

भारत सरकार GOVERNMENT OF INDIA  
रेल मंत्रालय MINISTRY OF RAILWAYS  
(रेलवे बोर्ड) (RAILWAY BOARD)

सं. 2010/Tele/9(3)/4

नई दिल्ली, दिनांक: 15/12/2015

**TELECOM CIRCULAR NO. 12 /2015**

The General Managers/ All Indian Railways,  
All PUs, CORE/ALD,  
DGs/RDSO & Railway Staff College, IG/RPF,  
CAOs/COFMOW, DCW, IRPMU & New PUs at Chappra & Raebareli,  
Directors/IRISET, IRICEN, IRIEEN, IRIMEE, IRITM,  
Chairman, All Indian Railway Recruitment Boards.

**Sub: - Railways Voice Network Modernisation - Review.**

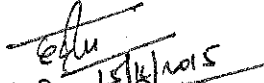
**Ref:- Railway Board's letter of even dated 12/09/2012**

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In terms of above referred letter, recommendations of the technical committee constituted to suggest a scheme for introduction of VoIP based telephony on Indian Railways with view to modernize the voice network of Railways as planned in vision – 2020 document, were forwarded to Railways for compliance. However, Railways were facing difficulties in its implementation due to the provision of Asterisk based Open Source Telephony Software only.

2. The above issue has been reviewed in Board's Office and revised guidelines are as under:-

- (i) SIP should be the choice of protocol for adopting IP Telephony on Indian Railways
- (ii) Only IP exchange based on "Open Standards" should be procured in future for Railways Telecommunications requirement.
- (iii) IRISET should devise training modules in association with RDSO so that Railwaymen can be trained on "Open Standards" telephony software.
- (iv) RDSO should examine IP Telephony based on "Open Standards" and issue guidelines for its implementation on Indian Railways.
- (v) Railnet should be used for IP Telephony. For this purpose, PoE switches and QoS should be enabled on Railnet.
- (vi) Common IP Telephony infrastructure should enable intercom as well as Railway telephone by using separate contexts.
- (vii) FXS gateways should be used for Fax connectivity and FXO/PRI gateway should be used for integrating the PSTN connectivity.
- (viii) Session Border Controllers should be provided for interconnectivity between NGN and Railnet for exchange of voice traffic.
- (ix) PoE switches should be used in the access LAN of Railnet so that the IP telephones can draw power from the network switches.
- (x) QoS should be implemented in the LAN as well as WAN of Railnet.
- (xi) Guidelines issued vide Telecom Circular no. 12/2012 stand cancel.

  
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**Copy to: - for information & necessary action.**

- (i) CSTEs/All Indian Railways.
- (ii) CMD/RailTel
- (iii) CAO/IRPMU
- (iv) ED/Tele/RDSO/LKO.