

Hummingbird Connectivity™

At Hummingbird, we know that true business value should build on your existing technology investments — rethinking your system, rather than reinventing it. Hummingbird Connectivity offers flexible, scalable, and reliable solutions that connect powerful revenue generating applications across your enterprise. Hummingbird Connectivity solutions can help your business transition to future technologies, while minimizing your total cost of ownership over time.

Achieving state-of-the-art system operations while carefully controlling your budget sometimes appears an insurmountable challenge in today's fast-paced economy. Most enterprise mission critical data and applications still rely on UNIX or Mainframe infrastructures. For many IT professionals, integrating heterogeneous legacy environments with modern Windows desktops represents a technical and financial puzzle.

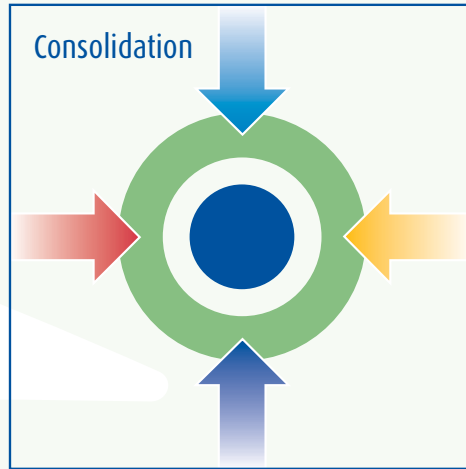
The volume of electronic data has been growing exponentially over the last few years and security of this data has become a primary concern. Enterprises who have deployed connectivity solutions several years ago find themselves in a state of vulnerability against internal and external threats.

Organizations need to leverage technology to meet business continuity and corporate governance requirements at the same time as they consolidate existing resources to control costs and reduce exposure.



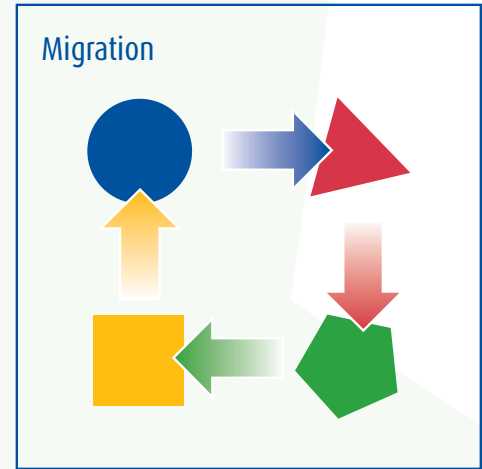
Hummingbird Connectivity™

Hummingbird Connectivity is a suite of technology solutions that helps organizations meet the challenges of integrating heterogeneous systems while providing cost effective solutions. Our customers have been instrumental in our development efforts over the years, and together we have achieved success. Hummingbird Connectivity continues to deliver unparalleled product functionality and substantive return on investment (ROI).



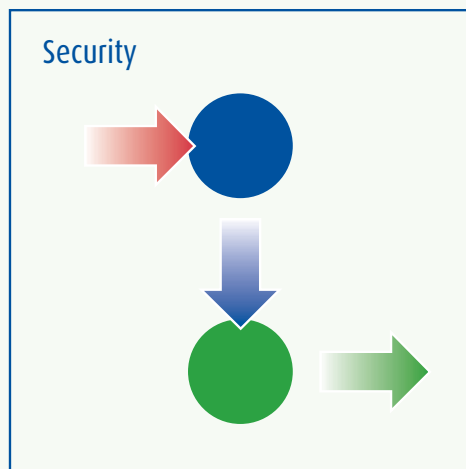
Consolidation

Many organizations with numerous connectivity software vendors have been able to consolidate their needs into one single solution with Hummingbird Connectivity, helping them realize significant savings on their overall IT budgets.



Migration

Regardless of your current connectivity solution, Hummingbird Connectivity offers you a smooth migration path with minimal business disruption and immediate return on ROI.



Security

Hummingbird Connectivity features a robust and complete security set across all of its components, helping organizations meet their security and compliance objectives.



Productivity

A company's most important asset is its employees. Hummingbird Connectivity provides users with unique ways of increasing their productivity while reducing the complexity associated with implementation and delivery.

Windows and UNIX Integration

Many companies have made significant investments in both UNIX and Windows environments. A lot of high-end applications are optimized for UNIX but require access from Windows, which many organizations have standardized upon for the user desktop environment. Hummingbird has been the leading provider of Windows and UNIX Connectivity software since 1991.

Windows & UNIX Integration	
Graphic Emulation	
X11	◆
Character-Based Emulation	
TN3270	
TN5250	
VT	◆
File Systems Integration	
FTP	◆
NFS Client	◆
NFS Server Light	◆
NFS Server Full	◆
NFS Server Enterprise	
NFS Gateway	◆
Security	
SSL	◆
LIPKEY	◆
Kerberos	◆
Secure Shell 2	◆

Hummingbird Connectivity Technologies

Exceed®

Exceed is the flagship product of Hummingbird and is credited with 71.5 % of the market share by IDC (IDC – PC X Server Market Forecast and Analysis 1999-2004). Exceed has set the standard for the PC X Server market and has earned the highest scores against the X11 performance benchmarks. The Exceed family is ideally complemented by Exceed 3D, an OpenGL extension for Exceed, and Exceed XDK, the X Window software development kit for Windows.

True Enterprise software, Exceed has been designed with many unique features that ease administrative burden and increase user productivity. With a strong presence in the engineering, banking, and government sectors, Exceed has proven that it can meet the most complex applications in the most demanding environments.

NFS Maestro™

NFS Maestro bridges the gap between the UNIX and Windows environments by offering a secure and high-performance file system integration solution. NFS Maestro is the first suite of Windows NFS products to offer support for the NFS V4 protocol. Hummingbird NFS Maestro has become the *de facto* standard for organizations that require a standard, modern, robust, and secure networking file system solution.

Windows & UNIX Integration	
Exceed Family	
Exceed PowerSuite™	◆
Exceed®	◆
Exceed XDK™	◆
Exceed 3D™	◆
Exceed onDemand®	◆
NFS Maestro Family	
NFS Maestro Solo™	◆
NFS Maestro Client™	◆
NFS Maestro Server™	◆
NFS Maestro Server™ Enterprise Edition	
NFS Maestro Gateway™	◆
HostExplorer Family	
HostExplorer®	◆
Security Family	
Connectivity SSL-LIPKEY™	◆
Connectivity Kerberos™	◆
Connectivity Secure Shell™	◆
Connectivity SecureTerm®	◆

Hummingbird Connectivity Products

Solutions for Workers on the Go!

Organizations with a mobile workforce have quickly realized the benefits of mobility: increased productivity, customer satisfaction, faster turn-around times, reduced business costs, and consistent delivery of applications. Some studies have demonstrated that the mobile workforce continues to grow, and these users continue to experience significant productivity gains.

Hummingbird recognized this evolving trend early and designed and delivered a line of connectivity products that allows mobile users to access mission critical applications remotely with maximum security and minimum administrative efforts.

	Mobile Work Force
Graphic Emulation	
X11	◆
Character-Based Emulation	
TN3270	◆
TN5250	◆
VT	◆
File Systems Integration	
FTP	◆
NFS Client	
NFS Server Light	
NFS Server Full	
NFS Server Enterprise	
NFS Gateway	
Security	
SSL	◆
LIPKEY	◆
Kerberos	◆
Secure Shell 2	◆

Hummingbird Connectivity Technologies

	Mobile Work Force
Exceed Family	
Exceed PowerSuite	
Exceed	
Exceed XDK	
Exceed 3D	
Exceed onDemand	◆
NFS Maestro Family	
NFS Maestro Solo	
NFS Maestro Client	
NFS Maestro Server	
NFS Maestro Server Enterprise Edition	
NFS Maestro Gateway	
HostExplorer Family	
HostExplorer	◆
Security Family	
Connectivity SSL-LIPKEY	◆
Connectivity Kerberos	◆
Connectivity Secure Shell	◆
Connectivity SecureTerm	◆

Hummingbird Connectivity Products

Exceed onDemand®

Exceed onDemand is the solution from Hummingbird for accessing X Window applications on a WAN (Wide Area Network). Exceed onDemand has been specifically architected to reduce bandwidth consumption via the use of Thin X Protocol, exclusive from Hummingbird.

Exceed onDemand is ideally suited for mobile workers, requiring strong security methods (encryption and authentication) as well port consolidation technology. Unique features, such as desktop sharing and session suspend and resume, further consolidate the leading position of Exceed onDemand in the remote access application market.

Host Access — Complete Control

Mainframes continue to have a strong presence in the enterprise market and will continue to deliver mission critical applications for some time to come. Rewriting existing host applications can be significant and costly where an ROI is hard to justify. Transforming operational environments and increasing security threats require organizations to adapt within the restriction of their budgets.

The Hummingbird Host Access product line is the ideal solution for organizations that want to realize value from the latest Web-to-host technologies and security without incurring complex migration projects costs.

Host Access	
Graphic Emulation	
X11	
Character-Based Emulation	
TN3270	◆
TN5250	◆
VT	◆
File Systems Integration	
FTP	◆
NFS Client	
NFS Server Light	
NFS Server Full	
NFS Server Enterprise	
NFS Gateway	
Security	
SSL	◆
LIPKEY	◆
Kerberos	◆
Secure Shell 2	◆

Hummingbird Connectivity Technologies

Host Access	
Exceed Family	
Exceed PowerSuite	◆
Exceed	◆
Exceed XDK	
Exceed 3D	
Exceed onDemand	
NFS Maestro Family	
NFS Maestro Solo	
NFS Maestro Client	◆
NFS Maestro Server	
NFS Maestro Server Enterprise Edition	
NFS Maestro Gateway	
HostExplorer Family	
HostExplorer	◆
Security Family	
Connectivity SSL-LIPKEY	◆
Connectivity Kerberos	◆
Connectivity Secure Shell	◆
Connectivity SecureTerm	◆

Hummingbird Connectivity Products

HostExplorer®

HostExplorer is a unique desktop and Web-based terminal emulation solution. Whether it is used traditionally on the desktop or as a browser-based solution, HostExplorer consistently delivers the same features, power, and administrative functions. HostExplorer provides a seamless transition from a fat to a thin client as the enterprise needs continue to evolve.

In addition, HostExplorer offers a powerful migration path from many other terminal emulation software products currently available. To ensure a smooth conversion and migration with no disruption of business, HostExplorer offers powerful features, such as macro conversion and user interface themes.

Connectivity SecureTerm®

Connectivity SecureTerm is the industry's first full-featured Web-to-host secure shell terminal and file transfer software for Windows. It allows organizations to protect sensitive corporate data by bringing strong authentication, powerful encryption, and guaranteed data integrity to replace traditional non-secure network protocols.

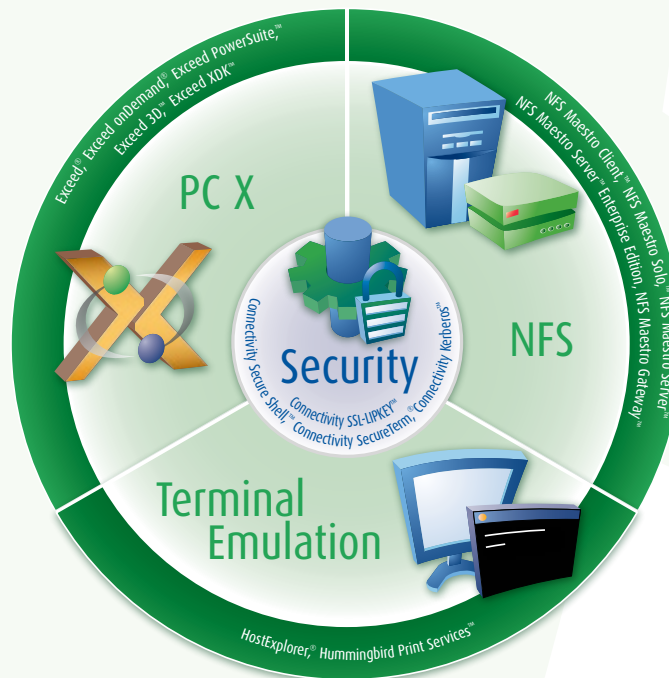
Consolidate and Standardize

Hummingbird Connectivity offers you the opportunity to reduce both acquisition and operating costs. With an intense focus on ROI and Total Cost of Ownership (TCO), Hummingbird Connectivity offers a new approach to “value,” geared to the reality of present-day IT budgets.

Now more than ever, IT departments are tasked with cost reductions and budgetary restraints. Consolidating your emulation needs for X and Host Access with Hummingbird will allow you to decrease your IT administrative overhead.

Dealing with one product on the desktop will allow you and your IT staff to increase your operational efficiencies.

Connectivity products from Hummingbird are multi-platform and provide software support on all your enterprise desktops (NT, 98, ME, 2000, XP, 2003). Our customers tell us this greatly simplifies the work of internal support departments, thereby reducing both problem resolution times and operating costs. There is rarely a need to support more than one version of emulator software.



Other Connectivity Solutions:

Hummingbird FTP™ • Hummingbird InetD™ • Exceed Connectivity Suite™ • HostExplorer Connectivity Suite™

Hummingbird customers continually comment on what a pleasure it is to deal with the Hummingbird Support professionals. At Hummingbird, your problems are our problems, and we work hard to maintain our high standard of excellence.

Consolidating with Hummingbird Connectivity will allow you to leverage your purchasing power by taking advantage of our volume license pricing. Consolidating your purchasing power from singles and packs to an enterprise agreement will allow you to “lock in” one price for your current and future needs.

Flexibility in our License Agreements will allow you to take immediate advantage of savings with our aggressive pricing for competitive replacements.

Consolidating will further allow you to leverage your existing deployment of Hummingbird products. As your company grows, your need for standardizing could become easier, if the products you already have in place have a proven record of ease of manageability and deployment.

Hummingbird Connectivity Suite is an “unbeatable value proposition.” Let us prove to you that this is not a slogan but our commitment to deliver real value to you.

Hummingbird Connectivity™ at a Glance

Core Products

	Exceed PowerSuite	Exceed	Exceed onDemand	NFS Maestro Solo	NFS Maestro Client	NFS Maestro Server	NFS Maestro Server Enterprise	NFS Maestro Gateway	HostExplorer	Connectivity SecureTerm
Graphic Emulation										
X11	◆	◆	◆							
Character-Based Emulation										
TN3270	◆	◆			◆				◆	
TN5250	◆	◆			◆				◆	
VT	◆	◆			◆				◆	◆
File Systems Integration										
FTP	◆	◆			◆				◆	◆
NFS Client	◆			◆	◆					
NFS Server Light	◆			◆	◆					
NFS Server Full						◆				
NFS Server Enterprise										
NFS Gateway								◆		

Add-On Products

	Exceed 3D	Exceed XDK	Connectivity SSL-LIPKEY	Connectivity Kerberos	Connectivity Secure Shell
General Information					
Primary Function	OpenGL & GLX libraries for X11	X11 SDK for Windows	SSL v2/v3 & TLS Client LIPKEY	Kerberos v4/v5 Client	SSH2 & SFTP Client
No Charge			◆	◆	
Applicable Technology					
X11	◆	◆		◆	◆
FTP			◆	◆	◆
VT			◆	◆	◆
TN3270			◆	◆	
TN5250			◆	◆	
Applicable Product					
Exceed PowerSuite	◆	◆	◆	◆	◆
Exceed	◆	◆	◆	◆	◆
HostExplorer			◆	◆	◆
NFS Maestro Client			◆	◆	◆
NFS Maestro Gateway			◆	◆	
NFS Maestro Solo			◆	◆	
NFS Maestro Server			◆	◆	
NFS Maestro Server Enterprise Edition			◆	◆	

Save

Lower acquisition costs

Switch

Enable business agility and reduce operating costs

Consolidate

Standardize the desktop



How Can Hummingbird Help You?

Corporate Headquarters: 1 Sparks Avenue, Toronto, Ontario M2H 2W1 Canada > Toll-Free Canada/USA: 1 877 FLY HUMM (359 4866) > Tel: +1 416 496 2200
> getinfo@hummingbird.com > <http://connectivity.hummingbird.com>

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