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## Case Study

# Raydesk at Occupational Safety Research Institute



The Occupational Safety Research Institute (VÚBP) is a public research institution (v.v.i.) founded by the Ministry of Labour and Social Affairs of the Czech Republic. For over 50 years, its main activities have been scientific research, verification and application of methods and means in the area of risk prevention relating to health or life impairment of persons, the environment and patrimony, relating to work activities and improving well-being at work and as well as quality of working life. The Institute is a member of several important international organisations and associations such as WSO or PEROSH, participates in EUROSHNET and is a partner to ENETOSH.

### Business requirement

- Ensuring secure user access to the BOZP kiosk information system.
- Centralised user and application administration.
- Ensuring secure and controlled access by external users for work with the organisation's data.
- Realisation of an information terminal at a remote branch and at other agencies.
- Lowering total cost of operation and maintenance of the information kiosks infrastructure.

### Proposed solution

- Sun Ray 270 virtual display terminals at the central office.
- Sun Ray 270 terminals at branches, access through ADSL.
- Sun Fire X2100 central administration server with the Red Hat Enterprise Linux 4 operating system.
- Raydesk 2.0 desktop environment that fulfills the organisation's requirements for simplicity and centralisation of data.
- Connecting virtual display terminals through VPN with no other investment in hardware.

### Solution benefits

- Lower operating costs thanks to the centralised administration.
- User access restricted to specific applications at a designated time.
- Minimal cost of profile and hardware maintenance.
- Very easy expandability to other offices.
- Lower risk of a terminal being stolen as opposed to a regular PC.

### Starting Position

The organisation was at a point where it was deciding how to implement a required solution of



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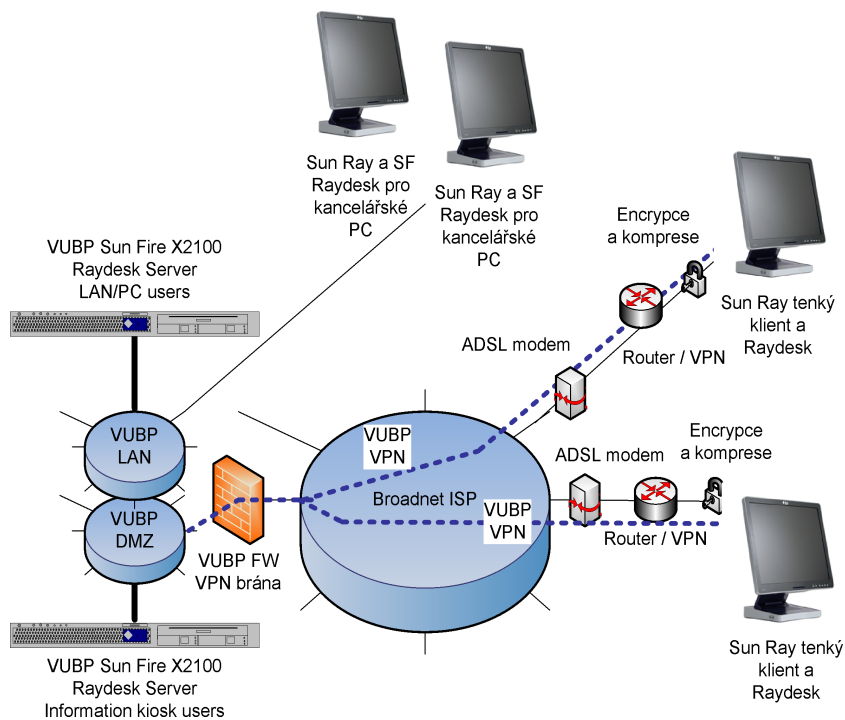


information kiosks (IS BOZP) in remote offices and other agencies that cooperate with the Occupational Safety Research Institute. It was not necessary to carry out any configuration changes to the IT infrastructure. The starting goal was to find a solution for publishing applications or information to local and remote offices, and to build a network of BOZP information kiosks.

### Solution

The proposed solution is based on a centralised configuration of networking parameters with the help of the DHCP protocol. The DHCP runs on a supplied Sun Fire X2100 server with an AMD Opteron CPU. There is also a controller server for the Sun Ray ultra-thin clients running on the same machine. The ultra-thin clients are located at the central office. Others are at the branches and connected through ADSL and VPN. The advantage of terminals, or virtual display units, lies in the fact that they are a fully remotely-administered solution without RAM, CPU, or HD. All system resource requirements are limited to fail-over controlling servers that service the Sun Ray 270 and Sun Ray 2 clients with built-in LCD's. As opposed to Citrix-based terminals or HP and IBM solutions, adding applications in user profiles will not increase RAM and CPU requirements.

Another contribution to the protection against tinkering with the operation and settings of the BOZP kiosks is the deployment of the Raydesk desktop environment by Stickfish. This graphical user interface limits the use of a desktop to applications specified in a user's profile. In the case of the Occupational Safety Research Institute, the kiosk's desktop is limited to two icons available to the user. Should a new tool or application be required, a change of the user's or user group's profile ensures necessary rights to use it. Such tool will be represented by a new icon on the Raydesk desktop. All settings are done by a desktop administrator from the comfort of his or her web browser in the space of a few seconds. The client had very limited requirements when it came to applications. The only requirement was a web browser for access to the BOZP kiosk application and maybe the OpenOffice.org office suite in the future.





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## ***Client's Evaluation***

In 2006 the Occupational Safety Research Institute began to look for a solution for a project by the European Social Funds (ESF) called "Contact place for safety and protection of health at work in the Prague region". This project required the creation of a network of information terminals/kiosks connected through the Internet to the central terminal server located at VÚBP.

A terminal solution based on a server and thin clients by Sun Microsystems has been chosen as a technology solution for the information infrastructure. Raydesk by Stickfish has been chosen for the graphical user interface of the thin clients. This solution has been primarily chosen because of its low bandwidth requirements, easy and straightforward configuration, stable operation, etc. The solution provided us with a quality front-end for end users that allowed for the creation of different user profiles with the possibility of individual configurations on terminal clients. Among its advantages was also centralised administration from one web console.

By choosing this solution we were able to lower our TCO which is a big advantage over workstations based on classical desktop computers. Cooperation with Stickfish was very professional. Implementation throughout the network proceeded without any complications and over a very short period of time. Overall, we are very satisfied with the solution and the supplier's approach.

Oldřich Kolínský, IT manager VÚBP

## ***About Stickfish***

Stickfish is an ICT company specializing in enterprise VDI (Virtual Desktop Infrastructure). Stickfish also provides solutions from leading vendors such as Sun, IBM, Red Hat, Oracle, or VMware, advanced networking products from Juniper and Cisco, and also its own highly secure and fast virtual enterprise desktop solution Raydesk. Stickfish operates popular electronic store 64bit.eu.

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