

Remote Optical Fiber Monitoring System

Background

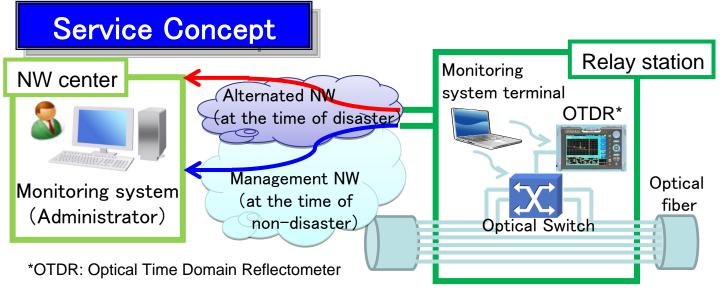
A number of optical fibers were disconnected at the Great East Japan Earthquake (3.11)



To restore connections quickly



It's necessary to pinpoint the failure point of the optical fiber cable even during management network failure.

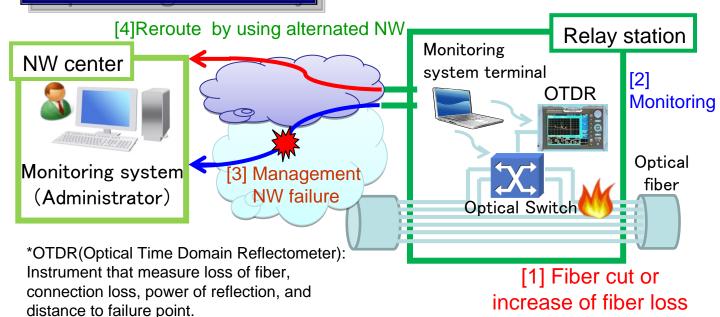


- Remote Optical Fiber Monitoring System can pinpoint failure points of optical fiber cable quickly by using OTDR.
- By using an alternated network, the network administrator can obtain the monitored results even during management network failure.



Remote Optical Fiber Monitoring System

Operating Summary



- [1] Fiber cut or increase of fiber loss occurs due to the disaster.
- [2] OTDR* monitors the optical fiber.
- [3] The administrator can not obtain the monitored results because of management network failure.
- [4] Using an alternated network(e.g. 3G mobile network), the administrator can get the monitored results.

^{*} This work was partly supported by Ministry of Internal Affairs and Communications (MIC) and project for "Research and development of management and control technology for disaster-proof networks guaranteeing communications even during large-scale disasters", Japan.