

NitroAccelerator Provides Effortless Acceleration

Microsoft's inefficient TCP/IP protocols for file transfer and SQL Server communication create latency and congestion issues on the LAN and WAN. NitroAccelerator is a groundbreaking solution that allows its customers to dramatically accelerate their end-to-end SQL Server network traffic and windows file transfers over SMB by dynamically compressing individual connections.

Not only does this approach enable real-time business, it also secures connections by optionally encrypting data between endpoints. NitroAccelerator improves productivity and empowers direct savings on overhead costs by reducing latency and amount of data transferred.

The NitroAccelerator Advantage

- Quick and Simple software-based installation with no downtime.
- Flexible deployment to only the endpoints that you want to accelerate.
- No expensive hardware or professional services required to deploy, maintain, and upgrade.

Features

- Adaptive Packet Compression dynamically adjusts TCP packet size to optimize throughput.
- HyperCache technology provides substantial performance benefits by pulling query results from a local cache when possible. Windows file transfer acceleration speeds transfers between WAN connected sites or to/from the cloud.
- Customizable encryption settings immediately provide an additional level of security to all accelerated traffic.
- Multiple compression algorithms and levels are available for optimal tuning to your environment.

By Role

DBAs

- **Replication hopelessly behind or daily data movement blowing through your maintenance windows?**
 - Reduce replication transaction latency to real-time and shrink maintenance windows for any data movement jobs dramatically.

IT Managers

- **Need to support a growing population of remote workers?**
 - Give WFH and remote workers the same fast performance that they get in the office.
- **Monthly cloud data egress bills out of control?**
 - Up to a 90% reduction in data egress charges.

Security

- **Need to quickly secure and optimize your network traffic?**
 - Encryption secures network traffic between your selected servers and endpoints.

ERP Specialists

- **Access to/from remote sites or employees disrupting productivity?**
 - See an immediate improvement in data availability and UI responsiveness.

Specifications

SQL Servers - 2000 and Later

Windows Servers - 2008 and Later

Windows Devices - Vista and Later

Linux Supported via Windows Proxy

NitroAccelerator 32-bit | 3.2mb | .msi

NitroAccelerator 64-bit | 3.7mb | .msi

NitroAccelerator is designed to work seamlessly in the client-server model. Any application that is leveraging the SMB or TDS protocols, any environment using MDAC, SQL Native Client, Java thin or thick drivers, or any other implementation to connect to a SQL Server, such as SharePoint or SQL Management Studio, will see dramatic compression and optimization of their traffic.

Installation Instructions

1. Request your free full version 14-day trial at nitrosphere.com
 2. Download & Install NitroAccelerator on the Servers and Clients that you would like to impact. ([Quick Start Guide](#))
 3. Run the Speed Test, located in the Start Menu, to set a baseline for expected results.
 4. Test out NitroAccelerator with your own applications and processes.
-

Daily Data Movement & SMB Windows File Transfer

Supercharge your Windows file transfers with our newest product feature which supports the acceleration of SMB and SQL Server named pipe protocols.

Result: Accelerate Windows SMB Files transfers 10-20x.

"I'm down from 1,440,198 pending commands to be distributed to 899,106 ... 541,092 commands in about 2 hours. That is insane... I'd be waiting DAYS for it to catch up with a backlog that large."

- Jamie, Acacia Communications

Cloud Applications / Web Apps Directly Accessing SQL Server

The Nitrosphere difference is that we are a software solution that installs on the server and on any clients with slow connections connecting to the server. No restart of the server is required and the install takes seconds. Nitrosphere provides fast, secure, simple solutions to application performance issues caused by the network.

Result: Increased throughput and reduced application response time for Cloud Applications that directly access SQL Server. Increased throughput and reduced application response time.

- Accelerated cloud application performance by providing one or two additional seconds of improvement for daily business transactions.

"NitroAccelerator is a no brainer when it comes to improving cloud application performance." - Peter Boonstra, Canon

Client-Server Applications Directly Accessing SQL Server

Your custom in-house or third-party applications that directly access SQL Server can perform poorly over WAN connections, sometimes resulting in unacceptable lag time for a dialog to display or a transaction to be committed. This latency results in frustrated users.

Result: Increased throughput and reduced application response time for Cloud Applications that directly access SQL Server. Client-Server Applications that previously required minutes to populate a dialog will now come up in seconds.

"Let's say on average, Nitro gives back about 25% of the time of a person's entire day who interacts with SQL directly or indirectly in some way. Not waiting for things keeps the mental juices flowing. I was joking with a colleague a few weeks ago about the worst and then the best software we use. He "forgot" about Nitro because it's always there, it always works, and it does an amazing job. It is so reliable, what used to be magic has become invisible. That's the overall impact on the company." - Jason Schlueter, Communicus

SQL Server Integration Services (SSIS)

Daily data movement from remote offices or hosted/cloud SQL Servers can take hours, which can cause reliability and data availability issues.

Result: SQL Server Integration Services (SSIS) data movement jobs that previously took hours are reduced to minutes.

"Since we are running replication on hundreds of servers around the world, this improvement has enabled us to deliver better customer service and has allowed us to continue to expand our business into new regions and countries." - Compuware

SQL Server Analysis Services (SSAS)

Simply pulling data to Excel or other data analysis tools can take too long to be practical, even over high-speed connections. NitroAccelerator makes working with extremely large datasets efficient and painless.

Result: Data Analysis Queries that previously took 15 minutes can be reduced to seconds.

“The compression rate according to SQL NitroAccelerator was 85% ... The Distribution Agent actually had to wait for the Log Reader Agent.” - Tai Le, Qualcomm

SQL Server Replication

When using native SQL Server replication, it's not uncommon for latency – as measured by how long it takes for a transaction to be replicated out to its subscribers – to become extremely high, even on a LAN. This high LAN latency has, until now, completely ruled out native replication over a slower connection. With NitroAccelerator, you will likely find that WAN latency equals or outperforms your LAN replication.

Result: Replication transaction throughput increases of up to 100x and latency reduction of up to 90%.

“Replication for 175 servers around the world was taking 26 hours each to complete. You reduced that to 2 hours.” - Paul Wilson, Dynatrace

Additional Resources

Tuning SQL Server Network Performance with Nitroaccelerator ([PDF](#))

DBA Tactics for Optimizing SQL Network Performance ([PDF](#))

Why Nitrosphere? ([PDF](#))

Canon Case Study ([Link](#))

Qualcomm Case Study ([Link](#))

Dynatrace Case Study ([Link](#))

NitroAccelerator Demo ([YouTube](#))

SMB Windows File Transfer Acceleration Demo ([YouTube](#))