

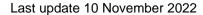
List of Central Counterparties authorised to offer services and activities in the Union

The Central Counterparties (CCPs) listed below have been authorised to offer services and activities in the Union in accordance with Regulation (EU) No 648/2012 of the European Parliament and of the Council of 4 July 2012 on OTC derivatives, central counterparties and trade repositories (EMIR).

The tables below are published by ESMA in accordance with Article 88(1) of EMIR.

Table 1: List of CCPs that have been authorised to offer services and activities in the Union

No	Name of the CCP	Identification Code of CCP (LEI)	Established in the Union or in a Third Country	Country of establishment	Competent authority (if established in the Union)	Date of initial authorisation
1	Nasdaq OMX Clearing AB	54930002A8LR1AA UCU78	In the Union	Sweden	Finansinspektionen	18 March 2014
2	European Central Counterparty N.V.	724500937F740MH CX307	In the Union	Netherlands	De Nederlandsche Bank (DNB)	1 April 2014
3	KDPW_CCP	2594000K576D5CQ XI987	In the Union	Poland	Komisja Nadzoru Finansowego (KNF)	8 April 2014
4	Eurex Clearing AG	529900LN3S50JPU 47S06	In the Union	Germany	Bundesanstalt für Finanzdienstleistungs aufsicht (Bafin)	10 April 2014
5	Cassa di Compensazione e Garanzia S.p.A. (CCG)	8156006407E264D2 C725	In the Union	Italy	Banca d'Italia	20 May 2014
6	LCH SA	R1IO4YJ0O79SMW VCHB58	In the Union	France	Autorité de Contrôle Prudentiel et de Résolution (ACPR)	22 May 2014
7	European Commodity Clearing	529900M6JY6PUZ9 NTA71	In the Union	Germany	Bundesanstalt für Finanzdienstleistungs aufsicht (Bafin)	11 June 2014





	LCH Ltd ¹	F226TOH6YD6XJB 17KS62	In the Union	United Kingdom	Bank of England	12 June 2014
8	Keler CCP	529900MHIW6Z8O TOAH28	In the Union	Hungary	Central Bank of Hungary (MNB)	4 July 2014
	CME Clearing Europe Ltd ²	6SI7IOVECKBHVY BTB459	In the Union	United Kingdom	Bank of England	4 August 2014
9	CCP Austria Abwicklungsstelle für Börsengeschäfte GmbH (CCP.A)	529900QF6QY66Q ULSI15	In the Union	Austria	Austrian Financial Market Authority (FMA)	14 August 2014
	LME Clear Ltd ³	213800L8AQD59D3 JRW81	In the Union	United Kingdom	Bank of England	3 September 2014
10	BME Clearing	5299009QA8BBE2 OOB349	In the Union	Spain	Comisión Nacional del Mercado de Valores (CNMV)	16 September 2014
11	OMIClear - C.C., S.A.	5299001PSXO7X2J X4W10	In the Union	Portugal	Comissão do Mercado de Valores Mobiliários (CMVM)	31 October 2014
11	ICE Clear Netherlands B.V. ⁴	7245003TLNC4R9X FDX32	In the Union	Netherlands	De Nederlandsche Bank (DNB)	12 December 2014
13	Athens Exchange Clearing House (Athex Clear)	213800IW53U9JMJ 4QR40	In the Union	Greece	Hellenic Capital Market Commission	22 January 2015
	ICE Clear Europe Limited (ICE Clear Europe) ⁵	5R6J7JCQRIPQR1 EEP713	In the Union	United Kingdom	Bank of England	19 September 2016
14	SKDD-CCP Smart Clear d.d (SKDD-CCP)	747800E0OA8S9C M7RR46	In the Union	Croatia	Hrvatska agencija za nadzor financijskih usluga (HANFA)	29 October 2021

¹ LCH Limited ceased being an authorized European Central Counterparty on Brexit day (i.e. the date on which the Treaties ceased to apply to and in the United Kingdom pursuant to Article 50(3) of the Treaty on European Union).

² CME's authorisation was partially renounced and withdrawn under Article 20 of EMIR on 23 June 2017 (some instruments were de-authorised as the CCP was winding down). The authorization was totally renounced and withdrawn on 12 October 2017. Please, see table 2 below and the <u>Public</u> Register for the clearing obligation under EMIR.

³ LME Clear Ltd ceased being an authorized European Central Counterparty on Brexit day (i.e. the date on which the Treaties ceased to apply to and in the United Kingdom pursuant to Article 50(3) of the Treaty on European Union).

⁴ Previously named Holland Clearing House B.V.

⁵ ICE Clear Europe Limited ceased being an authorized European Central Counterparty on Brexit day (i.e. the date on which the Treaties ceased to apply to and in the United Kingdom pursuant to Article 50(3) of the Treaty on European Union).



Table 1 bis: List of CCPs that have been granted an extension of authorisation

No	Name of the CCP	Identification Code of CCP (LEI)	Established in the Union or in a Third Country	Country of establishment	Competent authority (if established in the Union)	Date of extension of authorisation
1	CME Clearing Europe Ltd ⁶	6SI7IOVECKBHVY BTB459	In the Union	United Kingdom	Bank of England	9 January 2015 18 September 2015 30 October 2015
2	Nasdaq OMX Clearing AB	54930002A8LR1AA UCU78	In the Union	Sweden	Finansinspektionen	25 February 2015 ⁷
3	LCH Ltd ⁸	F226TOH6YD6XJB 17KS62	In the Union	United Kingdom	Bank of England	27 March 2015 21 July 2016 20 November 2017
4	Eurex Clearing AG	529900LN3S50JPU 47S06	In the Union	Germany	Bundesanstalt für Finanzdienstleistungs aufsicht (Bafin)	3 July 2015 18 Dec. 2017
5	BME Clearing	5299009QA8BBE2 OOB349	In the Union	Spain	Comisión Nacional del Mercado de Valores (CNMV)	21 July 2015 18 May 2017 7 March 2019 4 October 2021
6	KDPW_CCP	2594000K576D5CQ XI987	In the Union	Poland	Komisja Nadzoru Finansowego (KNF)	9 August 2016 31 October 2019
7	LCH SA	R1IO4YJ0O79SMW VCHB58	In the Union	France	Autorité de Contrôle Prudentiel et de Résolution (ACPR)	30 May 2017 29 November 2017 17 August 2022
8	OMIClear - C.C., S.A.	5299001PSXO7X2J X4W10	In the Union	Portugal	Comissão do Mercado de Valores Mobiliários (CMVM)	5 April 2018
9	ICE Clear Netherlands B.V. ⁹	7245003TLNC4R9X FDX32	In the Union	Netherlands	De Nederlandsche Bank (DNB)	13 July 2018

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⁶ CME's authorisation was partially renounced and withdrawn under Article 20 of EMIR on 23 June 2017 (some instruments were de-authorised as the CCP was winding down). The authorization was totally renounced and withdrawn on 12 October 2017. Please, see table 2 below and the Public Register for the clearing obligation under EMIR.

⁷ Nasdaq OMX Clearing AB's extension of the initial authorisation was renounced and withdrawn under Article 20 of EMIR on 3 March 2016

⁸ LCH Limited ceased being an authorized European Central Counterparty on Brexit day (i.e. the date on which the Treaties ceased to apply to and in the United Kingdom pursuant to Article 50(3) of the Treaty on European Union).

⁹ Previously named Holland Clearing House B.V.



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10	ICE Clear Europe Limited (ICE Clear Europe)10	5R6J7JCQRIPQR1 EEP713	In the Union	United Kingdom	Bank of England	31 July 2018
11	Athens Exchange Clearing House (Athex Clear)	213800IW53U9JMJ 4QR40 In the Union Greece		Hellenic Capital Market Commission	27 February 2020	
12	European Central Counterparty N.V.	724500937F740MH CX307	In the Union	Netherlands	De Nederlandsche Bank (DNB)	21 July 2021
13	CCP Austria Abwicklungsstelle für Börsengeschäfte GmbH (CCP.A)	529900QF6QY66Q ULSI15	In the Union	Austria	Austrian Financial Market Authority (FMA)	19 October 2021

¹⁰ ICE Clear Europe Limited ceased being an authorized European Central Counterparty on Brexit day (i.e. the date on which the Treaties ceased to apply to and in the United Kingdom pursuant to Article 50(3) of the Treaty on European Union).



Table 2: Classes of financial instruments covered by the CCP's authorisation¹¹

Please refer to the classes	Table 3 below for more	information on the	definition of	Nasdaq OMX Clearing AB	European Central Counterparty N.V.	KDPW_CC P	Eurex Clearing AG	CCG	LCH SA	European Commodity Clearing	LCH Ltd ¹²	Keler CCP	CME Clearing Europe Ltd ¹³
		Equity	OTC ¹⁴		1 April 2014	8 April 2014	10 April 2014	20 May 2014	22 May 2014		12 June 2014	4 July 2014	
	Securities (financial instruments		RM ¹⁵		1 April 2014	8 April 2014 9 August 2016	10 April 2014	20 May 2014	22 May 2014		12 June 2014	4 July 2014	
	referred to in points 1, 2 and 3 of Section C of Annex	Debt	отс			8 April 2014 9 August 2016	10 April 2014	20 May 2014	22 May 2014		12 June 2014	4 July 2014	
	I of MiFID)	Debt	RM			8 April 2014 9 August 2016	10 April 2014	20 May 2014	22 May 2014			4 July 2014	
		Equity	отс	18 March 2014	21 July 2021						12 June 2014		
MiFID			RM	18 March 2014	21 July 2021	8 April 2014	10 April 2014	20 May 2014	22 May 2014		12 June 2014	4 July 2014	
financial instruments			отс	18 March 2014			10 April 2014				12 June 2014		
	Derivatives (financial	Debt	RM	18 March 2014		8 April 2014	10 April 2014					4 July 2014	
	instruments referred to in points 4 to 10 of	Interest Rate	отс	18 March 2014		8 April 2014 9 August 2016	10 April 2014				12 June 2014		4 August 2014 ¹⁶
	Section C of Annex I of MiFID)		RM	18 March 2014		8 April 2014	10 April 2014				21 July 2016	4 July 2014	18 September 2015 ¹⁷
		Inflation Rate	ОТС				3 July 2015				27 March 2015		
		milation Rate	RM										
		Credit	отс						22 May 2014 30 May 2017				

¹¹ Authorisation is granted on the basis of activities or services which share a common risk profile. Therefore, an extension of authorisation would be needed where the CCP intends to undertake additional activities or services which expose the CCP to new or increased risks, e.g. where the CCP intends to provide clearing services in respect of a class of financial instruments with a different risk profile or that has material differences from the CCP's existing product set, even where the additional activity service falls within one of the categories above for which the CCP has already received authorisation.

¹² LCH Limited ceased being an authorized European Central Counterparty on Brexit day (i.e. the date on which the Treaties ceased to apply to and in the United Kingdom pursuant to Article 50(3) of the Treaty on European Union).

¹³ CME's authorisation was partially renounced and withdrawn under Article 20 of EMIR on 23 June 2017 (some instruments were de-authorised as the CCP was winding down). The authorization was totally renounced and withdrawn on 12 October 2017. Please, see the Public Register for the clearing obligation under EMIR.

¹⁴ Over The Counter (OTC): the execution of the security or derivative does not take place on a regulated market as within the meaning of Article 4(1)(14) of Directive 2004/39/EC or on a third country market considered as equivalent to a regulated market in accordance with Article 19(6) of Directive 2004/39/EC (Article 2(7) of EMIR).

¹⁵ Regulated Market (RM): the execution of the security or derivative takes place on a regulated market as within the meaning of Article 4(1)(14) of Directive 2004/39/EC or on a third country market considered as equivalent to a regulated market in accordance with Article 19(6) of Directive 2004/39/EC (Article 2(7) of EMIR)

¹⁶ Authorisation was renounced and withdrawn under Article 20 of EMIR for these instruments on 23 June 2017.

¹⁷ Authorisation was renounced and withdrawn under Article 20 of EMIR for these instruments on 23 June 2017.





Please refer to the classes	Table 3 below for more	information on the	definition of	Nasdaq OMX Clearing AB	European Central Counterparty N.V.	KDPW_CC P	Eurex Clearing AG	CCG	LCH SA	European Commodity Clearing	LCH Ltd ¹²	Keler CCP	CME Clearing Europe Ltd ¹³
									29 Nov. 2017 29 Nov. 2017 17 Aug. 2022				
			RM										
		0	OTC	25 February 2015 ¹⁸			18 Dec. 2017				12 June 2014		
		Currencies	RM	25 February 2015 ¹⁹		8 April 2014	10 April 2014		22 May 2014			4 July 2014	4 August 2014 ²⁰
		0	отс	18 March 2014						11 June 2014	12 June 2014		4 August 2014 ²¹
		Commodities		18 March 2014			10 April 2014	20 May 2014	22 May 2014	11 June 2014	12 June 2014	4 July 2014	4 August 2014 ²²
		Emission/Clim		18 March 2014						11 June 2014	12 June 2014		
		atic	RM	18 March 2014		31 October 2019	10 April 2014 ²³			11 June 2014			30 October 2015 ²⁴
		Freight	отс							11 June 2014	12 June 2014		4 August 2014 ²⁵
		Freight	RM	7 April 2014 ^{26 27}						11 June 2014	12 June 2014		
Other	Domo	Equity	ОТС	18 March 2014		8 April 2014	10 April 2014	20 May 2014	22 May 2014		12 June 2014		
Other	Repo	Debt	RM					20 May 2014					
Other	Securities Lending	Equity Debt	отс				10 April 2014 ²⁸						
Other	Collateralised € Deposits	N.A.	отс					20 May 2014					
Other	Derivatives that are not MiFID financial instruments	Commodities, Emission/ Climatic, Freight								11 June 2014		4 July 2014	
Other	Assets that are not MiFID	Commodities, Emission/ Climatic,		18 March 2014			18 Dec. 2017			11 June 2014	20 Nov. 2017	4 July 2014	9 Jan. 2015²⁹

 $^{^{\}rm 18}$ Authorisation was renounced and withdrawn under Article 20 of EMIR on 3 March 2016.

¹⁹ Authorisation was renounced and withdrawn under Article 20 of EMIR on 3 March 2016.

²⁰ Authorisation was renounced and withdrawn under Article 20 of EMIR for these instruments on 30 June 2017.

²¹ Authorisation was renounced and withdrawn under Article 20 of EMIR for these instruments on 23 June 2017.

²² Authorization was renounced and withdrawn under Article 20 of EMIR for these instruments on 12 October 2017.

²³ Within this class, the authorisation of some products is limited until 31 July 2014.

²⁴ Authorisation was renounced and withdrawn under Article 20 of EMIR for these instruments on 23 June 2017.

²⁵ Authorisation was renounced and withdrawn under Article 20 of EMIR for these instruments on 23 June 2017.

²⁶ The class was covered by the initial authorisation of the CCP. However, this class was only introduced to the CCP product set as of 7 April 2014 following the merger with NOS Clearing.

²⁷ Authorisation was renounced and withdrawn under Article 20 of EMIR for these instruments on 21 January 2019.

²⁸ Authorization was renounced and withdrawn under Article 20 of EMIR for these instruments on 15 November 2021.

²⁹ Authorisation was renounced and withdrawn under Article 20 of EMIR for these instruments on 23 June 2017.



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Please refer to the classes	Please refer to Table 3 below for more information on the definition of the classes				European Central Counterparty N.V.	KDPW_CC P	Eurex Clearing AG	CCG	LCH SA	European Commodity Clearing	LCH Ltd ¹²	Keler CCP	CME Clearing Europe Ltd ¹³
	financial Freight/ instruments Currencies												



Table 2 (continued): Classes of financial instruments covered by the CCP's authorisation³⁰

Please refer to classes	Table 3 below for more	information on the	definition of the	CCP.A	LME Clear Ltd ³¹	BME Clearing	OMIClear	ICE Clear Netherlands B.V. ³²	Athex Clear	ICE Clear Europe ³³	SKDD-CCP
	Securities	Equity	OTC ³⁴			21 July 2015					29 October 2021
	(financial instruments referred to in	Equity	RM ³⁵	14 August 2014		21 July 2015			22 January 2015		29 October 2021
	points 1, 2 and 3 of Section C of Annex	Debt	ОТС			16 September 2014					29 October 2021
	I of MiFID)	Dept	RM	14 August 2014		16 September 2014			22 January 2015		29 October 2021
	Derivatives (financial	Equity	отс					12 December 2014			
		1. 3	RM			16 September 2014		13 July 2018	22 January 2015	19 September 2016	
		Debt Interest Rate	ОТС								
MiFID financial			RM			16 September 2014				19 September 2016	
instruments			отс			21 July 2015					
	instruments referred to in		RM							19 September 2016	
	points 4 to 10 of Section C of Annex I of MiFID)	Inflation Rate	ОТС								
	TOT WIII 1D)	Illiation Rate	RM								
		One dia	ОТС							19 September 2016	
		Credit	RM								
		Currencies	отс							19 September 2016	
		Currencies	RM						22 January 2015		

³⁰ Authorisation is granted on the basis of activities or services which share a common risk profile. Therefore, an extension of authorisation would be needed where the CCP intends to undertake additional activities or services which expose the CCP to new or increased risks, e.g. where the CCP intends to provide clearing services in respect of a class of financial instruments with a different risk profile or that has material differences from the CCP's existing product set, even where the additional activity service falls within one of the categories above for which the CCP has already received authorisation.

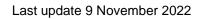
³¹ LME Clear Ltd ceased being an authorized European Central Counterparty on Brexit day (i.e. the date on which the Treaties ceased to apply to and in the United Kingdom pursuant to Article 50(3) of the Treaty on European Union).

³² Previously named Holland Clearing House B.V.

³³ ICE Clear Europe Limited ceased being an authorized European Central Counterparty on Brexit day (i.e. the date on which the Treaties ceased to apply to and in the United Kingdom pursuant to Article 50(3) of the Treaty on European Union).

³⁴ Over The Counter (OTC): the execution of the security or derivative does not take place on a regulated market as within the meaning of Article 4(1)(14) of Directive 2004/39/EC or on a third country market considered as equivalent to a regulated market in accordance with Article 19(6) of Directive 2004/39/EC (Article 2(7) of EMIR)

³⁵ Regulated Market (RM): the execution of the security or derivative takes place on a regulated market as within the meaning of Article 4(1)(14) of Directive 2004/39/EC or on a third country market considered as equivalent to a regulated market in accordance with Article 19(6) of Directive 2004/39/EC (Article 2(7) of EMIR).





Please refer to classes	Table 3 below for more	e information on the	e definition of the	CCP.A	LME Clear Ltd ³¹	BME Clearing	OMIClear	ICE Clear Netherlands B.V. ³²	Athex Clear	ICE Clear Europe ³³	SKDD-CCP
			ОТС		3 September 2014	18 May 2017	31 October 2014			31 July 2018	
		Commodities	RM		3 September 2014	16 September 2014	31 October 2014		22 January 2015 27 February 2020	19 September 2016	
		Emission/Clim	ОТС								
		atic	RM							19 September 2016	
		Freight	ОТС								
		i reigiit	RM							19 September 2016	
Other	Repo	Equity	ОТС			16 September 2014					
Other	Керо	Debt	RM			16 September 2014					
Other	Securities Lending	Equity Debt	ОТС						22 January 2015		
Other	Collateralised € Deposits	N.A.	ОТС								
Other	Derivatives that are not MiFID financial instruments	Commodities, Emission/ Climatic, Freight				18 May 2017	5 April 2018			31 July 2018	
Other	Assets that are not MiFID financial instruments	Commodities, Emission/ Climatic, Freight, Currencies		19 October 2021		18 May 2017 7 March 2019 4 October 2021				19 September 2016	



Table 3: Definition of the classes of financial instruments covered by the CCP's authorisation

				Definitions
		E avvite v	отс	Equity securities (including indices of equity securities) the execution of which does not take place on a regulated market as within the meaning of Article 4(1)(14) of MiFID
	Securities	Equity	RM	Equity securities (including indices of equity securities) the execution of which takes place on a regulated market as within the meaning of Article 4(1)(14) of MiFID
		Debt	ОТС	Debt securities the execution of which does not take place on a regulated market as within the meaning of Article 4(1)(14) of MiFID
		Debt	RM	Debt securities the execution of which takes place on a regulated market as within the meaning of Article 4(1)(14) of MiFID
		Equity	отс	Derivative contracts relating to equity securities (including indices of equity securities) which are OTC derivative contracts as within the meaning of Article 2(7) of Regulation 648/2012
		Equity	RM	Derivative contracts relating to equity securities (including indices of equity securities) the execution of which takes place on a regulated market as within the meaning of Article 4(1)(14) of MiFID
		5.1.	отс	Derivative contracts relating to debt instruments which are OTC derivative contracts as within the meaning of Article 2(7) of Regulation 648/2012
		Debt	RM	Derivative contracts relating to debt instruments the execution of which takes place on a regulated market as within the meaning of Article 4(1)(14) of MiFID
nts		Interest	OTC	Derivative contracts relating to interest rates which are OTC derivative contracts as within the meaning of Article 2(7) of Regulation 648/2012
rume		Rate	RM	Derivative contracts relating to interest rates the execution of which takes place on a regulated market as within the meaning of Article 4(1)(14) of MiFID
MiFID financial instruments		Inflation	отс	Derivative contracts relating to inflation rates or other economic variables which are OTC derivative contracts as within the meaning of Article 2(7) of Regulation 648/2012
ancia		Rate	RM	Derivative contracts relating to inflation rates or other economic variables the execution of which takes place on a regulated market as within the meaning of Article 4(1)(14) of MiFID
D fin	Derivatives	Credit	отс	Derivative contracts relating to the transfer of credit risk which are OTC derivative contracts as within the meaning of Article 2(7) of Regulation 648/2012
MiFI	Bonvanvoo	Credit	RM	Derivative contracts relating to the transfer of credit risk the execution of which takes place on a regulated market as within the meaning of Article 4(1)(14) of MiFID
			ОТС	Derivative contracts relating to currencies which are OTC derivative contracts as within the meaning of Article 2(7) of Regulation 648/2012
		Currencies	RM	Derivative contracts relating to currencies the execution of which takes place on a regulated market as within the meaning of Article 4(1)(14) of MiFID
		Commoditi	отс	Derivative contracts relating to commodities which are OTC derivative contracts as within the meaning of Article 2(7) of Regulation 648/2012
		es	RM	Derivative contracts relating to commodities the execution of which takes place on a regulated market as within the meaning of Article 4(1)(14) of MiFID
		Emission/	отс	Derivative contracts relating to climatic variables or emission allowances which are OTC derivative contracts as within the meaning of Article 2(7) of Regulation 648/2012
		Climatic	RM	Derivative contracts relating to climatic variables or emission allowances the execution of which takes place on a regulated market as within the meaning of Article 4(1)(14) of MiFID
		Factor	OTC	Derivative contracts relating to freight rates which are OTC derivative contracts as within the meaning of Article 2(7) of Regulation 648/2012
		Freight	RM	Derivative contracts relating to freight rates the execution of which takes place on a regulated market as within the meaning of Article 4(1)(14) of MiFID
Other				Services in respect of the clearing of instruments which are not a financial instrument under Section C of Annex I of MiFID