# CASE Tieto: NovaBackup

## How do you Backup over 8 Petabytes of Data per Month on more than 8500 Servers (With a Staff of Only 14 People?)

**Global service provider Tieto protects one of the largest corporate data loads worldwide with NovaBACKUP DataCenter.**

Tieto is an IT service company providing IT, R&D and consulting services. With approximately 17,000 employees in nearly 30 countries, Tieto is among the leading IT service companies in Europe and is a global leader in selected segments.

### The Challenge
As one of the largest IT service companies in Europe, data protection is a core element of Tieto's business. Extreme data loads and explosive data growth rates, combined with high availability demands, make data protection an extraordinary challenge for Tieto.

### Planning for Future Growth
Like most companies, Tieto's data volume is rapidly increasing. By 2013, company data is projected to more than quadruple to a staggering 38 petabytes per month. In order to protect an exponentially growing amount of data, Tieto requires backup software that is extremely scalable while maintaining high data throughput. Fault tolerance, reliability and stability are also important, as the entire backup infrastructure is managed by a team of just 14 people.

### The Solution
For over a decade, Tieto has relied on NovaStor's enterprise backup software, NovaBACKUP DataCenter, to protect their digital assets. Its unique, open architecture provides a reliable, scalable and cost-effective solution to any company who is struggling to protect growing amounts of data while keeping storage administration costs down. NovaStor's continuous development and enhancement have allowed them to cope with Tieto's ever increasing requirements for speed, data throughput and all around performance. In fact, Tieto is so confident in the scalability and performance of the software that they recently requested another installation of NovaStor's NovaBACKUP Datacenter, this time at their new data center in Moscow.

### Total Cost of Ownership: The Key to Cost-Effective Data Protection
For companies dealing with large data volumes, protecting all that data can put a serious strain on their IT budget. At Tieto, the entire backup infrastructure is managed by a team of just four on-site backup specialists, along with 10 off-site operators providing remote 24/7 incident management and restore services. This, combined with NovaStor's simple, all inclusive licensing model, allows Tieto to maintain a drastically lower cost of ownership for their backup infrastructure compared to other companies who use high priced, mainstream software solutions to protect large amounts of data. This is made possible by the high performance and reliability of NovaBACKUP DataCenter, which currently allows them to back up 13.2 billion files a month, representing 8.2 petabytes of data, with a successful backup rate of 99.09%.

### NovaBACKUP DataCenter
NovaStor's enterprise backup solution, NovaBACKUP DataCenter, is designed for a range of enterprises, from medium sized IT environments to large multi-site infrastructures. The software has a long and proven track record with large, international corporations.

High performance, low operating costs as well as superior reliability and tolerance for user error make NovaBACKUP DataCenter one of the leading systems for platform neutral data backup in flexible IT environments. NovaBACKUP DataCenter provides data

protection for many operating systems and applications and supports all commonly available storage media.

**Installation at a glance**

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|---|---|
| Backup success: | 99.09 % (2009) |
| Backed up data: | 8,172 TB/month (May 2010) |
| Backup jobs: | 310,000/month (May 2010) |
| Backed up files: | 13.2 billion files/month |
| (May 2010) | |

**Management & Availability**

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|---|---|
| Team: | 4 operators & 10 off-site operators |
| Backup success: | 99.09% (2009) |
| Nodes backed up: | 8,562 (May 2010) |
| Backup servers: | 35 |