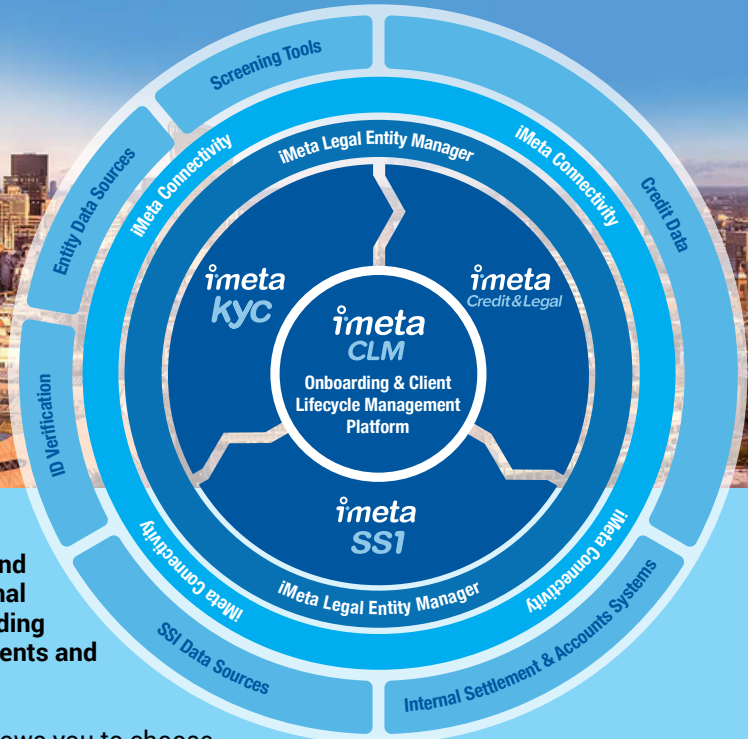
KYC also plays a role in client onboarding, a process that was traditionally manual and suboptimal for both clients and banks, but which is now being automated. Regulation is a driver here, along with tough competition to win clients and sustain their loyalty. These factors are leading financial institutions to

iMeta's end-to-end onboarding and Client Lifecycle Management platform, iMeta CLM, enables financial organisations to automate and manage the complex regulatory and operational data required to transact with customers. With a highly flexible data model, workflow and business rules engine that can be configured in-house, the system is able to comply with existing KYC and recent regulatory demands such as MiFID II, DFA, and EMIR etc. By implementing iMeta CLM, firms will realise greater efficiencies, save time, reduce costs and improve customer relationships.



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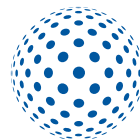
This flexible platform allows you to choose and capitalise on the particular elements that solve your business needs.

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## KYC (cont.)

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readdress their onboarding and offboarding processes, and adopt automated technology solutions that can deliver business benefits as well as compliance.

Considering the extent of KYC and client onboarding, the sheer volume of documentation and data that banks must manage on an ongoing basis is daunting. But solutions are available, including managed services that build and maintain client records on behalf of financial institutions, and shared services, or utilities, that use a one-to-many model to gather, validate and update client data once for the benefit of numerous institutions that are subscribers to the service. Machine learning solutions that automate data collection for onboarding and KYC compliance are emerging.

Beyond compliance requirements, a further consideration is how KYC and client onboarding can be integrated with account and settlement data. If an holistic approach is taken to onboarding a client and managing the client's account and settlement data, firms can move quickly from initiating clients to trade readiness.

While KYC requirements vary between countries depending on specific legislation, regulation and policy, most countries with AML concerns have had KYC rules in place since the early 2000s, although it is only in recent years that regulators have clamped down and issued significant fines for non-compliance, prompting major financial institutions to rethink their KYC processes and get them up to speed.

As well as addressing local AML requirements, improvements in KYC processes can help firms comply with international regulations such as Dodd-Frank and the US Foreign Account Tax Compliance Act (FATCA). KYC compliance is also central to Markets in Financial Instruments Directive II (MiFID II).

Clariant Global LLC (Clariant) is a DTCC company founded with BNY Mellon, Barclays, Credit Suisse, Goldman Sachs, JPMorgan Chase and State Street. Clariant provides a centralized entity data and document utility, Clariant Entity Hub, to address global financial market participants' needs for greater control, transparency, and cost reduction in response to evolving risk management and regulatory requirements, including Know Your Customer (KYC), Foreign Account Tax Compliance Act (FATCA), European Market Infrastructure Regulation (EMIR), and Dodd-Frank.



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## Client Data and Onboarding, **SIMPLIFIED.**

Clariant Entity Hub is the industry-led solution that enables parties to standardize the collection and distribution of legal entity information required for KYC, AML, FATCA, Dodd-Frank, and EMIR regulations. Working with six leading banks, the utility leverages DTCC's growing suite of reference data assets – including Avox and Omgeo ALERT – to deliver an integrated, comprehensive client data management and onboarding solution.

Market participants can now achieve greater control, transparency and standardization during the client onboarding process and throughout ongoing client lifecycle events.



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# MAR and MAD

## At a Glance

**Regulation:** Market Abuse Regulation (MAR) and Directive on Criminal Sanctions for Market Abuse (or MAD)

**Regulatory Regime/ Authority:** EU

**Target Market Segment:** Global financial institutions

**Core Data Requirements:** Data transparency to detect and prevent market abuse

## Significant Milestones

**July 1, 2005:** MAD implemented

**December 12, 2012:** MAR text approved by European Council

**September 10, 2013:** MAR endorsed by European Parliament

**July 2, 2014:** Effective date

**July 3, 2016:** Compliance deadline

## Description and Data Requirements

Market Abuse Regulation (MAR) strengthens EU rules on market integrity and investor protection that were first adopted in the 2003 Market Abuse Directive (MAD).

The regulation aims to challenge insider dealing and market manipulation in Europe's financial markets and is part of an updated EU rulebook that also includes the Directive on Criminal Sanctions for Market Abuse (also known as Market Abuse Directive, or MAD). MAR has been applicable since July 3, 2016.

Many of the provisions in MAR are the same as those in the initial MAD directive, but the regulation extends the scope of previous rules to include new trading platforms and technologies, and commodity and related derivatives markets. It also bans the manipulation of benchmarks and reinforces the investigative and sanctioning powers of regulators.

Where MAD applied to financial instruments admitted to trading on an EU regulated market, MAR includes instruments traded on a multilateral trading facility (MTF) or organised trading facility (OTF). Market manipulation is extended to cover any behaviour, not just transactions and orders to trade, that may give a false or misleading signal, while the regulation also adds attempted market manipulation in the sense of trying to manipulate the market without trading.

Market manipulation provisions are extended to instruments with values related to traded instruments and to spot commodity contracts related to financial or derivatives markets.

MAR expands the definition of insider dealing, which MAD described as non-public information likely to have a serious impact on an instrument's price, to include information that a reasonable investor is likely to use as the basis for investment decisions.

In terms of extended coverage, MAR includes benchmarks and emission allowances, as well as algorithmic and high frequency trading that is undertaken without an intention to trade, but with an intention to disrupt or delay a trading system.

From a data management perspective, MAR requires firms to review policies and processes to ensure instruments, trading platforms and technologies within its scope are compliant.

## MAR and MAD (cont.)

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To avoid sanctions for trading on inside information or spreading false rumours in the market, both individual investors and firms need documentation to verify that they are adhering to the regulation and prove that any transgressions are not intentional.

The Directive on Criminal Sanctions for Market Abuse (or MAD) complements MAR by requiring member states to introduce common definitions of criminal offences of insider dealing and market manipulation, and to impose criminal penalties for market abuse offences.

### Key Links

**Text:**

<http://eur-lex.europa.eu/legal-content/EN/TXT/?uri=CELEX:32014R0596>

**Summary:**

<http://eur-lex.europa.eu/legal-content/EN/LSU/?uri=CELEX:32014R0596>

**MAR FAQs:**

[http://europa.eu/rapid/press-release\\_MEMO-13-774\\_en.htm](http://europa.eu/rapid/press-release_MEMO-13-774_en.htm)

**MAD FAQs:**

[http://europa.eu/rapid/press-release\\_MEMO-14-78\\_en.htm](http://europa.eu/rapid/press-release_MEMO-14-78_en.htm)

# Margin Requirements – BCBS/IOSCO

## At a Glance

**Regulation:** Margin requirements for non-centrally cleared derivatives

**Regulatory Regime/ Authority:** BCBS and IOSCO

**Target Market Segment:** Global financial institutions

**Core Data Requirements:** Margin calculation

## Description and Data Requirements

The framework for margin requirements for non-centrally cleared derivatives has been developed by the Basel Committee on Banking Supervision (BCBS) and the International Organization of Securities Commissions (IOSCO). The framework sets out international policy on minimum standards for margin requirements for non-centrally cleared derivatives and provides a global benchmark for local regulatory requirements. It was initially released in September 2013 and later revised in March 2015.

The framework is designed to reduce systemic risk related to over-the-counter (OTC) derivatives markets and provide firms with incentives for central clearing, while managing the overall liquidity impact of the margin requirements. Standards within the framework align with collateral requirements for non-centrally cleared derivatives set out in European Market Infrastructure Regulation (EMIR) and require all financial firms and systemically important non-financial entities that engage in non-centrally cleared derivatives transactions to exchange initial and variation margin in line with the counterparty risks arising from the transactions.

The liquidity impact of the margin requirements is addressed through the introduction of a universal initial margin threshold of €50 million, below which a firm has the option of not collecting initial margin. The framework also allows for a broad array of eligible collateral to satisfy initial margin requirements with a view to further reducing the liquidity impact.

From a data management perspective, the requirements go beyond existing market practice on margining and mean firms must make significant changes to infrastructure, systems and processes, particularly in areas that support initial margin calculations, the exchange of collateral and risk management.

## Significant Milestones

**September 2, 2013:** Initial framework

**March 18, 2015:** Revised framework

**September 1, 2016:** Initial and variation margin deadline for large market participants

TLM Collateral Management has been designed to handle the new business practices arising out of IOSCO, such as Central and Client Clearing, Group Thresholds, support for net and gross initial and variation margins, currency-based margining, mismatch haircuts, wrong-way risk and asset concentration management, rehypothecation tracking plus flexible interfaces that can be configured as regulations and best practices evolve.



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## Margin Requirements – BCBS/IOSCO (cont.)

The original framework released in September 2013 was the result of two public consultations and a quantitative impact study. It set out a phased four-year implementation of the requirements starting with the collection and posting of initial margin on non-centrally cleared derivatives from December 1, 2015. The March 2015 revision of the framework pushed this deadline forward to September 1, 2016 and added a nine-month delay to the complete four-year phase in.

### Dates for Diary

**March 1, 2017:** Variation margin deadline for market participants that are not large

**September 1, 2017 – 2020:** Initial margin deadline phased in for all market participants

### Key Links

**Text:**

<http://www.bis.org/bcbs/publ/d317.pdf>

**Summary of revisions:**

[http://www.bis.org/bcbs/publ/d317\\_summarytable.pdf](http://www.bis.org/bcbs/publ/d317_summarytable.pdf)

**Consultation document:**

<http://www.bis.org/publ/bcbs242.htm>

# MiFID II

## At a Glance

**Regulation:** Markets in Financial Instruments Directive II (MiFID II)

**Regulatory Regime/  
Authority:** EU

**Target Market Segment:** Global financial institutions

### Core Data

**Requirements:** Pre- and post-trade data transparency, client and counterparty identification, transaction reporting

## Description and Data Requirements

Markets in Financial Instruments Directive II (MiFID II) is a principles-based directive issued by the EU. It is much broader than MiFID, which was introduced in 2007, and aims to improve the competitiveness of European markets by creating a single market for investment services and activities, and ensuring harmonised protection for investors in financial instruments.

The directive was initially scheduled to take effect in January 2017, but in February 2016 the European Commission proposed extending the deadline to January 2018 after being informed by the European Securities and Markets Authority (ESMA) that technical implementation challenges meant neither regulators nor market participants would have systems ready in time to meet the January 2017 deadline. In June, the European Parliament confirmed the extended deadline.

MiFID II amends many existing provisions covering the conduct of business and organisational requirements for providers of investment services, and specifies requirements and organisational rules that must be applied to different types of trading venues. It also makes sweeping changes to the pre- and post-trade transparency of EU financial markets.

Current MiFID rules, which are limited to equities trading on regulated platforms, are extended to cover equity-like and non-equity instruments traded on any trading platform, such as

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# DTCC

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## MiFID II (cont.)

### Significant Milestones

**November 1, 2007:**

MiFID takes effect

**October 20, 2011:**

European Commission publishes draft proposals for a directive and regulation to revise MiFID

**October 26, 2012:**

European Parliament approves MiFID II

**May 13, 2014:** EU Council adopts Level 1 text

**July 2, 2014:** MiFID II enters into force

**28 September, 2015:**

ESMA publishes final report on Regulatory and Implementing Technical Standards

**February 10, 2016:**

European Commission proposes one-year delay

**June 7, 2016:** European Parliament confirms delay

a multilateral trading facility (MTF) or organised trading facility (OTF), with a view to ensuring that all trading takes place on regulated platforms. Systematic internalisers and other investment firms that trade over the counter will also be subject to expanded pre- and post-trade transparency obligations.

MiFID II details a framework for market data that includes standards, such as ISINs for securities identification and reporting, and will act as a basis for the publication of data to a consolidated tape.

The data management challenges of MiFID II are many and data managers have welcomed the delay in the directive's deadline, although they continue to press on with implementation programmes as the timeframe for completion remains tight.

Changes to improve investor protection and intermediary proposals that seek to reduce instrument complexity raise data issues that firms need to consider when working to achieve compliance. Firms must reach agreement on common data processes and data quality metrics, requirements that reflect the push towards data standards and data consolidation that has been core to the reform process since early drafts of the MiFID II proposal. They must also manage multiple identifiers, including industry standard Market Identifier Codes (MICs) and Legal Entity Identifiers (LEIs).

The directive mandates a move to faster publishing of post-trade transaction data to local competent authorities, reducing the

Manage MiFID II reference data and reporting with GoldenSource. Satisfy ESMA MiFIR Art. 26 Transaction Reporting. Access all asset types, their valuations and underlyings, counterparties and classifications, transactions, collateral, and liquidity information. Handle multiple ID schemes (ISIN, CFI, MIC, LEI). All data points and quality metrics. Easily connect to, and consolidate, static data, entity information and pricing, including ESMA's FIRDS.



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Good data is vital for MiFID II compliance. MiFID II means that EU investment firms must uniquely identify and report all the financial instruments they are trading on EU venues. The Financial Instrument Global Identifier (FIGI) is the only open source financial instrument identifier offering an enterprise level solution to manage MiFID II's transaction and reference data reporting challenges.

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## MiFID II (cont.)

### Dates for Diary

**July 3, 2017:** Deadline for EU countries to implement directive in local legislation

**December 2016:** ESMA due to deliver four sets of guidelines and recommendations

**January 3, 2018:** Effective date

time delay from three minutes to one minute. This move to near real-time reporting is likely to require investment in underlying data architecture and will put pressure on firms' abilities to retrieve supporting reference data from repositories quickly and accurately.

The expansion of MiFID II beyond equity markets extends transparency requirements to sectors such as depository receipts, exchange-traded funds and company certificates. Reporting in non-equity markets will require transaction-based post-trade transparency, with the provision of price, volume, time of trade and reference characteristics of data remaining the primary consideration.

### Key Links

#### Text:

<http://eur-lex.europa.eu/legal-content/EN/TXT/?uri=CELEX:32014L0065>

#### Summary:

<http://eur-lex.europa.eu/legal-content/EN/LSU/?uri=CELEX:32014L0065>

#### FAQs:

[http://europa.eu/rapid/press-release\\_MEMO-14-305\\_en.htm](http://europa.eu/rapid/press-release_MEMO-14-305_en.htm)

The directive's proposal to introduce a consolidated tape as a means of aggregating data and providing the ability to compare instrument prices across different venues could also be a data management headache and highlight issues around data standardisation, availability, quality and timeliness.

MiFID II introduces controls for algorithmic trading that are designed to provide safeguards and reduce systemic risk, and include regulation of algorithmic traders, including high frequency algorithmic traders, and their market making strategies.

MiFID II has been a long time in the making and the subject of many industry consultations along the way, but firms within its scope now have just over a year to achieve compliance.

MiFID II and MiFIR extend current regulations, with greater controls and governance across all instrument types traded on behalf of clients, as investment intermediaries, and across the organised trading of financial instruments. The new, wider set of mandatory data to be validated and reported is just one of the more testing regulations impacting Central Counterparties, trading venues and clearing members that TLM Reconciliations Premium can resolve.



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MiFID II poses the most challenging compliance requirements in world financial market history. Large fines for non-compliant transaction reporting have already set the tone for these new regulations. Compliance data from Euromoney TRADEDATA minimises the risk associated with non-compliant transaction reporting; allows middle and back offices to focus on other areas of business management; and reduces the cost and impact of maintaining internal regulatory database siloes. For compliance, tick TRADEDATAP. Data you can rely on.



[www.euromoneytradedata.com](http://www.euromoneytradedata.com)

## Description and Data Requirements

Markets in Financial Instruments Regulation (MiFIR) is an EU regulation associated with the Markets in Financial Instruments Directive II (MiFID II) that aims to harmonise the trading of securities and improve investor protection across Europe. While MiFID II focuses on market infrastructure, MiFIR builds out transaction reporting requirements with a number of new reporting obligations and complements the directive's commitment to trading data transparency.

MiFIR, along with MiFID II, was initially scheduled to take effect in January 2017, but in February 2016 the European Commission proposed extending the deadline to January 2018 after being informed by the European Securities and Markets Authority (ESMA) that technical implementation challenges meant neither regulators nor market participants would have systems ready in time to meet the January 2017 deadline. In June, the European Parliament confirmed the extended deadline.

Under MiFIR, instruments that must be reported include all derivatives admitted to regulated markets, including currently exempt commodity, foreign exchange and interest rate derivatives, all instruments on multilateral trading facilities (MTFs) and organised trading facilities (OTFs), and all instruments that could change the value of instruments trading on any of these venues.

The regulation adds a number of fields to transaction reports, including fields designed to help spot short-selling traders, and trader and algorithm fields designed to identify the individual or program executing a transaction.

The regulation's requirements are likely to have a significant impact on data management processes as they expand the initial reporting requirements of MiFID to a much broader range of instruments. This means firms must ensure access to accurate, timely and verified data associated with the instruments. They must also extend the number of fields required for transaction reporting and use Legal Entity Identifiers (LEIs) to identify issuers or trading venue operators.

Like MiFID II, MiFIR mandates data transparency. Most of its transparency requirements are around post-trade data processes, but it does cover some pre-trade transparency requirements, such as equal access to trading opportunities data. The regulation's post-trade transparency requirements call for alterations to the trading environment as data such as

### At a Glance

**Regulation:** Markets in Financial Instruments Regulation (MiFIR)

**Regulatory Regime/  
Authority:** EU

**Target Market Segment:** Global financial institutions

**Core Data Requirements:** Pre- and post-trade data transparency, transaction reporting

### Significant Milestones

**December 2010 – February 2011:** Public consultation on MiFID review

**October 20, 2011:** European Commission publishes draft proposals for a directive and regulation to revise MiFID

**October 26, 2012:** European Parliament approves MiFID II/MiFIR

**May 13, 2014:** Council of the EU adopts Level 1 text

**July 2, 2014:** MiFIR enters into force

# MIFIR (cont.)

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## Dates for Diary

**January 3, 2018:**

Effective date

prices, quotes, execution times and volumes must be published publicly. The extension of transaction reporting to additional asset classes means firms must submit more information to regulatory authorities.

## Key Links

**Text:**

<http://eur-lex.europa.eu/legal-content/EN/TXT/PDF/?uri=CELEX:32014R0600&from=EN>

Provisions in MiFIR aimed at reducing disruptive trading, speculative activity and systemic risk mean firms need to be aware of rules covering these issues that are in place in the markets in which they operate, not least because of the powers given to regulators and venue managers to interfere should rules be violated.

Commodity derivatives, in particular, face significant scrutiny under MiFIR and are subject to new position limits, transparency requirements and measures to reduce price volatility. These requirements are designed to give regulators greater oversight and authority in the market.

Bloomberg is continuously working with regulators and market participants to determine the effect of MiFID II/MiFIR on the execution of derivatives trades. Bloomberg provides entity and customer classifications data as part of its Reference Data Services as well as independent, third party valuation of derivatives instruments through BVAL Derivatives and plans to provide execution platforms that fully comply with the MiFID II/MiFIR requirements.

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## Description and Data Requirements

The Network and Information Security (NIS) Directive is the first piece of consolidated European legislation on cybersecurity. Its provisions aim to make the online environment more trustworthy and better able to support the smooth functioning of the EU Digital Single Market.

The directive is based on proposals that were put forward by the European Commission in 2013 and designed to ensure a high, common level of network and information security across the EU. In 2015, the European Parliament and Council agreed measures to boost the overall level of cybersecurity in the EU. The European Parliament adopted the NIS Directive on July 6, 2016 and it took effect in August 2016. Member states have 21 months from August 2016 to transpose the directive into national law.

The rules of the directive aim to improve cybersecurity capabilities in member states and improve member states' cooperation on cybersecurity. To facilitate an improvement in national cybersecurity capabilities, the directive requires a minimum level of NIS capabilities based on member states adopting a national NIS strategy that defines strategic objectives, appropriate policy and regulatory measures relating to cybersecurity.

Member states are also required to designate a national competent authority for the implementation and enforcement of the directive, as well as Computer Security Incident Response Teams (CSIRTs) that are responsible for handling incidents and risks.

To improve cooperation on cybersecurity, the directive creates a cooperation group between member states that is designed to facilitate strategic cooperation, exchange of information and development of trust and confidence. The group also networks national CSIRTs to promote swift and effective operational cooperation on specific cybersecurity incidents and to share information on risks.

The directive covers operators of essential services in the banking, financial market infrastructure, energy, transport, healthcare and digital infrastructure sectors, as well as providers of key digital services, such as cloud computing, search engines and online marketplaces. It requires them to take appropriate security measures and report serious incidents to relevant national authorities.

### At a Glance

**Regulation:** Network and Information Security (NIS) Directive

**Regulatory Regime/ Authority:** EU

**Target Market Sector:** Global financial institutions

**Core Data Requirements:** Security, reporting

### Significant Milestones

**February 7, 2013:** Initial European Commission proposal on cybersecurity

**December 7, 2015:** European Parliament and Council agree proposal

**July 6, 2016:** European Parliament adopts directive

**August 2016:** Enters into force

### Dates for Diary

**June 2018:** Compliance deadline

### Key Links

**Text:**

[http://eur-lex.europa.eu/legal-content/EN/TXT/?uri=uriserv:OJ.L\\_.2016.194.01.0001.01.ENG&toc=OJ:L:2016:194:TOC](http://eur-lex.europa.eu/legal-content/EN/TXT/?uri=uriserv:OJ.L_.2016.194.01.0001.01.ENG&toc=OJ:L:2016:194:TOC)

**Press release:**

[http://europa.eu/rapid/press-release\\_STATEMENT-16-2424\\_en.htm](http://europa.eu/rapid/press-release_STATEMENT-16-2424_en.htm)

# PRIIPs

## At a Glance

**Regulation:** Packaged Retail and Insurance-based Investment Products (PRIIPs)

**Regulatory Regime/ Authority:** EU

**Target Market Segment:** Providers of retail investment and insurance products

**Core Data Requirement:** Data aggregation, maintenance, distribution

## Significant Milestones

**July 3, 2012:** European Commission proposes legislation

**November 26, 2014:** European Council publishes regulation

**November 11, 2015:** Consultation paper on draft RTS

**March 31, 2016:** Final RTS published

**June 30, 2016:** RTS adopted by European Commission

**September, 2016:** RTS rejected by European Parliament

## Description and Data Requirements

Packaged Retail and Insurance-based Investment Products (PRIIPs) is an EU regulation designed to avoid the sale of unsuitable investment and insurance products to consumers and, instead, provide them with clear product information they can use to understand and compare products before they invest. This information is contained in a Key Information Document (KID) that must be provided by PRIIP manufacturers for all products within the scope of the regulation.

The regulation covers firms manufacturing PRIIPs, which include investment funds, insurance investment products and structured products such as deposits and securities, but not general insurance and protection-based life insurance policies, deposits exposed only to an interest rate and other products that carry no investment risk, directly held shares and bonds, and pensions.

Although Undertakings for Collective Investment in Transferable Securities (UCITS) meet the definition of PRIIPs, the existing UCITS Directive contains a requirement for Key Investor Information Documents that are similar to KIDs. On this basis, the regulation gives UCITS providers a transitional period up to December 31, 2019, during which they will be exempt from PRIIPs.

The KID must be created before the PRIIP is made available to retail investors and must be published on the product manufacturer's website and provided on paper in face-to-face PRIIP sales. The document is limited in length to three A4 pages, must be presented in a way that is fair, clear and not misleading, and must contain only information needed by investors. It must promote comparability of products, explain the purpose of the KID, detail the product manufacturer and its regulator, and include mandatory sections such as 'What is the product?', 'What are the risks and what could I get in return?', 'What are the costs?', and 'How long should I hold it and can I take money out early?'

For PRIIPs manufacturers that must produce a KID for every product they promote, the data management requirement is considerable, leading some firms to review their range of products and many to consider working with third-party service providers to support the production and distribution of KIDs. Penalties for non-compliance include liability for damages if investors lose money.

## PRIIPs (cont.)

While PRIIPs is due to take effect on December 31, 2016, the compliance deadline could be delayed following the rejection of Level 2 Regulatory Technical Standards (RTS) by the Economic and Monetary Affairs (ECON) Committee of the European Parliament on September 1, 2016, and a further rejection by the European Parliament a couple of weeks later.

The European Parliament has called on the European Commission to consider postponing the application date of the Level 1 regulation so that it does not enter into force without the RTS. What the Commission will do next is not yet clear. It could adopt new RTS taking into account the objections of the European Parliament and take these to a further parliamentary vote in October 2016.

Alternatively, it could propose to postpone the Level 1 regulation, or it could do nothing. The latter is unlikely, but would lead to no change to the December 31, 2016 deadline as the European Parliament alone cannot initiate a formal delay of the regulation or force the European Commission to postpone the date.

### Dates for Diary

**December 31, 2016:**  
Effective date

**December 31, 2019:**  
UCITS regulated by  
PRIIPs

### Key Links

**Text:**

<http://eur-lex.europa.eu/legal-content/EN/TXT/?uri=CELEX:32014R1286>

**Summary:**

<http://eur-lex.europa.eu/legal-content/EN/LSU/?uri=CELEX:32014R1286>

**FAQs:**

[http://europa.eu/rapid/press-release\\_MEMO-14-299\\_en.htm](http://europa.eu/rapid/press-release_MEMO-14-299_en.htm)

# SEC Form PF

## At a Glance

**Regulation:** Form Private Fund (Form PF)

**Regulatory Regime/  
Authority:** SEC

**Target Market Segment:**  
Private funds

**Core Data Requirements:**  
Classification, stress testing, reporting

## Significant Milestones

**March 31, 2012:** Full implementation

**June 15, 2012:**  
Compliance for firms with more than \$5 billion AUM

**December 31, 2012:**  
Compliance for all firms with more than \$150 million AUM

## Description and Data Requirements

Form Private Fund (Form PF) is a US Securities and Exchange Commission (SEC) rule that details reporting standards for private funds and is designed to provide a view of the risk exposure of the assets in the funds.

Under Form PF, fund advisers are required to report regulatory assets under management to the Financial Stability Oversight Council, an organisation created under the Dodd-Frank Wall Street Reform and Consumer Protection Act to assess risk in financial markets.

SEC registered investment advisers, commodity pool operators and commodity trading advisers with \$150 million or more under management are subject to the rule and must regularly submit a Form PF. Further requirements depend on the size and type of fund. Large private fund advisers are classified as those with more than \$1.5 billion of assets under management (AUM), advisers with more than \$2 billion in private equity funds, and liquidity fund advisers with more than \$1 billion in combined assets. Anything smaller is classified as a small private fund adviser.

Small fund advisers must submit an annual Form PF including basic information. Large fund advisers must report more information, with private equity funds filing annually and hedge and liquidity funds filing on a quarterly basis.

Form PF requires a significant data management effort, including gathering, identifying, verifying and storing data that is essential to filling out the form correctly. Firms need to focus on reliable and easy access to the data, whether it is held internally or by external service providers, and they must understand the definitions and classifications of Form PF. Form PF also includes a number of stress tests that must be reported and requires firms to prove that reported data is accurate and consistent with other regulatory filings.

BVAL, Bloomberg's independent, transparent and defensible evaluated pricing service or fixed income and derivatives instruments provides private funds with the critical transparency necessary in order to assess and report their liquidity position under Form PF. BVAL's Regulatory Transparency Fields for fixed income securities provide the underlying market data used in pricing models, aiding clients in their determination of Fair Value Leveling classifications, either 1, 2 or 3, as mandated under ASC 820 and IFRS 13.

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## SEC Form PF (cont.)

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Institutional investors may request access to Form PF information in order to assess their investment decisions, risk profiles and due diligence efforts, meaning firms must determine how they gather and present information for both investors and regulators.

Form PF came into effect on June 15, 2012, with the largest funds (more than \$5 billion AUM) having to meet compliance immediately. Smaller funds (with more than \$150 million AUM) had until December 31, 2012 to comply.

### Dates for Diary

**November 29, 2016, March 1, 2017:** Next filing dates for large fund adviser

**December 31, 2016:** Next filing date for all other advisers

### Key Links

**Full Text:**

<http://www.sec.gov/rules/final/2011/ia-3308-formpf.pdf>

**FAQs:**

<http://www.sec.gov/divisions/investment/pfrd/pfrdfaq.shtml>

# Section 871(m)

## At a Glance

**Regulation:** Section 871(m) of the Internal Revenue Code

**Regulatory Regime/ Authority:** US Internal Revenue Service

**Target Market Sector:** Global financial institutions

**Core Data Requirements:** Identifying dividend equivalents, tax withholding, reporting

## Significant Milestones

**2012:** IRS issues temporary and proposed regulations

**September 17, 2015:** IRS issues final regulations

## Description and Data Requirements

Section 871(m) of the Internal Revenue Code is a set of regulations drawn up by the US Treasury Department and Internal Revenue Service (IRS). It governs withholding on certain notional principal contracts, derivatives and other equity-linked instruments (ELIs) with payments that reference (or are deemed to reference) dividends on US equity securities.

The regulations, which generally apply to transactions issued on or after January 1, 2017, impose up to 30% withholding tax on certain amounts arising in derivative transactions over US equities when those amounts are paid to non-US persons.

The regulations are a response to concerns about non-US persons dodging withholding tax on US securities' dividend payouts by using carefully timed swaps and other equity derivatives. These result in a dividend equivalent.

A dividend equivalent is defined in the regulations as: any substitute dividend made pursuant to a securities lending or a sale-repurchase transaction that directly or indirectly is contingent upon, or determined by reference to, the payment of a dividend from sources within the US; any payment made pursuant to a specified notional principal contract (specified NPC) that directly or indirectly is contingent upon, or determined by reference to, the payment of a dividend from sources within the US; and any other payment determined by the IRS to be substantially similar.

A specified NPC is defined to include any NPC if: in connection with entering into such contract, any long party to the contract transfers the underlying security to any short party to the contract; in connection with the termination of such contract, any short party to the contract transfers the underlying security to any long party to the contract; the underlying security is not readily tradable on an established securities market; in connection with entering into such contract, the underlying security is posted as collateral by any short party to the contract with any long party to the contract; or such contract is identified by the IRS as a specified NPC.

The IRS issued temporary 871(m) regulations in 2012, provided amended proposed regulations in 2013 and issued final regulations on September 17, 2015.

Equity-linked investments (ELIs) that fall within the scope of the regulations include swaps, options, futures, convertible

## Section 871(m) (cont.)

debt, structured notes and other customised derivative products. Amending previous proposals, the final regulations make ELLs subject to tax withholding if the delta, or ratio of change to the fair market value, is 0.80 or greater, with delta calculated when the equity derivative is issued.

### Dates for Diary

**January 1, 2017:**

Regulations take effect for transactions entered into on or after January 1, 2017. Regulations also apply to any payment of a dividend equivalent made on or after January 1, 2018 as a result of transactions entered into on or after January 1, 2016 and before January 1, 2017

### Key Links

**Final regulations:**

[https://www.irs.gov/irb/2015-41\\_IRB/ar07.html](https://www.irs.gov/irb/2015-41_IRB/ar07.html)

Bloomberg's 871(m) Solution offers a data solution that facilitates identification of in scope instruments, provides high quality delta calculations and tests indices for qualification. Using entity classification to determine sourcing of US income for underlying instruments, our coverage includes derivatives, ETFs, equity indices and structured products. We provide qualified and non-qualified index indicators, while offering transparency, explaining why an index is non-qualified and leveraging advanced, trading-quality delta as the end-of-day delta for tax withholding. The solution leverages Bloomberg's existing Structured Product Feed.

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# SFTR

## At a Glance

**Regulation:** Securities Financing Transactions Regulation (SFTR)

**Regulatory Regime/  
Authority:** EU

**Target Market Segment:** Investment fund managers

**Core data requirements:** Client, counterparty and trade identification, reporting

## Significant Milestones

**September 2013:** EU action plan on shadow banking

**January 2014:** European Commission proposes SFT regulation

**January 12, 2016:** Effective date

## Dates for Diary

**January 12, 2017:** ESMA to publish Level 2 RTS

**Q1 2018:** SFT reporting starts

## Key Links

**Text:**

[http://ec.europa.eu/internal\\_market/finances/docs/shadow-banking/140129\\_proposal\\_en.pdf](http://ec.europa.eu/internal_market/finances/docs/shadow-banking/140129_proposal_en.pdf)

**FAQs:**

[http://europa.eu/rapid/press-release\\_MEMO-15-5931\\_en.htm](http://europa.eu/rapid/press-release_MEMO-15-5931_en.htm)

## Description and Data Requirements

Securities Financing Transactions Regulation (SFTR) is an EU regulation and part of a drive by the EU to increase transparency of activities that are broadly categorised as shadow banking. The regulation is designed to highlight transactions that could pose a significant level of systemic risk and specifically sets out requirements to improve market transparency of securities financing transactions (SFTs).

SFTs are typically transactions that use securities to borrow cash, or vice versa. They include securities and commodities lending, margin lending and repurchase agreements. Total return swaps are also covered by some of the regulation's disclosure requirements.

To achieve improved transparency, SFTR requires all SFTs and associated collateral to be reported to an EU registered trade repository, making the transactions visible to relevant EU regulators.

The regulation permits collateral reuse, but only when the collateral provider has given explicit consent in writing. It also mandates fund managers to disclose policies on the use of SFTs and total return swaps to their investors in both pre-investment documents and ongoing periodical reports.

SFTR came into effect on January 12, 2016, although transaction reporting is not expected to start until 2018. The regulation's scope is broad, covering SFTs made by firms established in the EU, SFTs made by EU branches of non-EU firms, and SFTs where securities used are issued by an EU issuer or by an EU branch of a firm.

The regulation explicitly identifies Undertakings for Collective Investment in Transferable Securities (UCITS) funds and Alternative Investment Fund Management (AIFM) funds as being within its scope, but its reach means any firm engaging in SFTs will have to review workflows and upgrade data management systems to fulfil the transaction reporting obligation.

Final details of reporting have not yet been published, but they are due to be provided by the European Securities and Markets Authority (ESMA) to the European Commission in Level 2 draft Regulatory Technical Standards (RTS) by January 12, 2017. Reporting is expected to follow existing European Market Infrastructure Regulation (EMIR) derivatives reporting and will require the use of Legal Entity Identifiers (LEIs) to identify counterparties and beneficial owners of parties using LEIs. Electronic platform providers must issue unique transaction identifiers to identify SFTs.



# Solvency II

## Description and Data Requirements

Solvency II is an EU directive that aims to harmonise European insurance regulation and create a unified and stable industry driven by risk and solvency requirements. It is designed to protect consumers, improve regulatory supervision and increase the competitiveness of European insurers in international markets.

The regulation is principles based, complex and broad in scope, covering not only insurers and reinsurers, but also asset managers and asset servicers. It is broken down into three pillars covering: capital requirements, including a solvency capital requirement based on an internal or standard model and a minimum capital requirement; governance and supervision, including effective risk management and an internal Own Risk and Solvency Assessment; and public disclosure and regulatory reporting on a quarterly and annual basis.

While insurers bear the greatest burden of data management under Solvency II and must manage both existing and new data, such as the Complementary Identification Code (CIC) for asset classification, Nomenclature Statistique des Activités Economiques dans la Communauté Européenne (NACE) for industry classification, and the Legal Entity Identifier (LEI) for entity identification, the burden carried by asset managers and asset servicers is not insignificant.

Under the regulation's 'look through' component, asset managers and servicers must provide transparency on the investments they hold on behalf of insurance company clients in accordance with technical standards outlined by the European Insurance and Occupational Pensions Authority (EIOPA). The standards, which cover both asset data and risk data, include quality requirements of complete, timely, accurate and appropriate data.

Asset managers and servicers must also provide granular information on entities issuing securities and the component

### At a Glance

**Regulation:** Solvency II  
**Regulatory Regime/ Authority:** EU and EIOPA  
**Target Market Segment:** Insurance companies and their service providers  
**Core Data Requirements:** solvency capital calculation, risk management, governance, reporting

### Key Links

#### Text:

<http://eur-lex.europa.eu/legal-content/EN/TXT/?uri=CELEX:02009L0138-20140523>

#### Timeline:

<https://eiopa.europa.eu/regulation-supervision/insurance/solvency-ii>

#### FAQs:

[http://europa.eu/rapid/press-release\\_MEMO-15-3120\\_en.htm](http://europa.eu/rapid/press-release_MEMO-15-3120_en.htm)

### Dates for Diary

**October 2016:** next quarterly reports

**January 2017:** Next annual reports

Solvency II requires firms providing insurance to prove the quality and accuracy of the data being used by their internal models. This has a knock-on effect throughout the firm as internal departments are required to change processes, structures and systems to ensure transparency throughout the entire data lifecycle. SmartStream's Data Management Services provide high quality and fully audited data to assist firms in preparing correctly for Solvency II.



[www.smartstream.com](http://www.smartstream.com)

## Solvency II (cont.)

### Significant Milestones

**November 10, 2009:**

Adoption by European Council

**March 14, 2014:**

Omnibus II vote revises the Solvency II directive

**January 18, 2015:** Enters into force

**January 31, 2015:**

Deadline for transposing Solvency II rules into national law

**June 2015:** Preparatory phase annual reporting

**November 2015:**

Preparatory phase quarterly reporting

**January 1, 2016:**

Effective date

**April 2016:** First reporting

elements of derivative instruments. It is expected that some asset managers will divest asset classes that do not have the underlying performance data required for Solvency II compliance and instruments that create a large capital charge and are perceived by insurers as disadvantageous in terms of solvency capital requirements.

With data management requirements running through the principles and pillars of Solvency II, insurers are likely to source data for compliance purposes from both internal and external sources, often consolidating data from a number of data vendors to generate required data sets and always seeking to input consistent data across the three pillars of the regulation.

Easing the burden of 'look through' data flow between insurers and asset managers is a tripartite template, developed by the Investment Association in the UK, BVI in Germany and Club Ampere in France, and providing a common template to support the exchange of data.

The compliance deadline for Solvency II was January 1, 2016, but many firms are still using some manual workarounds and most have yet to complete automated solutions. Overcoming the challenges of the regulation can deliver not only compliance, but also opportunities of reduced capital requirements, improved risk management, a clearer link between capital and risk to support business decisions and a sturdy compliance platform.

The Bloomberg Solvency II solution provides high-quality reference and pricing data to help firms meet the Pillar I and Pillar III requirements. The Solvency II data package provides the mandatory CIC and NACE codes required in Solvency II's Quantitative Reporting Templates (QRT). The package also includes the LEI, ultimate parent, security IDs, duration, ratings and security types. To address Pillar 1 requirements, BVAL delivers transparent, defensible prices for fixed income and derivative securities.

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To comply with Solvency II, insurers need a wide range of data and analytics. S&P Global Market Intelligence provides the essential reference data and credit ratings needed to support the Standard Formula calculation of Capital Requirements and the population of Quantitative Reporting Templates. Our credit models, historical default data, yield curves, credit analytics and fundamental company data also support Internal Model approaches and insurers' Own Risk and Solvency Assessment.

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# UCITS

## At a Glance

**Regulation:** UCITS V

**Regulatory Regime/  
Authority:** EU

**Target Market Segment:**  
European fund managers  
and depositories

**Core Data**

**Requirements:** Asset  
management, reporting

## Significant Milestones

**1985:** First UCITS  
Directive

**July 1, 2011:** UCITS IV  
takes effect

**September 17, 2014:**  
UCITS V implemented

**March 18, 2016:**  
UCITS V takes effect

## Key Links

**Text:**

[http://eur-lex.europa.eu/  
legal-content/EN/  
TXT/?uri=CELEX%3A3  
2014L0091](http://eur-lex.europa.eu/legal-content/EN/TXT/?uri=CELEX%3A32014L0091)

**FAQs:**

[http://europa.eu/rapid/  
press-release\\_MEMO-  
14-298\\_en.htm  
?locale=en](http://europa.eu/rapid/press-release_MEMO-14-298_en.htm?locale=en)

## Description and Data Requirements

Undertakings for Collective Investment in Transferable Securities (UCITS) are investment funds regulated at EU level on the basis of regulations issued by the European Commission. UCITS V is the most recent UCITS directive and aims to increase the level of protection already offered to investors in UCITS and to improve investor confidence in them. It plans to do this by enhancing the rules covering the responsibilities of depositories and by introducing remuneration policy requirements for UCITS fund managers.

The first UCITS directive was implemented in 1985 and has since been improved incrementally as well as by a major overhaul in 2009 that created UCITS IV, which came into effect in July 2011. The UCITS V directive was implemented in September 2014 and took effect in March 2016.

The changes made in UCITS V include a requirement to appoint a single depository for each UCITS, publication of a list of entities eligible to act as depositories, harmonisation of the duties of a depository to keep the assets of the UCITS safe, monitoring cash movements to and from the fund, and overseeing the fund manager's performance of its key functions. The directive also specifies safe-keeping requirements that a depository needs to comply with in respect of financial instruments.

To avoid financial loss, the directive requires member states to ensure that assets held in custody by a depository are protected in the event of the depository becoming insolvent. Similarly, the depository is liable for the avoidable loss of a financial instrument held in custody.

A further requirement is the need for UCITS management companies to have transparent remuneration policies covering key staff. The directive also aims to harmonise different approaches to sanctioning across the EU by introducing a range of sanctions, including minimum and maximum penalties, that can be imposed by EU regulators for breaches of the directive.

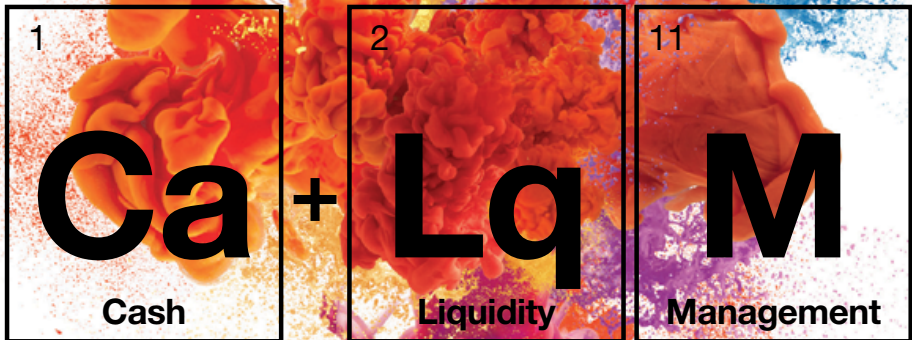
In terms of data management, UCITS V tightens the rules issued in previous directives and calls on depositories to improve their understanding and visibility of asset data, and ensure oversight of fund managers' performance. Data must also be managed for annual reports and must be accessible to regulators investigating infringements of the directive.



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