

FlexaNetxDSL

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Access Management

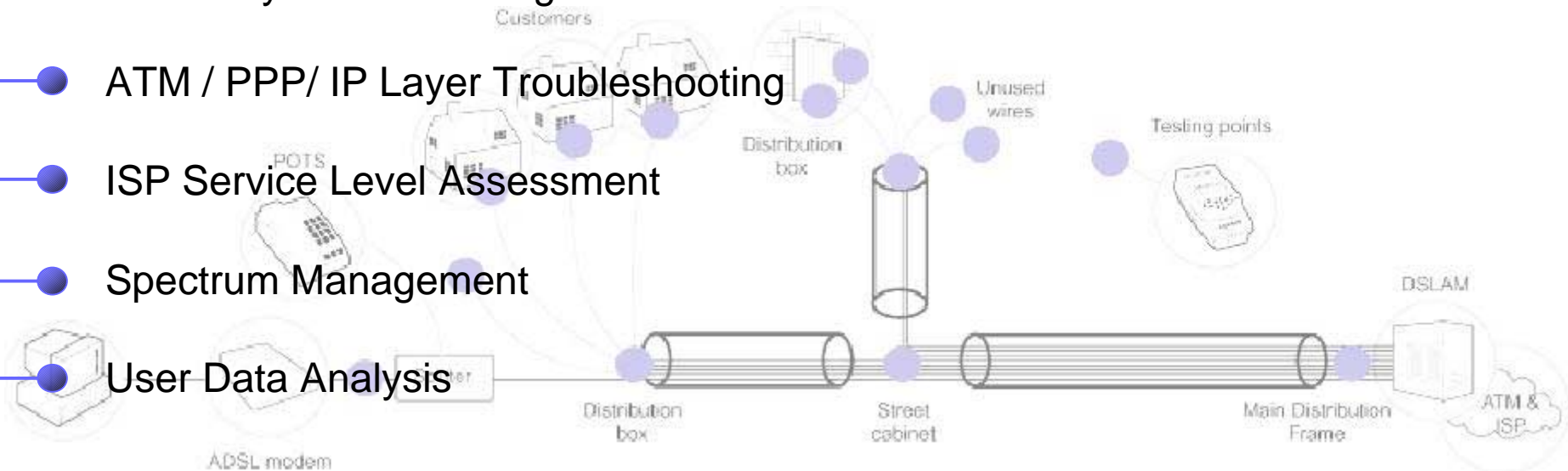
Complete single ended xDSL test



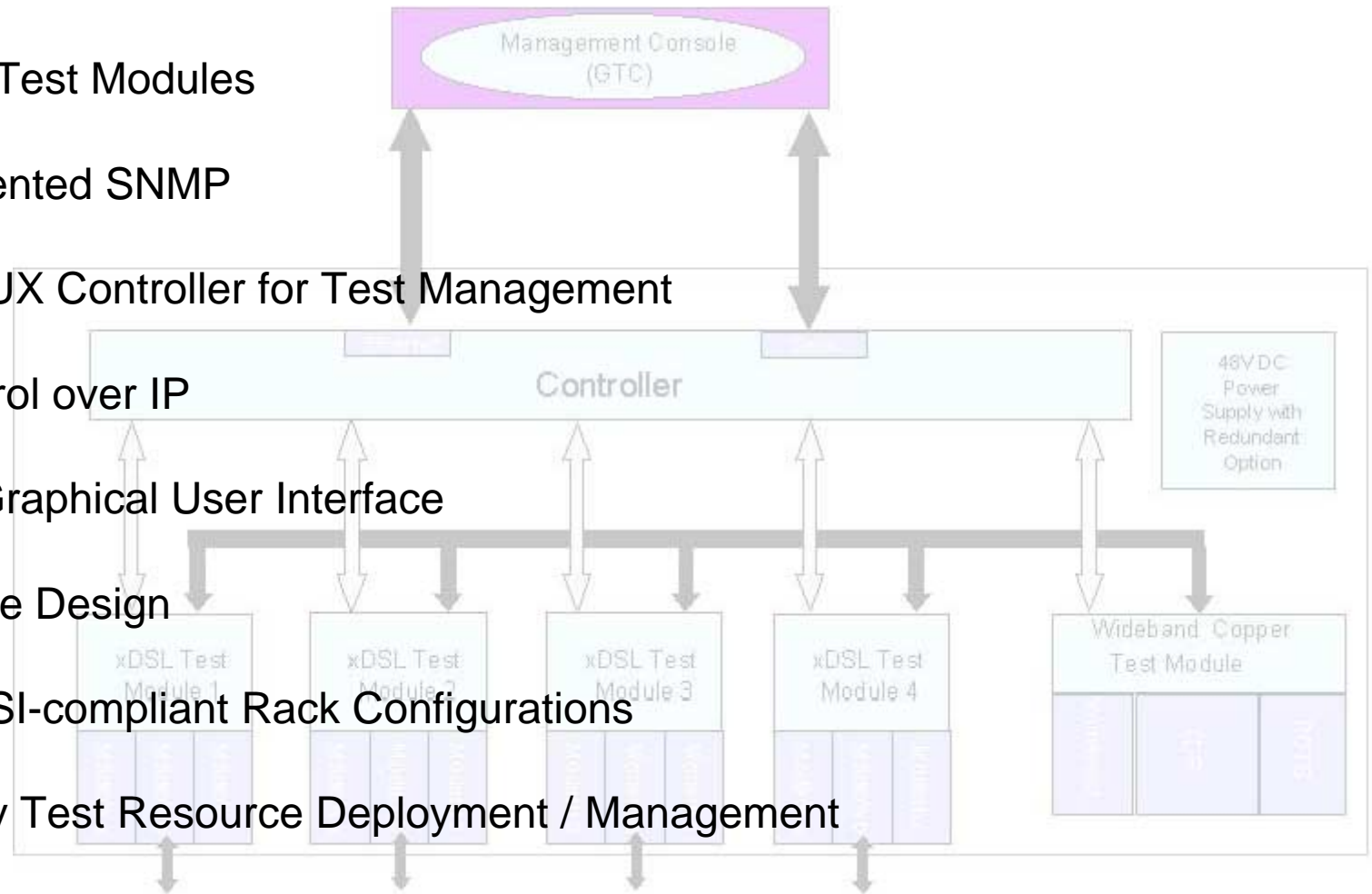
- Accelerates xDSL Deployment
- Reduces Operational Costs
- Assures Quality of Service
- Cost-effective
- Flexible
- Scalable
- Independent of Test Access Matrix
- Readily Integrates into any Network Management System



- Copper Pre-Qualification
- xDSL Service Commissioning
- Copper Loop Fault Identification and Location
- xDSL Layer Fault Management
- ATM / PPP/ IP Layer Troubleshooting
- ISP Service Level Assessment
- Spectrum Management
- User Data Analysis

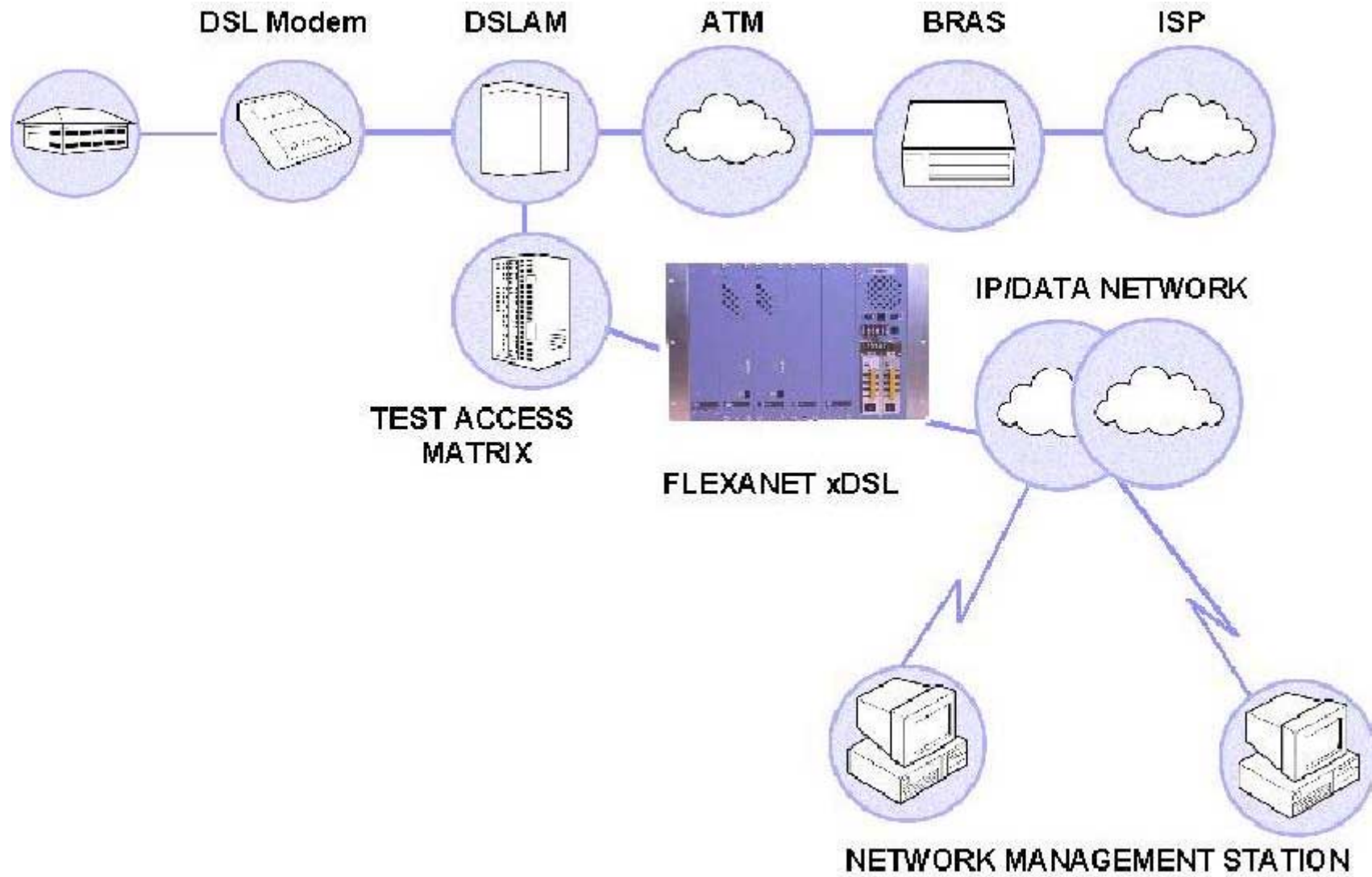


- Field-Proven Test Modules
- Fully Instrumented SNMP
- Powerful LINUX Controller for Test Management
- Remote Control over IP
- Java-based Graphical User Interface
- Open Interface Design
- Choice of ETSI-compliant Rack Configurations
- Plug-and-Play Test Resource Deployment / Management



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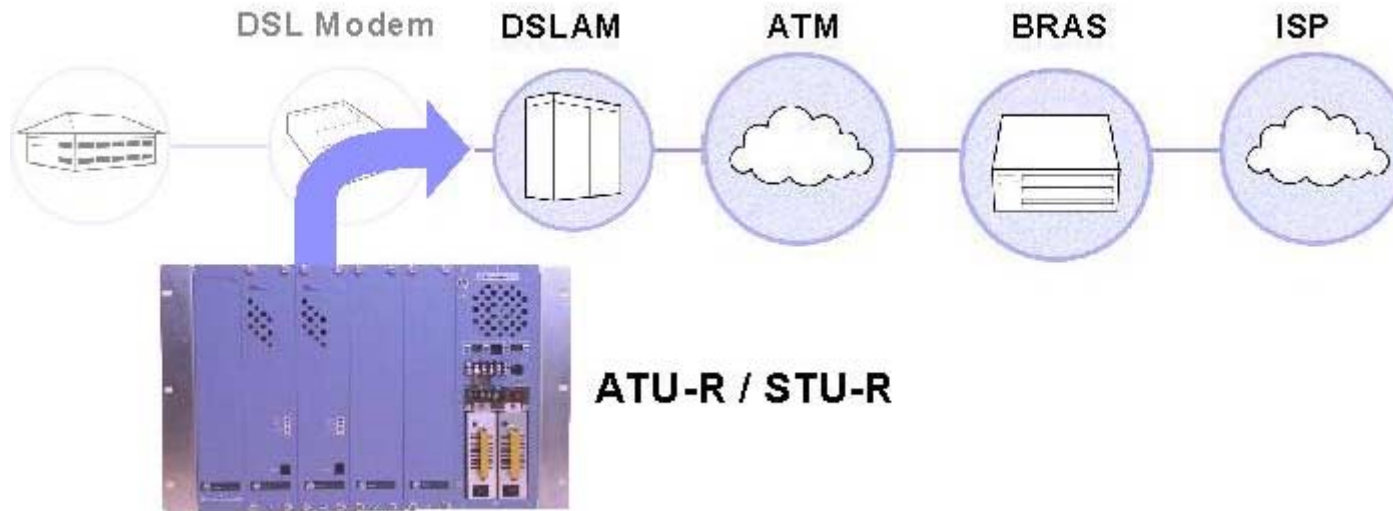
Network Topology





- Application Layer Testing - HTTP Server Emulation
- IP Layer Testing - IP Ping
- PPPOA/PPPOE Layer Server Emulation - Authentication
- ATM Layer Testing - OAM F5/F4, Ping, BERT
- xDSL Layer Testing - Performance Reporting
- xDSL Layer Testing - Sync / Showtime Checking
- Copper Layer Testing - Loop Parameter Measurement





Application Layer Testing - HTTP Bandwidth Testing



IP Layer Testing - IP Ping



PPPOA/PPPOE Layer Client Emulation - Authentication



ATM Layer Testing - OAM F5, Ping, BERT



xDSL Layer Testing - DSLAM Setup Troubleshooting

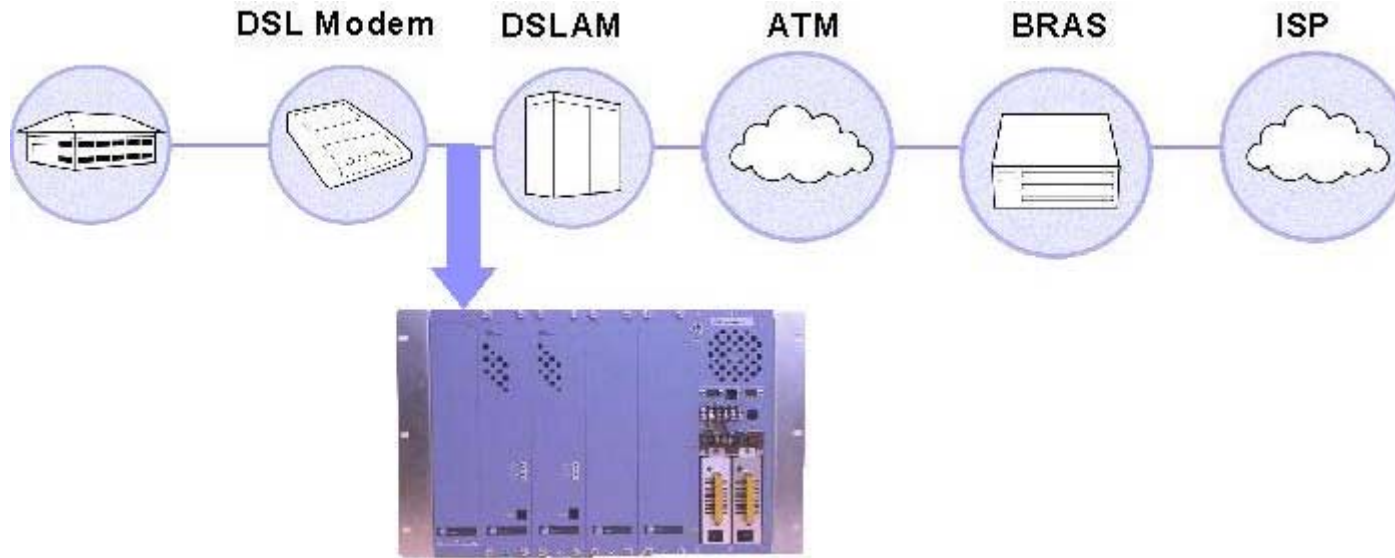


xDSL Layer Testing - Sync / Showtime Checking



Physical Layer Testing - DSLAM Signature Detection





Physical Layer Testing - Spectrum Management





Interception / Analysis of User Data for:-

Debugging of Application Layer Problems

Law Enforcement



- Metallic Tests - Voltage, Resistance, Insulation, Capacitance
- Line Length Estimation
- ADSL Bit Rate Evaluation
- Return Loss Measurement
- Noise Measurement
- Insertion Loss Measurement
- Longitudinal Balance Measurement
- Time Domain Reflectometer
- Power Spectrum Density Measurement



- Auto Copper Test - Expert Fault Identification
- Auto xDSL Test - Full Testing of every Layer
- Manual Copper Test - Individual Test Control for Experienced Users
- Manual xDSL Test - Detailed Analysis at each Layer
- Guided on-line Expert Help
- Automatic Test Report Generation
- Powerful Scripting to Create New Testing Scenarios

