

# RATIONALISING YOUR NETWORK

## Next Generation Solutions



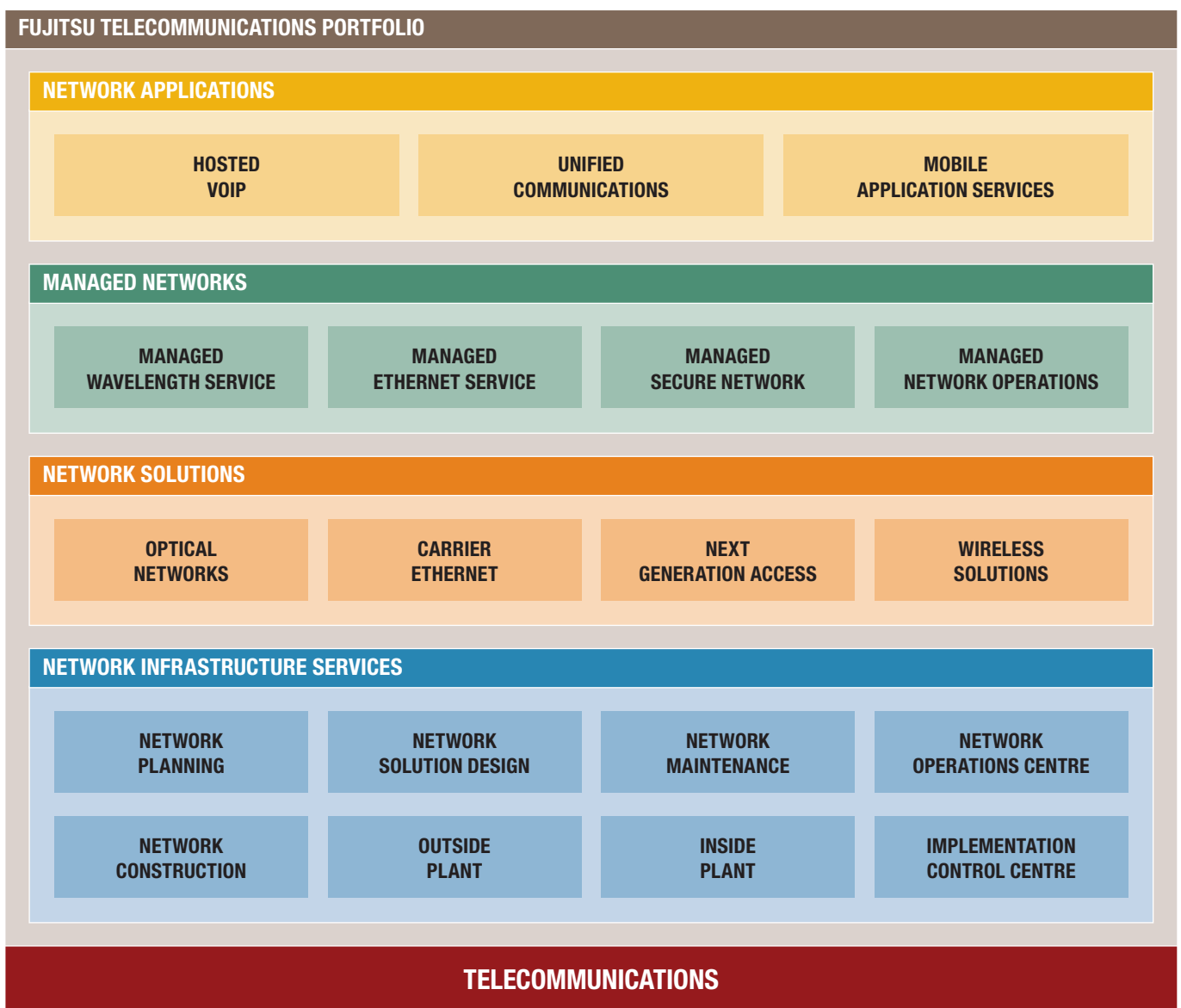
Fujitsu's Telecommunications solutions and services lie at the heart of next generation networks, offering a uniquely integrated product and service mix. The partner of choice for innovative network migration and evolution strategies, Fujitsu designs, develops and supplies end-to-end network and infrastructure solutions. Fujitsu's Global solutions are supported by local resources and knowledge, customising the solution to meet an operator's particular needs.

Fujitsu's expertise spans carrier-level and enterprise networks, across access, metro and backhaul applications – from Network Planning and Construction, to Packet Optical Networking Platforms and Next Generation Access. Our capabilities include networking for Cloud Computing, wholesale and next generation service environments, plus network implementation, services and support.

## **ENHANCING SERVICES AND REDUCING COSTS**

Operators are under continuing pressure to improve services while reducing costs, presenting unparalleled challenges in the current economic climate. The need to replace legacy equipment is accelerating and has to be effected with minimal risk and without customer disruption.

Fujitsu's innovative technology, combined with proven strategic and implementation support services, ensures that the most cost- and time-efficient solutions can be deployed. The goal is to capitalise on existing network investments while enhancing services in line with customer demand, applying tried and tested solutions combined with the latest NGN technology to address the specifics of network migration and rationalisation.



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# NETWORK INFRASTRUCTURE SERVICES AND SOLUTIONS

## NETWORK INFRASTRUCTURE SERVICES

A range of Products and Services to support Network operators in the Plan, Build and Operation of their Network.

### Network Planning

Planning of Network Implementation to meet the operator's requirements and forecasts. Prince 2-accredited project office with experience of complete Civil works, latest construction and implementation methods and multi-site/multi-technology implementations.

### Network Solution Design

End-to-end Solution Design capability, including requirements capture, design, documentation and solution validation and verification. Extensive experience of Network Technologies with particular specialism in Access Networks.

### Network Maintenance

Proactive Network Maintenance. Management and roll-out of Network Upgrades. Management of Network Migrations.

### Network Operations Centre

Security-accredited Network Management, providing 1st, 2nd and 3rd line maintenance. IT integration capability to integrate with Customers' Service Management centres. Network Test and Diagnostics.

### Network Construction

Fully accredited service delivery organisation for scale and project deployment. Management of Supply Chain and logistics. Ability to provide trainers to provide Fujitsu quality and methods to in-territory resource.

### Outside Plant

Full portfolio of outside plant solutions including Street Furniture, Blown Fibre Tubing, Fibre Optic Cables, Copper Cables, Fibre Distribution Terminals, Joint enclosures, Tube connectivity, Fibre Distribution Nodes.

### Inside Plant

Portfolio of inside plant solutions including iron work, racking, Optical Distribution Frames, Copper Frames and Security solutions.

### Implementation Control Centre

Co-ordination of network implementation. Ensuring appropriate approvals and permits. Risk assessment, ensuring right engineer, right part, right location, right time. Field force tracking and location management.

## NETWORK SOLUTIONS

A range of Network Platforms for the delivery of Services across the Network. Highly scaleable solutions providing low cost of entry.

### Optical Networks

Packet Optical Network Solutions providing the convergence of SDH, Ethernet and ROADM technologies. Hybrid TDM/Ethernet Switches. Core DWDM transmission systems with Wavelength Selectable Switches and Reconfigurable Add Drop Multiplexers. Access WDM.

### Carrier Ethernet

Ethernet Aggregation solutions providing Connection Oriented Carrier class Ethernet Solutions. Ethernet Connectivity Fault Management using IEEE 802.1ag. Network Termination and demarcation Devices. Ethernet First Mile solutions.

### Next Generation Access

Multi-Service Access Node solutions to allow migration of Voice services onto Next Generation Networks and the convergence of access networks to a single platform. Fibre to the Node technologies to allow the deployment of VDSL2 and PSTN services in Street Cabinets. Turnkey FTTH solutions incorporating Network Infrastructure Services. Fibre Multi-Service Access Nodes for consolidation of legacy services onto Next Generation Networks.

### Wireless Solutions

End-to-end solutions for WiMAX deployment and SDH radio for mobile backhaul. Fujitsu's broadband wireless range includes electronic devices and radio access network solutions, plus network provisioning and planning services.

## NETWORK AS A SERVICE

### MANAGED NETWORKS

Network-as-a-Service. Provision of end-to-end services to Small, Medium and Large Enterprises. Services based on Fujitsu Network Solutions providing high availability, low latency “Lean WAN” solutions for applications such as connectivity to Data Centres, Thin Clients and Cloud Computing.

#### Managed Wavelength Service

High Capacity managed data interconnects between key business sites, Data Centres and Storage Area Networks, realised using a fibre-based point-to-point or point-to-multipoint service using Dense Wavelength Division Multiplexing. Services are fully managed and transparent to layer 2 and layer 3 protocols. Turnkey solutions includes Site Survey, Solution Design, Fibre and cable services, external civils, Equipment supply, installation and commissioning, operating services and spares holding and repair.

#### Managed Ethernet Service

Provision of a low latency, highly reliable Carrier Class Ethernet service. Connectivity provided from 10M to 10G interfaces. End-to-end Service Operations and Maintenance. Fast Protection switching. Partial Rate Services and Traffic Monitoring and Management.

#### Managed Secure Network

Security accredited to Restricted Level Operations Centre and solution. Track record of supplying Government services to a secure level.

#### Managed Network Operations

Allows operators to outsource Network operations. Highly trained team of Network Operations professionals. Vendor agnostic approach. Track record of management of third party equipment.

### NETWORK APPLICATIONS

A set of applications to support the Cloud Computing era. Range of Network Applications to support the enterprise. Includes both Desktop and Mobile Applications.

#### Hosted VoIP

World-leading Class 5 Softswitch implementation providing Broadband Voice, Trunking to new or existing PABXs. Advanced Business Telephony Features, advanced call management. SIP Trunking and IP PBX backhaul.

#### Unified Communications

Unified Communications, Directory integration, Click-to-dial. Software Development kits and APIs to allow provision of innovative Web-based services. Support, consultancy and custom development services.

#### Mobile Application Services

Mobile Application Development. Mobile Professional including Lifecycle Management, Push email, security, calendar and other applications for Enterprise.

### OPERATIONAL SUPPORT SYSTEMS

Range of Applications and Systems Integration Capability to integrate the network with Operational Support Systems and Business Support Systems. Extensive track record of deployment of “flow through” systems, providing dramatic savings in Operation Costs and speed of Provision.

Provision of Managed IT Infrastructure, Managed Data Centres, Managed Desktop. IT Consultancy, Services and integration, to enable efficient operation of the Network.

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For more information please visit our website at  
[uk.fujitsu.com/telecommunications](http://uk.fujitsu.com/telecommunications)