



SLIPSTREAM

SlipStream SP 5.0

## Accelerating Internet Access for ISPs

### Abstract

SlipStream Data Inc. develops acceleration and optimization solutions that dramatically increase the speed of Internet access over any network. The SlipStream solution significantly reduces bandwidth usage, allowing for substantial increases in network capacity and performance.

At the heart of SlipStream's Acceleration and Optimization Engine, the core technology behind SlipStream SP Solution, is a suite of proprietary lossless and lossy data compression algorithms that provide unequalled data compression rates. In addition, the SlipStream Acceleration and Optimization Engine employs leading-edge content and network optimization techniques to further accelerate performance and enhance user experience.

SlipStream SP provides Internet Service Providers (ISPs) with a fast and flexible way of rolling out fully-branded value-added services that offer users a more fulfilling online experience thereby reduces subscriber churn and increase revenues. SlipStream NOW!Imaging™, an optional add-on to SlipStream SP5.0, further helps increase performance and customer satisfaction. SlipStream MSP, another product delivered off SlipStream's Acceleration and Optimization Engine, provides data and network optimization for Mobile Service Providers (for details, refer to SlipStream MSP White Paper, [www.slipstreamdata.com](http://www.slipstreamdata.com)).

© 2000 – 2006. All rights reserved. SlipStream is a trademark of SlipStream Data Inc.  
All other trademarks mentioned in this document are the property of their respective owners.

SlipStream Data Inc.  
Tel : (519) 886-6738  
Fax: (519) 886-7732

50 Bathurst Drive, Unit 12  
Waterloo, ON, Canada N2V 2C5  
[www.slipstream.com](http://www.slipstream.com)

# Table of Content

- The Challenge for Service Providers..... 3
- 1. The SlipStream Solution..... 4
- 2. SlipStream Technology ..... 5
  - 2.1 Unparalleled Data Compression..... 5
  - 2.2 Better Performance and Increased Flexibility with Application-Layer Compression and Caching..... 6
  - 2.3 Advanced Graphics Compression Engine ..... 6
  - 2.4 Next Generation Graphics Acceleration with NOW!Imaging ..... 6
  - 2.5 Full HTTP Support ..... 7
  - 2.6 Web-based Email ..... 8
  - 2.7 Full Email and Attachment Support ..... 8
  - 2.8 Network Optimizations ..... 8
  - 2.9 Forward Network Compatibility ..... 8
- 3. System Features..... 9
  - 3.1 SlipStream Server ..... 9
  - 3.2 SlipStream Client..... 11
- 4. SlipStream Platform Customization..... 14
  - 4.1 Private Label and OEM Capability..... 14
  - 4.2 Multi Language Support ..... 14
- 5. Independent Performance Testing ..... 15

## The Challenge for Service Providers

One of the greatest challenges facing Internet Service Providers (ISPs) and Application Service Providers (ASPs) is how to maximize the utility of their existing networks in order to deliver the most satisfying experience to their subscribers. Performance is a major issue for browser-based applications as content-rich Web sites increase the volume of data carried over the network, resulting in frequent traffic backups, hung network connections and poor user experience. With these problems, providers will find it difficult to attract new customers or retain existing ones as customers looking for better service are driven away or motivated to jump ISP's, resulting in higher churn and lower revenues. System upgrades to accommodate increased traffic require significant investment and can result in lengthy downtime and high support costs after installation.

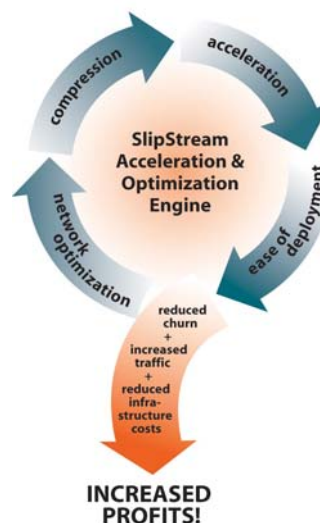
At the same time, the Service Provider industry is becoming more competitive, with a broader range of access options and value-added services to choose from. To be successful, Service Providers must be able to cost-effectively manage complex and ever-changing demands of all subscribers, including dial and broadband. The key to success will be the ability to offer a comprehensive selection of integrated services, while also maintaining control over the cost, administration and delivery to customers.

**The SlipStream SP solution** enables Service Providers to differentiate themselves with the fastest, most reliable acceleration technology, as well as the most extensive support for mainstream operating systems and browsers and compatibility with 3rd party applications. SlipStream's industry leading solution delivers:

- 1) Unsurpassed acceleration
- 2) Industry-leading compression
- 3) Content and network optimization

This solution results in:

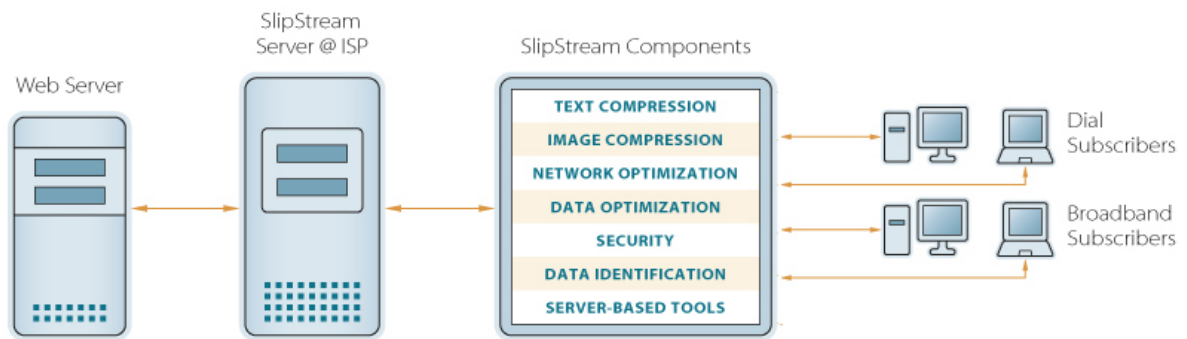
- Superior performance that enhances subscriber experience, reduces churn, and increases adoption
- Efficient utilization of existing infrastructure, resulting in avoidance or postponement of investment and lower TCO.
- Simple, easy and faster network and client deployment resulting a shorter time to market (T2M)



## 1. The SlipStream Solution

SlipStream Data has created a solution specifically for ISPs and other Service Providers, which accelerates all HTTP, SMTP, POP3, IMAP and FTP traffic.

SlipStream SP Deployment:



All Web, email and FTP traffic is intercepted by the SlipStream client and forwarded to the SlipStream server. The SlipStream server retrieves the requested data from the remote host (email or Web server) over a high-bandwidth connection to the Internet, then compresses and optimizes the content for the last-mile trip. Usually the SlipStream server is located at the ISP/Service Provider's location, but with extensive testing it has been determined that even when SlipStream servers are located in remote areas, significant speed performance improvements result. This allows SlipStream users to benefit from the acceleration, even when they are not connected into their own Service Provider locally.

## 2. SlipStream Technology

SlipStream SP offers complete support for all major Internet applications including general Web browsing (HTTP), sending email (SMTP), receiving email (POP3 and IMAP) and exchanging files (FTP), as well as custom third-party Web applications. By providing integrated support for all major Internet applications, SlipStream solutions are able to fit seamlessly into the existing network infrastructure in the same manner as a conventional proxy server. Deployment is also greatly simplified, as all users can take advantage of the same SlipStream SP server regardless of their connectivity mode.

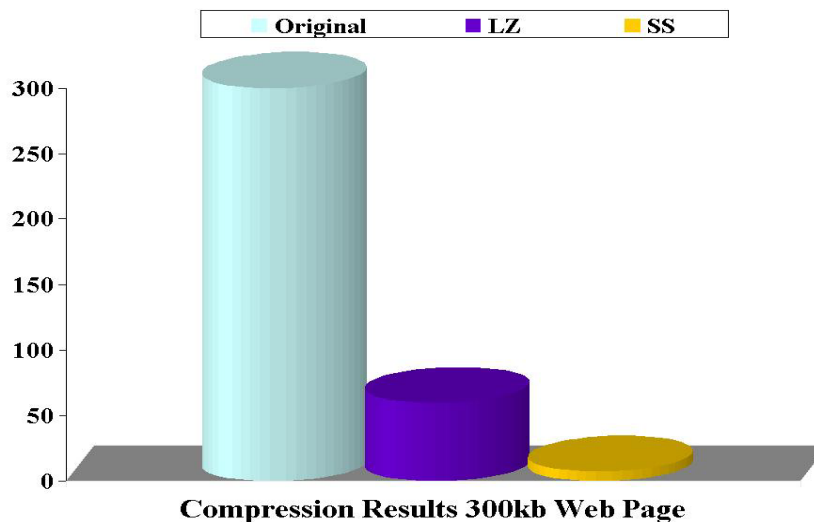
### 2.1 Unparalleled Data Compression

At the core of the SlipStream platform is the world's best on-line, lossless data compression algorithm. Pioneered by leading information theorists, it represents one of the most significant advancements in lossless data compression in the last 20 years.

One of the most notable advantages of SlipStream's lossless compression algorithm is its ability to retain, accumulate and capitalize on very small amounts of prior intelligence. By retaining small amounts of intelligence, the SlipStream lossless compression algorithm is able to consistently achieve compression ratios that are far beyond those of any other on-line data compression algorithm available. In an Internet setting, these superior compression ratios translate into dramatic increases in the end-users' effective bandwidth, faster page downloads and improved performance, providing a sustainable competitive advantage. Furthermore, these compression ratios result in large reductions in overall bandwidth usage, whereby, the number of users that can be supported is increased and the end result is higher revenues.

The dynamic adaptability of the SlipStream lossless compression algorithm is particularly well suited to dynamic and template-based content such as news, finance, corporate applications and on-line shopping Web sites where the page contents change regularly but the general format and structure of the page remains consistent. The single-pass, on-line nature of the SlipStream lossless compression technology means that data is streamed across the network, making it ideal for high traffic environments.

With SlipStream's leading technology and unique tuning techniques, the resulting HTML files can be up to 40 times smaller than the original size, or up to 7 times smaller than what is possible with the currently available industry standard Lempel-Ziv (LZ) compression algorithm.



## 2.2 Better Performance and Increased Flexibility with Application-Layer Compression and Caching

The SlipStream SP platform operates at the Application-Layer as opposed to functioning at the Network-Layer and is thus able to deliver far better performance results. This distinction facilitates the use of adaptive application-specific compression, image compression and caching techniques which are not possible to implement at the Network-Layer.

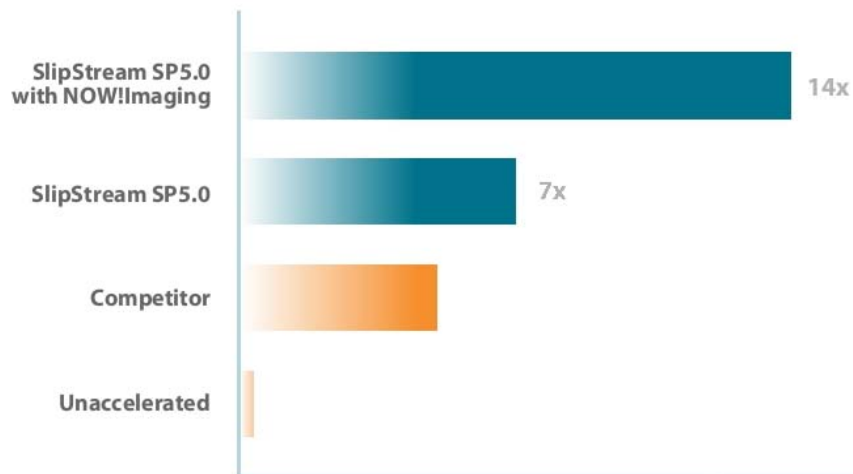
Typical Network-Layer techniques may achieve 1.5 to 2 times overall compression on a stream of data, as data from a variety of protocols and applications are intermixed. SlipStream SP can significantly outperform these results, achieving overall performance gains of up to 7 times. The SlipStream Engine partitions data for each distinct protocol/application and then employs compression and caching techniques specifically tailored for the protocol/application.

## 2.3 Advanced Graphics Compression Engine

SlipStream has developed an industry-leading suite of lossy compression algorithms for GIF images, JPEG images, PNG images and Macromedia Flash. These algorithms are used to achieve the optimal tradeoffs between image quality and file size. SlipStream's image optimization algorithms typically achieve 15–20% more size reduction for the same image quality when compared to other solutions.

## 2.4 Next Generation Graphics Acceleration with NOW!Imaging

SlipStream NOW!Imaging, based on SlipStream's NOW!Technology™ 1 platform, greatly enhances subscribers' browsing experience, allowing them to enjoy both great speed (acceleration) AND high image quality. NOW!Imaging loads high resolution images and increasingly image-rich pages much faster than ever thought possible.



**Relative Speed to Download a Fully Usable Web Page**

NOW!Imaging, an optional add-on to SlipStream SP, combines the power of SlipStream's patented image compression techniques with newly developed concurrent image delivery technology to change the way Web pages are delivered.

---

<sup>1</sup> SlipStream NOW!Technology platform leverages SlipStream's core acceleration, adaptive data compression and optimization technology to introduce new optional product add-ons to deliver unrivaled performance improvement.

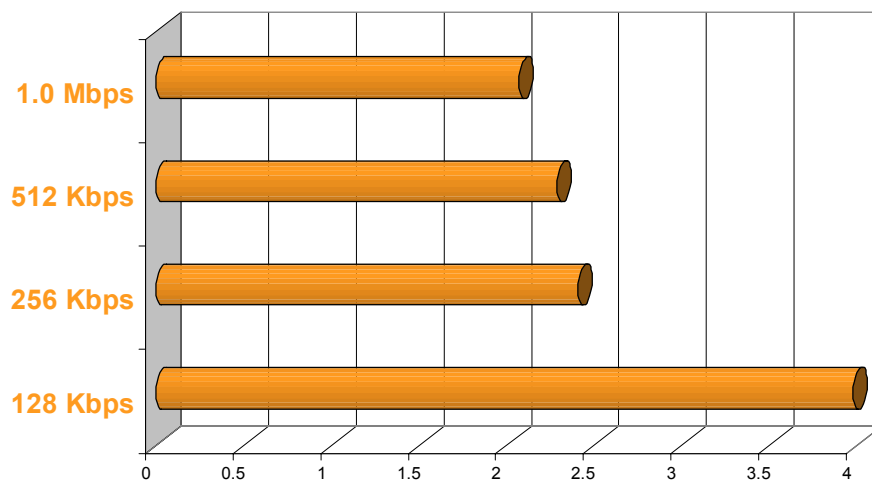
Currently, most browsers deliver pages sequentially, loading one element after another, in a linear sequence. NOW!Imaging changes all of that, delivering all page elements concurrently. Since images are delivered at an initial quality setting, Web pages load almost instantly. Then, as the subscriber is using or navigating the page, the images quickly and progressively reach the desired image quality.

NOW!Imaging's impact on the browsing experience is quite dramatic. Subscribers that are used to pages loading sequentially, one element after another, are quite surprised when the page loads almost instantly.

Further, SlipStream's studies have shown that in most cases subscribers must traverse several Web pages before they reach their destination page (i.e. the Web page they wish to view). Since NOW!Imaging loads most pages almost instantly, subscribers can quickly click on a link (generally text) and branch off to the next page that takes them closer to their destination page, without having to wait for all images to load to the desired image quality. Thus, while NOW!Imaging loads a fully usable web page up to 14 times faster than non-accelerated dial, the difference for a user can be many times this (e.g. 28 times, 42 times, 56 times, 70 times, etc.).

Lastly, SlipStream's studies have also shown that NOW!Imaging delivers a significant impact on DSL and DSL Lite speeds. As the following chart notes, at certain DSL speeds, NOW!Imaging delivers content roughly four times faster than non-accelerated DSL.

NOW!Imaging delivers a much improved, much faster browsing experience.



**Average Acceleration (increase in speed) with SlipStream SP5.0 and NOW!Imaging on DSL**

## 2.5 Full HTTP Support

SlipStream SP employs the aforementioned data compression algorithm to dramatically speed up Web browsing (HTTP). On the text portion of an Internet Web site, the data compression algorithm is routinely able to reduce bandwidth requirement by 12 to 40 times, and in the case of primarily static Web content, the data compression ratio is much greater, 70 to 80 times.

A key HTTP performance measure known as 'Time-to-Text' is the time required for the textual portion of the Web document to become viewable. Since non-essential graphical and rich-media content does not usually comprise the essence of the Web document being requested, Time-to-Text accurately represents how long the user must wait. With the

SlipStream HTTP solution, the Time-to-Text results are dramatically better than the already impressive overall speed increase due to SlipStream's lossless compression algorithm and network optimizations. For example, for a standard dial modem Internet connection, the Time-to-Text results of the SlipStream HTTP solution are up to 12 times better than those of dial-up alone.

## 2.6 Web-based Email

Accessing email via Web browsers over HTTP is one of the most popular on-line activities, as has been demonstrated by the popularity of public Web-based email systems such as Hotmail and Yahoo! Mail. As of reports on 30th August 2005, Hotmail alone had the largest number of free Web-mail users with 221 million users, or 35.5 percent of the world, according to comScore Media Metrix data. Industry-standard Web-based interfaces such as Microsoft® Exchange (Web Outlook) and Lotus Notes (Domino) enable corporations to deploy universally accessible email solutions.

SlipStream SP accelerates all incoming and outgoing Web-based email content, including attachments, using the world's leading on-line lossless compression algorithm. The SlipStream Engine is also able to capitalize on the fact that most Web-based email solutions are template-based. This results in dramatic performance benefits and a reduction in bandwidth on the order of 15 to 25 times for textual content.

## 2.7 Full Email and Attachment Support

SlipStream's state-of-the-art lossless data compression algorithm is also leveraged to provide significant performance gains in sending and receiving email. With full support for the POP3, IMAP, and SMTP protocols, the SlipStream solution applies its unique data compression, content and network optimizations to send and receive email messages and attachments in dial and DSL environments, with reduced network load and increased speed. The email acceleration solution has been integrated transparently with common email clients such as Microsoft Outlook, Outlook Express, Netscape Messenger and Eudora.

## 2.8 Network Optimizations

The SlipStream solution utilizes a client/server model to reduce network overhead and latency. Instead of establishing separate TCP connections for each HTTP, POP3, IMAP, SMTP, or FTP transaction, all data flow is multiplexed over a persistent TCP connection between the SlipStream client and the SlipStream server. By operating at the TCP layer, the SlipStream solution avoids platform dependency and support issues that occur at lower layers in the International Standard Organization's Open System Interconnect (ISO/OSI) model.

## 2.9 Forward Network Compatibility

The unique design of the SlipStream client/server model and application level compression and optimization makes SlipStream's solution network independent, and guarantees forward network compatibility.

## 3. System Features

The SlipStream solution is comprised of two components: a scalable, high-performance, configurable content acceleration and optimization server (SlipStream server) and a lightweight client software application (SlipStream client). These two components communicate over an accelerated bandwidth channel, resulting in significant performance gains and bandwidth requirement reduction.

### 3.1 SlipStream Server

#### ***Ease of Deployment***

The SlipStream server can be quickly deployed within an ISP or an ASP without modification or reconfiguration of the existing network topology. Installation of the SlipStream server platform is identical to that of configuring a standard proxy server—all that is required is a dedicated IP address.

#### ***Object Caching***

SlipStream SP incorporates transparent data caching capabilities to ensure that content is close to the compression engine. If needed, any commercial or proprietary caching product can be used to augment or replace this caching functionality.

#### ***Authentication***

The SlipStream solution includes authentication and access control components, in order to grant access to authorized users only. This can be accomplished using client IP-based controls and/or the industry-standard RADIUS authentication. Access controls can be added, removed or modified quickly without any service downtime.

In addition to preventing unauthorized access, the SlipStream Engine maintains information about unauthorized access attempts and can maintain access logs including IP addresses and usernames.

The SlipStream server is also fully compliant with RADIUS accounting, which can be used to prevent multiple logins from the same user account. Custom authentication methods are also possible, and have been implemented in the past.

Additionally, a RADIUS “Fail-Open” feature allows SlipStream clients to successfully connect to the SlipStream server even if the authentication transaction (with the RADIUS server) fails to complete. Thus, all connection requests are considered as authorized in the mean time until the authentication system comes back on, ensuring uninterrupted service to the end-users. This improves the uptime of the Acceleration service (since a RADIUS server outage does not impact the SlipStream client).

#### ***Scalability and Load Balancing***

The SlipStream server platform can easily accommodate increased capacity by simply adding additional SlipStream servers. SlipStream currently employs a load-balancing scheme that leverages round-robin DNS to group SlipStream acceleration servers in a “cluster”. As more SlipStream servers are required, existing clusters can grow or new clusters can be created.

Load balancing and auto-failover between the individual SlipStream SP servers is handled transparently by the SlipStream platform to ensure proper resource utilization. In case of server downtime, the remaining SlipStream servers can automatically accommodate to ensure uninterrupted service.

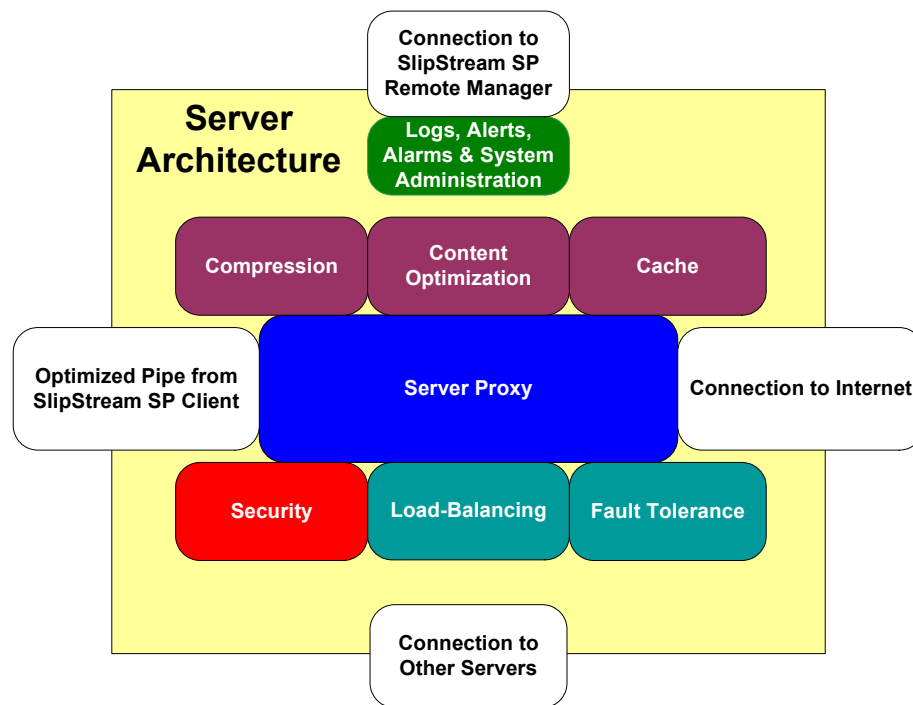
For geographically distributed deployments, SlipStream clients are automatically and transparently routed to the closest SlipStream server cluster based on their geographical location.

For asymmetric load balancing, a cluster of SlipStream servers can report their load to each other and distribute the load accordingly. This enables the servers to evenly distribute the load even if the servers have differing capabilities.

### ***Fault Tolerance***

Single server outage is transparent to an end-user if the load-balancing solution is implemented. In the unlikely event that all servers in a “cluster” fail, or the SlipStream client cannot connect to any server in the “cluster”, the SlipStream client will automatically switch into a “disabled” mode. Browser’s proxy setting will be restored, and HTTP requests will be sent directly to the destination Web server. Similarly, the POP3/IMAP/SMTP LSP will function in a pass-through mode and will NOT route traffic to the SlipStream client proxy.

The SlipStream server platform is fully interoperable with Layer-4 switches for load-balancing and fault-tolerance. In addition, SlipStream has a software based load-balancing scheme that is leveraged on top of round-robin DNS for local server management between servers and geographic load balancing for multiple data centers.



### ***System Monitoring***

The SlipStream platform provides two distinct methods of monitoring. The first level of monitoring provides real-time alerts and alarms during server outage or performance degradation. The second level of monitoring is implemented by a component called the “InfoServer”. The InfoServer collects and aggregates a detailed set of system and user specific information from a group of SlipStream servers. The InfoServer maintains statistics on system performance levels, current number of users, peak concurrent users, access times, user information and data transfer information. This data can be used to generate reports including peak usage, system performance and bandwidth throughput. The summaries can also store user-based performance levels to monitor performance attained by individual clients of the system.

### ***Failure Management***

A standard log file is written by the SlipStream server. The log severity level, which controls the verbosity setting, can be configured (to address scalability concerns).

An entire monitoring package is available to monitor the compression performance, latency and reliability of the SlipStream server. The tools generate HTTP requests to fetch content from the internet through the SlipStream solution, and measure the overall compression, as well as the download time of the content. Requests are generated at a configurable rate, and can be used to carefully monitor the uptime of the SlipStream server. The monitoring package also interfaces with industry standard monitoring software such as “Big Brother” and can automatically send email alerts and alarms to network administrators. These scripts can be leveraged and easily integrated with existing monitoring systems (customers have integrated with HP Openview and other SNMP packages).

To assist support staff, SlipStream has an optional “diagnostic” command (accessible via the tray-icon right click) that exercises a full suite of client-side diagnostics.

### ***SlipStream Management Console (SMC)***

Slipstream Management Console is a Windows-Based Management system for configuring Slipstream servers. This allows administrators to simply and easily configure the SlipStream server without the need for complex programming skills, remotely right from the comfort of their desktops.

The SlipStream Server Management Console supports configurable user access. This allows users of different security and usage levels to control certain functions of the SlipStream server. For example, ‘Administrators’ have access to all modules, including setting up access profiles, while other users may be granted read-only access via the Management Console.

## 3.2 SlipStream Client

### ***Lightweight Design Suitable for All Client Devices***

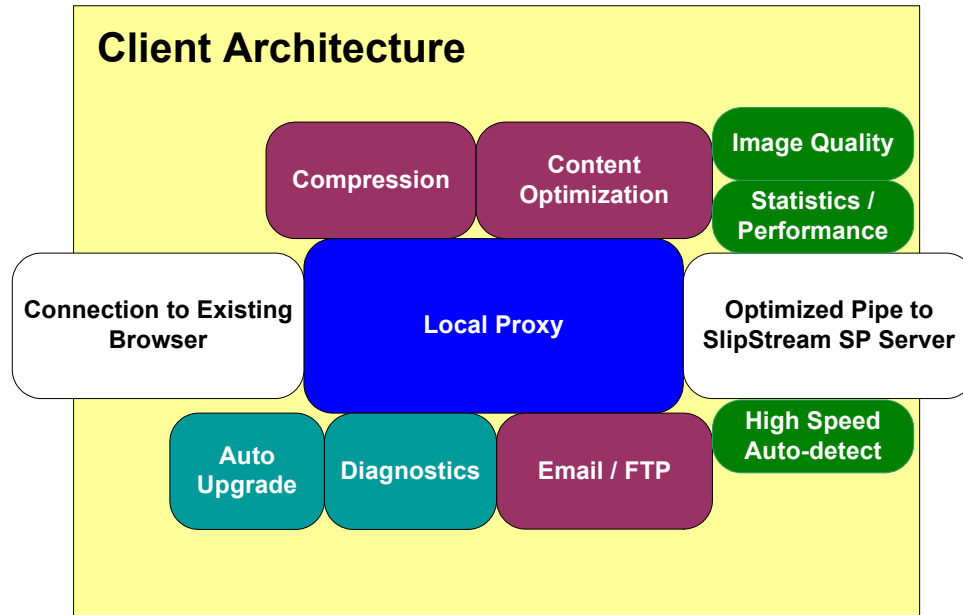
The SlipStream client installation is a lightweight, self-extracting, distributable package allowing fast Web distribution of the product. The base acceleration client for Web browsing, email and FTP is about one megabyte (1 MB). This means that it can easily operate on laptops and desktops. SlipStream provides the service providers with the flexibility to choose the features/functionality to be included in the client and the resulting client’s size. The installation process is simple and can even be started automatically if ActiveX controls are available.

### ***No End-user Configuration Required***

An important feature of SlipStream solutions is that end users are not required to configure anything to start using the products. Users simply download the installation package and enter their provider’s indicated username and password. After installation, users simply connect to the Internet in their normal fashion. All Web, email and FTP traffic is automatically compressed and accelerated.

### ***Client Updating and Backward Compatibility***

SlipStream servers are fully backwards compatible with older clients. In addition, the SlipStream client has a built-in mechanism for client updating. The SlipStream Engine provides three different types of updates: forced, prompt, and silent. Each client version can be configured on the SlipStream server to respond differently to available updates.



### ***Transparent Operation for End Users***

The SlipStream client application launches automatically once installed. It will sit on the desktop in the system tray at the bottom right hand corner of your screen beside the clock. To launch SlipStream solutions, users simply start their browser, mail product, or FTP client. The product automatically intercepts the desired traffic and sends it to the SlipStream server installed on the Internet.

### ***Powerful User Controls***

The SlipStream client installation features powerful content customization options, many of which are integrated through the SlipIN Platform. Powerful User Controls include intuitive image quality management as well as customizable content filtering capabilities. Simple settings can be viewed or changed by clicking on the SlipStream icon in the Toolbar or by highlighting the SlipStream Icon in the system-tray and clicking on it. The Settings tab offers image quality settings, pre-programmed connection information, email compression if desired, an update tab and finally a proxy exclusion list for those sites on which users do not want to run compression. Other items available when right-clicking on the Icon are detailed compression statistics and SlipStream Pop-up Blocker settings.

### ***Pop-up Blocking***

The SlipStream client application can be configured to include the SlipStream Pop-up Blocker. SlipStream Pop-up Blocker stops all unsolicited pop-up windows from appearing while browsing with Internet Explorer and includes advanced features such as "whitelist" functionality (an exclusion list), logging display and the ability to block floating Macromedia Flash ads.

### ***SlipStream Privacy Manager***

SlipStream Privacy Manager protects user privacy by disguising the source IP address of all outbound HTTP requests sent through SlipStream. Service Providers still have the ability to retrieve the user IP address, if required, for security and law-enforcement purposes. In addition, SlipStream Privacy Manager provides end-users an easy way to delete Internet Cookies, History, Cache and Temporary Files right from the SlipStream Client.

### ***Integrated Diagnostics***

The SlipStream client comes complete with an integrated diagnostics capability providing improved customer support for the end user.

### ***Comprehensive Real-Time Statistical Information***

The SlipStream client provides detailed information regarding the compression being achieved in real time. The information is provided for both downstream and upstream transactions, as well as specific compression rates for text (HTML), graphics and other types of information.

### ***Multi Platform Support***

The SlipStream client installation runs on all major Microsoft Windows platforms, including Windows 98, ME, 2000 and XP. For easier distribution, the same end-user software package can be distributed to all Windows desktop platform users without modification. The SlipStream client is also available to run on Macintosh OS-X.

SlipStream also supports a range of Mobile devices, including PDAs, SmartPhones and Handsets, running different operating systems such as Windows Mobile, Symbian, PalmSource and BlackBerry. For details, refer to SlipStream MSP White Paper for details ([www.slipstreamdata.com](http://www.slipstreamdata.com)).

### ***Multiple Browser Support***

The SlipStream client supports all browsers. In addition, SlipStream is integrated with Internet Explorer, Netscape, Opera, FireFox, Mozilla and Safari (for Mac OS-X) browsers to offer automatic configuration and seamless operation.

### ***High Speed Bypass***

Benefits of compression-acceleration techniques may not appear as significant on under-utilized high speed connections. In some situations, gain in performance at very high speeds could be eroded by the overhead of connecting and utilizing the acceleration and optimization server. SlipStream client has the ability to disable itself automatically if the underlying connection bandwidth is greater than a configurable threshold. Therefore, acceleration is turned on only when it is needed (typically on low speed connections) and is automatically disabled on high speed connections.

### ***Auto Connection Recovery***

If a network connection is lost during a session, the SlipStream client displays a “No Connection Status” and then resumes automatically when the underlying connection becomes available.

### ***NOW!Service™ Compatibility***

NOW!Service, another optional add-on product based on NOW!Technology, sets a new standard in customer service by expanding on the integrated diagnostics that exist in SlipStream SP5.0. NOW!Service interacts with the subscriber by using a standard wizard interface to analyze diagnostic information and suggest solutions. The resulting self-diagnosis eliminates many calls that would otherwise go to an ISP’s technical support team and also streamlines the remaining calls in order to reduce support resource requirements. NOW!Service will help reduce total cost of ownership (TCO) and improve profit margins.

## 4. SlipStream Platform Customization

### 4.1 Private Label and OEM Capability

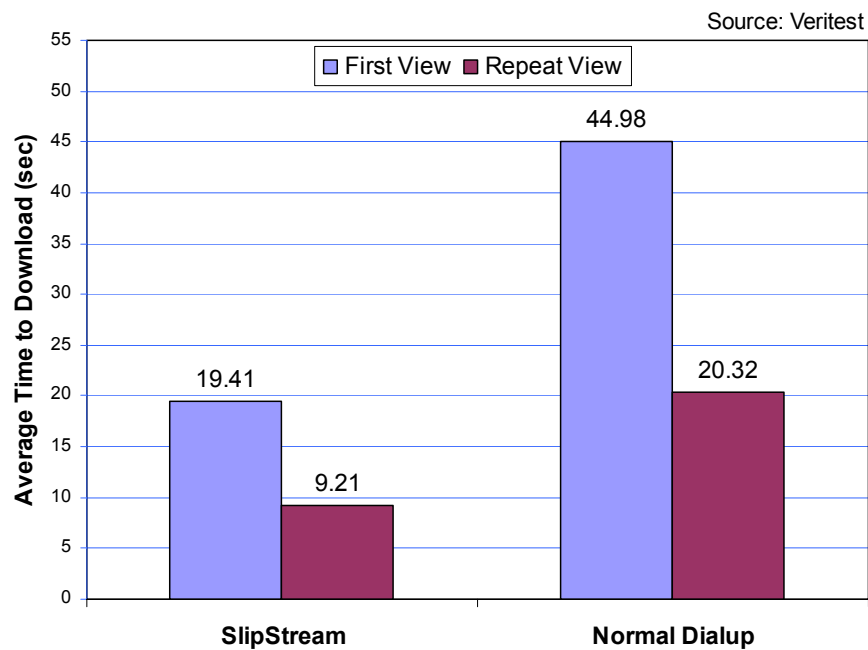
SlipStream solutions provide a unique capability that allows our partners to easily private label the solution using a Web-based interface. Wholesalers and solution providers can easily create and update a unique brand, which allows them to continue their strong relationship with their customers. They can also determine the default settings of many variables, as well as which features are turned on and off. For those partners who prefer more control of the user experience, there is an OEM kit available.

### 4.2 Multi Language Support

SlipStream solutions have been designed in such a way that our partners can choose one of the many existing translations or create a new translation themselves. A Client Customization Kit allows the Service Provider to change the Client Graphical User Interface (GUI) for specific language or text customizations.

## 5. Independent Performance Testing

Independent test results continuously confirm that SlipStream SP is the fastest Web and email accelerator on the market, and the same proven technology can accelerate access to critical secure business data for corporations. A complete analysis of the performance of the SlipStream SP Acceleration Solution was completed in April 2005 by VeriTest for the mid level acceleration setting. The detailed results of these tests are available on SlipStream's Web site, [www.slipstream.com](http://www.slipstream.com). The summary of this report is presented here:



**VeriTest Performance Testing Results**

Key Findings
SlipStream improved download times by up to 7.33X
SlipStream improved Web page download times by an average 2.32X

### **About SlipStream Data**

SlipStream Data Inc. is a profitable, privately owned software development company founded in 2000 and based in Waterloo, ON, Canada. SlipStream delivers the fastest and most reliable Internet acceleration, compression and optimization technology. SlipStream enables ISPs, mobile service providers and other technology partners to enhance the online experience for dial, wireless and broadband users, while significantly reducing bandwidth requirements. SlipStream's patented, easy-to-deploy NOW!Technology delivers the fastest Web and email acceleration available. The SlipStream Acceleration & Optimization Engine, the foundation of all SlipStream products, is the most widely deployed Web and email acceleration technology in the world, in use by more than 2000 service providers in over 45 countries.

**+1.519.886.6738    [www.slipstream.com](http://www.slipstream.com)    [sales@slipstream.com](mailto:sales@slipstream.com)**