# Cisco Advanced Services helps City of Paris create and operate one of the world's largest MANs


## Summary

### Goal

- Implement a fiber-optic broadband network for 2000 sites (incorporating 500 sites each year), allowing users to access new functionalities and innovative services without bandwidth limitations
- Cut network operating costs by having the City of Paris IT team managing the network

### Solution

- Create a new system, utilizing a fiber-optic broadband network and the Cisco MPLS/VPN solution
- Receive ongoing support from Cisco Advanced Services, from the initial planning stage to the implementation phase, to provide users with a stable, safe network and improve the skills of the City of Paris IT team

### Results

- 500 sites connected to the fiber-optic network at the end of 2009, allowing significant cost savings and the cancellation of subscriptions to telephone companies
- Increase use of the IT system not only for desktop applications (email, Internet) but also for professional applications
- Implementation of new services including IP telephony and video protection


A more reliable, faster, cost-effective broadband network is able to connect all 2000 sites across the City of Paris

## Background

- Customer Name: City of Paris
- Industry: Municipal agency
- Headquarters: Paris, France
- The City of Paris is the largest local government admnistration in France, serving more than 2 million residents
- Number of employees: 50,000
- One of the world's largest metropolitan networks with 2000 sites, including:
  - 660 schools
  - 110 junior high schools
  - 305 daycare centers
  - 69 libraries
  - 14 museums

In 2007, the City of Paris began planning a very ambitious project to upgrade its IT system from an ADSL and SDSL-based network to a fiber-optic broadband, connecting all of its sites.

“With our previous IT system, only the 50 largest sites were using a fiber optic network,” says Bruno Martini, manager of the network and production division, IT division, City of Paris. “The others were connected to the xDSL network. We wanted to implement the newest technology to improve the reliability and performance of our IT system while connecting our 2000 sites to the network. Our objective was essentially to improve the overall quality of the network while cutting our costs.”

## Collaboration with Cisco Advanced Services

To achieve such an ambitious goal, the City of Paris IT team needed a partner able to provide state-of-the-art technology along with extensive technical expertise, an innovative approach, and the ability to address unexpected issues.

The City of Paris chose Cisco Advanced Services to help develop its MAN IP due to the state-of-the-art technologies and staff expertise offered by Cisco.

Cisco Advanced Services was able to:

- Help the City of Paris design the new system architecture, allowing the network to support existing and new features
- Provide advice to ensure that the network is reliable and safe with NOS (Network Optimization Services)
- Work closely with the City of Paris IT team to quickly improve their technical knowledge, allowing them to manage a complex network
- Proactively collaborate with the City of Paris IT team to anticipate and address unexpected network issues

> "With the operating network that Cisco Advanced Services helped us create and implement, users can have better, faster access to all features that a broadband system offers."
>
> **— Bruno Martini, manager of the network and production division, IT division, City of Paris**

## Next steps

The THD network is a progessive solution, and the City of Paris continues to work with Cisco Advanced Services to deploy 500 new sites each year. The City of Paris is also considering a network extension and studying new services such as videoconferencing. Schools will also be connected to the network, enabling the implementation of digital workspaces.

"With the help of Cisco, we can now implement state-of-the-art tehnology solutions that meet the needs of a world-class city," says Martini.

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