

CONTENT		SUBTITLE	TITLE
<ol class="crrNumList" style="list-style-type: none"> <li> <p>The assessment under which the competent authorities permit an institution to use Advanced Measurement Approaches (AMA) shall confirm that:</p> <ol class="crrCharList" style="list-style-type: none"> <li>the elements in Articles 3 to 6 are fulfilled;</li> <li>Chapters 2 and 3 are fulfilled;</li> <li>Chapter 4 is fulfilled where the institution has adopted the insurance and other risk transfer mechanisms referred to therein.</li> </ol> </li> <li> <p>Chapters 1 to 4 shall be taken into account where competent authorities conduct the following:</p> <ol class="crrCharList" style="list-style-type: none"> <li>an assessment of the materiality of extensions and changes to the AMA used by an institution;</li> <li>an assessment of the sequential implementation plan to the AMA used by an institution;</li> <li>an assessment of an institution's return to the use of less sophisticated approaches in accordance with Article 313 of Regulation (EU) No 575/2013;</li> <li>the ongoing reviews of an AMA used by an institution.</li> </ol> </li> </ol>		Assessment of Advanced Measurement Approaches	Article 1
<div class="crrArticle"> <p>For the purposes of this Delegated Act, the following definitions shall apply:</p> <ol class="crrNumList" style="list-style-type: none"> <li>body-tail modelling threshold means the loss value that separates the body from the tail of the loss distributions;</li> <li>calculation data set means the portion of gathered data, either actual or constructed, that fulfils the necessary conditions to serve as input into the operational risk measurement system;</li> <li>data collection threshold means the loss value from which an institution identifies and collects operational risk losses for management and measurement purposes;</li> <li>date of accounting means the date when a loss or a provision against an operational risk event is first recognized in the Profit and Loss;</li> <li>minimum modelling threshold means the loss value from which the frequency and severity distributions, either empirical or parametric, are fitted to the operational risk losses;</li> <li>gross loss or loss means the loss stemming from an operational risk event before recoveries of any type;</li> <li>misconduct event means the operational risk event arising from willful or negligent misconduct, including inappropriate supply of financial services;</li> <li>operational risk category means the level, such as the event type and the business line, at which an institution's operational risk measurement system generates separate frequency and severity distributions;</li> <li>operational risk profile means the representation in absolute figures at a given point in time of an institution's actual and prospective operational risk;</li> <li>operational risk tolerance means an institution's forward looking view, represented in absolute figures, of the aggregate level and types of operational risk that the institution is willing or prepared to incur which will not jeopardise its strategic objectives and business plan;</li> <li>recovery means the occurrence related to the original loss that is independent of that loss and that is separate in time, in which funds or inflows of economic benefits are received from first or third parties;</li> <li>risk measure means a single statistic on operational risk extracted from the aggregated loss distribution at the desired confidence level, including Value at Risk (VaR), or shortfall measures (e.g. Expected Shortfall, Median Shortfall);</li> <li>System Development Life Cycle or SDLC means the process for planning, creating, testing, and deploying an IT infrastructure;</li> <li>timing loss means the negative economic impact booked in a financial accounting period due to an operational risk event impacting the cash flows or financial statements of previous financial accounting periods.</li> </ol> </div>		Definitions	Article 2
<ol class="crrNumList" style="list-style-type: none"> <li> <p>Competent authorities shall confirm that an institution identifies, collects and treats data on operational risk events and losses related to legal risk for the purposes of both management of operational risk and calculation of the AMA own funds requirement by verifying at least all of the following:</p> <ol class="crrCharList" style="list-style-type: none"> <li>that the institution clearly identifies and classifies as operational risk losses or other expenses deriving from events that result in legal proceedings, including at least the following;</li> </ol> <ol class="crrRomanList" style="list-style-type: none"> <li>a failure to act where such action is necessary to comply with a legal rule;</li> <li>action taken to avoid compliance with a legal rule;</li> </ol> </li> </ol>			

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<li>misconduct events.</li> </ol> <li>that the institution clearly identifies and classifies as operational risk losses or other expenses resulting from voluntary actions intended to avoid or mitigate legal risks arising from operational risk events, including refunds or discounts of future services offered to customers voluntarily where such refunds are not offered as a result of customer complaints;</li> <li>that the institution clearly identifies and classifies as operational risk losses resulting from errors and omissions in contracts and documentation;</li> <li>that the institution does not classify the following as operational risk:</li> <ol class="crrRomanList"> <li>refunds to third parties or employees and goodwill payments due to business opportunities, where no breach of any rules or ethical conduct has occurred and where the institution has fulfilled its obligations on a timely basis;</li> <li>external legal costs where the underlying event is not an operational risk event.</li> </ol> </ol>For the purposes of paragraph (a), legal proceedings shall be considered to be all legal settlements, including both mandated court settlements and out of court settlements.</li> <li> <p>For the purposes of this Article, legal rules shall include at least the following:</p> <ol class="crrCharList"> <li>any requirement derived from national or international statutory or legislative provisions;</li> <li>any requirement derived from contractual arrangements, internal rules and codes of conduct established in accordance with national or international norms and practices.</li> <li>ethical rules.</li> </ol> </li> </ol>

Operational risk events related to legal risk

Article 3

<div class="crrArticle"> <p>Competent authorities shall confirm the following when assessing that an institution identifies, collects and treats data on operational risk events and losses that are related to model risk, as defined in point (11) of Article 3(1) of Directive 2013/36/EU of the European Parliament and of the Council of 26 June 2013, for the purposes of both management of operational risk and calculation of the AMA own funds requirement:</p> <ol class="crrCharList"> <li>that at least the following events, and the related losses, resulting from models used for decision-making are classified as operational risk:</li> <ol class="crrRomanList"> <li>improper definition of a selected model and its characteristics;</li> <li>inadequate verification of a selected model's suitability for the financial instrument to be evaluated or the product to be priced, or its suitability for the applicable market conditions;</li> <li>errors in the implementation of a selected model;</li> <li>incorrect mark-to-market valuations and risk measurement as a result of a mistake when booking a trade into the trading system;</li> <li>use of a selected model or its outputs for a purpose for which it was not intended or designed, including manipulation of the modelling parameters;</li> <li>untimely and ineffective monitoring of model performance to confirm whether the model remains fit for purpose.</li> </ol> <li>that events related to the under-estimation of own funds requirements by internal models authorized by competent authorities are not included in the identification, collection and treatment of data on operational risk events and losses related to model risk.</li> </ol> </div>

Operational risk events related to model risk

Article 4

<div class="crrArticle"> <p>Competent authorities shall confirm that at least the following events, and the related losses, are classified as operational risk when assessing that an institution identifies, collects and treats data on operational risk events and losses that are related to financial transactions and market risk for the purposes of both management of operational risk and calculation of the AMA own funds requirement:</p> <ol class="crrCharList"> <li>events due to operational and data entry errors, including the following:</li> <ol class="crrRomanList"> <li>failures and errors during the introduction or execution of orders;</li> <li>loss of data or misunderstanding of the data flow from the front to the middle and back offices of the institution;</li> <li>errors in classification;</li> <li>incorrect specification of deals in the term-sheet, including errors related to the transaction amount, maturities and financial features.</li> </ol> <li>events due to failures in internal controls, including the following:</li> <ol class="crrRomanList"> <li>failures in properly executing an order to unwind a market position in case of adverse price movements;</li> <li>unauthorised positions taken in excess of allocated limits, irrespective of the type of risk they relate to.</li> </ol> <li>events due to inadequate

Operational risk events related to financial transactions including those related to market risk

Article 5

	data quality and unavailability of IT environment, including technical unavailability of access to the market resulting in an inability to close contracts.		
	<ol class="crrNumList" style="list-style-type: none"> <li>Competent authorities shall verify the quality of the documentation relating to the AMA used by an institution by confirming at least the following: <ol class="crrCharList" style="list-style-type: none"> <li>that the documentation is approved at the appropriate management level of the institution;</li> <li>that the institution has policies in place outlining standards to ensure the high quality of internal documentation including specific accountability for ensuring that the documentation maintained is complete, consistent, accurate, updated, approved and secure;</li> <li>that the layout of the documentation set out in the policies referred to in point (b) identifies at least the following items: <ol class="crrRomanList" style="list-style-type: none"> <li>type of document;</li> <li>author;</li> <li>reviewer;</li> <li>authorising agent and owner;</li> <li>dates of development and approval;</li> <li>version number;</li> <li>history of changes to the document.</li> </ol> </li> <li>that the institution thoroughly documents its policies, procedures and methodologies.</li> </ol> </li> <li>Competent authorities shall verify the auditability of the documentation relating to the AMA used by an institution by confirming at least the following: <ol class="crrCharList" style="list-style-type: none"> <li>that the documentation is sufficiently detailed and accurate to allow examination of the AMA by third parties, including: <ol class="crrRomanList" style="list-style-type: none"> <li>the understanding of the reasoning and procedures underlying its development;</li> <li>the understanding of the operational risk measurement system in order to determine how the AMA own funds requirements operates, its limitations and key assumptions and being able to replicate the model development.</li> </ol> </li> </ol> </li> </ol>	Quality and auditability of documentation	Article 6
<b>SUBTITLE</b>	GENERAL PROVISIONS		
<b>TITLE</b>	CHAPTER 1		

ARTICLE			SUBTITLE	TITLE
CONTENT	SUBTITLE	TITLE		
<ol class="crrNumList" style="list-style-type: none"> <li> <p>Competent authorities shall assess the efficacy of an institution's AMA framework for the governance and management of operational risk and that a clear organisational structure with well-defined, transparent and consistent lines of responsibility exists by confirming at least the following:</p> <ol class="crrCharList" style="list-style-type: none"> <li>that the institution's management body discusses and approves the governance of operational risk, the operational risk management process and the operational risk measurement system;</li> <li>that the institution's management body clearly defines and determines the following on at least an annual basis: <ol class="crrRomanList" style="list-style-type: none"> <li>the institution's operational risk tolerance;</li> <li>the institution's operational risk tolerance written statement on the aggregate level of operational risk loss and event types, containing both qualitative and quantitative measures including thresholds and limits based on operational risk loss metrics that the institution is willing or prepared to incur in order to achieve its strategic objectives and business plan, ensuring that it is available and understood throughout the institution;</li> </ol> </li> <li>that the institution's management body monitors the institution's compliance with the operational risk tolerance</li> </ol> </li> </ol>				

statement referred to in point (b) (ii) on a continuous basis;

- that the institution applies an on-going operational risk management process to identify, assess and measure, monitor and report operational risk, including misconduct events, and is able to identify the staff responsible for the management of operational risk process;
- that the information resulting from the process referred to in point (d) is transmitted to the relevant committees and executive bodies of the institution, and that the decisions arising from those committees are communicated to those responsible within the institution for the collection, control, monitoring and management of operational risk and to those responsible for managing activities that give rise to operational risk;
- that the institution evaluates the effectiveness of its operational risk governance, operational risk management process and operational risk measurement system on at least an annual basis;
- that the institution notifies the relevant competent authority of the findings of the evaluation referred to in point (f) on at least an annual basis.

For the purposes of the assessment referred to in paragraph 1, competent authorities shall take into account the impact of the operational risk governance structure on the level of engagement in operational risk management and culture by the staff of the institution, including at least the following:

- the level of awareness, on behalf of the staff of the institution, of operational risk policies and procedures;
- the institution's internal process for challenging the design and the effectiveness of the AMA framework.

Operational risk management process

Article 7

Competent authorities shall assess the independence of the operational risk management function from the institution's business units by confirming at least the following:

- that the operational risk management function undertakes the following tasks separately from the institution's business lines:
- the design, development, implementation, maintenance and oversight of the operational risk management process and the operational risk measurement system;
- the analysis of the operational risk associated with the introduction and development of new products, markets, lines of business, processes, systems and significant changes to existing products;
- the oversight of business activities that may give rise to an operational risk exposure that could breach the institution's risk tolerance;
- that the operational risk management

Governance

SECTION 1

function receives appropriate commitment by the management body and senior management and is of adequate stature within the organization for fulfilling its tasks;	Independent operational risk management function	Article 8
<p>that the operational risk management function is not also responsible for the internal audit function;</p> <p>that the head of the operational risk management function meets at least the following requirements:</p> <ul style="list-style-type: none"> <li>an appropriate level of experience to manage the actual and prospective operational risk, as indicated by the operational risk profile;</li> <li>regular communication with the management body and its committees as mandated by the risk management structure of the institution;</li> <li>active involvement in the elaboration of the institution's operational risk tolerance and strategy for its management and mitigation;</li> <li>independence from the operational units and functions reviewed by the operational risk management function;</li> <li>allocation of a budget for the operational risk management function by the head of risk management referred to in the fourth subparagraph of Article 76(5) of Directive 2013/36/EU or a member of the management body in a supervisory capacity and not by a business unit or executive function.</li> </ul>		
<p>Competent authorities shall assess the degree of involvement of senior management of an institution by confirming at least the following:</p> <ul style="list-style-type: none"> <li>that senior management is responsible for implementing the operational risk governance and management framework approved by the management body;</li> <li>that senior management has been empowered by the management body to develop policies, processes and procedures for managing operational risk;</li> <li>that senior management is implementing the policies, processes and procedures for managing operational risk referred to in point (b).</li> </ul>	Senior management involvement	Article 9
<p>Competent authorities shall assess whether the reporting of an institution's operational risk profile and management of operational risk is sufficiently regular, timely and robust by confirming at least the following:</p> <ul style="list-style-type: none"> <li>that problems relating to the institution's reporting systems and internal controls are identified quickly and accurately;</li> <li>that the institution's operational risk reports are distributed to appropriate levels of management and to areas of the institution which the reports have identified as an area of concern;</li> <li>that the institution's senior management receives at least quarterly reports on the latest</li> </ul>	Reporting	Article 10

status of the institution's operational risk profile and uses these reports in the decision making process;

- that the institution's operational risk reports contain relevant management information and at least a high-level summary of the top operational risks of the institution and of the relevant subsidiaries as well as business units;
- that the institution uses ad hoc reports in case of certain deficiencies in the policies, processes and procedures for managing operational risk to promptly detect and address these deficiencies and therefore substantially reduce the potential frequency and severity of a loss event.

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CONTENT	SUBTITLE	TITLE
<div class="crrArticle"> <p>Competent authorities shall assess that an institution uses the AMA for internal purposes by confirming at least the following:</p> <ol style="list-style-type: none"> <li>that the institution's operational risk measurement system is used to manage operational risks across different business lines, units or legal entities within the organisation structure;</li> <li>that the operational risk measurement system is embedded within the various entities of the group and, where it is used at a consolidated level, that the parent institution's AMA framework is extended to the subsidiaries, and that those subsidiaries' operational risk and business environment and internal control factors (BEICF) referred to in Articles 322(1) and 322(6) of Regulation (EU) No 575/2013 are incorporated in the group-wide AMA calculations;</li> <li>that the operational risk measurement system is used also for the purposes of the institution's internal capital adequacy assessment process referred to in Article 73 of Directive 2013/36/EU.</li> </ol> </div>	Use of the AMA	Article 11
<div class="crrArticle"> <p>Competent authorities shall assess that an institution ensures the continuous integration of its operational risk management system into its day-to-day risk management processes by confirming at least the following:</p> <ol style="list-style-type: none"> <li>that the operational risk measurement system is updated on a regular basis and is further developed as more experience and sophistication in management and quantification of operational risk is gained;</li> <li>that the nature and balance of inputs into the operational risk measurement system are relevant and reflect the nature of the institution's business, strategy, organisation and operational risk exposure at all times.</li> </ol> </div>	Continuous integration of the AMA	Article 12
<div class="crrArticle"> <p>Competent authorities shall assess that an institution uses the AMA to support its operational risk</p> </div>		

## SECTION

management, by confirming at least the following:

- that the operational risk measurement system is effectively used for the regular and prompt reporting of consistent information that accurately reflects the nature of the business and the operational risk profile of the institution;
- that the institution takes remedial actions to improve internal processes upon receipt of information about findings from the operational risk measurement system.

AMA used to support the operational risk management of the institution

Article 13

Competent authorities shall assess that an institution uses the AMA to further enhance its operational risk organization and control, by confirming at least the following:

- that the institution's definition of operational risk tolerance and its associated operational risk management objectives and activities are clearly communicated within the institution;
- that the relationship between the institution's business strategy and its operational risk management, including with regard to the approval of new products, systems and processes, is clearly communicated within the institution;
- that the operational risk measurement system increases transparency, risk awareness and operational risk management expertise and creates incentives to improve the management of operational risk throughout the institution;
- that the inputs and the outputs of the operational risk measurement system are used in relevant decisions and plans, including in the institution's action plans, business continuity plans, internal audit working plans, capital assignment decisions, insurance plans and budgeting decisions.

AMA used to enhance the operational risk organization and control of the institution

Article 14

Use test

SECTION 2

Competent authorities shall assess that an institution demonstrates the stability and robustness of the AMA output by confirming at least the following:

- that before granting the permission to use the AMA for regulatory purposes, the institution calculated its own funds requirements for operational risk under both the AMA and the less sophisticated approach previously applicable to it, and that it performed that calculation:
- on a reasonably regular basis, and at least quarterly;
- covering all relevant legal entities that would use the AMA at the date of the initial implementation;
- covering all the operational risks that would be covered by the AMA at the date of the initial implementation.

- that the institution complies with at least the following:
- the

operational risk management process and the operational risk measurement system have been developed and tested;	any problems have been resolved and the system and attendant process have been fine-tuned;	it has ensured that the operational risk measurement system generates results which conform to the institution's expectations, including taking account of information from both the institution's existing and previous systems;	it has demonstrated it can quickly vary model parameters to understand the impact of changed assumptions with minimal systems adjustments or manual interventions;	it is able to make appropriate capital adjustments to the own funds requirements before the first live use of the AMA;	it has demonstrated over a reasonable period that the new systems and reporting processes are robust and generate management information that the institution can use to identify and manage operational risk.	For the purposes of point (a), the assessment of the calculation performed shall cover at least two consecutive quarters.	Competent authorities may grant permission to use the AMA where the institution demonstrates its continuous comparison of the calculation of its own funds requirements for operational risk under the AMA against the less sophisticated approach previously applicable to it, for one year after the permission is granted.				
								Comparison of the AMA with the less sophisticated approaches	Article 15		

CONTENT	SUBTITLE	TITLE		
<p>Competent authorities shall assess the degree to which an institution's audit and internal validation functions confirm that the operational risk management and measurement processes implemented for AMA purposes are reliable and effective in managing and measuring operational risk within the organization by verifying at least the following:</p> <ul style="list-style-type: none"> <li>that the internal validation function provides a reasoned and well-informed opinion on whether the operational risk measurement system works as predicted, and that the outcome of the model is suitable for its various internal and supervisory purposes, at least on annual basis;</li> <li>that the audit function verifies the integrity of the operational risk policies, processes and procedures, assessing whether these comply with regulatory requirements as well with established controls, at least on annual basis and in particular, that the audit function assesses the quality of the sources and data used for operational risk management and measurement purposes;</li> <li>that the functions of audit and internal validation have a review program in place that covers the aspects of the</li> </ul>				



<p>AMA included in this Regulation and is regularly updated with regard to:</p> <ul style="list-style-type: none"> <li>the development of internal processes for identifying, measuring and assessing, monitoring, controlling and mitigating operational risk;</li> <li>the implementation of new products, processes and systems which expose the institution to material operational risk.</li> <li>that the internal validation is carried out by qualified resources, which are independent of the validated units;</li> <li>that where audit activities are carried out by internal or external audit functions or qualified external parties, these are independent of the process or system being reviewed and, where these are outsourced, that the management body and senior management of the institution remain accountable for ensuring that outsourced functions are performed in accordance with the institutions' approved audit plan;</li> <li>that the audit and internal validation reviews on the AMA framework are properly documented and their output is distributed to the appropriate recipients within the institutions, including, where appropriate, the risk committees, operational risk management function, business line management and other relevant staff;</li> <li>that the results of the audit and internal validation reviews are summarised and reported on at least an annual basis to the institution's management body or to a committee designated by it for approval;</li> <li>that the review and approval of the effectiveness of the institution's AMA framework is undertaken at least on an annual basis.</li> </ul>	<p>Audit and internal validation functioning</p>	<p>Article 16</p>	<p>Audit and internal validation</p>	<p>SECTION 3</p>
<div> <p>Competent authorities shall assess that an institution's audit and internal validation governance is of a high quality by confirming at least the following:</p> <ul style="list-style-type: none"> <li>that audit programs for reviewing the AMA framework cover all significant activities that could expose the institution to material operational risk, including outsourced activities;</li> <li>that the internal validation techniques are proportionate to changing market and operating conditions, and that their outcomes are subject to audit review.</li> </ul> </div>	<p>Audit and internal validation governance</p>	<p>Article 17</p>		
CONTENT	SUBTITLE	TITLE		
<ul style="list-style-type: none"> <li>Competent authorities shall assess the degree to which the quality of the data used by an institution's in the AMA framework is maintained, and that the building and maintenance procedures are regularly analysed by that institution, by verifying that the institution has at least the following sets of data at its disposal:</li> <li>data to build and track its operational risk history, made up of internal and external data, scenario analysis,</li> </ul>				

and BEICF;

complementary data, including model parameters, model outputs and reports.

For the purposes of paragraph 1, competent authorities shall confirm that the institution has defined appropriate data quality dimensions to provide effective support to its operational risk management process and measurement system, and that it complies on a regular basis with the set dimensions.

For the purposes of paragraph 1, competent authorities shall confirm that the institution's data quality dimensions meet at least the following conditions:

- they are of sufficient breadth, depth, and scope for the task at hand;
- they meet current and potential user needs;
- they are updated promptly;
- they are appropriate for, and consistent with, the extent of their usage;
- they accurately represent the real-life phenomenon that they aim to represent;
- they do not violate any business rule in a database that has to be statically and dynamically maintained.

For the purposes of paragraph 1, competent authorities shall confirm that the institution has appropriate documentation for the design and maintenance of the databases used in the institution's AMA framework, and that the documentation contains at least the following:

- a global map of databases involved in the operational risk measurement system with their descriptions;
- a data policy and a statement of responsibility;
- descriptions of work-flows and procedures related to data collection and data storage;
- a statement of weaknesses with all the weaknesses identified in the databases of the validation and review processes and a statement on how the institution plans to correct or reduce the weaknesses identified.

Competent authorities shall confirm that the policies on the SDLC for AMA are approved by the institution's management body and senior management.

Where the institution uses external data sources, the institution shall ensure that the provisions in this Article are satisfied.

Competent authorities shall assess the degree to which an institution ensures the soundness, robustness and performance of the IT infrastructure used for AMA purposes by confirming at least the following:

- that the IT systems and infrastructure of the institution for AMA purposes are sound and resilient and that these features can be maintained on a continuous basis;
- that the

Data quality

Article 18

Data quality and IT infrastructure

SECTION 4



				<p>compliance with the standards relating to internal data features, as referred to in point (i) of Article 20(d), by verifying at least the following:</p> <ul style="list-style-type: none"> <li>that the institution gathers all of the following elements within the group in a clear and consistent manner:</li> <li>the gross loss caused by the occurrence of an operational risk event;</li> <li>the recovery.</li> <li>that the institution is able to separately identify the gross loss amount, the recovery from insurance and other risk transfer mechanisms (ORTM) and the recovery except from insurance and ORTM following an operational risk event, except for losses that are partly or fully recovered within five working days;</li> <li>that the institution implements a system for defining and justifying appropriate data collection thresholds based on the gross loss amount;</li> <li>that the operational risk category is reasonable and does not omit loss data that is material for effective operational risk measurement and risk management;</li> <li>that for each individual loss, the institution is able to identify and record at least the following elements in the internal database:</li> </ul> <ul style="list-style-type: none"> <li>the date of occurrence or start of occurrence of the operational risk event, where available;</li> <li>the date of discovery of the operational risk event;</li> <li>the date of accounting.</li> </ul>	Internal data features	Article 21
				<ul style="list-style-type: none"> <li>Competent authorities shall confirm that an institution identifies, collects and treats the loss items generated by an operational risk event, as referred to in point (i) of Article</li> </ul>		

20(d), by verifying that the institution includes at least the following within the scope of operational risk loss for the purposes of both management of operational risk and calculation of the AMA own funds

requirements:

- direct charges, including impairments and settlement charges, to the Profit and Loss account and write-downs due to the operational risk event;
- costs incurred as a consequence of the operational risk event, including the following:
  - external expenses with a direct link to the operational risk event, including legal expenses and fees paid to advisors, attorneys or suppliers;
  - costs of repair or replacement to restore the position prevailing before the operational risk event, in the form of either precise figures, or, where these are not available, estimates.
  - provisions or reserves accounted for in the Profit and Loss account against probable operational risk losses, including those from misconduct events;
  - pending losses, in the form of losses stemming from an operational risk event, which are temporarily booked in transitory or suspense accounts and are not yet reflected in the Profit and Loss which are planned to be included within a time period commensurate to the size and age of the pending item;
  - material uncollected revenues, related to contractual obligations with third parties, including the decision to compensate a client following the operational risk event, rather than by a reimbursement or direct payment, through a revenue adjustment waiving or reducing contractual fees for a specific

Scope of operational risk loss

Article 22

future period or time;

- timing losses, where they span more than one financial accounting year and give rise to legal risk.

For the purposes of paragraph 1, competent authorities may, to the extent appropriate, confirm that the institution identifies, collects and treats for the purposes of management of operational risk any additional items where they originate from a material operational risk event, including the following:

- a near miss in the form of a nil loss caused by an operational risk event, including an IT disruption in the trading room just outside trading hours;
- a gain caused by an operational risk event;
- opportunity costs in the form of an increase in costs or a shortfall in revenues due to operational risk events that prevent undetermined future business from being conducted, including unbudgeted staff costs, forgone revenue, and project costs related to improving processes;
- internal costs including overtime or bonuses.

For the purposes of paragraph 1, competent authorities shall also confirm that the institution excludes the following items from the scope of operational risk loss:

- costs of general maintenance contracts on property, plant or equipment;
- internal or external expenditures to enhance the business after the occurrence of an operational risk event, including upgrades, improvements, risk assessment initiatives and enhancements;
- insurance premiums.

- Competent

DOCUMENT SECTION

authorities shall confirm that an institution records the loss amount generated by an operational risk event, as referred to in point (i) of Article 20(d), by verifying at least the following:

- that the whole amount of the incurred loss or expenses, including provisions, costs of settlement, amounts paid to make good the damage, penalties, interest in arrears and legal fees, is considered as recorded loss amount for the purposes of both management of operational risk and calculation of the AMA own funds requirements, unless otherwise specified;
- that, where the operational risk event relates to market risk, the institution includes the costs to unwind market positions in the recorded loss amount of the operational risk items; and that, where the position is intentionally kept open after the operational risk event is recognized, any portion of the loss due to adverse market conditions after the decision to keep the position open is not included in the recorded loss amount of the operational risk items;
- that, where tax payments relate to failures or inadequate processes of the institution, the institution includes in the recorded loss amount of the operational risk items the expenses incurred as a result of the operational risk event, including penalties, interest charges, late-payment charges, and legal fees, with the exclusion of the tax amount originally due;
- that, where there are timing losses and the operational risk event directly affects third parties, including customers, providers and employees of the institution, the institution includes in the recorded loss amount of the operational risk item

Recorded loss amount of the operational risk items

Article 23

[illegible]



					<ul style="list-style-type: none"> <li>adjusts the data collection threshold relating to the loss events described in paragraph 1 up to comparable levels as those of the other operational risk categories of the AMA framework, where appropriate;</li> <li>includes within the gross loss of the events described in paragraph 1 the total outstanding amount at the time or after the discovery of the fraud, and any related expenses, including interest in arrears and legal fees.</li> </ul>		
					<div> <p>Competent authorities shall assess an institution's compliance with the standards relating to external data features, as referred to in point (ii) of Article 20(d), by verifying at least the following:</p> <ul style="list-style-type: none"> <li>that, where the institution participates in consortia initiatives for the collection of operational risk events and losses, the institution is able to provide data of the same quality, in terms of scope, integrity and comprehensiveness, as internal data meeting the standards referred to in Articles 21, 22, 23, and 24 and that it does so consistently with the type of data requested by the consortia reporting standards;</li> <li>that the institution has a data filtering process in place which allows the selection of relevant external data, based on specific established criteria and that the external data being used is relevant and consistent with the risk profile of the institution;</li> <li>that, in order to avoid bias in parameter estimates, the filtering process results in a consistent selection of data regardless of the loss amount, and that, where the institution permits exceptions to this selection process, it has a policy providing criteria for</li> </ul> </div>	External data	Article 25

SECTION

exceptions and documentation supporting the rationale for those exceptions;

that, where the institution adopts a data scaling process involving the adjustment of loss amounts reported in external data, or of the related distributions, to fit the institution's business activities, nature and risk profile, the scaling process is systematic and statistically supported and that it provides outputs that are consistent with the institution's risk profile;

that the institution's scaling process is consistent over time and its validity and effectiveness are regularly reviewed.

Competent authorities shall assess an institution's compliance with the standards relating to scenario analysis, as referred to in point (iii) of Article 20(d), by verifying at least the following:

that the institution has a robust governance framework in place relating to the scenario process that generates credible and reliable estimates, irrespective of whether the scenario is used for evaluating high severity events or the overall operational risk exposures;

that the scenario process is clearly defined, well documented, repeatable and designed to reduce as much as possible subjectivity and biases, including:

the underestimation of risk due to the number of observed events being small;

the misrepresentation of information due to scenario assessors' interests in conflict with the goals and consequences of the assessment;

the overestimation of events with temporal proximity to

		<p>temporal proximity to the scenario assessors;</p> <ul style="list-style-type: none"><li>the distortion of assessment due to the categories within which the responses are represented;</li><li>the bias in the information presented in background materials to survey questions or within the questions themselves.</li></ul> <p>that qualified and experienced facilitators provide consistency in the process; that the assumptions used in the scenario process are based, to the maximum extent, on the relevant internal data and external data with an objective and unbiased selection process; that the chosen number of scenarios, the level at, or units in, which scenarios are studied, are realistic and properly explained, and that the scenario estimates take into account relevant changes in the internal and external environments that can affect the institution's operational risk exposure;</p> <ul style="list-style-type: none"><li>that the scenario estimates are generated taking into account potential or probable operational risk events that have not yet, fully or partly, materialised in an operational risk loss;</li><li>that the scenario process and estimates are subject to a robust independent challenge process and oversight.</li></ul>	Scenario analysis	Article 26
		<div class="crrArticle"><p>Competent authorities shall assess an institution's compliance with the standards relating to the BEICF as referred to in point (iv) of Article 20(d) by verifying at least the following</p><div class="crrCharList"><ul style="list-style-type: none"><li>that the institution's BEICF are forward looking and reflect potential sources of operational risk, including rapid growth, the introduction of new products, employee</li></ul></div></div>		

	turnover and system downtime;</li> <li>that the institution has clear policy guidelines that limit the magnitude of reductions in the AMA own funds requirements resulting from BEICF adjustments;</li> <li>that the BEICF adjustments referred to in point (b) are justified and that the appropriateness of their level is confirmed by comparison, over time, with the direction and magnitude of actual internal loss data, conditions in the business environment and changes in the validated effectiveness of controls.</li> </ol> </div>	Business Environment and Internal Control Factors	Article 27	
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<b>SUBTITLE</b>	Use of internal data, external data, scenario analysis and BEICF (the four elements)
<b>TITLE</b>	SECTION 1

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CONTENT	SUBTITLE	TITLE
<div class="crrArticle"> <p>Competent authorities shall assess an institution's standards relating to the core modelling assumptions of the operational risk measurement system, as referred to in points (a) and (c) of Article 322(2) of Regulation (EU) No 575/2013, by verifying at least the following:</p> <ol class="crrCharList"> <li>that the institution develops, implements and maintains an operational risk measurement system that is methodologically well founded, effective in capturing the institution's actual and potential operational risk, and reliable and robust in generating AMA own funds requirements;</li> <li>that the institution has appropriate policies on the building of the calculation data set, in accordance with Article 29;</li> <li>that the institution applies the appropriate level of granularity in its model, in accordance with Article 30;</li> <li>that the institution has in place an appropriate process for the identification of loss distributions, in accordance with Article 31;</li> <li>that the institution determines the aggregate loss distributions and risk measures in an appropriate manner, in accordance with Article 32.</li> </ol> </div>	General assessment	Article 28
<div class="crrArticle"> <p>For the purposes of assessing that an institution has appropriate policies on the building of the calculation data set, as referred to in point (b) of Article 28, competent authorities shall confirm at least the following:</p> <ol class="crrCharList"> <li>that specific criteria and examples for the classification and treatment of operational risk events and losses within the calculation data set are defined by the institution, and that such criteria and examples provide a consistent treatment of loss data across the institution;</li> <li>that the institution does not use loss net of insurance and ORTM recoveries in		

the calculation data set;

- that the institution has adopted, for operational risk categories with low frequency of events, an observation period greater than the minimum referred to in point (a) of Article 322(3) of Regulation (EU) No 575/2013;
- that the institution, in the course of building the calculation data set for the purposes of estimating frequency and severity distributions, uses the date of discovery or the date of accounting only, and uses a date no later than the date of accounting for including losses or provisions related to legal risk into the calculation dataset;
- that the institution's choice of the minimum modelling threshold does not adversely impact the accuracy of the operational risk measures and that the use of minimum modelling thresholds that are much higher than the data collection thresholds is limited and, where applied, is properly justified by sensitivity analysis of various thresholds performed by the institution;
- that the institution includes all operational losses above the chosen minimum modelling threshold in the calculation data set and that it uses them, irrespective of their level, for generating the AMA own funds requirements;
- that the institution applies appropriate adjustment rates on the data where inflation or deflation effects are material;
- that losses caused by root event in the form of a common operational risk event or by multiple events linked to an initial operational risk event generating events or losses are grouped and entered into the calculation data set as a single loss by the institution;
- that any possible exceptions to the treatment laid down in point (h) are properly documented and justified to prevent undue reduction of the AMA own funds requirements;
- that the institution does not discard from the AMA calculation data set material adjustments to operational risk losses of single or linked events, where the reference date of these adjustments falls within the observation period and the reference date of the initial, single event or root event referred to in point (h) falls outside such a period;
- that the institution is able to distinguish, for each reference year included in the observation period, the loss amounts pertinent to events discovered or accounted for in that year from the loss amounts pertinent to adjustments or grouping of events discovered or accounted for in previous years.

Building the calculation data set

Article 29

For the purposes of assessing that an institution applies the appropriate level of granularity in its model, as referred to in point (c) of Article 28, competent authorities shall confirm at least the following:

- that the institution takes into account the nature, complexity and idiosyncrasies of its business activities and the operational risks which it is exposed to, where grouping together risks sharing common factors and defining the operational risk categories of an AMA;
- that the institution justifies its choice of level of granularity of its operational risk categories on the basis of qualitative and quantitative means, and that it classifies operational risk categories based on homogeneous, independent and stationary data;
- that the institution's choice of level of granularity of

Granularity

Article 30

					its operational risk categories is realistic and does not adversely impact the conservatism of the model outcome or of its parts;		
					that the institution reviews the choice of level of granularity of its operational risk categories on a regular basis with the view to ensuring that it remains appropriate.		
				ARTICLE	<div class="crrArticle"> <p>For the purposes of assessing that an institution has an appropriate process for the identification of frequency and severity of the distributions of loss, as referred to in point (d) of Article 28, competent authorities shall confirm at least the following:</p> <ol class="crrCharList" style="list-style-type: none"> <li>that the institution follows a well specified, documented and traceable process for the selection, update and review of loss distributions and the estimate of their parameters;</li> <li>that the process for the selection of the loss distributions results in consistent and clear choices by the institution, properly captures the risk profile in the tail and includes at least the following elements: <ol class="crrRomanList" style="list-style-type: none"> <li>a process of using statistical tools, including graphs, measures of centre, variation, skewness and leptokurtosis to investigate the calculation data set for each operational risk category with the view to better understand the statistical profile of the data and selecting the most suitable distribution;</li> <li>appropriate techniques for the estimation of the distribution parameters;</li> <li>appropriate diagnostic tools for evaluating the distributions to the data, giving preference to those most sensitive to the tail;</li> </ol> </li> <li>that, in the course of selecting a loss distribution, the institution carefully considers the positive skewness and leptokurtosis of the data;</li> <li>that, where the data are much dispersed in the tail, empirical curves are not used to estimate the tail region, but that instead sub-exponential distributions whose tail decays slower than the exponential distributions are used, unless exceptional reasons exist to apply other functions, which are in any case properly addressed and fully justified to prevent undue reduction of AMA own funds requirements;</li> <li>that, where separate loss distributions are used for the body and for the tail, the institution carefully considers the choice of the body-tail modelling threshold;</li> <li>that documented statistical support, supplemented as appropriate by qualitative elements, is provided for the selected body-tail modelling threshold;</li> <li>that, in the course of estimating the parameters of the distribution, the institution either reflects the incompleteness of the calculation data set due to the presence of minimum modelling thresholds in the model or that it justifies the use of an incomplete calculation data set on the basis that it does not adversely impact the accuracy of the parameter estimates and AMA own funds requirements;</li> <li>that the institution has in place methodologies to reduce the variability of estimates of parameters and provides measures of the error around these estimates including confidence intervals and p-values;</li> <li>that, where the institution adopts robust estimators in the form of generalisations of classical estimators, with good statistical properties including high</li> </ol> </div>	Identification of the loss distributions	Article 31

								<p>efficiency and low bias for a whole neighbourhood of the unknown underlying distribution of the data, it can demonstrate that their use does not underestimate the risk in the tail of the loss distribution;</p> <ul style="list-style-type: none"> <li>that the institution assesses the goodness-of-fit between the data and the selected distribution by using diagnostic tools of both a graphical and a quantitative nature, which are more sensitive to the tail than to the body of the data, especially where the data are very dispersed in the tail;</li> <li>that, where appropriate, including where the diagnostic tools do not lead to a clear choice for the best-fitting distribution or to mitigate the effect of the sample size and the number of estimated parameters in the goodness-of-fit tests, the institution uses evaluation methods that compare the relative performance of the loss distributions, including the Likelihood Ratio, the Akaike Information Criterion, and the Schwarz Bayesian Criterion;</li> <li>that the institution has a regular cycle for controlling assumptions underlying the selected loss distributions, and that where assumptions are invalidated, including where they generate values outside established ranges, the institution has tested alternative methods and that it has properly classified any changes made to the assumptions, in accordance with Commission Delegated Regulation (EU) No 529/2014 Commission Delegated Regulation (EC) No 529/2014 of 12 March 2014 supplementing Regulation (EU) No 575/2013 of the European Parliament and of the Council with regard to regulatory technical standards for assessing the materiality of extensions and changes of the Internal Ratings Based Approach and the Advanced Measurement Approach (OJ L 148, 20.5.2014, p. 36).</li> </ul>		
								<div class="crrArticle"> <p>For the purposes of assessing that an institution determines the aggregated loss distributions and risk measures in an appropriate manner, as referred to in point (e) of Article 28, competent authorities shall confirm at least the following:</p> <ul style="list-style-type: none"> <li>that the techniques elaborated by the institution for that purpose ensure appropriate levels of precision and stability of the risk measures;</li> <li>that the risk measures are supplemented with information on their level of accuracy;</li> <li>that, irrespective of the techniques used to aggregate frequency and severity loss distributions, including Monte Carlo simulations, Fourier Transform-related methods, Panjer algorithm and Single Loss Approximations, the institution adopts criteria that mitigate sample and numerical related errors and provides a measure of the magnitude of these errors;</li> <li>that, where Monte Carlo simulations are used, the number of steps to be performed is consistent with the shape of the distributions and with the confidence level to be achieved;</li> <li>that, where the distribution of losses is heavy-tailed and measured at a high confidence level, the number of steps is sufficiently large to reduce sampling variability to an acceptable level;</li> <li>that, where Fourier Transform or other numerical methods are used, algorithm stability and error propagation issues are carefully considered;</li> <li>that the institution's risk measure generated by the operational risk measurement system fulfils the monotonic principle of risk, which can be seen in the separation of higher cum</li> </ul> </div>	<p>Determination of aggregated loss distributions and risk measures</p>	<p>Article 32</p>

	<p>be seen in the generation of higher own fund requirements where the underlying risk profile increases and in the generation of lower own funds requirements where the underlying risk profile decreases;</p> <p>that the institution's risk measure generated by the operational risk measurement system is realistic from a managerial and economical perspective, and more that the institution applies appropriate techniques to avoid capping the maximum single loss, unless it provides a clear objective rationale for the existence of an upper bound, and to avoid implying the non-existence of the first statistical moment of the distribution;</p> <p>that the institution explicitly evaluates the robustness of the outcome of the operational risk measurement system by performing appropriate sensitivity analysis on the input data or its parameters.</p>	
<b>SUBTITLE</b>	Core modelling assumptions of the operational risk measurement system	
<b>TITLE</b>	SECTION 2	

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	CONTENT	SUBTITLE	TITLE
<b>ARTICLE</b>	<p>Competent authorities shall assess an institution's standards relating to expected losses, as referred to in point (a) of Article 322(2) of Regulation (EU) No 575/2013, by confirming that where the institution calculates the AMA own funds requirements only in relation to unexpected losses, it complies with at least the following requirements:</p> <ul style="list-style-type: none"> <li>that the institution's methodology for the estimate of expected losses is consistent with the operational risk measurement system for the estimate of the AMA own funds requirements that comprises both expected losses and unexpected losses, and that the expected loss estimation process is done by operational risk category and is consistent over time;</li> <li>that the institution defines the expected loss using statistics that are less influenced by extreme losses, including median and trimmed mean, especially in the case of medium- or heavy-tailed data;</li> <li>that the maximum offset for expected loss applied by the institution is bound by the total expected loss and that the maximum offset for expected loss in each operational risk category is bound by the relevant expected loss calculated according to the institution's operational risk measurement system applied to that category;</li> <li>that the offsets the institution allows for expected loss in each operational risk category are capital substitutes or that they are otherwise available to cover expected loss with a high degree of certainty over the one-year period;</li> <li>that where the offset is something other than provisions, the institution limits the availability of the offset to those operations with highly predictable, stable and routine losses;</li> <li>that the institution does not use specific reserves for exceptional operational risk loss events that have already occurred as expected loss offsets;</li> <li>that the institution clearly documents how its expected loss is measured and captured, including how any expected loss offsets meet the conditions outlined in points from (a) to (f).</li> </ul>	Expected losses	Article 33
	<p>Competent authorities shall assess an institution's standards relating to correlation, as referred to in point (d) of Article 322(2) of Regulation (EU) No 575/2013, by confirming that where</p>		



		<p>the institution calculates the AMA own funds requirements by recognising less than full correlation across individual operational risk estimates, it complies with at least the following requirements:</p> <ol style="list-style-type: none"><li>that the institution carefully considers any form of linear or non-linear dependence, relating to all the data, either to the body or to the tail, across two or more operational risk categories or within an operational risk category;</li><li>that the institution supports its correlation assumptions, to the greatest extent possible, on an appropriate combination of empirical data analysis and expert judgement;</li><li>that losses within each operational risk category are independent of each other;</li><li>that where the condition of point (c) is not met, dependent losses are aggregated together;</li><li>that, only where neither of the conditions of points (c) or (d) can be met, dependence within the operational risk categories is appropriately modelled;</li><li>that the institution carefully considers dependence between tail events;</li><li>that the institution does not base the dependence structure on Gaussian or Normal-like distributions;</li><li>that all assumptions regarding dependence used by the institution are conservative given the uncertainties relating to dependence modelling for operational risk, and that the degree of conservatism used by the institution increases as the rigour of the dependence assumptions and the reliability of the resulting own funds requirements decrease;</li><li>that the institution properly justifies the dependence assumptions it uses and that it regularly performs sensitivity analyses with the view to assessing the effect of the dependence assumptions on its AMA own funds requirements.</li></ol>	Correlation	Article 34
<b>SUBTITLE</b>		Expected loss and Correlation		
<b>TITLE</b>		SECTION 3		
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	<b>ARTICLE</b>	<b>CONTENT</b>	<b>SUBTITLE</b>	<b>TITLE</b>
		<div class="crrArticle"><p>Competent authorities shall assess an institution's standards relating to the internal consistency of the operational risk measurement system, as referred to in point (e) of Article 322(2) of Regulation (EU) No 575/2013, by confirming at least the following:</p><ol style="list-style-type: none"><li>that the institution's capital allocation mechanism is consistent with the institution's risk profile and with the overall design of the operational risk measurement system;</li><li>that allocation of the AMA own funds requirements takes into account potential internal differences in risk and quality of operational risk management and internal control between the parts of the group to which the AMA own funds requirements are allocated;</li><li>that there is no observable current or foreseen practical or legal impediment to the prompt transfer of own funds or repayment of liabilities;</li><li>that the allocation of the AMA own funds requirements from the consolidated group level downwards to the parts of the group involved in the operational risk measurement system relies on sound and to, the maximum extent, risk sensitive methodologies.</li></ol></div>	Consistency of the operational risk measurement system	Article 35
		<b>SUBTITLE</b>	Capital allocation mechanism	
	<b>TITLE</b>	SECTION 4		
<b>SUBTITLE</b>		QUANTITATIVE STANDARDS		
<b>TITLE</b>		CHAPTER 3		

CONTENT	SUBTITLE	TITLE
<div class="crrArticle"> <p>Competent authorities shall assess an institution's compliance with the requirements relating to the impact of insurance and ORTM within an AMA, as referred to in the last sentence of point (e) of Article 322(2) and in Article 323 of Regulation (EU) No 575/2013, by confirming at least the following:</p> <ol class="crrCharList" style="list-style-type: none"> <li>that the insurance provider meets the authorisation requirements referred to in Article 323(2) of Regulation (EU) No 575/2013, in accordance with Article 37;</li> <li>that the insurance is provided via a third party, as referred to in point (e) of Article 323(3) of Regulation (EU) No 575/2013, in accordance with Article 38;</li> <li>that the institution avoids the multiple counting of risk mitigation techniques, as referred to in point (e) of Article 322(2) of Regulation (EU) No 575/2013, in accordance with Article 39;</li> <li>that the risk mitigation calculation appropriately reflects the insurance coverage, as referred to in point (d) of Article 323(3) of Regulation (EU) No 575/2013, and that the framework for recognising insurance is well reasoned and documented, as referred to in point (f) of Article 323(3) of that Regulation, including the following:</li> </ol> <ol class="crrRomanList" style="list-style-type: none"> <li>the insurance coverage relates to the institution's operational risk profile, in accordance with Article 40;</li> <li>the institution uses a sophisticated risk mitigation calculation, in accordance with Article 41;</li> <li>the risk mitigation calculation is aligned to the institution's operational risk profile in a timely fashion, in accordance with Article 42.</li> </ol> <li>that the institution's methodology for recognising insurance captures all the relevant elements through discounts or haircuts in the amount of insurance recognition, as referred to in points (a) and (b) of Article 323(3) and in Article 323(4) of Regulation (EU) No 575/2013, in accordance with Article 43;</li> <li>that the institution demonstrates that a noticeable risk mitigating effect is achieved with the introduction of the ORTM, as referred to in the second sentence of Article 323(1) of Regulation (EU) No 575/2013, in accordance with Article 44.</li> </div>	General principles	Article 36
<div class="crrArticle"> <p>For the purposes of assessing the authorisation requirements of the insurance provider as referred to in Article 36(a), competent authorities shall consider that an undertaking authorised in a third country fulfils the requirements of authorisation, where that undertaking satisfies prudential requirements that are equivalent to those applied in the Union, including the requirements referred to in Article 323 of Regulation (EU) No 575/2013.</p> </div>	Authorisation equivalence of the insurance provider	Article 37
<ol class="crrNumList" style="list-style-type: none"> <li>For the purposes of assessing that the insurance coverage for the purposes of AMA own funds requirements is provided by a third-party entity, as referred to in Article 36(b), competent authorities shall confirm, on the basis of the comprehensive view of an institution's consolidated situation as referred to in Article 4(1), point (47) of Regulation (EU) No 575/2013, that neither the institution nor any other of the entities included in the scope of consolidation has a participation or a qualifying holding, as referred to in Article 4(1), points (35) and (36) respectively, of Regulation (EU) No 575/2013, in the party providing the insurance.</li> <li>Where the requirements of paragraph 1 are partially met, only that portion of the insurance provided where ultimate liability rests with an eligible third-party entity by virtue of the fact that the risk is effectively transferred outside of the consolidated entities shall be considered as insurance provided via a third party.</li> </ol>	Provision of the insurance via a third party	Article 38
<div class="crrArticle"> <p>For the purposes of assessing that the insurance coverage for the purposes of AMA own funds requirements avoids the multiple counting of risk mitigation techniques, as referred to in Article 36(c), competent authorities shall confirm that an institution has taken reasonable steps to ensure that neither the institution nor any of the entities included in the scope of the consolidation is knowingly re-insuring contracts that cover operational risk events forming the object of the initial insurance arrangement entered into by the institution.</p> </div>	Multiple counting of risk mitigation techniques	Article 39
<ol class="crrNumList" style="list-style-type: none"> <li>For the purposes of assessing that the insurance coverage relates to an institution's risk</li> </ol>		

## ARTICLE

<p>profile, as referred to in point (i) of Article 36(d), competent authorities shall confirm that an institution has carried out a well-documented and well-reasoned insurance risk mapping process whereby the institution develops an insurance coverage consistent with the likelihood and impact of all operational risk losses that it may potentially face.</p> <p>For the purposes of paragraph 1, competent authorities shall confirm that the institution complies with at least the following:</p> <ol style="list-style-type: none"><li>estimates the probability of insurance recovery and the possible timeframe for the receipt of payments by insurers, including the likelihood of a claim being litigated, the length of that process and current settlement rates and terms, based on the experience of its insurance risk management team, supported where necessary by appropriate external expertise including claims counsel, brokers and carriers;</li><li>uses the estimates resulting from point (a) to assess the performance of insurance in the event of an operational risk loss and designs this process with the view to assessing the insurance response for all relevant loss and scenario data being entered into the operational risk measurement system;</li><li>maps the insurance policies based on their assessment resulting from point (b) to the institution's own operational risks at the maximum level of detail, using all the information sources available, including internal data, external data and scenario estimates;</li><li>employs the appropriate expertise and conducts this mapping with transparency and consistency;</li><li>assigns the appropriate weight to the past and expected performance of insurance through an assessment of the components of the insurance policy;</li><li>obtains formal approval from the appropriate risk body or committee;</li><li>periodically re-examines the insurance mapping process.</li></ol>	Insurance risk mapping process	Article 40
<p>For the purposes of assessing that an institution uses a sophisticated risk mitigation calculation, as referred to in point (ii) of Article 36(d), competent authorities shall confirm that the modelling approach for incorporating the insurance coverage within the AMA meets at least the following:</p> <ol style="list-style-type: none"><li>it is consistent with the operational risk measurement system adopted to quantify the gross-of-insurance losses;</li><li>it is transparent in its relationship with the actual likelihood and impact of losses used in the institution's overall determination of its AMA own funds requirements, and is also consistent with that relationship.</li></ol>	Use of a sophisticated risk mitigation calculation	Article 41
<p>For the purposes of assessing that the risk mitigation calculation is aligned with an institution's operational risk profile in a timely fashion, as referred to in point (iii) of Article 36(d), competent authorities shall confirm at least the following:</p> <ol style="list-style-type: none"><li>that the institution has reviewed the use of insurance and has recalculated the AMA own funds requirements, as appropriate, where the nature of the insurance has changed significantly or where there is a major change in the institution's operational risk profile;</li><li>where material losses are incurred, affecting the insurance coverage, that the institution recalculates the AMA own funds requirements with an additional margin of conservatism;</li><li>where there is an unexpected termination or reduction of the insurance coverage, that the institution is prepared to immediately replace the insurance policy on equivalent or improved terms, conditions and coverage, or to increase its AMA own funds requirements to a gross-of-insurance level;</li><li>that the institution calculates capital gross- and net-of-insurance, at a level of granularity such that any erosion in the amount of insurance available, including by payment of a material loss, or a change in insurance coverage, can be immediately recognised for its effect on the AMA own funds requirements.</li></ol>	Alignment of the risk mitigation calculation with the operational risk profile	Article 42
<ol style="list-style-type: none"><li><p>For the purposes of assessing that an institution's methodology for recognising insurance captures all the relevant elements through discounts or haircuts in the amount of insurance recognition, as referred to in Article 36(e), competent authorities shall confirm at least the following:</p><ol style="list-style-type: none"><li>that the institution investigates the various factors that create the risk that the insurance provider will not make the payments as expected and decrease the effectiveness of the risk transfer, including the ability of the insurer to pay in a timely manner and the ability of the institution to identify,</li></ol></li></ol>		

<p>analyse and report the claim in a timely manner;</p> <ul style="list-style-type: none"> <li>that the institution investigates how the various factors referred to in point (a) have affected the mitigating impact of insurance on the operational risk profile in the past and how they may affect it in the future;</li> <li>that the institution reflects the uncertainties referred to in point (a) in its AMA own funds requirements, through appropriately conservative haircuts;</li> <li>that the institution carefully takes into account the characteristics of the insurance policies, including whether those policies cover only losses that are claimed or notified to the insurer during the policy term, therefore any loss that is discovered after the policy expires is not covered, or whether they cover losses that are incurred during the policy term, even where they are not discovered and the claim is not lodged until after the expiration of the policy, or whether the losses are first-party direct losses or third-party liability losses;</li> <li>that the institution considers and fully documents data on insurance pay-outs by loss type in its loss databases and sets haircuts accordingly;</li> <li>that the institution has in place procedures for loss identification, analysis and claims processing, with the view to verifying the actual coverage protection provided by the insurer or the ability to receive the claim payment funds within a reasonable timeframe;</li> <li>that the institution explicitly quantifies and models separately the haircuts in relation to each of the identified relevant uncertainties instead of applying one single haircut into the calculation covering all uncertainties or an ex post calculation haircut;</li> <li>that the institution takes into account the recognition of the insurer's claims-paying ability risk to the maximum extent, by applying appropriate haircuts in the insurance modelling methodology;</li> <li>that the institution ensures that the claims-paying ability risk for counterparty default is assessed on the basis of the credit quality of the insurance company responsible under the given insurance contract, irrespective of whether the insurance company's parent institution has a better rating or whether the risk is transferred to a third party;</li> <li>that the institution makes conservative assumptions relating to the renewal of insurance policies on the basis of equivalent terms, conditions, and coverage as the original or existing contracts;</li> <li>that the institution has processes in place to ensure that the potential exhaustion of insurance policy limits and the price and availability of reinstatements of cover as well as the cases where the coverage of the insurance contract does not match the operational risk profile of the institution are appropriately reflected in its AMA insurance methodology.</li> </ul> <p>For the purposes of paragraph 1, competent authorities may consider that the requirement for the institution to apply haircuts for the time remaining until the expiry of the insurance contract or for the cancellation term is not necessary where the cover will be renewed and continuous and where at least one of the following conditions is met:</p> <ol style="list-style-type: none"> <li>where the institution can demonstrate the existence of continuous cover on equivalent or improved terms, conditions and coverage for at least 365 days;</li> <li>where the institution has in place a policy that cannot be cancelled by the insurer, other than for non-payment of premium, or which has a cancellation period of more than one year.</li> </ol>	<p>Capture of all the relevant elements</p>	<p>Article 43</p>
<div> <p>For the purposes of assessing that an institution has demonstrated that a noticeable risk mitigating effect is achieved with the introduction of ORTM, as referred to in Article 36(f), competent authorities shall apply at least the following:</p> <ol style="list-style-type: none"> <li>confirm that the institution has experience in using ORTM instruments and their characteristics, including probability of coverage and timeliness of payment, before these instruments can be recognized in the institution's operational risk measurement system;</li> <li>refuse ORTM as eligible risk mitigation instruments of the AMA own funds requirements where the ORTM are held or used for trading purposes rather than for risk management purposes;</li> <li>verify the eligibility of the protection seller including whether it is a regulated or unregulated entity, and the nature and characteristics of the protection provided, whether it is funded protection, securitization, guarantee mechanism or derivatives;</li> <li>confirm that outsourced activities are not considered part of ORTM;</li> <li>confirm that the institution calculates the AMA own funds requirements gross- and net-of-ORTM for each capital calculation, at a level of granularity such that any provision in</li> </ol> </div>	<p>Other risk transfer mechanisms</p>	<p>Article 44</p>

