**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.**

Fujitsu’s FLEXR C 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.

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**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 consist of the following network management software products:

- **FLEXR C** – 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. 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.

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**Key Benefits**

The FLEXR C provides sub-network and element management functions for the FLASHWAVE 4x70 product line with the following benefits:

- **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.

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**Scalable Centralized Management Software**
Technical Specifications

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

FLEXR C provides industry standard capabilities and advanced end-to-end capabilities:
- Software architecture based on J2EE/MO, independent of Operation Systems, and easy to upgrade
- Support management for TDM, Ethernet, PRP services 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.
- Resource statistics: Equipment inventory management and Circuit inventory management
- Centralized surveillance
- Performance data collection and reporting
- Multi-Vendor Ring Circuit Inventory and Surveillance

✓ Centralized User administration (authentication, authorization, accounting)
✓ Network activity logging and reporting
✓ Software distribution management
✓ Database backup and restore
✓ High availability configuration

Applications
The FLEXR C 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) 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
✓ SNMPv2 interface between the Network Management System and the Network Element

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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