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Paper Presented By:

Using UHF - Microwave Links. Presentation on Applications of Network Management

Application of Network Management

We are managing a Network of Indian) which is a main source of Railways. Communication media for Indian Railways (Microwave Repeater Station

What We have a Number of Divisions in having divisional HQ. Railways, and these Divisions are the Regional Railways e.g.. Western



almost 200 to 250 kms. Consisting communication link for smooth working The mainpurpose of These repeater is administration of Railways Traffic to boost the signal and continue the almost having Railway Track of in the division. All divisions are 5 to 7 Repeaters of Microwave These divisional Head Quarters Network in the division. are looking after the in the division.

SMN

NMS by DIPI, Indore India

Every Repeater Station is isolated by I There are many equipment housed at conditioner Set etc. Battery Charger, Float, SPV Supply , Air by Battery Bank, D/ Generator set, Transmitters (2 nos.) , Receivers(02), communication workable, like these stations in order to make depends upon the terrain of the region. almost 55 to 60 kms. Distance ,this (secondary) using Battery Bank, Stand +24 V Power Supply , stand by supply

NMS by DIPL, Indore. India.

- These Transmitters and Receivers are having many important Analog devised asystem called NMS for MW. and duity attendance is poor. In order to get better efficiency ;we have i.e., 24 hrs. Man Power is provided at all these locations. But efficiency and Digital signals. These Signals are presently monitored Manually,
- Almost 100 + Analog and 56 + Digital Important Signals are required controlling devices like to be monitored and some to the extent of 16 Digital Out Signals for
- Switching of Transmitter,
- Switching of Receivers,
- Switching of Battery Bank from Load to Charger and Charger to Load in secured way .
- Switching On/ off Diesel Generator Set
- Switching On/ Off SPV supply .
- Monitoring of Room Temp & Switching Air conditioner.
- And On top of this all Remotely sitting at the Divisional Railways HQ.

We have Developed following One can do it using system developed NMS by DIPL, Indore. India Data Loggers stationed at all the These Data Loggers are connected to requirement of nos. of Analog and components SIN AG each other in daisy chaining /Multi drop signals of local station.Compatible to stations for Data acquisition of the Network topology and finally to FEP Digital Signals.









Memory Buffer is in continuos poling Connectivity of Network NMS by DIPL, Indore. India FEP is connected to Memory Buffer and All the Data Loggers are connected to FAS is connected to FEP and can the data loggers . keep acquiring data from Buffer. remotely access and control the activity mode and keep acquiring data from all which is addressable. Radio link of Microwave through Modem

NMS by DIPL, Indore. India

- Thanks to ICTP and Mr.. S.M. Radicilla, opportunity. Mr. R. Struzack for giving me this
- Thanks to Mr. Carlo Fonda for all his Thank to Viewers for patient listening support.
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