Integration Services



Accelerate your ability to deliver revenue-generating services.

Lucent experts perform the critical functions needed to quickly bring together disparate hardware, systems and software elements to help make your network function as an integrated solution and ready to begin generating revenue.

Overview

Our Integration Services portfolio provides the resources and expertise required to transform your installed network elements, operations and business support systems and applications software into a high quality, optimized, fully tested and revenue ready network.

Our highly trained integration experts utilize a combination of specialized services, from consultation to on-site deployment, to help make your transition to new technology transparent to subscribers. Our services encompass all phases of work necessary to integrate new components into your existing multivendor network, so you can have a fully tested working network that is up and running, ready for live traffic and revenue generation.

Our Integration Services portfolio is comprised of three service categories: Network Integration, Operations Support Systems/Business Support Systems (OSS/BSS) Integration and Application Integration.

Benefits

- Transform installed network elements (NEs) and Element Management Systems (EMSs) into an optimized, fully tested and revenue-ready network with professionally implemented and well-planned network integration
- Utilize our expert resources to develop, manage and deploy a comprehensive system and software solution that helps achieve your operational objectives with OSS/BSS Integration Services
- Provide end-to-end integration of your applications and services to allow you to achieve your business goals and meet the operational needs of your network infrastructure with our comprehensive Application Integration Services
- Begin generating revenue sooner by achieving integration from our cohesive, optimized solution
- Help you get the most out of your network and minimize Opex through automation and data integration

Services

- **Network Integration Services** bring together elements and element management systems (EMS) across access, transport and core network components for wireline and mobile voice and data networks to make a network function as a solution.
- **OSS/BSS Integration Services** provide integration of your OSSs used to manage communications networks and BSSs used to manage your business operations.
- **Application Integration Services** provide for the planning and integration of your customer-facing applications residing in your Data Center and other software-based network services in your wireless or wireline network.

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Network Element Integration and Element Management Systems (EMS) Integration Services address the implementation of network elements and element management systems within networks, covering multiple technologies, to include fixed access, optical, circuit switching and data.

Network Element Integration Service takes individually installed elements in a network, applies configuration parameters, interconnects the elements, and tests the resultant solution, thereby turning the standalone elements into an operational network that can accept customer traffic. This service is performed following the completion of physical installation of your NEs.

The **EMS Integration Service** installs and configures the EMS in your network, and establishes connectivity between the EMS and the relevant NEs to allow manageability.

Features

NETWORK INTEGRATION SERVICES

- **Data Network Integration Service**

  Creates and implements customized network element (NE) and EMS interconnection and provisioning plans, test plans, cutover procedures and detailed documentation for new data networking deployments or upgrades of existing data networks

- **Data Network Integration "Lite" Service**

  Provides a network that is "ready to configure for traffic" when you partner with our integration experts to perform integration activities across data elements and element management systems (EMSs)

- **Optical Network Integration Service**

  Creates and implements customized NE and EMS interconnection and provisioning plans, test plans, cutover procedures and detailed documentation for new optical networking deployments or upgrades of existing optical networks

- **Optical Network Integration "Lite" Service**

  Provides a network that is "ready to configure for traffic" when you partner with our integration experts to perform integration activities across optical elements and EMSs

- **Switching Network Integration Service**

  Provides the critical functions needed to integrate Lucent Switching products into an operational solution within a network and the Public Switched Telephone Network (PSTN)

- **Element Management System (EMS) Integration Service**

  Installs and configures the EMS on your network and establishes connectivity between the EMS and the relevant network elements to allow manageability

- **Fiber Optic Characterization Service**

  Provides analysis of the dark fiber used to implement an optical network with four types of field testing measurements: optical loss, optical time domain, chromatic dispersion and polarization mode dispersion

CUSTOM NETWORK INTEGRATION SERVICES

Offers a flexible service option that enables customization of your network integration to meet your specific unique requirements with our consulting expertise and staff augmentation:

- **Network Integration Consulting Service**

  Enables our personnel to provide on site consultation during integration activities performed by your personnel

- **Integration Resident Engineer Service**

  Provides the support of our on site integration personnel to augment your staff

OPTIONAL SERVICES

- **Solutions Integration Service**

  Provides the necessary support to integrate your NEs and EMSs involved in a specific solution across multiple technologies

- **Integration Lab Testing Service**

  Provides pre-field deployment testing activities such as interoperability and configuration testing

- **Network Integration Knowledge Transfer Service**

  Provides hands on technical training on the new NEs and EMS integrated at your site

- **Data Communications Network (DCN) Design and Integration Service**

  Provides detailed integration design work of your DCN followed by complete integration of the DCN

Features

OSS/BSS INTEGRATION SERVICES

- **Integrated Solution Planning Service**

  Transforms your operational objectives and desired benefits into a viable solution by providing comprehensive technical guidance to help you achieve mission critical OSS and BSS solutions. As part of the planning process, our experts produce solutions requirements, operational scenarios, and logical and physical architectures to meet your specific needs.

- **Project and Vendor Management Service**

  Enables the coordination and management of activities during software project implementations, while utilizing many of Lucent's existing vendor relationships. Our personnel manage coordination, risks and communications to produce on-time results and enable your work force to focus on your business.

- **Deployment and Configuration Service**

  Performs the activities required to implement your software in a thorough, efficient and effective manner consistent with the contracted business and operational requirements.

- **Custom Software Development Service**

  Facilitates operational excellence through increased integration of systems and data to help your network reach the full OSS/BSS functionality required to effectively operate your business. Includes all specialized software adaptations for your software integration and can be used to develop enhancements to software systems outside of their existing functionality.

- **Service Readiness Service**

  When provided as part of an Integrated Product Delivery, this service encompasses total project solution architecture and functionality testing. This testing helps ensure a fully integrated solution in which all of the solution function according to your needs and expectations before the solution is delivered to your production site. As a stand-alone service, this can include solution verification, Methods and Procedures verification, solution documentation, training and operations testing.

- **Continuing Engineering and Optimization Service**

  Designed according to your product or solutions focused needs with five primary services for a software solution: Performance Optimization, Process Optimization, Revenue Recovery & Data Migration, Software & System Upgrades Support and Consulting & Customized Knowledge Transfer.

OSS/BSS Integration Services play a vital role in meeting your needs by planning, integrating and optimizing software solutions for your new and existing multitechnology, multivendor network environments. These end-to-end services help ensure a complete solution, integrating operations support systems used to manage communications networks and business support systems used to manage the service provider's business operations.

Features

APPLICATION INTEGRATION SERVICES

- **Security and Business Continuity Engineering Service**

  Analyzes your networks, systems and processes and reviews the current configurations, plans, and organization policies to address issues concerning policies, expectations, team membership with the publication and distribution of plan information that supports various areas of your organization

- **Implementation Planning and Analysis Service**

  Identifies the new and existing infrastructure requirements necessary to enable new service(s) including a brief description of product interaction

- **Management Systems Integration Service**

  Develops a management system architecture that facilitates rapid deployment of new services and applications for your subscribers and enterprise customers to enable integration of your people, tools and processes

- **Mobility Applications Software Engineering and Integration Service**

  Provides end-to-end integration of the end user services application(s) and/or service-enablers to help ensure successful delivery and meet operational needs of your service portfolio

- **Network and Applications Integration Service**

  Provides end-to-end integration of your infrastructure and software systems to help ensure successful delivery and meet the operational needs of your requested applications, while at the same time verifying those applications are working trouble free across the entire system

- **Operations and Management Service**

  Develops and implements a proper framework for executing operations and management of your networks, services and applications

- **Performance Engineering Service**

  Analyzes current and future performance of your networks, applications and deployed services by providing a blueprint for how management of the infrastructure should be executed to ensure that application and service performance levels are met with high confidence and reliability

- **Detailed Systems Design (DSD) Service**

  Gathers the high level architecture and completes detailed engineering specifications with a "blue print" that the System Integration (SI) team utilizes to implement a complete end-to-end multivendor, multitechnology solution for your applications and associated hosting infrastructure

Application Integration Services include the implementation of data center hosted service provider applications and services. This includes the deployment of hardware platforms, IP data networks and infrastructure software, such as operating systems, network management systems, database engines and end-user applications.

Lucent Worldwide Services Advantage

Lucent Worldwide Services has more than 14,000 experienced and highly skilled technical professionals dedicated to developing, deploying, operating and maintaining global networks. Our proven track record of successful networks is powered by Bell Labs innovations and our end-to-end, comprehensive portfolio of professional, deployment and operations and maintenance services. Our unsurpassed suite of solutions can help reduce operating expense, leverage capital expense and grow revenue - helping you make your network more profitable throughout its lifecycle.

To learn more about our comprehensive portfolio of Network Integration Services, please contact your Lucent Technologies Sales Representative or visit our web site at www.lucent.com.

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