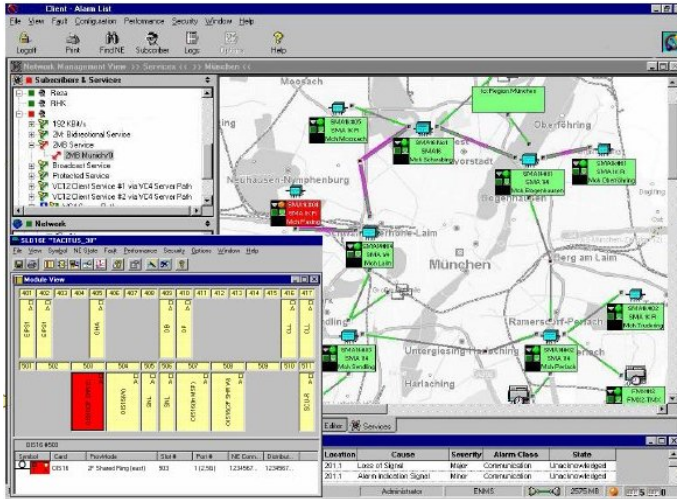


FLEXR C R3

Multi-Service Network Management Platform



Fujitsu's FLEXR C R3 is an advanced and intelligent multi-service network management system, providing network management functions for all FLASHWAVE 4x70 product series in the Metro Core, Aggregation and Access networks.

Fujitsu's FLASHWAVE 4x70 Multi-Service Provisioning Platform (MSPP) series integrate traditional SDH functions with data-traffic processing functions to produce a next generation product. As an early entrant in multi-service equipment market, Fujitsu has an excellent understanding of market requirements. The company has a demonstrated ability to integrate technologies and product seamlessly into an operator's or enterprise's network as they rapidly evolve into multi-service optical networks.

Product Introduction

FLEXR™ series products are the optical network management solution for supporting and managing the next generation MSPP FLASHWAVE 4x70 series products.

FLEXR™ series products consists of the following network management software products:

- ✓ FLEXR C R3 – Providing end-to-end service management and FCAPS functions defined by TMN on both the element layer and sub-network layer.
- ✓ FLEXR L – A node-resident, graphical user interface (GUI) for configuring and administering an individual network element for FLASHWAVE 4x70. The LCT provides all FCAPS functions for EML.

The platform provides customers a comprehensive and standards-based management system to support the growing demands for network connectivity, simplify integration, and day-to-day activities on the network.

Key Benefits

The FLEXR C R3 provides sub-network and element management functions for the FLASHWAVE 4x70:

- ✓ Investment Protection – A software-centric approach enables seamless integration with existing OSS environments through open standard interfaces, protecting capital investments. This flexibility enables carriers to better meet the needs of existing and prospective customers with differentiated service offerings.
- ✓ Time to Revenue – Reduces planning and provisioning time from months to minutes with point and click simplicity.
- ✓ Automation and Efficiency – Reduces cost and complexity out of the network and eliminates costly, manual-intensive operations.
- ✓ Fast Service Creation – Quickly enables a series of new, flexible service offerings such as traditional and flexible circuits, EPL, EVPL, EVLan, bandwidth reselling etc.
- ✓ Scalability – Removes hardware based barriers to network growth, allowing customers to effectively manage their business evolution through software.

Scalable Centralized Management Software

FLEXR C R3

Technical Specifications

Features

FLEXR C R3 provides layered management capabilities. Networks and services of different technologies (TDM, Ethernet, RPR, WDM etc) carried over the same MSPP platform can be managed through independent, optimized, graphical management interfaces, appearing as independent networks.

FLEXR C R3 provides industry standard capabilities and advanced end-to-end capabilities:

- ✓ CORBA TMF 814 interface or SNMP interface to support OSS
- ✓ Support management for TDM, Ethernet, and PRP simultaneously, end-to-end provisioning and performance monitoring
- ✓ Graphical topology displays make for simple operation
- ✓ Intelligence features such as auto-discovery of equipment, facilities, topology and circuits; A-to-Z service provisioning
- ✓ Powerful functions useful for operators: view of Spanning Tree, Synchronization Tracking view, etc.
- ✓ Centralized surveillance
- ✓ Performance data collection and reporting
- ✓ Multi-Vendor Ring Circuit Inventory and Surveillance
- ✓ Centralized User administration (authentication, authorization)

- ✓ Network activity logging and reporting
- ✓ Software distribution management
- ✓ Database backup and restore
- ✓ High availability configuration
- ✓ Domain management, VLAN management and ASON management features are available as option.

Applications

The FLEXR C R3 allows a total view of the managed network elements, enabling the user to examine Network Topologies including geographic domains, technology domains, or customer domains.

- ✓ Powerful end-to-end provisioning functions for a variety of network technologies such as SDH, VLAN, etc.
- ✓ Circuits can be created automatically with the system optimized network algorithm
- ✓ Users can modify the search algorithm to add requirements for node (s) that must be passed or avoided
- ✓ Users can examine their networks across all service types (SDH, VLAN, and RPR, WDM) and across all topologies
- ✓ By using a Java based platform and a modular software architecture, operations across different operating systems and database environments are easily enabled, greatly increasing system scalability and reliability while reducing costs.

Management Protocol and Interfaces

- ✓ SNMP interface between the Network Management System and the Network Element
- ✓ Supports standard TMF 814 CORBA northbound interface and SNMP northbound interface, enabling interworking with management systems

Hardware Configuration

The FLEXR C R3's scalable and flexible hardware configuration allows carriers to choose the hardware optimum for the initial network size and upgrade it as their network expands.

- ✓ Large/Extra large configuration consisting of a Core Server with up to 10 NetServers and 40 clients.
- ✓ Medium configuration consisting of a Core Server which serves as NetServer as well with up to 25 clients. Upgradable to large configuration.
- ✓ 1+1 Core Server and 1:n NetServer protection is available for the high-availability and security.

Scalable Centralized Management Software

Specifications are subject to change without notice. For the latest detailed information, please contact your nearest local Fujitsu representative. All brand names and product names are trademarks of their respective holders.

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