

# CareerStorm Navigator™

## Security

### The Server Centre

CareerStorm servers are situated in Finland in the Helsinki metropolitan area at a high class server centre. The centre meets the demands of the Finnish Communications Regulatory Authority for A-class equipment premises (FICORA 48 B/2004, Section 5 "Priority premises"). The centre is equipped with techniques that guarantee high usability:

- Passage control and camera surveillance
- Burglary protection and alarm system
- Protection against humidity
- Fire proofing and protection systems
- Doubled ventilation system
- Secondary power system

### Network Connections

The high usability server solution makes it possible to use action critical services 24/7/365. The server centre is connected to several independent network operators with one gigabit optical fibres. Routing is done by a fault tolerant BGP4 routing protocol where network reliability is ensured by independent network connections. Every IP-packet travels via the quickest route possible to the server centre, which makes the connections work fast and guaranteed. The high class usability achieved this way makes it possible for telecommunication links to work well irrespective of faults in the operator level.

The working of the Pro-Active network connections are guaranteed with the following methods:

- Optical fibre connections from several operators
- BGP4 routing protocol
- Doubled routers
- Doubled active network components
- Round-the-clock network supervision

### Accessibility

The operation of both the network connection and the server is constantly supervised (24/7/365), and deviations will be handled immediately. Statistics of the Internet visibility of the service are compiled at the precision of thirty minutes. The achievability of the service is tested from servers located in various locations in Europe and the United States, so the statistics include disruptions in the international connections. During our years in operation, the level of availability has always been above 99.7% (on average there have been less than one break every three months, and the longest continuous break lasted for 2 hours). However, access to the system may be temporarily unavailable from some countries due to normal temporary glitches in the international Internet network beyond our control.



## Performance

Even in the case of high demand, the system will be able to accommodate a high number of concurrent users, in the order of hundreds or even thousands of web requests per second (and this can easily be increased if demand grows higher). The way that the application is used is such that users never really log in at exactly the same second, so performance is not really an issue here. Even in the case of hundreds of thousands of users, the nature of the process is more geared towards thinking and self-reflection which means that while logged in, the users will spend 5-30 minutes on each page, and thus not cause constant traffic on the server, and most users will only use the tools 1-5 times within a period of a couple of weeks. Thus, the question becomes more of storage space which is constantly monitored on our servers and increased automatically when current storage devices are filling near their capacity.