

1. What are the different connectivity modes available for a Member to trade on MCX platform?

The different connectivity modes made available for a Member to trade on MCX platform are:

1. VSAT
2. Leased Circuit
3. Internet

VSAT

2. What is VSAT?

VSAT is the abbreviation for Very Small Aperture Terminal. It connects the member to the exchange via satellite link. Therefore connectivity on VSAT can be enabled in a shorter time frame even at remote locations.

3. Who is the service provider for VSAT connectivity to MCX?

HCL COMNET is the VSAT service provider for MCX.

4. How does a Member apply for a new VSAT Connectivity?

To apply for a new VSAT Connectivity, Member needs to submit the following documents to the Membership Department:

- a) Validation Checklist and Application of new VSAT Equipment
- b) VSAT Undertaking
- c) Questionnaire for VSAT
- d) No Objection Certificate (NOC) for installation of VSAT
- e) Central Sales Tax / Local Sales Tax Declaration
- f) Payment towards VSAT connectivity charges

The above documents to be submitted on the Member's Letter Head (wherever applicable) along with a rubber stamp / notarized and signature sought by the Authorized Signatory (wherever applicable).

The Application for New VSAT can be found at www.mcxindia.com

Web Path: (Membership>Connectivity Requests >VSAT>Application for New VSAT) (One time payment)

Web Path: (Membership>Connectivity Requests >VSAT >VSAT Connectivity facility on quarterly payment basis)

5. What are the charges for VSAT?

Members are required to pay the amount of Rs. 1.65 lac only by way of a demand draft favoring "Multi Commodity Exchange of India Limited". (Refer- Circular No- MCX/116/2005 Dated: March 24, 2005)

6. Can a Member avail an installment facility for making payment towards VSAT Connectivity?

Yes. Member can also avail of the installment scheme (12 Quarterly payments: Rs.15, 750 /- and Service tax per quarter).

The application form for VSAT Connectivity facility is available at www.mcxindia.com

(Refer to Circular no. MCX/095/2006 Dated March 02, 2006)

7. What do these (VSAT) charges include?

The charges for VSAT include VSAT connectivity facility for the period of 3 years from the date of installation.

8. What are the charges applicable for VSAT after the completion of initial period of 3 years?

The annual recurring charges for VSAT connectivity on completion of 3 years (from the date of installation) shall be Rs. 28000/- per VSAT towards usage charges.

Refer to circular MCX/TECH /123/2007 Dated: April 04, 2007.

9. When is the payment for the annual VSAT recurring charges collected?

Exchange is debiting the annual VSAT recurring charges one month before the completion of the respective time periods as mentioned above.

Example: From the forth year, Exchange will debit charges from the due date to 31st March of the respective financial year, pro - rata and thereafter on or before 15th of April every financial year in advance.

10. What is the procedure for Surrender (voluntary termination) of VSAT through the Exchange?

The procedure for Surrender (voluntary termination) of VSAT

Termination of VSAT connectivity facility	If VSAT returned to Exchange	If VSAT not returned to Exchange
Within 3 years from the date of activation	<ul style="list-style-type: none">a) No amount would be refunded back to member.b) In case member has taken VSAT on installments, all unpaid installments would be payable along with application for surrender.c) Pending dues as informed by the exchange time to time, if any.	<ul style="list-style-type: none">a) No amount would be refunded back to member.b) In case member has taken VSAT on installments, all unpaid installments would be payable along with application for surrender.c) Rs. 40,000 would be payable by member to the Exchange towards VSAT cost.d) Pending dues as informed by the exchange time to time, if any.
After 3 years from the date of activation	<ul style="list-style-type: none">a) Annual recurring charges for the VSAT facility, if not paid in advance.b) Pending dues as informed by the exchange time to time, if any.	<ul style="list-style-type: none">a) Annual recurring charges for the VSAT facility, if not paid in advance.b) Rs. 40,000 would be payable by member to MCX towards VSAT cost.c) Pending dues as informed by the exchange time to time, if any.

The Application for Surrender of VSAT can be found at www.mcxindia.com **Web Path:** (Membership>Connectivity Requests >VSAT>Application for Surrender of VSAT)
Refer to circular MCX/224/2006, Dated: May 29, 2006

11. What is the procedure for Transfer of VSAT through the Exchange?

A Member can transfer the VSAT facility to another Member subject to:

- a) A prior approval from the Exchange;
- b) Request cum Undertaking (Annexure I and II);
- c) VSAT Undertaking (Annexure III);
- d) Questionnaire for VSAT (Annexure IV);
- e) NOC (No Objection Certificate) (annexure V);
- f) LST & CST declaration (Annexure VI);
- g) Payment of an additional sum of Rs. 25000/- only
- h) Payment towards the annual recurring charges by the Member to the Exchange as VSAT transfer fees
- i) Payment of all dues / installment relating to the particular VSAT facility to the Exchange till the last date of the calendar month of such transfer;

Note:

1. No refund would be issued by the Exchange to the transferring Member, in case VSAT facility has been provided against security deposit, till the corresponding amount is received from the member to whom the VSAT has been transferred.
2. All expenses in relation to the physical transfer (shifting) of VSAT shall be directly payable by the Member to the VSAT service provider and borne by transferor.

The Application for Transfer of VSAT can be found at www.mcxindia.com **Web Path:** (Membership>Connectivity Requests >VSAT>Application for Transfer of VSAT)
Refer to circular MCX 291/2006, dated July 25, 2009

12. Can VSAT be shifted to another location?

Yes, VSAT can be shifted to another location subject to:

- a) Submission of VSAT shifting request on the letterhead to the Exchange;
 - b) Payment of applicable VSAT shifting charges by the Member directly to Service provider i.e. HCL COMNET;
- Exchange will coordinate the entire activity along with the service provider i.e. HCL COMNET

The Application for Shifting of VSAT can be found at www.mcxindia.com

Web Path: (Membership>Connectivity Requests >VSAT>Application for Shifting of VSAT)

13. Can a Member of the Exchange having an existing VSAT supported by HCL COMNET use it (VSAT) for MCX Connectivity?

A Member of the Exchange with existing VSAT supported by HCL COMNET can use the same (VSAT) for MCX Connectivity.

Refer to circular MCX/116/2004 Dated: October 12, 2004

14. What are the charges for VSAT in MCX CUG (Closed User Group) Connectivity?

Member of the Exchange can get the VSAT (HCL COMNET) activated in MCX CUG (Closed User Group) by making a payment of Rs. 50000/- + Service Tax to the Exchange towards usage charges for a period of 3 years along with a letter followed by a Declaration and Undertaking on a non - judicial stamp paper of Rs. 100/- in formats specified in Annexure I and II.

15. What is the mode of making payment towards VSAT in MCX CUG?

The mode of making payment is by way of Demand Draft in favor of "Multi Commodity Exchange of India" payable at Mumbai.

16. What are the maximum no of user IDs allowed on VSAT connectivity?

Exchange provides 3 TWS IDs (Trader Work Station) and 1 Member Administration ID per VSAT.

17. Can a Member install VSAT at his Client's office?

Yes, a Member can install VSAT at his Client's office subject to the request should received from the Member (and not the Client) to the Exchange and connectivity will be on the name of the member.

18. What is the backup connectivity option available in case of failure of VSAT connectivity?

Members, who have VSAT as primary mode of connectivity, should have Leased Lines (point to point/MPLS) as primary backup and ISDN as secondary back up.

19. What is Sun Outage? How does it affect Trading?

A Sun Outage is natural phenomenon which has an impact in terms of total interruption in or distortion of geostationary satellite signals caused by interference from solar radiation. The effect is due to sun's radiation overwhelming the satellite signal. Generally, sun outage occurs in February - March and September - October. At these times, the apparent path of the sun across the sky takes it directly behind the line of sight between an earth station and a satellite.

The interference in the satellite signal disturbs smooth transmission of data of online transactions i.e. VSAT connectivity. Due to which the members of the Exchange, who are trading using VSAT connectivity, may face trading disturbances during the Sun outage. In case of disconnection, VSAT users may re log-in after an interval of 5 - 6 minutes and during such time, these users can log-in to Trader Workstation through the approved alternate mode of connectivity.

LEASED CIRCUITS

20. What are the types of Leased Circuit connectivity offered by MCX?

- a) MPLS - Multi Protocol Label Switching
- b) Point - To - Point

21. Who is the service provider for Leased Circuit Connectivity?

For MPLS leased circuit – BSNL

For point to point leased circuit – MTNL, Airtel, Reliance Communications and Tata Communications

22. How does a Member apply for a new Leased Circuit Connectivity?

Member needs to submit the following documents to the Membership Department:

- a) Validation Checklist
- b) Application for Leased Circuits Connectivity
- c) Undertaking for Leased Circuits

The above documents to be submitted on the Member's Letter Head (wherever applicable) along with a rubber stamp / notarized and signature sought by the Authorized Signatory (wherever applicable).

Web Path: (Membership>Connectivity Requests >Leased Line

23. What types of equipments are required to be procured for Leased Circuit Connectivity?

- i) **Router** :-The required Router configuration is :-
Make & model: CISCO 1800 (10/100 T) modular router, 64 MB flash memory & 128 MB DRAM
Interfaces: 1-port serial WAN interface card, 1 port ISDN BRI card
Cables: V.35 cable, Serial Cable.
IOS version: CISCO 1800 IOS IP Version 12.3 or above with multicast support.
- ii) **Modems** (optional)
For MLDN & MLLN type of links (only select telephone exchanges have this facility), the Modem is provided by MTNL/BSNL, which is billed in the demand note. Other wise member has to procure the following leased line modems:-
Make: RAD
Model number: ASM 20 or ASM 31 (depend on Telephone Exchange requirement)
Interfaces: V.35 at member's end and G703 at MTNL/BSNL end.
For service provider other than MTNL/BSNL the Modem will be provided as per the agreement between Member and Service provider.
(Refer- Circular No- MCX/107/2004 Dated: October 01, 2004), (Refer- Circular No- MCX/130/2004 Dated: October 30, 2004) & (Refer- Circular No- MCX/142/2004 Dated: November 17, 2004)

24. What are the different bandwidth options available and the maximum number of User IDs allowed for different bandwidth Leased Circuits?

Sr. No.	Bandwidth options	Maximum User IDs allowed (TWS + CTCL) *
1	128 Kbps	10
2	256 Kbps	15
3	512 Kbps	20
4	1 Mbps	25
5	2 Mbps	30

* For all markets together. One out of every 5 User Ids can be used as CTCL ID

Refer to Circular No- MCX/302/2009 Dated: July 23, 2009

25. What are the tariffs / charges for Leased Circuits connectivity?

Tariff for leased circuits from different service providers:-

MPLS

1. BSNL

Sr. No.	BSNL MPLS Bandwidth options	Recommended bandwidth Scheme	Port Charges (Rupees)
1	128 Kbps	Gold	86865.00
2	256 Kbps	Silver	124343.00
3	512 Kbps	Silver	202227.00
4	1 Mbps	Silver	262336.00
5	2 Mbps	Silver	358456.00

- In addition to the above port charges, taxes and other charges as per BSNL demand note are applicable.
- Locations where MLLN (Managed Leased Line Network) is available, BSNL/ MTNL will provide modems. Locations where MLLN is not available, member has to provide modems.

Point to Point Leased Circuit

1. MTNL

Charges are applicable as per demand note issued by MTNL.

2. Service provider other than MTNL

Applicable charges are to be paid directly by the member as per the tariff agreed upon between the member and the service provider.

Refer to Circular No- MCX/302/2009 Dated: July 23, 2009

26. Are there any additional charges for Point to Point Leased Circuit Connectivity?

Yes, charges mentioned below are in addition to the charges payable by Members to Leased Circuit Service Provider.

Sr. No.	Point to Point bandwidth capacity	Annual Point to Point Leased Circuit Connectivity charges (Rs)
1	128 Kbps	Nil
2	256 Kbps	Nil
3	512 Kbps	50,000
4	1 Mbps	60,000
5	2 Mbps	75,000

Every year the applicable charges as mentioned above would be debited in advance to members settlement account before April 30th.

Refer to Circular no. MCX/TECH/507/2009 dated: December 5, 2009.

27. Is it possible to shift or surrender the Leased Line?

Yes, shifting is similar to shifting of telephone lines. The request needs to be routed through Membership department. The following table gives an overview on the procedure for shifting of Leased circuit from MTNL/BSNL. For shifting of Leased Circuit obtained from service provider other than MTNL/BSNL, member needs to coordinate directly with Service provider.

Shifting of LEASED CIRCUITS	MTNL	BSNL
Criteria for Shifting	Address change within Mumbai and Navi Mumbai	Address change within the same state only.

Mode of Charging	a) Charged by MTNL in the Annual Rental billing to the Member. b) The charges are as per the Demand Note generated by MTNL after the site survey	a) DD (Demand Draft) of Rs. 2758/- is payable in favor of AO (F&A) BSNL Mumbai. b) The request must be routed through MCX, Mumbai.
-------------------------	---	---

Member can surrender the Leased circuit by sending a request for 'Surrender of LEASED CIRCUITS' to the membership department.

The application for shifting and surrender of Leased circuit can be found at www.mcxindia.com

Web Path: (Membership>Connectivity Requests >Leased Line> Application for shifting of Leased Line)

28. What is the backup connectivity option available in case of failure of Leased circuit connectivity?

1. Members who have Point to Point Leased Circuit as primary mode of connectivity from service providers other than BSNL / MTNL should have BSNL MPLS Leased line / VSAT as backup mode of connectivity.
2. Members who have MPLS Leased Circuit as primary mode of connectivity should have VSAT as backup mode of connectivity.

Note: ISDN is applicable to provide backup only for 128kbps Leased circuit. Member has to procure and install the ISDN facility and Exchange will provide technical support for ISDN configuration.

Refer to Circular no. MCX/TECH/141/2009 dated March 26, 2009.