

ABSTRACT

Coarse Wavelength Division Multiplexing (CWDM) is a form of wavelength division multiplexing that has wider spacing between the wavelengths used than DWDM that are 1,6 – 25nm. CWDM is implementation of the WDM advantage's (more optical channel in a fiber) in order to provide the balance price and performance on the metro/access applications, cost component reduced but bandwidth still required.

This Final Assignment will discuss about the implementation and interoperability of CWDM technology on the metro area network, which the interoperability of CWDM technology is supported by Gigabit Interface Converter (GBIC) equipment. Metro Area Network is capable of supporting 2,5 Gbps to 10 Gbps with the configuration using NZDSF, 8 OADM placed at Bandung, Subang, Cirebon, Tasikmalaya, Cijur, Garut, Pandeglang, and Sukabumi. GBIC equipment supports the system network on routing wavelength pass a OADM.