

Printing and Photographic and Audio and Visual Equipment and Supplies >> Audio and visual presentation and composing equipment >> phone and video conference equipment and hardware and controllers >> 0701MCU for VCS

Specifications:

Name	Type	Restrictions	Unit	Properties
Group: Specification				
1. Type of Video Conferencing System	Enumerable	All in one MCU based	N/A	Mandatory
2. Type of MCU capable of delivering the video bridging performance as defined in the specifications	Enumerable	Hardware based MCU, Server (Software) based MCU	N/A	Mandatory,Filter,Golden
3. Number of ports on IP in all in one MCU (N) hint: Must Indicate	Numeric	10 - 500	N/A	Mandatory,Filter,Golden
4. Resolution hint: Must Indicate	Ordinal	1080p, 30 fps(1), 1080p, 60 fps(2), 4K, 30 fps(3), 4K, 60 fps(4)	N/A	Mandatory,Filter,Golden
5. Minimum Bandwidth Required for Specified video quality at MCU End (Mbps) hint: Must Indicate	Numeric	512, 1024, 2048, 4096, 6144	N/A	Mandatory,Filter
6. Minimum Bandwidth Required for Specified video quality at End point/far-site end (Mbps) hint: Must Indicate	Numeric	512, 1024, 2048, 4096, 6144	N/A	Mandatory,Filter
7. All components of the MCU solution, management sw & desktop client sw should be from the same OEM, Servers can be from third party	Enumerable	Yes	N/A	Mandatory
8. MCU should support audio ports on IP	Enumerable	Yes, No	N/A	Mandatory,Filter
9. MCU is IP based and Availability of Network management systems	Enumerable	External, Internal	N/A	Mandatory
10. Max Number of registered End Point on an external /internal (Internet/Intranet) server	Numeric	10 - 500	N/A	Mandatory,Filter
11. Max Number of registered Desktop Clients an external /internal (Internet/Intranet) server hint: Must Indicate or May write NA	Numeric	10 - 500	N/A	Mandatory,Filter,Golden
12. Max Number of registered Mobile Clients an external /internal (Internet/Intranet) server	Numeric	10 - 496	N/A	Mandatory,Filter

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13. Max Number of registered External Users an external /internal (Internet/Intranet) server	Numeric	10 - 500	N/A	Mandatory,Filter
14. MCU must support Audio algorithms : (G Dot 711, G Dot 722, G Dot 729 or equivalent or better wideband audio coding support)	Enumerable	Yes	N/A	Mandatory
15. MCU must support Telnet /USB /RJ45 /ssh	Enumerable	Yes	N/A	Mandatory
16. Video coding support Protocol	Enumerable	H.263, H.264AVC, H.264SVC, H.264 High Profile, H.265	N/A	Mandatory,Filter
17. MCU must support control of a conference like adding participants, removing participants, muting participants video and/ or audio, lock a conference	Enumerable	Yes	N/A	Mandatory
18. MCU support Far End Camera Control, in voice activated and continuous presence modes	Enumerable	Yes, No	N/A	Mandatory,Filter
19. MCU support sending/receiving multiple streams of video and presentation content without losing MCU port capacity hint: Must Declare	Enumerable	Yes, No	N/A	Mandatory,Filter
20. MCU must support layout choices of different layouts	Enumerable	Yes	N/A	Mandatory
21. MCU configurable to adapt the continuous presence screen layouts to accommodate newly added or dropped participants from the conference, up to 16 participants automatically	Enumerable	Yes, No	N/A	Mandatory
22. MCU must provide a complete `conference control' interface browser to support all `in call' management functions with add and drop' manipulation of parties in the call	Enumerable	Yes	N/A	Mandatory
23. MCU must provide standards based method of compensating and correcting for packet loss media streams loss	Enumerable	Yes	N/A	Mandatory
24. MCU must support a configurable text overlay function, where in the Name, Site Identifier or terminal info is displayable	Enumerable	Yes	N/A	Mandatory
25. MCU solution support maximum bandwidth control per endpoint or per groups of endpoints	Enumerable	Yes, No	N/A	Mandatory,Filter
26. MCU solution support distributed architecture	Enumerable	Yes, No	N/A	Mandatory,Filter
27. MCU solution must support real time monitoring	Enumerable	YES	N/A	Mandatory
28. Scheduling support through outlook integration	Enumerable	Yes, No	N/A	Mandatory,Filter

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29. The solution should allow registration of users, endpoints, their authentication and providing each a unique ID and presence status for simplified dialing	Enumerable	Yes	N/A	Mandatory
30. MCU solution support Microsoft Outlook/Google etc scheduling with email notifications to individual participants hint: Must Declare	Enumerable	Yes	N/A	Mandatory,Filter
31. MCU solution must support personal address book	Enumerable	Yes	N/A	Mandatory
32. The conference scheduling application must support Dial-in or Dial-out to terminals	Enumerable	Yes	N/A	Mandatory
33. The conference MCU solution must support Direct Inward Dial to scheduled meetings	Enumerable	Yes	N/A	Mandatory
34. The network management software of the MCU/bridge must provide CDR data and view of current calls It allows to view all components of the solution and allow them to be maintained and upgrade centrally	Enumerable	Yes	N/A	Mandatory
35. MCU management software is capable to send e-mail notification to all participants using Microsoft outlook / Google etc plug in	Enumerable	Yes	N/A	Mandatory
36. Number of Management Software Licence hint: Must Indicate	Numeric	10 - 500	N/A	Mandatory,Filter
37. Both the MCU management software should be installed on server/appliances	Enumerable	Yes, No	N/A	Mandatory,Filter
38. MCU support Desktop Client Resolution from day one	Enumerable	1080p @ 30fps	N/A	Mandatory,Filter
39. Video and Content simultaneously both feature to be available in desktop	Enumerable	Yes	N/A	Mandatory,Filter
40. MCU support for multiple conferences/ meetings with total number of participants con- currently	Numeric	1, 2, 3, 4, 5, 6, 7, 8, 9, 10	N/A	Mandatory,Filter
41. MCU is with redundant power supply in same chassis/ Server	Enumerable	Yes, No	N/A	Mandatory,Filter,Golden
42. The desktop Client must be downloadable from central server or available on CD/USB	Enumerable	Yes	N/A	Mandatory
43. The desktop client is capable to display the presentation/ data sharing, shared by remote sites	Enumerable	Yes	N/A	Mandatory
44. The desktop client is capable to share presentations, desktop display or documents/application sharing to the participants	Enumerable	Yes	N/A	Mandatory
45. It must support AES 128 bit encryption and support NAT/firewall traversal to connect sites on internet	Enumerable	Yes	N/A	Mandatory

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46. The desktop client is capable to run on latest Windows/Mac/Linux platforms along with mobile devices of IOS and Android	Enumerable	Yes	N/A	Mandatory
47. Mangement system (Gatekeeper and Scheduler) - Concurrent ports and registration	Enumerable	Yes, No	N/A	Mandatory,Filter,Golden
48. All equipment are in compliance with the requirements of ITU-T Standard related to Video Conferencing	Enumerable	Yes	N/A	Mandatory
49. System to be IPv6 ready from day one	Enumerable	Yes	N/A	Mandatory
50. System uses standards based protocols and the offered system is interoperable with any existing H-323 AVC based video Conferencing MCU on all ports All Hardware and Software required to make it interoperable on port basis is included in the scope of supply hint: notation (-) should be read as dot	Enumerable	Yes	N/A	Mandatory
51. System is also tropicalized and report available from ILAC/NABL/Govt Lab with all add on if being supplied to buyer as per following requirement : (a) Dry Heat Test : For 16 hr at a temp of 55 degree C in accordance with IS:9000/part-3/section-5/1977 (Reaffirmed 2007) (b) Cold Test : For 4 hr At a temp of 0 degree C in accordance with IS:9000/part-2/section-4/1977 (Reaffirmed 2007) (c) Damp Heat Test : For 2 Cycles of 24 h each at a temp of 40 degree C & 95% RH in accordance with IS:9000/part- 5/section-1/1991 (Reaffirmed 2007) After each environmental test and a recovery period of two hours, the video conferencing system has been checked for complete functional parameters, and the results found satisfactory (To be Furnished when demanded by buyer)	Enumerable	Yes, No	N/A	Mandatory
52. BIS Registration under CRS of Meity	Enumerable	Yes, NA	N/A	Mandatory
53. If Yes, Unique Registration Number issued by BIS and its Validity hint: Must Indicate or may write NA	Text	N/A	N/A	Mandatory
54. UL/CE certification hint: Must Declare	Enumerable	Yes, No	N/A	Mandatory
55. If Yes, UL/CE certificate Number (To be Furnished when demanded by buyer) hint: Must Indicate	Text	N/A	N/A	Mandatory
56. Operating temperature Range (Degree C) hint: Must Indicate	Text	N/A	N/A	Mandatory
57. Operating humidity (%Rh) hint: Must Indicate	Text	N/A	N/A	Mandatory
58. Free installation and commissioning	Enumerable	Yes	N/A	Mandatory

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59. On Site OEM Warranty (Year)	Numeric	3, 5	N/A	Mandatory,Filter,Golden