



Collateral Operations
Frequently Asked Questions

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Intro

1. Who are Collateral Operations and what are their key responsibilities?

Collateral Operations are a team consisting of Cash and Non-Cash Collateral Management, SwapAgent Operations, Collateral Client Services, Reconciliations and Change Management teams. The department spans three time zones, with teams in Sydney, London and New York.

The key responsibilities of Collateral Operations are:

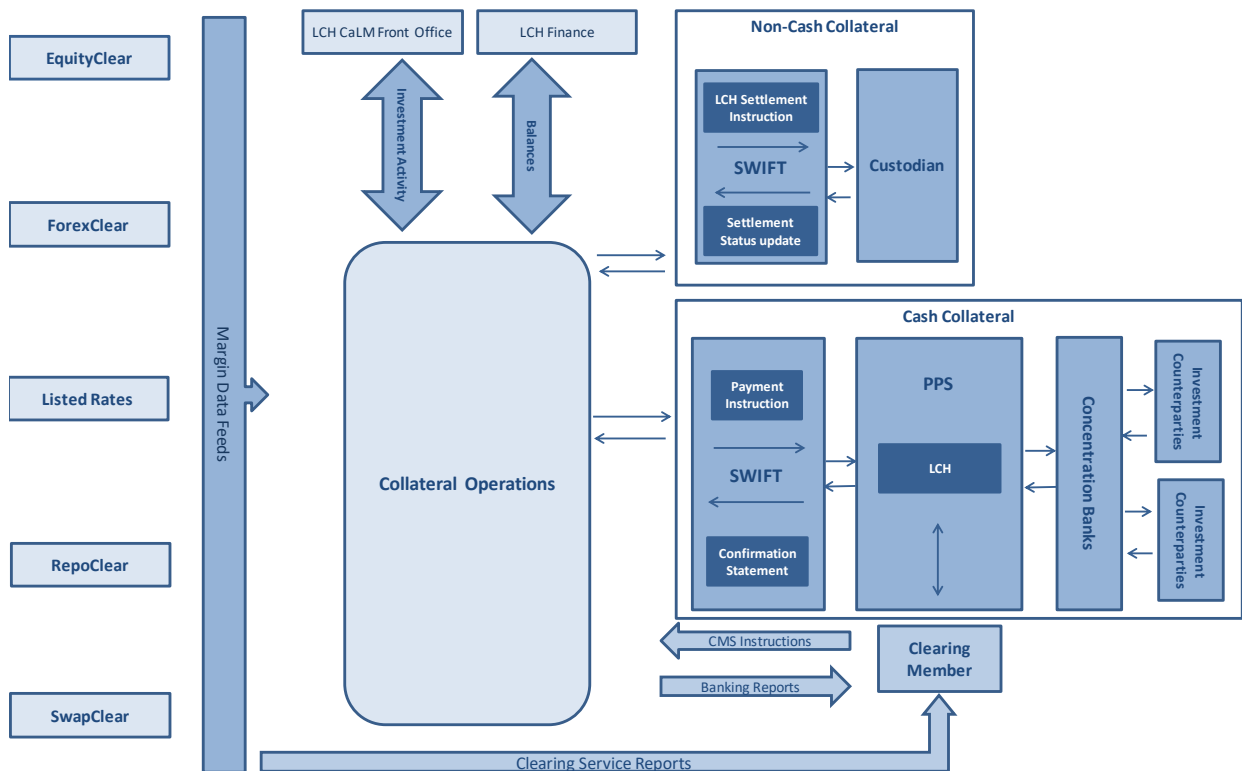
- Ensuring that Clearing Members' liabilities across all services are covered in line with service expectation
- Settlement of Front Office activity
- Provide best in class Collateral Client Service
- Reconciliation of LCH accounts

2. What are Collateral Operations hours of support and contact details?

Collateral Operations' hours of support are from 07:00 – 22:00 London time (02:00-17:00 New York time). SwapAgent Operations' hours of support are from 08:00 – 17:00 London time.

	Contact	Telephone	Email
Global Group Contact	Collateral Operations and Client Services	+44 207 426 7505	Collateral.ClientServices@LCH.com
Escalation	Nick McMillan UK Head of Collateral Operations	+44 207 426 7283	Nick.McMillan@LSEG.com
	Charles Barthelemy US Head of Collateral Operations	+1 212 513 5620	Charles.Barthelemy@LSEG.com
	Joe Young Manager – SwapAgent Operations and Collateral Client Services	+44 207 426 7224	Joseph.Young@LSEG.com
	Ashley Miles Manager – Cash Collateral	+44 207 426 7923	Ashley.Miles@LSEG.com
	Stephen Woodley Manager – Non Cash Collateral	+44 207 426 7576	Stephen.Woodley@LSEG.com

3. Is there a diagram that explains the Collateral Operations flow?



Please see above an illustration of the Collateral Operations flow. It is possible to see all the Clearing Services to the left side of the diagram. The Clearing Services are responsible for the calculation of Clearing Members liabilities resulting from trading activity. In the centre of the diagram sits Collateral Operations – this is where all Clearing Members assets are held and valued. This can be in the form of cash and non-cash collateral. The key process which Collateral Operation undertakes is known as ‘Cover Distribution’ which is in effect distributing Clearing Members cover (held in the form of cash and non-cash collateral) against their liabilities calculated by the trading activity within the Clearing Services.

Following the completion of the Cover Distribution process – Collateral Operations will know whether the Clearing Member had sufficient assets to cover their liabilities or there were insufficient assets to cover the liabilities calculated. In the latter scenario, a shortfall would be calculated and a margin call would be sent equalling the shortfall. Following the completion of this process, a suite of Banking reports are published capturing the calculation and resulting instructions.

The mechanism with which Collateral Operations instruct cash movements is called the Protected Payment System (PPS). This can be seen to the right of the diagram.

PPS requires Clearing Members to setup cash accounts at designated PPS banks for each currency in which physical settlement of margin calls will occur. LCH will also have cash accounts setup at each currency at all of the PPS banks. When LCH issues a margin call, it sends SWIFT messages to the Clearing Members PPS bank to debit their PPS account and credit the LCH account held at the same PPS bank. The key element of this process is that LCH has debit authority on all the Clearing

Members PPS accounts. The PPS bank therefore automatically debits the Clearing Members account and credits the LCH account held at the same PPS bank.

Equally, if following the Cover Distribution process, the Clearing Member has greater assets than liabilities, then providing it is before 09:30 London time (New York time for FCMs), it can be paid back. In this scenario, LCH follows the same process but sends a credit instruction to the Clearing Members PPS account debiting the LCH PPS account at the same PPS bank.

The Cover Distribution process is run as part of the end of day (EOD) process, which reflects the previous day's trading activity. Cover Distribution is also run at scheduled and ad-hoc times throughout the business day as part of the intraday (ITD) process.

Each time the Cover Distribution process is run, LCH must then re-balance all the LCH PPS accounts to zero by crediting any deficit balances (resulting from PPS payments) and sweeping any surplus balances (resulting from PPS calls). This process is called the Concentration Process. LCH has a concentration account in each currency which facilitates the re-balancing process. It is the concentration accounts which the LCH Front Office use to understand the cash balances which need to be invested.

Clearing Members can also lodge non-cash collateral with LCH to cover their margin requirement. Please note however that realised variation margin cannot be covered by non-cash collateral as it must be met in cash, in the currency of the underlying contract. The non-cash collateral process can be seen to the upper right of the diagram. Clearing Members need to inform LCH of what they intend to lodge in the Collateral Management System (CMS).

Following approval from LCH, Clearing Members then need to enter the instruction at the relevant Custodian. Non-cash collateral cannot be called on demand and therefore all non-cash collateral must have settled at the relevant custodian for it to be used during Cover Distribution.

The flow located within the top middle of the diagram reflect the Front Office investment activity from the Concentration Accounts (new deals and maturities). The LCH Finance team also consume all the account balances held within the incumbent LCH Banking System to reconcile with external applications.

Banking Reports

4. How do I access Banking Reports?

Banking reports are available via the LCH Portal which can be accessed via the following link

<https://clearingservices.lchclearnet.com/portal/group/lch/home>

5. How long are my Banking reports stored for?

Banking reports are stored for thirty business days.

6. Can you please provide historical Banking reports?

Please be advised that it is the Clearing Member's responsibility to save down their Banking reports each day. As a result, Collateral Ops are unable to provide historical Banking Reports.

7. What is the difference between a 'posting' and a 'PPS Call/Pay?'

A posting is an entry against your cash balance with LCH. A PPS Call/Pay is also a posting as it affects your cash balance held with LCH although a PPS call/pay results also results in a physical debit/credit at your PPS bank.

8. Is there a reporting pack which explains the Banking Reports?

Within the Collateral Management section of the LCH website, a Banking Reports Reference Guide is provided. This provides annotated examples of the Banking Reports per Clearing Service. Please access the guide through the following link:

<https://www.lch.com/index.php/risk-collateral-management/ltd-collateral-management/ltd-collateral-management-system>

9. Where can I find a snapshot of my liabilities?

Collateral Operations only report liabilities calculated in the EOD process.

- Reports 21/31/19 report Initial Margin
- Report 22 reports Variation Margin

All ITD liabilities are reported within the respective Clearing Service reports

Please note that Additional Margin details should be obtained from the respective Clearing Service reports, rather than Banking reports. (e.g. DFAM for SwapClear members is detailed in Report 156c)

10. Where can I see how a margin call was calculated?

Collateral Operations only report how EOD calls are calculated. The calculation of EOD margin calls are reported in Report 19.

All ITD margin can be calculated using the respective Clearing Services reports. Please contact the relevant clearing service for further details.

<https://www.lch.com/services>

11. Where can I see margin calls sent by LCH?

All margin calls sent by LCH are displayed in Report 33a. Clearing Members need to check Report 33a ITD as it is updated periodically throughout the business day.

A courtesy email can also be generated for all ITD margin calls. Please refer to Collateral Preferences section for further details.

12. Which Banking reports are run ITD?

The following Banking reports are run ITD:

- Report 22a – reports all Non-Cover Cash postings
- Report 33a – reports all margin calls initiated
- Report 33b – reports ITD PPS Aggregation
- Report 36 – reports Non Cash Collateral Holdings
- Report 46 – reports Cash Collateral Holdings

13. When are the Banking Reports published?

All EOD Banking reports (Rep19/20/21/22/29/31/32/36a/46a/50) are made available by 07:00 London time.

ITD Banking reports (Rep33a/33b/22a/36/46) are run periodically throughout the business day.

14. Is there a matrix explaining what all the collateral accounts/subaccounts represent?

Collateral Sub Account	Description
B	House Buffer (Additional Margin)
C	Client
E	Client Buffer (Additional Margin)
F	Default Fund
H	House
I	House AUD VM (SwapClear only)
L	SwapClear Client VM
O	Omnibus Client
P	Client Excess Buffer (House funds)
Q	Warehouse Cash on FX Options
R	Resource Fund for Sponsored Clearing
S	Individually Segregated Client (ISA)
V	Indirect Client

Collateral Preferences**15. What are Collateral Preferences?**

LCH provides clearing members with the opportunity to configure a number of collateral preferences. These preferences allow members to tailor their collateral setup supporting individual collateral business models.

These preferences consist of three categories of configuration:

1. Banking Preferences

- Currency Utilisation

The order with which end of day (EOD) cash balances held with LCH are used when covering the EOD margin.

- End of Day Margin Call Currency

The currency in which EOD IM margin calls are generated.

- Auto-repay

Whether any excess cash balances calculated as part of the EOD are automatically repaid.

- PPS Aggregation

Whether swift messages are aggregated reducing swift traffic costs. For further information please visit the link below

https://www.lch.com/system/files/media_root/pps-aggregation.pdf

The Banking Preferences can all be configured by populating and returning the Banking Preferences Form. Please access this form from the downloads section through the following link:

<https://www.lch.com/risk-collateral-management/ltd-collateral-management/ltd-acceptable-collateral>

2. ITD Preferred Call Currency

Allows clearing members to choose the currency in which ITD margin calls are generated.

Click the link below for the 'LTD Preferred Currency' online form available within the LTD Acceptable Cash area of the website.

<https://www.lch.com/risk-collateral-management/ltd-collateral-management/ltd-acceptable-collateral/ltd-acceptable-1>

3. ITD Email Notification

Allows clearing members to add a group email address, which is notified in the event of an ITD margin call.

The ITD Email Notification address can be added/updated by populating and returning the ITD Email Nomination Form. Please access this form from the downloads section through the following link:

<https://www.lch.com/risk-collateral-management/ltd-collateral-management/ltd-acceptable-collateral>

The Collateral Management System (CMS)

16. What is CMS?

CMS is LCH's on on-line collateral management solution, which enables efficient management of your collateral.

CMS enables Clearing Members to:

- Instruct movements of securities to/from the Clearing House or transfer securities between mnemonics and sub accounts
- Instruct movements of cash to/from the Clearing House or transfer cash between mnemonics and sub accounts
- Instruct and update Triparty collateral transactions
- View on-line security, cash and Triparty balances and headroom
- See on-line liabilities by account and market and collateral valuations for cash, securities and Triparty
- Receive email notifications of instructions and instruction status updates
- Export instruction and balance data to .csv files
- View End of Day Cover utilisation and Margin call Currency preferences

For further details please refer to The Collateral Management System LCH webpage:
<https://www.lch.com/risk-collateral-management/ltd-collateral-management/ltd-collateral-management-system>

17. How do I gain access to CMS?

CMS access can be granted by your company's Portal super users. Should you require confirmation of your super users please email servicedesk@lch.com

18. Do you offer CMS training?

CMS is designed to look and feel like an online high street banking application. It is therefore not anticipated that User training is required outside what is provided as part of member on-boarding and detailed in the Reference Guide.

Please note The CMS Reference Guide is located within CMS section of the Portal within the downloads section. The Portal can be accessed through the following link:

<https://clearingservices.lchclearnet.com/portal/group/lch/cms-welcome>

19. Can you confirm the transfer rules in CMS?

These are detailed within Transfer Restrictions section of the CMS Reference Guide available within the Collateral Management System area of the following webpage:

<https://clearingservices.lchclearnet.com/portal/group/lch/cmsdocuments>

20. What Haircuts are applied to non-cash collateral lodged to cover Initial Margin requirement?

Please refer to the Collateral and Liquidity Risk Management area of the Secure Area. The Secure Area can be accessed through the following link:

https://secure-area.lchclearnet.com/secure_area/login.asp

21. Why hasn't my CMS instruction been processed yet?

Collateral releases (cash and non cash) are only instructed once our overnight margin call processes are complete. This usually occurs around 9am in line with the overnight margin call deadline, however the timing of this may vary.

PPS Setup and Testing

22. How do I update my PPS accounts?

If you wish to change your PPS accounts then please provide an updated PPS mandate. Please be advised that LCH only retain one PPS mandate per time zone/PPS bank. LCH therefore requires you to include any existing PPS accounts held at the same PPS bank when submitting updated PPS mandates.

PPS mandates are located within the Collateral Management/Protected Payments System section of the website, which can be accessed from the following link:

<https://www.lch.com/risk-collateral-management/ltd-collateral-management/ltd-acceptable-collateral/ltd-acceptable-cash>

23. What are the minimum PPS currency accounts required?

Clearing Members need to setup a minimum of GBP/EUR/USD currency accounts however all Variation Margin has to be settled in cash in the currency of the underlying contract. For this reason Clearing Members need to have a PPS account in each currency which they will incur Variation Margin.

24. How long does it take to test my PPS accounts?

All new PPS accounts need to be tested prior to use. This can take up to four weeks, although it can be much sooner if your PPS bank has completed their setup at the point LCH reaches out to test.

25. How many units will the PPS test be conducted in?

Collateral.clientservices@lch.com will liaise with each Clearing Member to run through the test steps, although units of 10.00 are normally sent.

26. What does the PPS test consist of?

All new PPS accounts are subject to testing. The PPS test will consist of successfully debiting a nominal amount from your PPS account. Once LCH receives an MT910 confirmation of credit from your PPS bank, LCH will refund the amount same day ensuring the account is flat.

27. How can I add another email address to my intraday email notifications?

Only one email address can be recorded with regard to ITD email notifications. Clearing Members can set up a single group email address supporting multiple linked emails addresses if multiple email addresses are required.

Default / Guarantee Fund

28. Where is the Default Fund reported?

The Default Fund is reported in Banking Report 32

29. How is the Default Fund calculated?

The Default Fund is calculated by the risk team of the relevant Clearing Service. Please therefore liaise with the relevant Clearing Service with regard to calculation methodology. Please refer to our website for further information on our Clearing Services:
<https://www.lch.com/services>

30. What interest rate is applied to the Default Fund?

Please be advised that interest rates are not floored at zero. Please refer to our website for the latest rates:

<https://www.lch.com/risk-collateral-management/ltd-collateral-management/ltd-fees-collateral>

31. Can non-cash collateral be used to cover the Default Fund?

Only cash collateral can be used to cover the Default Fund in the currency specified by the Clearing Service.

32. When is the Default Fund recalculated, and corresponding interest paid?

The interest period and Default Fund period are unrelated. Interest is calculated on a calendar basis from the first to the last day of the month with the resulting interest paid/called to/from your PPS account on the third business day of the month. The Default Fund is re-calculated on a monthly basis effective on the fourth business day of the month.

Cut Off Times**33. What are the Collateral deposit / withdrawal deadlines?**

General Clearing Member – Cash Deadlines		
Instruction	Deadline (London time)	Currency
Cash Withdrawal	09:30	GBP/EUR/USD
Cash Deposit	14:30	EUR
	16:00	GBP
	19:00	USD

FCM Clearing Member – Cash Deadlines		
Instruction	Deadline (New York time)	Currency
Cash Withdrawal	09:30	USD
Cash Deposit	14:00	USD

Bilateral Non-Cash Collateral Deadlines	
CSD / Custodian	Deadline for instructions (London time)
EuroClear UK/IE (CREST)	17:30
EuroClear internal	17:30
Fedwire – Citi and BNYMellon	19:30

Triparty Non-Cash Collateral Deadlines		
	EuroClear Bank	Clearstream
Same Day Settlement	17:30	17:30
Next Day Settlement	17:00 (S-1)	17:30 (S-1)

Interest

34. How is interest calculated at LCH?

Interest is calculated on a calendar basis from the first to the last calendar day of the month, with the resulting interest posted on the third business day of the following month (with the exception of the interest and collateral fees for December. In the instance where 1st January falls on a weekday, settlement will occur on the second business day in January. Otherwise it will occur on the third business day in January).

The previous day's COB cash balance is reported in Report 22 under 'Yesterday's I&D Balance'. The applicable interest rates are published daily within the Public/Banking folder of the LCH Portal.

Please refer to the link below for further details:

<https://www.lch.com/risk-collateral-management/ltd-collateral-management/ltd-fees-collateral>

Interest is posted to you at the market Benchmark rate. You will see this as posting type INTEREST on your REP00022a and REP00037.

Note LCH will collect a Cash collateral Fee on your cash position. This will be posted separately to your interest and will be shown as type CSH COL FEE on your REP00022a and REP00037 (see Fees section below).

35. Are all my accounts interest bearing?

Yes, although different interest rates are applied according to Clearing Service. The Default Fund also attracts a different rate of interest.

Please refer to the link below for further details:

<https://www.lch.com/risk-collateral-management/ltd-collateral-management/ltd-fees-collateral>

36. What are the relevant reports that are available for interest details?

Please refer to the below table to confirm the reporting available and the location of the reports.

Item	Report	Frequency	Report Location	EOD Balance Report used for calculation
Interest Rate	17	Daily	Public/Banking/ DATE	22
Interest Calculation	40	Monthly - Third Business day of the month	Mnemonic/ Banking root	
Interest Posting	22a	Third Business day of the month *Except Dec interest which is posted on the second business day in Jan each year	Mnemonic/ Banking/DATE	
Statement of Account	37	Monthly - First Business day of the month	Mnemonic/ Banking root	

Fees

37. Is there a list of all fees that LCH can administer?

Please refer to the link below.

<https://www.lch.com/risk-collateral-management/ltd-collateral-management/ltd-fees-collateral>

Cash Collateral Fees – A spread is applied, as detailed in the above website page, to the cash collateral held at LCH, based on the EOD balance in Report 22. Please refer to the below table, reading left to right, if you require further assistance to identify which spread is applicable for Initial Margin Cash Collateral.

Service	House/Client	FCM/Non FCM	Currency	Spread
SwapClear	House	Non FCM	Any	LDR
	Client	FCM	EUR, GBP or USD	FCM LDR
			Other	LDR
		Non FCM	EUR, GBP or USD	CDR
			Other	LDR
	ForexClear	Any	Any	Any
EquityClear	Any	Any	Any	LDR
RepoClear	Any	Any	EUR, GBP or USD	RDR
			Other	LDR

Non Cash Collateral Fees – A spread is applied, as detailed in the above website page, to the utilised non cash collateral held at LCH. This is based on the EOD utilised balance as detailed in Report 19.

PPS Transaction Fees - LCH will also pass through PPS Transaction Fees from your PPS provider. Please contact your PPS bank for applicable rates.

Clearing Service Fees – Please contact your relevant clearing service to obtain information regarding the fees

LCH Collateral Client services reserve the right to charge an ancillary fee for time-intensive requests. This will be charged hourly at a rate of £120.00 plus VAT and be subject to a minimum charge of £240.00 plus VAT. This fee will be charged for requests deemed by LCH to require work beyond what is reasonable and typical. Examples of this would be:

- Members returning margin payments back to LCH in error, requiring reprocessing
- Queries in respect to activity that occurred over 1 calendar year in the past.

You will be advised if an ancillary fee is applicable and will be able to decide whether you wish LCH to proceed with the request at cost.

38. How do I find further details of a 'fee' posting reported across my account?

All fee postings generate a corresponding invoice which is located in the 'Fees' folder of the Reporting area within the LCH Portal.

39. An unrecognised amount has been debited from my PPS account, where can I view further details of my margin calls?

All cover and non cover related PPS movements are detailed in Report 33a. Should you require a further breakdown of these movements you can refer to Report 22a which details your NON COV (non cover related) postings or Report 22 which details your COV (cover related) postings.

40. What are the relevant reports that are available for fee details?

Please refer to the below table to confirm the reporting available and the location of the reports.

Item	Report	Frequency	Report Location	EOD Balance Report used for calculation
Cash Collateral Fee Rate	42	Daily	Public/Fees/DATE	22 (Yesterday's I & D Balance)
Cash Collateral Fee Calculation	41	Monthly - First Business day of the month	Mnemonic/Fees	
Cash Collateral Fee Posting	22a	Third business day of the month	Mnemonic/Banking/DATE	
Non Cash Collateral Fee Rate	42	Daily	Public/Fees/DATE	19 (Utilised non-cash collateral)
Non Cash Collateral Fee Calculation	41	Monthly - First Business day of the month	Mnemonic/Fees	
Non Cash Collateral Fee Posting	22a	Third business day of the month	Mnemonic/Banking/DATE	

Acceptable Collateral

41. What collateral can be used to cover my Initial Margin requirement?

At present, GBP/EUR/USD cash collateral as well as the non-cash collateral detailed on the 'Acceptable Collateral' list can be used to cover your Initial Margin requirement

Further details can be found on the LCH website:

<https://www.lch.com/risk-collateral-management/ltd-collateral-management/ltd-acceptable-collateral>

Collateral Limits

42. Does LCH Ltd apply limits with regard to lodging non-cash collateral to cover Initial Margin requirement?

LCH applies concentration limits to securities issued by specific Issuers and in some cases specific Bonds. The concentration limits are set in accordance with our Concentration Risk Framework. Concentration limits apply to each clearing member at an entity level, as well as at a group level across all entities that are clearing members within the same group.

Government Securities

Italian & Spanish members may lodge Italian and/or Spanish securities for the purposes of Initial Margin up to the lower of (i) 50% of the value of the initial margin requirement (EUR equivalent) and (ii) EUR 500 million.

Other members may lodge Italian and/or Spanish securities for the purposes of Initial Margin up to the lower of (i) 50% of the value of the initial margin requirement (EUR equivalent) and (ii) EUR 1,250 million, of which, Spanish securities EUR 500 million and Italian securities EUR 750 million.

Additionally, in all cases, a 25 % (10% for Italian and Spanish securities) concentration limit is applied at Group level on the outstanding issuance amount of each ISIN.

Agency Securities

Concentration limits on Agency securities are set at Clearing member level as the lower of i) 20% of the value of margin requirement or ii) 500 million – USD for US agencies; EUR for European agencies with separate limits applied to GNMA MBS securities.

Hard limits are applied to Kommuninvest (EUR 50 million), Network Rail (GBP 200 million) and Caisse d'Amortissement de la Dette Sociale (CADES) (EUR 500 million).

Supranational Securities

Concentration limits on Supranationals are set at Clearing member level as the lower of i) 50% of the value of margin requirement (EUR equivalent) or ii) EUR 500 million.

Singapore Securities

Concentration limits on Singapore securities are up to the lower of i) 50% of the value of margin requirement or ii) SGD 500 million

Additionally, a SGD 500 million concentration limit is applied across all Clearing members within the same group

43. Does LCH apply any limits for the use of cash collateral for Initial Margin?

LCH accepts Singapore Dollar cash subject to a maximum of 500 million at Clearing Member Group Level and Entity Level

Further detail on cash collateral limits can be found on the below page of the LCH website:

<https://www.lch.com/collateral-management/ltd-collateral-management/ltd-acceptable-collateral/ltd-acceptable-cash>

Currency Holidays

44. Where can I find the LCH Ltd. Recognised International Currency Holidays and LCH Open Days?

These are published annually in a Member Circular at the end of the year for the coming year's holidays.

All Circulars are saved within the Membership/LTD Membership/LTD Member Updates section of the LCH website:

<https://www.lch.com/membership/ltd-membership/ltd-member-updates>

45. What interest rates apply to cash IM on a currency holiday?

On a non-currency holiday, Report 17 reflects the interest rate applied and effective date. On a currency holiday, please note that the correct rate can be found in the Report 17 published on the next good business day for that currency.

The rate applied can also be located in monthly Banking Report 40, which is published at the start of the following month.

46. How are postings/PPS Calls/Pays treated on a currency holiday?

Please refer to the “member impact analysis” document contained in the below member communication -

[LCH Circular No 3739](#)

Example reports are also available within the “Changes to Protected Payments System (PPS)” document contained in the below member communication -

[LCH Circular No 3768](#)

Please find below the general rules for Bank Holidays and LCH Open Days.

Please note that around GBP/EUR/USD holidays, LCH may specify detailed information regarding upcoming holidays, via a member circular. This may include restrictions around cash instructions or substitutions in CMS, as well as reporting and timing changes. Please contact collateral.clientservices@lch.com if you would like to be added to the member circular distribution list, to be notified if there are any specific details to note around upcoming holidays.

For holidays where LCH have not issued specific instructions via a member circular, please note the rules as explained below.

LCH Open Days

- If LCH is closed, please note that there will be no margin calls or pays generated. Banking Reports will not be published.
- If LCH is open, please refer to the Service Opening Table published annually to find out which services are open. Please then note the details below

General Rules for LCH Recognised Currency Holidays and LCH Open Days

LCH Open/Closed Status	Service Status	IM	VM	Overnight Margin Calls/Pays	Intraday Calls	CMS	Banking Reports
LCH Closed	Service Closed	N/A	N/A	N/A	N/A	Not Available	None generated for this business date
LCH Open	Service Open	<p>IM is required to be covered in the overnight margin call process.</p> <p>Collateral is utilised in the order below:</p> <ol style="list-style-type: none"> 1. Cash in the non-deliverable currency 2. Non cash collateral 3. Clearing Member's BAU preference 4. Cash in the Alternative Currency <p>Auto-repay will also be disabled for the currency on holiday.</p> <p>If there is an IM Shortfall and the preferred IM call currency is closed, then LCH will call in the alternative currency. Please refer to the Alternative Currency details below this table for the complete information.</p>	<p>VM for open currencies is callable in the overnight process as per BAU.</p> <p>VM for currencies on holiday is callable in the overnight process. For EUR/GBP/USD/CAD, LCH will treat VM losses/gains as an additional IM debit/credit liability for days which these currencies are on holiday. For other currencies, the value date of the call/pay will be deferred to the next good business date. Please refer to report 33a for the value date of any call/pay.</p>	<p>Overnight margin calls/pays will apply. Please see IM/VM columns for specific details where currency holidays apply</p>	<p>Intraday calls apply. Please refer to the Alternative Currency details below this table for the currency details of intraday calls, where preferred currency is on holiday.</p>	Available	<p>Banking Reports generated by 7am on business date and update intraday as per BAU schedule.</p>
	Service Closed	<p>IM is required to be covered in the overnight margin call process.</p> <p>Collateral is utilised in the order below:</p> <ol style="list-style-type: none"> 1. Cash in the non-deliverable currency 2. Non cash collateral 3. Clearing Member's BAU preference 4. Cash in the Alternative Currency <p>Auto-repay will also be disabled for the currency on holiday.</p> <p>If there is an IM shortfall and the preferred IM call currency is closed, then LCH will call in the alternative currency. Please refer to the Alternative Currency details below this table for the complete information.</p>	<p>VM for open currencies is callable in the overnight process as per BAU.</p> <p>VM for currencies on holiday is callable in the overnight process. For EUR/GBP/USD/CAD, LCH will treat VM losses/gains as an additional IM debit/credit liability for days which these currencies are on holiday. For other currencies, the value date of the call/pay will be deferred to the next good business date. Please refer to report 33a for the value date of any call/pay.</p>	<p>Overnight margin calls/pays will apply. Please see IM/VM columns for specific details where currency holidays apply</p>	<p>Intraday calls do not generally apply for closed services. LCH reserves the right to issue intraday calls if required.</p>	Available	

Alternative Margin Call Currency Rules:

If a member has a liability to LCH on a day that is a USD, EUR or GBP currency holiday, then:

1. where the member has nominated a preferred currency for calls and such currency is available to be settled on such day, LCH will call the member in its preferred currency;
2. where (1) does not apply, LCH will apply any excess it holds for the member to the liability and (to the extent this is insufficient) call the member for cash collateral, as follows:
 - (a) on a USD holiday, LCH call EUR;
 - (b) on a GBP holiday, LCH call USD;
 - (c) on a EUR holiday, LCH call GBP;
 - (d) on a day which is both a USD and EUR holiday, LCH call GBP; and
 - (e) on a day which is both a USD and GBP holiday, LCH call EUR.

SSIs

47. What are LCH's Standard Settlement instructions?

Non-cash collateral SSI's are located within the Collateral Management section of the LCH website. See the Standard Settlement Instructions section at the bottom of the page.

<https://www.lch.com/risk-collateral-management/ltd-collateral-management/ltd-acceptable-collateral/ltd-acceptable>

Cash SSIs can be provided on request from Collateral.ClientServices@lch.com

Secure Area

48. How do I gain access to the Secure Area?

Please use the link below and click register at the top right hand corner of the page if you require access to the secure area. You will need to register for the LTD Collateral and Liquidity Risk Management area to view the latest haircut schedule.

https://secure-area.lchclearnet.com/secure_area/

FX Haircuts

49. What is Currency of Risk and how is it determined?

“Currency of Risk” (CoR) is the dominant currency in member’s cleared trade portfolio. It is assessed and set monthly at a collateral account level. The liabilities calculated will account for FX risk against this currency. Whenever collateral is different from “Currency of Risk”, a FX Haircut will be charged.

In general, Currency of Risk (CoR) is determined by the by the currency providing the largest contribution to Initial Margin at the Initial Margin scenarios. It is either worst 6 (this can be found using Report 50), or VaR 13 for floored portfolios (SMART Unscaled VaR tab). It is calculated on a segregated account level.

For the CoR to change from one month to the next, there must be a change in proportion of IM attribution of greater than 20%, or else it remains as the same currency as the previous month.

The CoR is calculated at the beginning of each month based on the portfolio for the previous business day. As mentioned above, for the CoR to change from one month to the next, there must be a change in proportion of IM attribution of greater than 20%, or else it remains as the same currency as the previous month.

50. How will I know when CoR is about to change on my account?

Members are emailed automatically a minimum of 3 days in advance of the change taking effect. The frequency of assessment of CoR by LCH is monthly.

For further information please view the below member circular:

<https://www.lch.com/membership/ltd-membership/ltd-member-updates/fx-haircuts-collateral-go-live>

Service Level Cap Requirement (SLCR)

51. What is SLCR?

SLCR (Service Level Cap Requirement) is in place so that LCH can actively manage its liquidity risk. As a result, LCH reserves the right to apply a minimum cash requirement to our members. You will be contacted by the LCH Risk team when a SLCR requirement becomes applicable to your clearing membership.

The minimum cash requirement compels members with a liability greater than the SLC (Service Level Cap) threshold to cover the remainder of the requirement with cash collateral. The SLC threshold is determined at the Service Level by the risk team and is re-evaluated monthly. A notification is sent to members directly with the revised threshold.

SLCR is calculated across H and B accounts. The total liability across both of these accounts will be considered.

The SLCR is calculated daily based on the EOD positions. If a member is breaching by 10% or more of the SLCR limit, a margin call will be issued to bring them in line with the minimum cash requirement.

Furthermore, a member will not be permitted to withdraw cash that will take them in breach of the SLCR.