



# Case Study

**Industry: Information Technology Services**

**Objectives:**

- Replace the existing link balancer solution for Internet allocation, which did not ensure sufficient availability
- Provide highly available access to hosted servers on two business-grade Internet accesses
- Securely manage the five public sub-networks of the two business-grade Internet accesses
- Add four ADSL carrier links to the business-grade Internet links to increase overall Internet bandwidth devoted to internal users
- Provide Internet access to internal users and give preference to business usage

**Solution:**

- Two Elfiq Link LB-3000s with high availability
- One additional Elfiq Link LB-3000 for backup purposes
- IDNS implementation
- ITS GROUP for target architecture design and Elfiq professional services for validation

**Benefits:**

- Availability of Internet services even in the case of Internet access provider failure
- Possibility of increasing Internet bandwidth by up to 500 Mbs without impacting internal equipment
- Real load balancing among six ISPs as per on the service quality policies
- Optimized bandwidth, adapted use of Internet access and prevention of overload risk
- High availability of two real load balancers

***“The Elfiq solution lets us maximize our Internet assets compared to the previously deployed solution and to deliver superior service quality to all users.”***

**Jean-Christophe LONDE**  
Director of Operations

**Systalians Overview (France)**

Since 2006, Systalians has been the IT partner of companies devoted to social welfare systems, such as Réunica, Bayard or Arpège pension funds. Systalians manages information and telecommunication systems with 3,500 internal users and 4 million beneficiaries.

**Challenges**

Systalians must ensure high availability Internet services for both internal users and beneficiaries. The previously implemented link balancer product did not provide such availability for the services available on the Internet because the solution did not correctly manage the numerous sub-networks linked to the professional Internet accesses.

Systalians wanted to be able to easily increase the volume of Internet traffic in order to achieve the forecast growth of activity in years to come.

Finally, Systalians wanted to facilitate the implementation of the disaster recovery plan and the recovery of critical applications at a remote site. Many of these critical applications rely on Internet access availability.



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## Solution

Two Elfiq Link LB-3000s with mutual redundancy are installed at the main production site in two separate equipment rooms. A backup LB-3000 is permanently available to limit downtime with no redundancy in the case of equipment failure.

The Elfiq Link LB-3000 has a higher capacity than initially needed to guarantee an increase without impacting Internet bandwidth.

Two VFIs (virtual load balancers) are available to include Elfiq GeoLink technology in the near future, which will provide incremental redundancy for implementation of the disaster recovery plan at several remote sites.

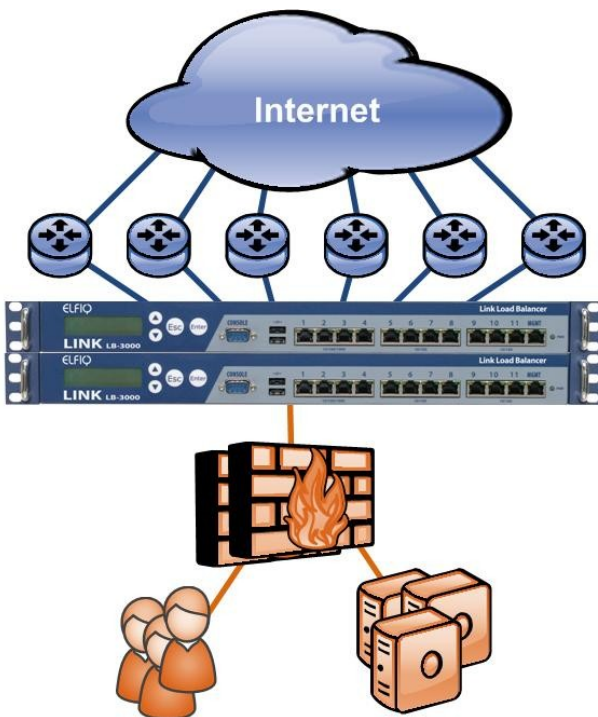
## Benefits

The two Elfiq Link LB-3000s ensure complete redundancy of Internet services, even for the public IP sub-networks linked to the business Internet links, which was not the case with the previous solution.

Incoming and outgoing business traffic is balanced on both business accesses. The failure of one of these carriers will impact users for a period ranging from a few to about ten seconds at most.

Non-business traffic uses dedicated Internet carrier links to avoid any impact on business applications. In the event these ADSL circuits should totally fail, the business Internet links can be used as a backup.

Overview of Systallians' Elfiq Implementation



Elfiq Link LB-3000



Maximum number of WAN links	160
Maximum throughput (full duplex)	800Mb/s
Maximum number of concurrent sessions	1 536 000
Seamless integration	Yes
Quality of Service and traffic segmentation	Yes
Time of day configuration management	Yes
Condition-based balancing	Yes
Intelligent DNS	Yes
SitePathMPTX Resilience	Yes
Geolink option	Yes
Format	1U

To learn more about how Elfiq Networks can help your organization maximize its IT infrastructure please contact us at: sales@elfiq.com • www.elfiq.com • 888-GO-ELFIQ • (+1) 514-667-0611