

**Novozymes** is world leader in Bioinnovation. Novozymes laid the foundation for the market of industrial enzymes in 1941.

Novozymes employs around 5000 people worldwide, of which 2300 work in Denmark.

With more than 700 products in 130 countries Novozymes' Bioinnovation is divided into the following business areas:

- Detergent enzymes
- Technical enzymes
- Food and Feed enzymes
- Microorganisms
- Biopharmaceutical ingredients

**Rantek A/S** is a danish IT-company with more than 10 years of experience. Along with our technology-partners and resellers, RanTek supplies effective and reliable IT-optimization solutions and create proven value and significant financial savings for our customers.

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## Novozymes triples its virtual WAN capacity with Riverbed

Novozymes has globally optimized the WAN network with Riverbed Steelhead Appliances in order to obtain fast response times and improve application performance. In the process, the company has gained considerable capacity on their lines, as only one of every three data packets are now being transmitted over the WAN. The result of WAN optimization is a reduced bandwidth need of 65 per cent, higher efficiency and improved competitiveness.

At Novozymes, world leader in bioinnovation, long response times across the company's 30 offices worldwide caused time waste and frustration among employees. Increasing amounts of data over the network and access to more and heavy applications centrally placed on servers in Denmark called for a new, intelligent IT infrastructure.

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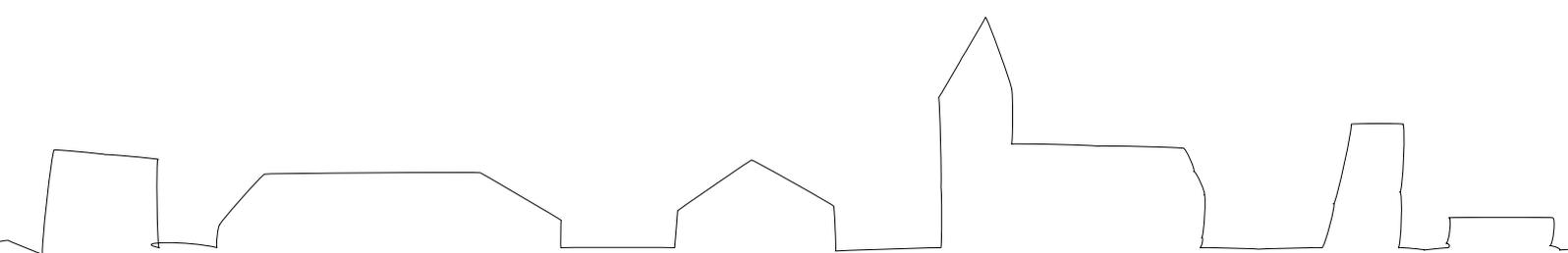
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“More and more users are putting heavy demands on our WAN infrastructure, and WAN bandwidth usage statistics continued to surprise us. Furthermore, we were wrestling with some poorly architected applications that were not made for WAN. For instance, our main IntraWeb application was yielding two minute load times for colleagues in China. At the same time we were pursuing consolidation of our service landscape. In this, for example, we cut the number of Exchange servers in half. We needed a service to help us not kill our WAN in the process”, says Jason Jones, Senior IT Manager, Novozymes.

### Data traffic at a snail's pace

After thorough market research, including Gartner Group, Novozymes initiated cooperation with RanTek on global deployment of Riverbed Steelhead appliances in 10 locations. Today, Riverbed has been deployed in 24 locations.

“RanTek prepared a traffic analysis which gave an accurate picture of the amount of traffic and response times between all locations. In particular, the data traffic between





### Challenge

Long response times across Novozymes' 30 global locations, increasing volumes of data through the network and access to more and more applications from centrally placed servers in Denmark. A conventional solution would require tripling of bandwidth in many locations.

### Solution

Novozyymes chose WAN optimization from Riverbed in its largest 24 locations. Riverbed reduces network costs significantly compared to the costs of upgrading bandwidth around the world. Additionally, Riverbed supports IT consolidation and saves companies server and storage costs.

### Result

Improved response time everywhere. Quicker access to transport and application protocols such as file, email, backup, FTP, ERP and CRM solutions. Reduced bandwidth need of 65 per cent.

our servers in Denmark and employees in the U.S. and Asia was transmitted at a snail's pace. This is against our IT goal of contributing to a competitive business with flexible and fast processes," Jason Jones says.

### "More out of less is key"

The essence of Riverbed's intelligence is to recognize already transmitted data and only send new data over the network. If a presentation is sent several times between Bagsværd and Beijing, recognized data is retrieved from the locally installed Riverbed Appliance instead of being retrieved over the WAN. This will save a lot of network capacity, while end-users are not burdened in any way. Similarly, access to key files in among others the document management system MS SharePoint from remote subsidiaries has become faster and smoother irrespective of location, because the recognized data is locally saved on the Riverbed Appliance.

"The result of Riverbed installations is a virtual tripling of capacity on the WAN connection. So, for example, small offices with a 1 Mbit connection would need 3 Mbit connections without Riverbed. The ability to get more out of less is key," says Jason Jones and continues:

"Also, we found out that the savings from not having to expand the bandwidth of all our subsidiaries were substantial. Around the world, upgrading broadband can be extremely expensive and can easily add up to \$60,000 a year for a more remote location, but with Riverbed appliances we have delayed our bandwidth investment for two years, and achieved a very favorable ROI on WAN operating costs alone".

### Professional Partner

Novozyymes is very satisfied with Riverbed as well as the Danish distributor RanTek who has supported Novozymes throughout the process.

"RanTek has been a fantastic and knowledgeable partner. They have demonstrated a high degree of professionalism in terms of advising and rendering service and support of the hardware. Also, Riverbed is the right choice for us. The basics of WAN acceleration are essentially the same across products. But Riverbed is the most innovative solution. The next step for us is investing in Riverbed's Steelhead Mobile solution for remote users and services within video multicasting, also called Qumu. We are very enthusiastic about what potential this offers", Jason Jones says.