Substitue   Separaticle   Separation   Se
HSTIBLITE BUSENEKAL
TITLE CHAPTER I

CONTENT	SUBTITLE	TITLE
<pre><div class="crrArticle"> An application for recognition submitted by a CCP established in</div></pre>		
a third country shall contain at least the following information: <ol class="crrCharList"> <li>full name of the legal</li></ol>		
entity; <pre>entity; <pre>or members with qualifying holdings; </pre></pre>		
<pre><li><pre></pre></li></pre> <pre><pre><pre></pre></pre><pre><pre><pre><pre><pre><pre><pre>&lt;</pre></pre></pre></pre></pre></pre></pre></pre>		
financial instruments cleared; <li>details to be included in the ESMA website in</li>		
accordance with Article 88(1)(e) of Regulation		

INDUCTOR AND CONTROL CONTROL CONTROL CONTROL CONTROL OF A DAMAGE AND	ARTICLE	financial resources, the form and methods in which they are maintained and the arrangements to secure them including default management procedures; <li>li&gt;details on the margin methodology and for the calculation of the default fund;</li> <li>li&gt;a breakdown of values, in prospective form if needed, cleared by the applying CCP by each Union currency cleared;</li> <li>li&gt;results of the stress tests and back tests performed during the year preceding the date of application;</li> <li>cli&gt;details of any outsourcing arrangements applicable in that third country;</li> <li>details of any outsourcing arrangements;</li> <li>details of any outsourcing arrangements and respective legal soundness and enforceability;</li> <li>details on segregation arrangements and termination of membership;</li> <li>details of any interoperability arrangement, including the information provided to the third country competent authority for the purpose of assessing the arrangement.</li> <li>/li&gt; </li> <li>RECOGNITION OF THIRD COUNTRY CCPs(Article</li>	provided to ESMA for the recognition of a CCP	Article 2
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(EU) No 648/2012)

TITLE CHAPTER II

CONTENT	SUBTITLE	TITLE
<pre><ol class="crrNumList"> <li>The key</li></ol></pre>		
components of the governance		
arrangements of the CCP that define its		
organisational structure as well as clearly		
specified and well-documented policies,		
procedures and processes by which its		
board and senior management operate shall		
include the following: <ol< td=""><td></td><td></td></ol<>		
class="crrCharList"> <li>the composition,</li>		
role and responsibilities of the board and		
any board committees;		
and responsibilities of the management;		
senior management and the board;		
<pre><li>the procedures for the appointment of</li></pre>		
board members and senior management;		
management, compliance and internal		
control functions;		
for ensuring accountability to stakeholders.		
adequate staff to meet all obligations		
arising from this Regulation and from		
Regulation (EU) No 648/2012. A CCP shall		
not share its staff with other group entities,		
unless under the terms of an outsourcing		
arrangement in accordance with Article 35		
of Regulation (EU) No 648/2012.		
CCP shall establish lines of responsibility		
which are clear, consistent and well-		
documented. A CCP shall ensure that the		,
functions of the chief risk officer, chief	Governance	Article
compliance officer and chief technology	arrangements	3
officer are carried out by different		
individuals, who shall be employees of the		
CCP entrusted with the exclusive		
responsibility of performing these		

functions. group shall take into account any implications of the group for its own governance arrangements including whether it has the necessary level of independence to meet its regulatory obligations as a distinct legal person and whether its independence could be compromised by the group structure or by any board member also being a member of the board of other entities of the same group. In particular, such a CCP shall consider specific procedures for preventing and managing conflicts of interest including with respect to outsourcing arrangements. Where a CCP maintains a twotiered board system, the role and responsibilities of the board as established in this Regulation and in Regulation (EU) No 648/2012 shall be allocated to the supervisory board and the management board as appropriate. management policies, procedures, systems and controls shall be part of a coherent and consistent governance framework that is reviewed and updated regularly.

 A CCP shall have a sound framework for the comprehensive management of all material risks to which it is or may be exposed. A CCP shall establish documented policies, procedures and systems that identify, measure, monitor and manage such risks. In establishing risk-management policies, procedures and systems, a CCP shall structure them in a way as to ensure that clearing members properly manage and contain the risks they pose to the CCP. A CCP shall take an integrated and comprehensive view of all relevant risks. These shall include the risks it bears from and poses to its clearing members and, to the extent practicable, clients as well as the risks it bears from and poses to other entities such as, but not limited to interoperable CCPs, securities settlement and payment systems, settlement banks, liquidity providers, central securities depositories, trading venues served by the CCP and other critical service providers. A CCP shall develop appropriate risk management tools to be in a position to manage and report on all relevant risks. These shall include the identification and management of system, market or other interdependencies. If a CCP provides services linked to clearing that present a distinct risk profile from its functions and potentially pose significant additional risks to it, the CCP shall manage those additional risks adequately. This may include separating legally the additional services that the CCP provides from its core functions. arrangements shall ensure that the board of a CCP assumes final responsibility and accountability for managing the CCP's risks. The board shall define, determine and Risk document an appropriate level of risk tolerance and risk bearing capacity for the CCP. The board and senior management

Risk management and internal control

Article

nent control

shall ensure that the CCP䀙s policies, procedures and controls are consistent with the CCP's risk tolerance and risk bearing capacity and that they address how the CCP identifies, reports, monitors and manages risks. robust information and risk-control systems to provide the CCP and, where appropriate, its clearing members and, where possible, clients with the capacity to obtain timely information and to apply risk management policies and procedures appropriately. These systems shall ensure, at least that credit and liquidity exposures are monitored continuously at the CCP level as well as at the clearing member level and, to the extent practicable, at the client level. A CCP shall ensure that the risk management function has the necessary authority, resources, expertise and access to all relevant information and that it is sufficiently independent from the other functions of the CCP. The CCP chief risk officer shall implement the risk management framework including the policies and procedures established by the board. internal control mechanisms to assist the board in monitoring and assessing the adequacy and effectiveness of a its risk management policies, procedures and systems. Such mechanisms shall include sound administrative and accounting procedures, a robust compliance function and an independent internal audit and validation or review function. CCP's financial statement shall be prepared on an annual basis and be audited by statutory auditors or audit firms within the meaning of Directive 2006/43/EC of the European Parliament and of the CouncilOJ L 157, 9.6.2006, p. 87..

mechanisms

 A CCP shall establish, implement and maintain adequate policies and procedures designed to detect any risk of failure by the CCP and its employees to comply with the its obligations under this Regulation, Regulation (EU) No 648/2012 and Implementing Regulation (EU) No 1249/2012, as well as the associated risks, and put in place adequate measures and procedures designed to minimise such risk and to enable the competent authorities to exercise their powers effectively under these Regulations. A CCP shall ensure that its rules, procedures and contractual arrangements are clear and comprehensive and they ensure compliance with this Regulation, Regulation (EU) No 648/2012 and Implementing Regulation (EU) No 1249/2012 as well as all other applicable regulatory and supervisory requirements. <br>The rules, procedures and contractual arrangements of the CCP shall be recorded in writing or another durable medium. These rules, procedures, and contractual arrangements and any accompanying material shall be accurate, up-to-date and

readily available to the competent authority, Compliance clearing members and where appropriate

clients. consult with all be sought for the purpose of this analysis. The CCP shall have a process for proposing and implementing changes to its rules and procedures and prior to implementing any material changes to consult with all affected clearing members and submit the proposed changes to the competent authority. <li>cli&gt;lo lo l</li>	policy and procedures	5
<pre><ol class="crrNumList"> <li>A CCP shall establish and maintain a permanent and effective compliance function which operates independently from the other functions of the CCP. It shall ensure that the compliance function has the necessary authority, resources, expertise and access to all relevant information.  br&gt;When establishing its compliance function, the CCP shall take into account the nature, scale and complexity of its business, and the nature and range of the services and activities undertaken in the course of that business. </li> <li>Ali&gt; The chief compliance officer shall at least have the following responsibilities:   p&gt; <ol class="crrCharList"> <li>monitor and, on a regular basis, assess the adequacy and effectiveness of the measures put in place in accordance with Article 5(4) and the actions taken to address any deficiencies in the CCPâe™s compliance with its obligations; </li> <li>    <li>   <li>   <li>   <li>   <li>   <li>   <li>   <li>   <li>   </li> <li>   </li> <li>   <li>   <li>   <li>   <li>   <li>   <li>   </li> <li>   </li> <li>   <li>   <li>   <li>   <li>   <li>   <li>   </li> <li>   </li> <li>   </li> <li>   </li> <li>   <li>   <li>   <li>   <li>   </li> <li>   </li> <li>   </li> <li>   </li> <li>   <li>   <li>   <li>   <li>   <li>   </li> <li>   </li> <li>   <li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></ol></li></ol></pre>	Compliance function	Article 6

ARTICLE	<li><li><li><li><li><li><!--</th--><th>Organisational structure and separation of the reporting lines</th><th>Article 7</th><th></th></li></li></li></li></li></li>	Organisational structure and separation of the reporting lines	Article 7	
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	accountable for its performance. The reporting lines for risk management, compliance and internal audit shall be clear and separate from those for the other operations of the CCP. The chief risk officer shall report to the board either directly or through the chair of the risk committee. The chief compliance officer and the internal audit function shall report directly to the board.		
	<ol class="crrNumList"> <li>The remuneration committee shall design and further develop the remuneration policy, oversee its implementation by senior management and review its practical operation on a regular basis. The policy itself shall be documented and reviewed at least on an annual basis. </li> <li>Kli&gt;The remuneration policy shall be designed to align the level and structure of remuneration with prudent risk management. The policy shall account for prospective risks as well as existing risks and risk outcomes. Pay out schedules shall be sensitive to the time horizon of risks. In particular in the case of variable remuneration the policy shall take due account of possible mismatches of performance and risk periods and shall ensure that payments are deferred as appropriate. The fixed and variable components of total remuneration shall be balanced and shall be consistent with risk alignment. </li> <li>Kli&gt; In the remuneration shall be balanced and shall be consistent with risk alignment of total remuneration shall be balanced and shall be consistent with risk alignment of the level of remuneration in the business performance of the CCP. The level of remuneration shall be adequate in terms of responsibility as well as in comparison to the level of remuneration in the business areas. </li> <li>Kli&gt; The remuneration policy shall be subject to independent audit, on an annual basis. The results of these audits shall be made available to the competent</li> </ol>	Remuneration policy	Article 8
	authority. <li><ol class="crrNumList"> <li>A CCP shall design and ensure its information technology systems are reliable and secure as well as capable of processing the information necessary for the CCP to perform its activities and operations in a safe and efficient manner.  The information technology architecture shall be well-documented. The systems shall be designed to deal with the CCP's operational needs and the risks the CCP faces, be resilient, including in stressed market conditions, and be scalable, if necessary, to process additional information. The CCP shall provide for procedures and capacity planning as well as for sufficient redundant capacity to allow the system to process all remaining transactions before the end of the day in circumstances where a major disruption occurs. The CCP shall provide for procedures for the introduction of new technology including clear reversion plans.</li> <li></li> <li><li><li><li><li><li><li><li><li><li></li></li></li></li></li></li></li></li></li></li></ol></li>		

of security in information processing and to enable connectivity with its clearing members and clients as well as with its service providers, a CCP shall base its information technology systems on internationally recognised technical standards and industry best practices. The CCP shall subject its systems to stringent testing, simulating stressed conditions, before initial use, after making significant changes and after a major disruption has occurred. Clearing members and clients, interoperable CCPs and other interested parties shall be involved as appropriate in the design and conduct of these tests. <li><li>A CCP shall maintain a robust information security framework that appropriately manages its information security risk. The framework shall include appropriate mechanisms, policies and procedures to protect information from unauthorised disclosure, to ensure data accuracy and integrity and to guarantee the availability of the CCP's services. </li> <li>&lt; &gt;&gt; &gt; The information security framework shall include at least the following features:    &gt; &gt; The information security framework shall include at least the following features:    &gt; &lt;   &gt; &lt;   &gt; &lt;   &gt; &lt;   &gt;    &gt; &lt;   &gt; &lt;   &gt; &lt;   &gt; &lt;   &gt;    &gt; &lt;   &gt; &lt;   &gt; &lt;   &gt; &lt;   &gt;    &gt; &lt;   &gt; &lt;   &gt; &lt;   &gt; &lt;   &gt;    &gt; &lt;   &gt; &lt;   &gt; &lt;   &gt; &lt;   &gt;    &gt; &lt;   &gt;</li></li>	Information technology systems	Article 9
of these assessments shall be reported to the board and shall be made available to the competent authority. <li><ol class="crrNumList"> <li>&gt;A CCP shall make the following information available to the public free of charge:  <li><ol class="crrCharList"> <li>information regarding its governance arrangements, including the following: </li> <li><ol class="crrRomanList"> <li>its organisational structure as well as key objectives and strategies; </li> <li><li><li>key elements of the remuneration policy; </li> <li>key financial information including its most recent audited financial statements; </li> <li></li> <li></li></li></li></ol> <li><li>including the following: </li> <li><ol class="crrRomanList"> <li>default management procedures, procedures and supplementary texts; </li> <li><li><li>irelevant business continuity information; </li> <li>information on the CCP' s risk management systems, techniques and performance in accordance with Chapter XII; </li> <li><li><li><li><li>and operations as well as on the rights and obligations of clearing members and clients, necessary to enable them to identify clearly and understand fully the risks and costs associated with using the</li> </li></li></li></li></li></li></ol></li></li></li></ol></li></li></ol></li>		

CCPatins services; <ii>CCPatins current clearing services, including detailed information on what it provides under each service;</ii> <ii>the CCPât™s risk management systems, techniques and performance, including information on financial resources, investment policy, price data sources and models used in margin calculations;</ii> <ii>the law and the rules governing:</ii> <ii>the law and the rules governing:</ii> <iii>the access to the CCP;</iii> <ii>the contracts concluded by the CCP with clearing members and, where practicable, clients;</ii> <ii>the contracts that the CCP accepts for clearing;</ii> <ii>any interoperability arrangements;</ii> <ii>the use of collateral and default fund contributions, including the liquidation of positions and collateral and the extent to which collateral is protected against third party claims;</ii> <ii><ii><iii> <iii< i=""> <iiii< i=""> <iiiii< i=""> <iiii< i=""> <iiii< i=""> <iiii< i=""> <iiiii< i=""> <iiii< i=""> <iiiii< i=""> <iiii< i=""> <iiiii< <iiii<="" i=""> <iiiii< <iiii<="" i=""> <iiiii< <iiiii<="" <iiiiii<="" th=""><th>Disclosure</th><th>Article 10</th></iiiii<></iiiii<></iiiii<></iiii<></iiii<></iiii<></iiii<></iiii<></iiii<></iiii<></iiii<></iiii<></iiii<></iiii<></iiiii<></iiii<></iiii<></iiii<></iiii<></iiii<></iiii<></iiii<></iiii<></iiii<></iiii<></iiii<></iiii<></iiii<></iiii<></iiiii<></iiii<></iiii<></iiii<></iiiii<></iiii<></iiii<></iiii<></iiii<></iiii<></iiii<></iiii<></iiii<></iii<></iii></ii></ii>	Disclosure	Article 10
<pre><ol class="crrNumList"> <li>A CCP shall establish and maintain an internal audit function which is separate and independent from the other functions and activities of the CCP and which has the following tasks: <ol class="crrCharList"> <li>to establish, implement and maintain an audit plan to examine and evaluate the adequacy and effectiveness of the CCP's systems, internal control mechanisms and governance arrangements;</li> <li><li><li><li><li><li><li><li><li><li></li></li></li></li></li></li></li></li></li></li></ol></li></ol></pre>	Internal auditing	Article

mechanisms in a manner that is proportionate to the risks faced by the different business lines and independent of the business areas assessed. The internal audit function shall have the necessary access to information in order to review all of the CCP's activities and operations, processes and systems, including outsourced activities. audit assessments shall be based on a comprehensive audit plan that shall be reviewed and reported to the competent authority at least on an annual basis. The CCP shall ensure that special audits may be performed on an event-driven basis at short notice. Audit planning and review shall be approved by the board. A CCP's clearing operations, risk management processes, internal control mechanisms and accounts shall be subject to independent audit. Independent audits shall be performed, at a least, on an annual basis. 

SUBTITLE

ORGANISATIONAL REQUIREMENTS(Article 26 of Regulation (EU) No 648/2012)

TITLE CHAPTER III

CONTENT	SUBTITLE	TITLE
<pre><ol class="crrNumList"> <li> A CCP</li></ol></pre>		
shall keep records in a durable medium that allows information to be provided to the		
competent authorities, ESMA and relevant		
European System of Central Banks (ESCB)		
members, and in such a form and manner		
that the following conditions are met:		
<pre><ol class="crrCharList"> <li>each key stage</li></ol></pre>		
of the processing by the CCP may be		
reconstituted;		
of a record before any corrections or other amendments may be recorded, traced and		
retrieved;		
unauthorised alteration of records are in		
place; <li>security and confidentiality of</li>		
the data recorded are ensured through		
appropriate measures; <li>a mechanism</li>		
for identifying and correcting errors is		
incorporated in the record keeping system;		
<li>the timely recovery of the records in the case of a system failure is ensured</li>		
within the record keeping system.		
<pre></pre> <pre>&lt;</pre>		
less than six months old, they shall be		
provided to the authorities listed in		
paragraph 1 as soon as possible and at the		
latest by the end of the following business		
day following a request from the relevant		
authority.	General	Article
information are older than six months, shall be provided to the authorities listed in	requirements	1 111
paragraph 1 as soon as possible and within	requirements	
five business days following a request from		
the relevant authority.		
records processed by the CCP contain		
personal data CCPs shall have regard to their		
obligations under Directive 95/46/EC of the		
European Parliament and of the CouncilOJ L		
281, 23.11.1995, p. 31. and Regulation (EC)		
No 45/2001 of the European Parliament and		
of the CouncilOJ L 8, 12.1.2001, p. 1		
 		. "

	< i>Where a CCP maintains records outside the Union, it shall ensure that the competent authority, ESMA and the relevant members of the ESCB are able to access the records to the same extent and within the same periods as if they were maintained within the Union. <li>&lt; i&gt;&gt; &lt; i&gt;&gt; Each CCP shall name the relevant persons who can, within the delay established in paragraphs 2 and 3 for the provision of the relevant records, explain the content of its records to the competent authorities. </li> <li>&lt; i &gt; &lt; i &gt; All records required to be kept by a CCP under this Regulation shall be open to inspection by the competent authority. A CCP shall provide the competent authority with a direct data feed to the records required under Articles 13 and 14, when requested. </li>		
	<pre>col class="crrNumList"&gt; <li>A CCP shall maintain records of all transactions in all contracts it clears and shall ensure that its records include all information necessary to conduct a comprehensive and accurate reconstruction of the clearing process for each contract and that each record on each transaction is uniquely identifiable and searchable at least by all fields concerning the CCP, interoperable CCP, clearing member, client, if known to the CCP, and financial instrument. </li> <li>&lt; i&gt;&gt;&lt; i&gt;&gt;&lt; p&gt;&gt;In relation to every transaction received for clearing, a CCP shall, immediately upon receiving the relevant information, make and keep updated a record of the following details: <pre> p&gt;&lt; o  class="crrCharList"&gt; &lt; i &gt;&gt; the price, rate or spread and quantity;<!-- i --> &lt; i &gt;&gt; the clearing capacity, which identifies whether the transaction was a buy or sale from the perspective of the CCP recording;<!-- i--> <li>&lt; i &gt;&gt; the instrument identification;<!-- i--> &lt; i &gt;&gt; the identification of the clearing member;<!-- i --> &lt; i &gt;&gt; the identification of the venue where the contract was concluded;<!-- i--> &lt; i &gt;&lt; i &gt;&gt; the date and time of interposition of the CCP;<!-- i --> &lt; i &gt;&gt; the date and time of termination of the contract;<!-- i --> &lt; i &gt;&gt; the terms and modality of settlement;<!-- i --> &lt; i &gt;&gt; the terms and modality of settlement or of buy-in of the transaction and to the extent they are applicable of the following details:  &lt; i &gt;&lt; i &gt;&lt; o  class="crrRomanList"&gt; &lt; i &gt;&lt; the day and the time at which the contract;<!-- i --> &lt; i &gt; the original terms and parties of the contract;<!-- i --> &lt; i &gt; the identification of the interoperable CCP clearing one leg of the transaction, where applicable;<!-- i --> &lt; i &gt; the identification of the interoperable CCP clearing one leg of the transaction, where applicable;<!-- i --> &lt; i &gt; the identification of the party that transferred the contract.</li></pre></li></pre>	Transaction	Article 13
ARTICLE	<li></li> <l> <li></li> <li></li> <li></li> <li></li> <li></li> <li></li></l>		

	identification of the clearing member, of the client, if known to the CCP, and of any interoperable CCP maintaining such position, where applicable; <li>  &lt;     &gt;     &gt;     &gt;     &gt;    </li> <li>  where applicable;</li> <li>    &gt;     &gt;     &gt;    </li> <li>    &gt;     &gt;    </li> <li>      &gt;     &gt;    </li> <li>        &gt;    </li> <li>             </li> <li>               </li> <li>               </li> <li>               </li> <li>               </li> <li>               </li> <li>               </li> <li>               </li> <li>               </li> <li>               </li> <li>               </li> <li>               </li> <li>               </li> <li>               </li> <li>               </li> <li>               </li> <li>               </li> <li>               </li> <li>               </li> <li>               </li> <li>               </li> <li>                 </li> <li>                   </li> <li>                       </li> <li>                         </li> <li>                           </li> <li>                               </li> <li>                                     </li>	Article 14
		Article 15

complaint, and the date the complaint was resolved; <li>li&gt;records of any interruption of services or dysfunction, including a detailed report on the timing, effects and remedial actions;</li> <li>records of the results of the back and stress tests performed;</li> <li>li&gt;records of the results of the back and stress tests performed;</li> <li>li&gt;written communications with competent authorities, ESMA and the relevant members of the ESCB;</li> <li>li&gt;legal opinions received in accordance with Chapter III;</li> <li>li&gt;where applicable, documentation regarding interoperability arrangements with other CCPs;</li> <li>li&gt;the information under Article 10(1)(b)(vii) and (1)(d);</li> <li>li&gt;the relevant documents describing the development of new business initiatives.</li> <li>/ol&gt; </li>		
to be reported in accordance with Article 9 of Regulation (EU) No 648/2012, along with a	renorieo io al	Article 16

SUBTITLE RECORD KEEPING(Article 29 of Regulation (EU) No 648/2012)

TITLE CHAPTER IV

CONTENT	SUBTITLE	TITLE
<ol class="crrNumList"> <li>A CCP shall have a business continuity policy and a disaster recovery plan which are approved by the board. The business continuity policy and the disaster recovery plan shall be subject to independent reviews which are reported to the board. </li> <li>Is The business continuity policy shall identify all critical business functions and related systems, and include the CCP' s strategy, policy, and objectives to ensure the continuity of these functions and systems. </li> <li>Is The business continuity policy shall take into account external links and interdependencies within the financial infrastructure including trading venues cleared by the CCP, securities settlement and payment systems and credit institutions used by the CCP or a linked CCP. It shall also take into account critical functions or services which have been outsourced to third-party providers. </li> <li>The business continuity policy and disaster recovery plan shall contain clearly defined and documented arrangements for use in the event of a business continuity emergency, disaster or crisis which are designed to ensure a minimum service level of critical functions. </li> <li>Is The disaster recovery plan shall identify and include recovery plan shall identify and include recovery point objectives and recovery time objectives for critical functions and determine the most suitable recovery strategy for each of these functions. Such arrangements shall be designed to ensure that in extreme scenarios critical functions are completed on time and that agreed service levels are met. </li> <li>Is A CCP' s business continuity policy shall identify the maximum acceptable time for which critical functions and systems may be unusable.</li> </ol>	Strategy and policy	Article 17

	I'me maximum recovery time for the CCFa  €™s critical functions to be included in the business continuity policy shall not be higher than two hours. End of day procedures and payments shall be completed on the required time and day in all circumstances. <li>li&gt;A CCP shall take into account the potential overall impact on market efficiency in determining the recovery times for each function.</li>		
	<ol class="crrNumList"> <li>A CCP shall conduct a business impact analysis which is designed to identify the business functions which are critical to ensure the services of the CCP. The criticality of these functions to other institutions and functions in the financial infrastructure shall be part of the analysis.</li> <li>CCP shall use scenario based risk analysis which is designed to identify how various scenarios affect the risks to its critical business functions.</li> <li>Is assessing risks, a CCP shall take into account dependencies on external providers, including utilities services. A CCP shall take action to manage such dependencies through appropriate contractual and organisational arrangements.</li> <li>Business impact analysis and scenario analysis shall be kept up to date, shall be reviewed at least on an annual basis and following an incident or significant organisational changes. The analyses shall take into account all relevant developments, including market and technology developments.</li> </ol>	Business impact analysis	Article 18
ARTICLE	<pre>col class="crrNumList"&gt; <li>A CCP shall have in place arrangements to ensure continuity of its critical functions based on disaster scenarios. These arrangements shall at least address the availability of adequate human resources, the maximum downtime of critical functions, and fail over and recovery to a secondary site. </li> <li>A CCP shall maintain a secondary processing site capable of ensuring continuity of all critical functions of the CCP identical to the primary site. The secondary site shall have a geographical risk profile which is distinct from that of the primary site. </li> <li><li><li><li>&lt; CCP shall maintain or have an immediate access to a secondary business site, at least, to allow staff to ensure continuity of the service if the primary location of business is not available. </li> <li>&lt; li&gt;&lt; The need for additional processing sites shall be considered by the CCP, in particular if the diversity of the risk profiles of the primary and secondary sites does not provide sufficient confidence that the CCP' s business continuity objectives will be met in all scenarios. </li> <li>&lt; ol class="crrNumList"&gt; <li>A CCP shall</li> </li></li></li></li></pre>	Disaster	Article 19
	test and monitor its business continuity  policy and disaster recovery plan at regular intervals and after significant modifications or changes to the systems or related functions to ensure the business continuity policy achieves the stated objectives including the two hour maximum recovery		

SUBTITLE TITLE	BUSINESS CONTINUITY(Article 34 of Regulat: CHAPTER V	ion (EU) No 648/2	2012)
	<ol class="crrNumList"> <li>A CCP shall have a communication plan which documents the way in which the senior management, the board and relevant external stakeholders, including competent authorities, clearing members, clients, settlement agents, securities settlement and payment systems and trading venues, will be kept adequately informed during a crisis.</li>/li&gt; Scenario analysis, risk analysis, reviews and results of monitoring and tests shall be reported to the board. </ol>	Communication	Article 23
	<pre><ol class="crrNumList"> <li>A CCP shall have a crisis management function to act in case of an emergency. The crisis management procedure shall be clear and documented in writing. The board shall monitor the crisis management function and regularly receive and review reports on it.</li> <li>The crisis management function shall contain well-structured and clear procedures to manage internal and external crisis communications during a crisis event.</li> <li>Ii&gt; Following a crisis event, the CCP shall undertake a review of its handling of the crisis. The review shall, where relevant, incorporate contributions from clearing members and other external stakeholders.</li> </ol></pre>	Crisis management	Article 22
	<pre><ol class="crrNumList"> <li>A CCP shall regularly review and update it business continuity policy to include all critical functions and the most suitable recovery strategy for them. </li> <li>A CCP shall regularly review and update its disaster recovery plan to include the most suitable recovery strategy for all critical functions. </li> <li>Updates to the business continuity policy and disaster recovery plan shall take into consideration the outcome of the tests and recommendations of independent reviews and other reviews and of competent authorities. CCPs shall review their business continuity policy and disaster recovery plan after every significant disruption, to identify the causes and any required improvements to the CCP's operations, business continuity policy and disaster recovery plan.</li> </ol></pre>	Maintenance	Article 21
	time objective. Tests shall be planned and documented. <li><li><li><li><lp>Testing of the business continuity policy and disaster recovery plan shall fulfil the following conditions:  <li><li><li><li><li>involve scenarios of large scale disasters and switchovers between primary and secondary sites; </li> <li><li><li><li>include involvement of clearing members, external providers and relevant institutions in the financial infrastructure with which interdependencies have been identified in the business continuity policy. </li> <li></li></li></li></li></li></li></li></li></lp></li></li></li></li>	Testing and monitoring	Article 20

calculate the initial margins to cover the exposures arising from market movements for each financial instrument that is collateralised on a product basis, over the time period defined in Article 25 and assuming a time horizon for the liquidation of the position as defined in Article 26. For the calculation of initial margins the CCP shall at least respect the following confidence intervals:   col class="crrCharList">	Article 24
historical volatility capture a full range of market conditions, including periods of stress.	Article 25

		period defined in paragraph 1. <li>Ali&gt;Margin parameters for financial instruments without a historical observation period shall be based on conservative assumptions. A CCP shall promptly adapt the calculation of the required margins based on the analysis of the price history of the new financial instruments.</li> <li>A CCP shall promptly adapt the calculation of the required margins based on the analysis of the price history of the new financial instruments.</li> <li>A CCP shall define the time horizons for the liquidation period taking into account the characteristics</li>		
ART	ΓICLE	of the financial instrument cleared, the market where it is traded, and the period for the calculation and collection of the margins. These liquidation periods shall be at least: <ol class="crrCharList"> <li>five business days for OTC derivatives; </li> <li>two business days for financial instruments other than OTC derivatives. </li> <li></li></ol> li>two business days for financial instruments other than OTC derivatives. <ol class="crrCharList"> <li>for the determination of the adequate liquidation period, the CCP shall evaluate and sum at least the following:  <ol class="crrCharList"> <li>the longest possible period that may elapse from the last collection of margins up to the declaration of default by the CCP or activation of the default management process by the CCP; </li> <li>the estimated period needed to design and execute the strategy for the management of the default of a clearing member according to the particularities of each class of financial instrument, including its level of liquidity and the size and concentration of the positions, and the markets the CCP will use to close-out or hedge completely a clearing member position; </li> <li>di&gt; where relevant, the period needed to cover the counterparty risk to which the CCP is exposed. </li> <li>li&gt; ln evaluating the periods defined in paragraph 2, the CCP shall consider at least the factors indicated in Article 24(2) and the time period for the calculation of the historical volatility as defined in Article 25.</li> <li>  i &gt; lp &gt; Where a CCP clears OTC derivatives that have the same risk characteristics as derivatives executed on regulated markets or an equivalent third country market, it may use a time horizon for the liquidation period different from the one specified in paragraph 1, provided that it can demonstrate to its competent authority that:  <ol class="crrCharList"> <li>los </li> </ol></li></ol></li></ol>	Time horizons for the liquidation period	Article 26
		allow offsets or reductions in the required margin across the financial instruments that it clears if the price risk of one financial instrument or a set of financial instruments is significantly and reliably correlated, or based on equivalent statistical parameter of dependence, with the price risk of other financial instruments. <li>/li&gt; <li>The CCP shall document its approach on portfolio margining and it shall at least provide that the</li></li>		

	covered by the same default fund. By way of derogation, if a CCP can demonstrate in advance to its competent authority and to its clearing members how potential losses would be allocated among different default funds and has set out the necessary provisions in its rules, portfolio margining may be applied to financial instruments covered by different default funds. <li>default funds.</li> <li>li&gt;Where portfolio margining covers multiple instruments, the amount of margin reductions shall be no greater than 80 % of the difference between the sum of the margins for each product calculated on an individual basis and the margin calculated based on a combined estimation of the exposure for the combined portfolio. Where the CCP is not exposed to any potential risk from the margin reduction, it may apply a reduction of up to 100 % of that difference.</li> <li>li&gt;The margin reductions related to portfolio margining shall be subject to a sound stress test programme in accordance with Chapter XII.</li>	cfolio Article gining 27
	<ol></ol>	cyclicality Article 28
•	TITLE CHAPTER VI	
III II II	11	i

CONTENT	SUBTITLE	TITLE
<ol class="crrNumList"> <li>To determine the minimum size of default fund and amount of other financial resources necessary to satisfy the requirements of Articles 42 and 43 of Regulation (EU) No 648/2012, taking into account group dependencies, a CCP shall implement an internal policy framework for defining the types of extreme but plausible market conditions that could expose it to greatest risk.</li><li>The framework shall include a statement describing how the CCP defines extreme but plausible market conditions. It shall be fully documented and retained in accordance with Article 12.</li><li>The framework shall be discussed by the risk committee and approved by the board. The robustness of the framework and its ability to reflect market movements shall be subject to at least an annual review. The review shall be discussed by the risk committee and reported to the board.</li></ol>		Article 29
<ol class="crrNumList"> <li>The framework described in Article 29 shall reflect the risk profile of the CCP, taking account of crossborder and cross-currency exposures where relevant. It shall identify all the market risks to which a CCP would be exposed following the default of one or more clearing member, including unfavourable movements in the market prices of cleared instruments, reduced market liquidity for these instruments, and declines in the liquidation value of collateral. The framework shall also reflect additional risks to the CCP arising from the simultaneous failure of entities in the group of the defaulting clearing member. </li> <li>clearing member. </li> <li>li&gt; &gt;The framework shall individually identify all the markets to which a CCP is exposed in a clearing member default scenario. For each identified market the CCP shall specify extreme but plausible conditions based at least on:  <ol class="crrCharList"> <li>&lt; <p><ol class="crrCharList"> <li>&lt; <p><ol <="" class="crrCharList" p=""></ol></p></li> <li><ol 30="" <="" a="" as="" authority;="" available,="" been="" ccp="" color="" competent="" data="" decides="" exposed="" financial="" framework="" from="" greatest="" have="" historical="" i="" if="" instance="" is="" it="" its="" justify="" large="" long="" movements="" not="" of="" omission="" or="" past="" plausible,="" price="" recurrence="" reliable="" risk.="" shall="" that="" the="" to="" would="" years,=""> <li><ol> <li><ol> <li><ol><li><ol><li><ol><li><ol><li><ol><li><ol><li><ol><li><ol><li><ol><li><ol><li><ol><li><ol><li><ol><li><ol><li><ol><li><ol><li><ol><li><ol><li><ol><li><ol><li><ol><li><ol><li><ol><li><ol><li><ol><li><ol><li><ol><li><ol><li><ol><li><ol><li><ol><li><ol><li><ol><li><ol><li><ol><li><ol><li><ol><li><ol><li><ol><li><ol><li><ol><li><ol><li><ol><li><ol><li><ol><li><ol><li><ol><li><ol><li><ol><li><ol><li><ol><li><ol><li><ol><li><ol><li><ol><li><ol><li><ol><li><ol><li><ol><li><ol><li><ol><li><ol><li><ol><li><ol><li><ol><li><ol><li><ol><li><ol><li><ol><li><ol><li><ol><li><ol><li><ol><li><ol><li><ol><li><ol><li><ol><li><ol><li><ol><li><ol><li><ol><li><ol><li><ol><li>&lt;</li></ol></li></ol></li></ol></li></ol></li></ol></li></ol></li></ol></li></ol></li></ol></li></ol></li></ol></li></ol></li></ol></li></ol></li></ol></li></ol></li></ol></li></ol></li></ol></li></ol></li></ol></li></ol></li></ol></li></ol></li></ol></li></ol></li></ol></li></ol></li></ol></li></ol></li></ol></li></ol></li></ol></li></ol></li></ol></li></ol></li></ol></li></ol></li></ol></li></ol></li></ol></li></ol></li></ol></li></ol></li></ol></li></ol></li></ol></li></ol></li></ol></li></ol></li></ol></li></ol></li></ol></li></ol></li></ol></li></ol></li></ol></li></ol></li></ol></li></ol></li></ol></li></ol></li></ol></li></ol></li></ol></li></ol></li></ol></li></ol></li></ol></li></ol></li></ol></li></ol></li></ol></li></ol></li></ol></li></ol></li></ol></li></ol></li></ol></li></ol></li></ol></li></ol></li></ol></li></ol></li></ol></li></ol></li></ol></p></li></ol></li></ol>	Identifying extreme but plausible market conditions	Article 30
<pre><div class="crrArticle">The procedures described in Article 30 shall be reviewed by the CCP on a regular basis, taking into account all relevant market developments and the scale and concentration of clearing member exposures The set of historical and</div></pre>		

ARTICLE

	identify extreme but plausible market conditions shall be reviewed by the CCP, in consultation with the risk committee, at least	Reviewing extreme but plausible scenarios	Article 31
SUBTITLE	DEFAULT FUND(Article 42 of Regulation (EU) No	648/2012)	
TITLE	CHAPTER VII		

TITLE	CHAPTER VII		
	CONTENT	SUBTITLE	TITLE
	<pre><ol class="crrNumList"> <li>A CCP shall establish a robust liquidity risk management</li></ol></pre>		
	framework which shall include effective		
	operational and analytical tools to identify,		
	measure and monitor its settlement and funding flows on an ongoing and timely		
	basis, including its use of intraday liquidity.		
	CCPs shall regularly assess the design and		
	operation of their liquidity management framework, including considering the		
	results of the stress tests.		
	€™s liquidity risk management framework		
	shall be adequately robust to ensure that the CCP is able to effect payment and		
	settlement obligations in all relevant		
	currencies as they fall due, including where		
	appropriate intraday. A CCP's liquidity risk management framework shall also		
	include the assessment of its potential		
	future liquidity needs under a wide range of		
	potential stress scenarios. Stress scenario shall include the default of clearing		
	members according to Article 44 of		
	Regulation (EU) No 648/2012 from the date		
	of a default until the end of a liquidation period and the liquidity risk generated by		
	the CCP's investment policy and		
	procedures in extreme but plausible market		
	conditions. <li>The liquidity risk management framework shall include a</li>		
	liquidity plan which is documented and		
	retained in accordance with Article 12. The		
	minimum content of the liquidity plan shall include the CCP's procedures for:		
	<pre><ol class="crrCharList"> <li>managing and</li></ol></pre>		
	monitoring, at least on a daily basis, its		
	liquidity needs across a range of market scenarios;		
	liquid financial resources to cover its		
	liquidity needs and distinguish among the		
	use of the different types of liquid resources;		
	and valuation of the liquid assets available	Assessment	Article
	to the CCP and its liquidity needs;	of liquidity risk	32
	<pre><li>ionition   </li></pre> <pre><li>ionition   </li></pre> <pre><li>ionition   </li></pre> <pre></pre> <pre><pre></pre><pre></pre><pre></pre><pre></pre><pre></pre><pre></pre><pre></pre><pre></pre><pre></pre><pre></pre><pre></pre><pre>&lt;</pre></pre>	IISK	
	CCP's liquid financial resources should be available; <li><onsidering potential<="" td=""><td></td><td></td></onsidering></li>		
	liquidity needs stemming from clearing		
	members ability to swap cash for non-cash		
	collateral; <li>the processes in the event of liquidity shortfalls;</li>		
	replenishment of any liquid financial		
	resources it may employ during a stress		

ARTICL	approve the plan after consulting the risk committee. <li><li><l>&gt;<l>&gt;<l>&gt;<l>&gt;<l>&gt;<l>&gt;<l>&gt;<li></li><!--</th--><th></th><th></th></l></l></l></l></l></l></l></li></li>		
	with Chapter IV. <li>&lt;0l class="crrNumList"&gt; <li>A CCP shall maintain, in each relevant currency, liquid resources commensurate with its liquidity requirements, defined in accordance with Article 44 of Regulation (EU) No 648/2012 and Article 32 of this Regulation. These liquid resources shall be limited to:   No 648/2012 and Article 32 of this Regulation. These liquid resources shall be limited to:   Solution   Color   Color   Color   Color      Color   Color   Color      Color   Color      Color   Color      Color   Color    <p< th=""><th>Access to</th><th>Article</th></p<></li></li>	Access to	Article

	liquidity arrangements. <li>liquidity arrangements. </li> <li>li&gt; &lt; li&gt; A CCP shall periodically test its procedures to access pre-arranged funding arrangements. This may include drawing down test amounts of the commercial lines of credit, to check the speed of access to the resources and reliability of procedures. </li> <li>li&gt; &lt; li&gt; A CCP shall have detailed procedures within its liquidity plan for using its liquid financial resources to fulfil its payment obligations during a liquidity shortfall. The liquidity procedures shall clearly state when certain resources should be used. The procedures shall also describe how to access cash deposits or overnight investments of cash deposits, how to execute same-day market transactions, or how to draw on prearranged liquidity lines. These procedures shall be regularly tested. A CCP shall also establish an adequate plan for the renewal of funding arrangements in advance of their expiration. </li>		
	<pre><ol class="crrNumList"> <li>A CCP shall closely monitor and control the concentration of its liquidity risk exposure, including its exposures to the entities listed in Article 32(4) and to entities in the same group. </li> <li>A CCP' s liquidity risk management framework shall include the application of exposure and concentration limits. </li> <li>A CCP shall define processes and procedures for breaches of concentration limits. </li> </ol></pre>	Concentration risk	Article 34
SUBTITLE	LIQUIDITY RISK CONTROLS(Article 44 of Regule 648/2012)	lation (EU) No	
TITLE	CHAPTER VIII		

	CONTENT	SUBTITLE	TITLE
ARTICLE	<ol class="crrNumList"> <li>A CCP shall keep, and indicate separately in its balance sheet, an amount of dedicated own resources for the purpose set out in Article 45(4) of Regulation (EU) No 648/2012. </li> <li>A CCP shall calculate the minimum amount referred to in paragraph 1by multiplying the minimum capital, including retained earnings and reserves, held in accordance with Article 16 of Regulation (EU) No 648/2012 and Commission Delegated Regulation (EU) No 152/2013See page 37 of this Official Journal. by 25 %.</li> <li>Abr&gt;The CCP shall revise that minimum amount on a yearly basis. </li> <li>Ali&gt; Where the CCP has established more than one default fund for the different classes of financial instruments it clears, the total dedicated own resources calculated under paragraph 1 shall be allocated to each of the default funds in proportion to the size of each default fund, to be separately indicated in its balance sheet and used for defaults arising in the different market segments to which the default funds refer to. </li> <li>Ali&gt; No resources other than capital, including retained earnings and reserves, as referred to in Article 16 of Regulation (EU) No 648/2012 shall be used to comply with the requirement under paragraph 1. </li> </ol>	Calculation of the amount of the CCPâ €™s own resources to be used in the default waterfall	Article 35
	<pre><ol class="crrNumList"> <li>A CCP shall immediately inform the competent authority if</li></ol></pre>		

		CHRTITI	the amount of dedicated own resources held falls below the amount required in Article 35, together with the reasons for the breach and a comprehensive description in writing of the measures and the timetable for the replenishment of such amount. <li>Vhere a subsequent default of one or more clearing members occurs before the CCP has reinstated the dedicated own resources, only the residual amount of the allocated dedicated own resources shall be used for the purpose of Article 45 of Regulation (EU) No 648/2012.</li> <li>CCP shall reinstate the dedicated own resource at the least within one month from the notification under paragraph 1.</li> <li>DEFAULT WATERFALL(Article 45 of Regulation</li>	Maintenance of the amount of the CCPâ €™s own resources to be used in the default waterfall	Article 36
		TITLE	CHAPTER IX	1 (EU) NO 046/2	1012)
		•			
			CONTENT	SUBTITLE	TITLE
			<pre><div class="crrArticle">A CCP shall establish and implement transparent and predictable policies and procedures to assess and continuously monitor the liquidity of assets accepted as collateral and take remedial action where appropriate.                 Such a review shall also be carried out whenever a material change occurs that affects the CCP's risk exposure.</br></div></pre>	General requirements	Article 37
DOCUMENT	SECTION		<pre><div class="crrArticle"> For the purposes of Article 46(1) of Regulation (EU) No 648/2012, highly liquid collateral in the form of cash shall be denominated in one of the following: <ol class="crrCharList"> <li>a currency for which the CCP can demonstrate to the competent authorities that it is able to adequately manage the risk; </li> <li><li><li>a currency in which the CCP clears transactions, in the limit of the collateral required to cover the CCP's exposures in that currency.</li> </li></li></ol></div></pre>	Cash collateral	Article 38
			<pre><div class="crrArticle">For the purposes of Article 46(1) of Regulation (EU) No 648/2012,</div></pre>	Financial instruments	Article 39

procedures to monitor on a near to real time basis the credit quality, market liquidity and price volatility of each asset accepted as collateral. A CCP shall monitor on a regular

its valuation policies and procedures. Such

review shall also be carried out whenever a material change occurs that affects the CCP's risk exposure.
shall mark-to-market its collateral on a near to real time basis and, where not possible, a CCP shall be able to demonstrate to the competent authorities that it is able to manage the risks.

basis, and at least annually, the adequacy of Valuing

Article

40

collateral

ARTICLE	establish and implement policies and procedures to determine prudent haircuts to apply to collateral value. <li>Acceptaircuts shall recognise that collateral may need to be liquidated in stressed market conditions and take into account the time required to liquidate it. The CCP shall demonstrate to the competent authority that haircuts are calculated in a conservative manner to limit as far as possible procyclical effects. For each collateral asset, the haircut shall be determined taking in consideration the relevant criteria, including: Col class="crrCharList"&gt;&lt;  I &gt; &lt; I &gt; &lt; I &gt; &lt; I &gt;<!-- --> Col class="crrCharList"&gt;&lt; I &gt; &lt; I &gt; &lt; I &gt; &lt; I &gt; Col class="crrCharList"&gt;&lt; I &gt; &lt; I &gt; &lt; I &gt; &lt; I &gt; Col class="crrCharList"&gt;&lt; I &gt; &lt; I &gt; &lt; I &gt; &lt; I &gt; &lt; I &gt; Col class="crrCharList"&gt;&lt; I &gt; &lt; I &gt; &lt; I &gt; &lt; I &gt; &lt; I &gt;  Col class="crrCharList"&gt;&lt; I &gt; &lt; I &gt;  Col class="crrCharList"&gt;&lt; I &gt; &lt; I &gt;  Col class="crrCharList"&gt;&lt; I &gt; &lt; I &gt;  Col class="crrCharList"&gt;&lt; I &gt; &lt; I &gt;</li>	Haircuts	Article 41
	<pre><ol class="crrNumList"> <li>A CCP shall establish and implement policies and procedures to ensure that the collateral remains sufficiently diversified to allow its liquidation within a defined holding period without a significant market impact. The policies and the procedures shall determine the risk mitigation measures to be applied when the concentration limits specified in paragraph 2 are exceeded.</li> <li>CCP shall determine concentration limits at the level of: <ol> <li>di&gt;individual issuers;</li> <li>li&gt;type of issuer;</li> <li>li&gt;type of asset;</li> <li>each clearing member;</li> <li>li&gt; eli&gt; each clearing members.</li> <li>eli&gt; eli&gt; each clearing members.</li> <li>eli&gt; eli  each clearing members.</li></ol></li></ol></pre>		

|country; the liquidity and the price volatility of the financial instruments. A CCP shall ensure that no more than 10 % of its collateral is guaranteed by a single credit institution, or equivalent third country financial institution, or by an entity that is part of the same group as the credit institution or third country financial institution. Where the collateral received by the CCP in the form of limits commercial bank guarantees is higher than 50 % of the total collateral, this limit may be set up to 25 %. limits provided for in paragraph 2, a CCP shall include the total exposure of a CCP to an issuer, including the amount of the cumulative credit lines, certificates of deposit, time deposits, savings accounts, deposit accounts, current accounts, moneymarket instruments, and reverse repurchase facilities utilised by the CCP. These limits shall not apply to collateral held by the CCP in excess of the minimum requirements for margins, default fund or other financial resources. concentration limit for a CCP's exposure to an individual issuer, a CCP shall aggregate and treat as a single risk its exposure to all financial instruments issued by the issuer or by a group entity, explicitly guaranteed by the issuer or by a group entity, and to financial instruments issued by undertakings whose exclusive purpose is to own means of production that are essential for the issuer's business. shall monitor on a regular basis the adequacy of its concentration limit policies and procedures. A CCP shall review its concentration limit policy and procedure at least annually and whenever a material change occurs that affects the risk exposure of the CCP. competent authority and the clearing members of the applicable concentration limits and of any amendment to these limits. | If the CCP materially breaches a concentration limit set out in its policies and procedures, it shall inform the competent authority immediately. The CCP shall rectify

Concentration Article limits 42

SUBTITLE COLLATERAL(Article 46 of Regulation (EU) No 648/2012)

the breach as soon as possible.

**TITLE** | CHAPTER X

CONTENT	SUBTITLE	TITLE
<pre><div class="crrArticle">For the purposes of Article 47(1) of Regulation (EU) No 648/2012, debt instruments can be considered highly liquid, bearing minimal credit and market risk if they are debt instruments meeting each of the conditions set out in Annex II. </div></pre>	Highly liquid financial instruments	Article 43
<ol class="crrNumList"> <li> If a CCP is unable to deposit the financial instruments referred to in Article 45 or those posted to it as margins, default fund contributions or contributions to other financial resources, both by way of title transfer and security interest, with the operator of a securities settlement system that ensures the full</li></ol>		

protection of those instruments then such financial instruments shall be deposited with any of the following:<ol|class="crrCharList"> a central bank that ensures the full protection of those instruments and that enables the CCP prompt access to the financial instruments when required; an authorised credit institution as defined under Directive 2006/48/EC of the European Parliament and of the CouncilOJ L 177, 30.6.2006, p. 1. that ensures the full segregation and protection of those instruments, enables the CCP prompt access to the financial instruments when required and that the CCP can demonstrate has low credit risk based upon an internal assessment by the CCP. In performing such an assessment, the CCP shall employ a defined and objective methodology that shall not fully rely on external opinions and that takes into consideration the risk arising from the establishment of the issuer in a particular |country; a third country financial Highly institution that is subject to and complies secured with prudential rules considered by the arrangements Article for the relevant competent authorities to be at least as stringent as those laid down in Directive deposit of 2006/48/EC and which has robust accounting financial practices, safekeeping procedures, and instruments internal controls and that ensures the full segregation and protection of those instruments, enables the CCP prompt access to the financial instruments when required and that the CCP can demonstrate to have low credit risk based upon an internal assessment by the CCP. In performing such an assessment, the CCP shall employ a defined and objective methodology that shall not fully rely on external opinions and that takes into consideration the risk arising from the establishment of the issuer in a particular country. Where financial instruments are deposited in accordance with letter (b) or (c) of paragraph 1, they shall be held under arrangements that prevent any losses to the CCP due to the default or insolvency of the authorised financial institution. Highly secured arrangements for the deposit of financial instruments posted as margins, default fund contributions or contributions to other financial resources shall only allow the CCP to re-use these financial instruments where the conditions in Article 39(8) of Regulation (EU) No 648/2012 are met and where the purpose of the reuse is for making payments, managing the default of a clearing member or in the execution of an interoperable arrangement. class="crrNumList"> For the purposes of Article 47(4) of Regulation (EU) No 648/2012, where cash is deposited other than with a central bank then such deposit shall meet each of the following conditions: the deposit is in one of the following currencies: a currency the risks of which the CCP can demonstrate with a high level of confidence that it is able to manage;

## currency in which the CCP clears transactions, in the limit of the collateral ARTICLE received in that currency; deposit shall be placed with one of the following entities: class="crrRomanList"> an authorised credit institution as defined under Directive 2006/48/EC that the CCP can demonstrate to have low credit risk based upon an internal assessment by the CCP. In performing such assessment the CCP shall employ a defined and objective methodology that shall not fully rely on external opinions and that takes into consideration the risk arising from the establishment of the issuer in a particular country; a third country financial institution that is subject to and complies with prudential rules considered by the competent authorities to be at least as stringent as those laid down in Directive 2006/48/EC and which has robust accounting practices, safekeeping procedures, and internal controls and that the CCP can demonstrate to have low credit risk based upon an internal based upon an internal assessment by the CCP. In performing such assessment the CCP shall employ a defined and objective methodology that shall not fully rely on external opinions and that takes into consideration the risk arising from the establishment of the issuer in a particular |country. Where cash is maintained overnight in accordance with paragraph 1 then not less than 95 % of

Highly secured arrangements maintaining cash

Article

Article. class="crrNumList"> A CCP shall establish and implement policies and procedures to ensure that the financial instruments in which its financial resources are invested remain sufficiently diversified. A CCP shall determine concentration limits and monitor the concentration of its financial resources at the level of: individual financial instruments; types of financial instruments; individual issuers; types of issuers; arrangements as provided for in points (b) and (c) of Article 44(1) or in Article 45(2) are established. considering types of issuers a CCP shall take into account the following: <ol

such cash, calculated over an average period of one calendar month, shall be deposited through arrangements that ensure the collateralisation of the cash with highly liquid financial instruments meeting the requirements under Article 45, except the requirement at paragraph 1(c) of that

class="crrCharList"> geographic distribution; and multiple relationships that an entity may have with a CCP; the level of credit risk; exposures the CCP have to the  $\|$ Concentration  $\|$ Article issuer through products cleared by the CCP. The policies and the procedures shall determine the risk mitigation measures to be applied when the concentration limits are exceeded. When determining the concentration

limits

	imit for a CCPat."s exposure to an individual issuer or custodian, a CCP shall aggregate and treat as a single risk, the exposure to all financial instruments issued by, or explicitly guaranteed by, the issuer and all financial resources deposited with the custodian. <li>  A CCP shall monitor on a regular basis the adequacy of its concentration limit policies and procedures. In addition, a CCP shall review its concentration limit policy and procedure at least annually and whenever a material change occurs that affects the risk exposure of the CCP. </li> <li>  I &gt; I</li>	
j	<div class="crrArticle">Where collateral is received in the form of financial instruments in accordance with the provisions of Chapter X, only Articles 44 and 45 shall apply.</div>	Article 46

SUBTITLE INVESTMENT POLICY(Article 47 of Regulation (EU) No 648/2012)

TITLE CHAPTER XI

ARTIC	ARTICLE			TITLE
CONTENT	SUBTITLE	TITLE		
content    Content		TITLE	SUBITILE	
1111				
	CONTENT <ol class="crrNumList"> <li>A CCP shall conduct a comprehensive validation of its models, their methodologies and the liquidity risk management framework used to quantify, aggregate, and manage its risks. Any material revisions or adjustments to its models, their methodologies and the liquidity risk management framework shall be subject to appropriate governance, including seeking advice from the risk committee, and validated by a qualified and independent party prior to application. </li> <li></li> <li><li>&lt; CP's validation process</li> <li>shall be documented and at least shall specify the policies used to test the CCPâ €™s margin, default fund and other financial resources methodologies and framework for calculating liquid</li> </li></ol>	CONTENT       SUBTITLE         <0l	CONTENT    SUBTITLE   TITLE	CONTENT SUBTITLE TITLE    Colass = "crrNumList" >     Col

or adjustments to such policies shall be subject to appropriate governance, including seeking advice from the risk committee, and validated by a qualified and independent party prior to application. <li><li><li><li><li><li><l>&gt;<l>&gt;</l></l> comprehensive validation shall, at least, include the following: <li><la><la><la></la> class="crrCharList"&gt;</la></la></li></li></li></li></li></li></li> <th>Model Validation</th> <th>Article 47</th> <th>Models and programmes</th> <th>SECTION 1</th>	Model Validation	Article 47	Models and programmes	SECTION 1
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available or reliable, a || CCP shall address such pricing limitations and, at least, adopt conservative assumptions based on observed correlated or related markets and current behaviours of the market. Vhere pricing data is not readily available or reliable, the systems and valuation models used for this purpose shall be subject to appropriate governance, including seeking advice from the risk committee, and validation and testing. A CCP shall have its valuation models validated under a variety of market scenarios by a qualified and independent party to ensure that its models accurately produces appropriate prices, and where appropriate, it shall adjust its calculation of initial margins to reflect any identified model risk. CCP shall regularly conduct an assessment of the theoretical and empirical properties of its margin model for all the financial instruments that it clears. class="crrNumList"> A CCP shall have in place policies and procedures that detail the stress and back testing programmes it undertakes to assess the appropriateness, accuracy, reliability and resilience of the models and their methodologies used to calculate its risk control mechanisms including margin, default fund contributions, and other financial resources in a wide range of market conditions. CCP's nolicies and

procedures shall also detail the stress testing programme it undertakes to assess the appropriateness, accuracy, reliability and resilience of the liquidity risk management framework. <li>The policies and procedures shall include at least methodologies for the inclusion of the selection and development of appropriate testing, including portfolio and market data selection, the regularity of the tests, the specific risk characteristics of the financial instruments cleared, the analysis of testing results and exceptions and the relevant corrective measures needed. </li> <li></li> <li><li><li><li><li><li><li><li><li><li></li></li></li></li></li></li></li></li></li></li>	Testing programmes	Article 48	
performing all tests. 			
CONTENT	SUBTITLE	TITLE	
class="crrNumList"> <li>A CCP shall assess its margin coverage by performing an ex-post comparison of observed outcomes with expecte outcomes derived from the use of margin models. Such back testing analysis shall be performed each day in order to evaluate whether there are any testing exceptions to margin coverage. Coverage shall be evaluated on current positions for financial instruments, clearing members and take into account possible effect from portfolio margining and, where appropriate, interoperable CCPs. </li> <li></li> <li><li><li><li><li><li><li><li><li><li></li></li></li></li></li></li></li></li></li></li>	d d		

mi de th sig CC ba pr cle an cr. CC as te <1 pe ba an th co ris to th me te an av me kn cli cli re sh by me Su	fficient enough to stigate any strimental effect on e statistical gnificance. <li>CP shall consider in its ack testing ogramme, at least, ear statistical tests, ad performance iteria to be defined by CPs for the sessment of back sting results. </li> <li>CP shall eniodically report its ack testing results and analysis in a form at does not breach infidentiality to the sk committee in order seek their advice in e review of its margin odel. </li> <li>CP, ents. For all other ents back testing sults and analysis all be made available to the relevant clearing embers on request. It information shall aggregated in a form</li>	Back testing procedure	Article 49	Back testing	SECTION 2
te: an pc CC pr ac gi	ents shall only have cess to detailed back sting results and alysis for their own ortfolios. <li>CP shall define the ocedures to detail the tions it could take wen the results of ack testing analysis.</li> <li>c  </li>				
	CONTENT	SUBTITLE	TITLE		
as its va co his re ma hy un ma <1	ol  ass="crrNumList"> i>A CCP shall nduct sensitivity sts and analysis to  sess the coverage of margin model under rious market nditions using storical data from alised stressed arket conditions and pothetical data for urealised stressed arket conditions. i>A CCP shall use a de range of urameters and				

	parameters and assumptions of the	Sensitivity testing and analysis procedure	Sensitivity testing and analysis  SECTION 3	
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underlying of derivatives cleared by the CCP shall also be considered. <li>CCP shall periodically report its sensitivity testing results and analysis in a form that does not breach confidentiality to the risk committee in order to seek its advice in the review of its margin model. </li> <li>CCP shall define the procedures to detail the actions it could take given the results of sensitivity testing analysis. </li>			
CONTENT	SUBTITLE		
<pre><ol></ol></pre>			

Ш	including, but not	1		
	limited to, the technical			
	or financial failure of its			
	settlement banks,			
	nostro agents,	Stress	Article	
	custodian banks,	testing	51	
	liquidity providers, or	procedure		
	interoperable CCPs. <li>A CCP shall</li>			
	have the capacity to			
	adapt its stress tests			
	quickly to incorporate			
	new or emerging risks.			
	<li>A CCP shall</li>			
	consider the potential			
	losses arising from the			
	default of a client,			
	where known, which			
	clears through multiple			
	clearing members.			
	periodically report its			
	stress testing results			
	and analysis in a form			
	that does not breach			
	confidentiality to the			
	risk committee in order			
	to seek its advice in the			
	review of its models, its			
	methodologies and its liquidity risk			
	management			
	framework.			
	<li>Stress testing</li>			
	results and analysis			
	shall be made available			
	to all clearing members			
	and, where known to			
	the CCP, clients. For all other clients, back			
	testing results and			
	analysis shall be made			
	available by the			
	relevant clearing			
	members on request.			
	Such information shall			
	be aggregated in a form			
	that does not breach			
	confidentiality and clearing members and			
	clients shall only have			
	access to detailed			
	stress testing results			
	and analysis for their			
	own portfolios.			
	<pre><li>A CCP shall define the procedures to detail</li></pre>			
	the procedures to detail the actions it could take			
	given the results of			
	stress testing analysis.			
	<0l			
	class="crrNumList">			
	<li>A CCP shall</li>			
	identify, and have an			
	appropriate method for			
	measuring, relevant			
	risk factors specific to the contracts it clears			
	that could affect its			
	losses. A CCP's			
	stress tests shall, at			
Ш		I	II I	III

		µleast, take into account	1 11			
		risk factors specified				
		for the following type of financial instruments,				
		where applicable:				
		<ol> <li><ol> <li></li> </ol></li></ol>				
		class="crrCharList">				
		<pre><li>interest rate related contracts: risk</li></pre>				
		factors corresponding				
		to interest rates in each				
		currency in which the				
		CCP clears financial instruments. The yield				
		curve modelling shall				
		be divided into various				
		maturity segments in				
		order to capture variation in the				
		volatility of rates along				
		the yield curve. The				
		number of related risk factors shall depend on				
		the complexity of the				
		interest rate contracts				
		cleared by the CCP.				
		Basis risk, arising from less than perfectly				
		correlated movements				
		between government				
		and other fixed-income interest rates, shall be				
		captured separately;				
		<li>exchange rate</li>				
		related contracts: risk				
		factors corresponding to each foreign				
		currency in which the				
		CCP clears financial				
		instruments and to the exchange rate between				
		the currency in which				
		margin calls are made				
		and the currency in				
		which the CCP clears financial instruments;				
		contracts: risk factors				
		corresponding to the volatility of individual				
		equity issues for each				
		of the markets cleared				
		by the CCP and to the				
		volatility of various sectors of the overall				
		equity market. The				
		sophistication and	Risk			
				Article		
		technique for a given	stress test	52		
		market shall correspond to the CCPâ				
		€™s exposure to the				
		overall market as well				
		as its concentration in				
		individual equity issues in that market;				
		<li>commodity</li>				
		contracts: risk factors				
		that take into account the different categories			Stress	SECTION
		and sub-categories of			testing	4
		commodity contracts				

SECTION	and related derivatives cleared by the CCP, including, where appropriate, variations in the convenience yield between derivatives positions and cash positions in the commodity; <li><li><li><li><li><li><li><li><li><li></li></li></li></li></li></li></li></li></li></li>	
	risk.	
	class="crrNumList"> <li>A CCP's stress- testing programme shall ensure that its combination of margin, default fund contributions and other financial resources are sufficient to cover the default of at least the two clearing members to which it has the largest exposures under extreme but plausible market conditions. The stress</li>	

testing programme shall also examine potential losses resulting from the default of entities in the same group as the two clearing members to which it has the largest exposures under extreme but plausible market conditions. <li><li><li><li><li><li>&lt; A CCP's stresstesting programme shall ensure that its margins and default fund are sufficient to cover at least the default of the clearing member to which it has the largest exposures or of the second and third largest clearing members, if the sum of their exposures is larger in accordance with Article 42 of Regulation (EU) No 648/2012.</li> <li><li><li><li><li><li><li><li><li><li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li>	Stress testing total financial resources	Article 53	
class="crrNumList"> <li>A CCP's stress- testing programme of its liquid financial</li>			

it clears, so as to

CCP shall conduct tests on its haircuts in order to ensure collateral can be

promptly adapt
calculation of its
margin requirement to
appropriately account
for new market
conditions.

						level, it shall continuously review and test offsets among products. A CCP shall base such offsets on prudent and economically meaningful methodology that reflects the degree of price dependence between the products. In particular, a CCP shall test how correlations perform during periods of actual and hypothetical severe market conditions.		
class="crrNumList">	N	ECTION	SECTIOI	and use of		<li><li>&lt; A CCP shall have clear procedures to determine the amount of additional margin it may need to collect, including on an intraday basis, and to recalibrate its margin model where back testing indicates that the model did not perform as expected with the result that it does not identify the appropriate amount of initial margin necessary to achieve the intended level of confidence. Where a CCP has determined that it is necessary to call additional margin it shall do so by the next margin call. </li><li>&lt; A CCP shall evaluate the source of testing exceptions highlighted by its back tests. Depending on the source of exceptions, the CCP shall determine whether a fundamental change</li></li>		

acceptable level as soon as is practicable. <li></li> <li><li><li>A CCP shall, in reviewing its models, their methodologies and the</li></li></li>		
the tests show insufficient liquid financial resources, the CCP shall increase its liquid financial resources to an		
coverage of its financial resources to an acceptable level by the next margin call. Where the results of		
insufficient coverage of margin, default fund or other financial resources, a CCP shall increase overall		
or assumptions is necessary, on the basis of the sources of exceptions. <li>Vhere the results of the tests show an</li>		
methodologies or its liquidity risk management framework is required or if the recalibration of current parameters		
exceptions highlighted by its stress tests. The CCP shall determine whether a fundamental change to its models, their	Review of models using test results	Article 56

CONTENT	SUBTITLE	TITLE
<ol><li><ol< li=""></ol<></li></ol>		
class="crrNumList"> <li>A CCP shall conduct reverse stress tests which are designed to identify under which market conditions the combination of its margin, default fund and other financial resources may provide insufficient coverage of credit exposures and for which its liquid financial resources may be insufficient. When conducting such tests,</li>		

the limits of its liquidity managemen framework, resources at financial research <li>/li&gt; <li>/l</li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li></li>	rket hat go t are plausible ditions, in p determine its models, risk it its financial nd its liquid sources. CCP shall erse stress d to the s of the d of the lat it laring	Reverse stress tests	Article 57	Reverse stress tests	SECTION 6
CONTINUATION CONTINUATION CONTINUATION COPYS AND TOUR PROVIDENT OF THE	numList"> hall test its default to ensure th practical e. A CCP m exercises as testing of rocedures. CCP shall, sting of its tedures, es and ly adapt its to mitigate ainty. hall, aducting exercises, ll clearing there , clients televant liding le CCP's ated service	Testing default procedures	Article 58	Default procedures	SECTION 7

	providers, are adin			II	
	informed and know the procedures involved in				
	a default scenario.				
	CONTENT	SUBTITLE	TITLE		
	<ol> <li><ol> <li></li> <li></li></ol></li></ol>				
	class="crrNumList"> <li>A CCP shall</li>				
	conduct a				
	comprehensive validation of its models				
	and their				
	methodologies at least annually.				
	CCP shall conduct a				
	comprehensive validation of its liquidity				
	risk management				
	framework at least				
	annually. <li>A CCP shall conduct a full</li>				
	validation of its				
	valuation models at least annually.				
	<li><li>A CCP shall review</li></li>				
	the appropriateness of the policies specified in				
	Article 51 at least				
	annually. <li>A CCP shall analyse and</li>				
	monitor its model				
	performance and financial resources				
	coverage in the event of				
	defaults by back testing margin coverage at				
	least daily and				
	conducting at least daily stress testing				
	using standard and				
	predetermined parameters and				
	assumptions.				
	<li>A CCP shall analyse and monitor its liquidity</li>				
	risk management				
	framework by conducting at least				
	daily stress tests of its				
	liquid financial resources.				
	CCP shall conduct a				
	detailed thorough				
	analysis of testing				
	results at least on a monthly basis in order				
	to ensure its stress				
	testing scenarios, models and liquidity				
	risk management				
	framework, underlying parameters and				
	assumptions are		Anticla	Validation and testing	SECTION
	correct. Such analysis shall be conducted	Frequency	Article 59	frequency	8
	more frequently in				
	stressed market conditions, including				
	when the financial				
	instruments cleared or				

markets served in general display high volatility, become less liquid, or when the size or concentrations of positions held by its clearing members increase significantly or when it is anticipated that a CCP will encounter stressed market conditions. <li><li>Sensitivity analysis shall be conducted at least monthly, using the results of sensitivity tests. This analysis should be conducted more frequently when markets are unusually volatile or less liquid or when the size or concentrations of positions held by its clearing members increase significantly. </li> <li><li><li><li>&lt; CCP shall test offsets among financial instruments and how correlations perform during periods of actual and hypothetical severe market conditions at least annually. </li> <li>&lt; CCP's haircuts shall be tested at least monthly. </li> <li>&lt; Ii&gt;A CCP shall conduct reverse stress tests at least quarterly. </li> <li>&lt; Ii&gt;A CCP shall test and review its default procedures at least quarterly and perform simulation exercises at least east quarterly and perform simulation exercises at least and review its default procedures at least quarterly and perform simulation exercises at least and review its default procedures at least quarterly and perform simulation exercises at least and review its default procedures at least quarterly and perform simulation exercises at least and review its default procedures at least quarterly and perform simulation exercises at least and review its default procedures at least quarterly.</li> </li></li></li></li>				
least quarterly and perform simulation				
with Article 61. A CCP shall also perform simulation exercises				
following any material change to its default procedures.				
CONTENT	SUBTITLE	TITLE		
<pre><ol class="crrNumList"> <li>The time horizons used for stress tests shall be defined in accordance with Chapter VII and shall include forward-looking extreme but plausible market conditions.</li> <li>The historical time horizons used for back tests shall include data from at minimum the most recent year or as long as a CCP has been</li></ol></pre>	The time horizons	Article 60	Time horizons used when performing tests	SECTION 9

clearing the relevant financial instrument if that is less than a year.				
CONTENT	SUBTITLE	TITLE		
<pre><li>the circumstances in which action may be</li></pre>	Information to be publicly disclosed	Article 61	Public disclosure	SECTION 10
class="crrArticle">This Regulation shall enter into force on the twentieth day following that of its publication in the Official Journal of the European Union.  cor Annex I shall apply from three years after	Entry into force and application	Article 62		

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	SUBTITLE	REVIEW OF MOI 49 Regulation (E	DELS, STRESS TE EU) No 648/2012)	STING AN	ND BACK T	ESTING(Article
	TITLE	CHAPTER XII				