

### Thanks to the service – **LAN Modernization** – included within IT Solution & Services portfolio, the information system updating is not anymore an Utopia.

The service provided by Sintesi makes possible the communication between the companies headquarter and its local offices through a geographic network, also able to support voice and video traffic.



**IT Solutions & Services (IT-S&S)** is Sintesi offering for the Finance, Industry and Public Administration markets. It satisfies all enterprise requirements: consultancy, software solutions designing and development, enterprise application management, information system management.

**IT-S&S** offers both activities of software solutions consultancy, designing and development, and services of information system management.

#### Background

Sintesi was commissioned by a medium-large enterprise to organize and implement the entire LAN infrastructure, by that moment out-of-date and not anymore suitable for the company's needs.

#### The problem

The opening of new offices and the staff extension implied a set of difficulties related to company LAN management. The increase of LAN clients involved the extension of the IP range which became inadequate for supporting the growing number of services. Another problem encountered during the use of the old information system was related to low LAN speed and scarce security during the data transfer between the offices. Given the above mentioned difficulties met during the management of the pre-existent LAN corporate, the change was required.

#### The service

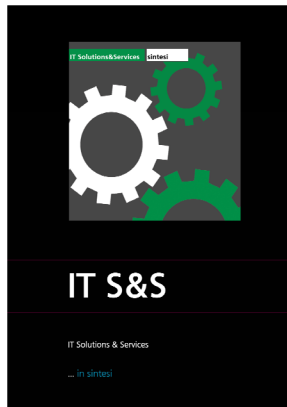
The project proposal was presented to Sintesi at the end of October 2008. The LAN roll-out started in the second half of November 2008 and it was completed in 3 months.

The first project phase was carried out for a month, until the second half of November and it concerned the implementation and mail server migration from MTA Sendmail (Squirrel) to Zimbra (PostFix). Samuele Anastasi, project manager:

*"We encountered several difficulties during the migration of the e-mail addresses and distribution lists due to their high number, but the major arduousness was rendering transparent the entire process to the end-user"*

The second phase of the project began on December 20th and lasted less than a month, until 15 January 2009. A new software, Open Source, devoted to the all Routing/Firewalling and Unified Threat Management, was implemented.

The advantage of using the Linux software, Endian Firewall Community, consists of being equipped with an all inclusive solution (web filter, proxy, firewall, VPN and internal DNS) that makes from simplicity and versatility an unique and innovative product.



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Through the new web filter and the transparent proxy, the control of login related to the web pages visited by the internal clients occurs in real time.

The new Virtual Private Network (VPN) utilizes links that require authentication in order to guaranty that only authorized users may accede.

The third phase lasted 10 days, from 15 January 2009 until 25 January 2009 and it regarded the implementation of a Domain Name System (DNS) able to manage the Public IP and appliances exposed to the internet through a virtual machine.

The forth phase had as main goal the implementation of new domain policies and it was carried out from 1 February 2009 until 10 February 2009. The new policies improve the performances of older clients, the browser's security, the configuration and installation of critical patches, etc.

The last phase of the project had as object the server consolidation through the employment of new servers and the creation of virtual machines. The aim of the process was to centralize databases, increase the performances, enlarge the services and consolidate back-up and reinstatements in case of disaster recovery.

### Implementation period (days/person)

Altogether the project required 75 days/person. The project end was brought forward by approximately 20 days. The project release was expected for the end of February.

### Benefits

The client company, due to the service **LAN Modernization** provided by Sintesi, have at its disposal an information network complete of services, with much more functionalities and that guaranties a major security and management.

### Present status

Te project implementation was successfully carried out and nowadays the client uses, satisfied, the new system. A later intervention from the part of Sintesi could be just related to the bare minimum maintenance works.