# Georgia SoftWorks
## Universal Terminal Server **For Windows 7/8/VISTA/2008/R2/2012, NT/XP/2000/2003**

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## Georgia SoftWorks UTS FEATURES

The GSW UTS is the core server software module that is the foundation for the GSW protocol and application interfaces such as Telnet and SSH2.
Products based on the GSW UTS demonstrate the reliability, flexibility, consistency, performance and rich feature set required for demanding commercial environments.

## Power Feature Pack

- **Team Services –** *Team Members Helping Team Members* ⭐⭐⭐⭐⭐
  Breakthrough collaboration technology for SSH2/Telnet
  Share, Swap, Transfer and Recover Sessions. Continue exactly where you left off
  SHARE    – Two devices share the same session. Either device may be used
  SWAP       – Swap Devices but keep your sessions
  TRANSFER – Move your session to another members device.
  RECOVER  – Recover a dropped session to the same or another device
  All initiated from the GSW client or 3rd party SSH2/Telnet client on the device or workstation
  *No system administrator intervention. All in under 60 seconds*

- **Automatic Logon**
  Accelerate User Logon:  No prompting for Username or  Password
  Safe, no password transferred across network

- **SSH Single Sign-On through NTLM and Kerberos, Active Directory**

- **SSH Certificate Based Logon** ⭐⭐⭐⭐⭐
  Safe, Fast and Secure based on User's Digital Certificates

- **True Client Side Printing**
  Print to Portable Bar Code Printers
  Pass-through printing
  Print to the most convenient printer
  Special refresh character (user definable)

- **Logon Scripting - Global, User or IP Address based**
  Application automatically launches upon user connection and drops user into the application

- **Termination Scripting**
  Automatically run application upon session termination

- **Programmatic Interface**
  Programmatically take control of Input/Output to/from client

## Security Pack

- **FIPS 140-2 compliant option available** (Server and Client, End to End) **– SSH2**
  Developed for the US Military, now available commercially

- **SSH2 Server** (Server and Client, End to End)
  Very strong logon and data stream encryption
  (AES-256, 3DES, Blowfish and others)
  Secure remote login, secure data exchange
  Secure access to application

- **SSH2 Authentication features – Including Single Sign-On**
  User Name/Password
  Public Key Authentication with IIS style certificate to user account mapping support
  Kerberos over GSSAPI Authentication 'gssapi-with-mic'
  NTLM over GSSAPI Authentication 'gssapi-with-mic'
  'x509v3-sign-rsa' and 'x509v3-sign-dss' public key authentication with certificate to user account mapping
  Both 'One-to-one' and 'Many-to-one' certificate mapping models supported
  Integration with Microsoft Certificate Support

- **Optional Connection Restrictions**
  Windows User Name, User ID and count, IP Address and count
  Session count, Encryption Type, Time of Day
  Fields in Users Digital Certificate

- **Restrict User to an Application**
  Automatically launches application when user connects
  Automatically disconnects session when user exits application

- **Integrated with Windows 7/8/Vista/2008/R2/2012, NT/XP/2000/2003 security**

- **Encrypted Logon and data stream available with GSW Telnet**

### Applications

- Legacy Applications
- Remote Administration
- Application Server Programs
- Custom Applications

### RF Devices and Barcode Scanners
Honeywell, LXE PSION-TEKLOGIX MOTOROLA SYMBOL INTERMEC Unitech and others!

### Industries

- Automotive
- Government
- Inventory
- Manufacturing
- Military
- Medical
- Pharmaceutical
- Research
- Retail
- Travel
- Service
- Warehousing
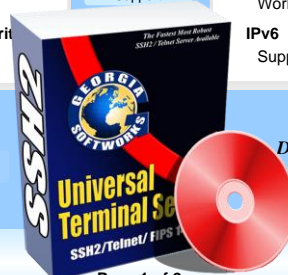- Virtual Machine Support

## Session Administrator

- **Session Monitoring**
  Identify an active user session to monitor and observe dynamic screen activity exactly as it appears to the other user

- **Session Shadowing**
  Monitoring with the added capability of interactive input!
  Take control of a session from the convenience of your workstation

- **Attach to Sessions**
  Continue work in progress from a suspended session

- **Broadcast text to one or more sessions**
  On Demand Broadcast or Scheduled Broadcast

- **Terminate User Session**

- **Obtain Session Status Information**
  Windows User Name
  IP Address
  Process ID, Monitor ID
  Logon Time
  Number of Users
  Connection Status and Version
  True FIPS 140-2 client
  Team Service State
  Displays SAP User name when Rocket Terminal Engine is installed

- **Command Line Options**
  Use for manual or programmatic execution of GS_Admin features

- **GUI Configuration Tool**        ⭐⭐⭐⭐⭐

## Emulations/Compatibility Pack

- **Terminal Emulations**
  Dec VT100/220/320/420
  SCO Console
  Wyse 50/60
  IBM 3010, IBM 3151

- **Multi-National Language Support**
  Unicode-UTF-8 Encoding
  Double-Byte, Traditional and Simplified Chinese support
  GSW Mobile Clients support Simplified Chinese Font GB

- **Configurable Screen Size**
  Automatically change screen size when application launches

- **Color Re-Mapping**
  Modify application colors without changing any source code

- **Character Display Transition**
  Automatically translate a character into another character
  Automatically translate a character into a string of characters

- **Custom Shell Support**  `NEW`
  Added for Windows PowerShell and other custom shells

- **Telnet – RFC 854 Compliant**
  Works with 3rd party clients

- **SSH2 -**
  Works with 3rd party clients

- **FIPS 140-2**
  Works with 3rd party FIPS 140-2 compliant clients

- **IPv6**
  Support IP v6 Addressing

### GSW UTS Deployment Options

- **GSW Telnet Server**
- **GSW SSH2 Server**
- **GSW SSH2 Server with FIPS 140-2**

*Works Great with*  HighJump,
SAP's SAPConsole
QAD's NETUI & DESKTOP 2
Vangard Voice AccuSpeech Mobile  *And many others!*

Fully Functional Trial Downloads Available
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## Georgia SoftWorks UTS FEATURES

## Failure Detection/Recovery Pack

- **Multiple Advanced Failure Detection / Recovery Technologies**
  This is one area that separates the toys from the tools. Commercial environments require detection of remote link, PC and client failures and appropriate action initiated to eliminate or prevent data loss and impact on other users. Just as important is a fast recovery so work can continue.

  Due to the many ways failures can manifest, multiple failure detection and recovery technologies are required. Once a failure is detected then the objective is the fastest possible recovery so work can be continued exactly at the same point where the failure occurred. If recovery is not possible then the session should gracefully shutdown so there is no data loss and system resources returned for other users.

  Over the last decade Georgia SoftWorks UTS has pioneered many of the technologies described below for our customers in industrial environments.

- **Session Saver**
  This feature Saves the SSH2/Telnet session in the event of a link or client failure and allows users to reconnect to the same session the next time they log in. They resume the work in progress, exactly where they left off.

  Extremely useful when connectivity is across the Internet or with Radio Frequency Barcode / Scanner application where it is important to continue work in progress even after a connectivity failure.

  Quickly re-establish the session and resume work in progress after link or client failure.

- **Complete Session and NTVDM cleanup**
- **Server Side Heartbeat**
  Sets frequency in seconds to poll 3$^{rd}$ party clients for presence
- **Client Side Heartbeat**
  GSW clients send a heartbeat to the server at specified intervals
- **Server Side Inactivity Timer**
  Optional administrative policy to terminate sessions after a period of inactivity
- **Termination Scripting**
  Automatically run application upon session termination
- **Graceful Termination**
  Upon abnormal termination of a client, link or remote computer failure, send a sequence of characters to the application to attempt a graceful termination
- **Team Services Recover**
  Allows a suspended session to be recovered to another device
- **Session Administrator Attach, Shadow**
  Allows session administrator to take over a suspended session

## GSW Super Clients Pack - *No Extra Cost – BIG SAVINGS!*

- **GSW Provides Desktop and Mobile Telnet/SSH2 clients for the GSW UTS**
  Designed to work with CE .NET 4.2+, Windows Mobile 5.0+, Pocket PC 2002/2003 Perfect PC emulation. This means the client operates as if you were sitting at the host system, including the mouse/stylus/touch screen!
  File transfers, encryption, client side printing
  Execute commands on the client from within SSH2/Telnet
  Automatic Logon and much more
  Automatic Reconnect
  Application Persistence
  Beep(Bell) Sound - Correct operation
  Fast Function Keys
  Keyboard Macros
  Power Management
  Portable session configuration
  Screen Size – Automatically change screen size
  Scroll Bars – Off/On
  Session Saver (Stay connected)
  Team Services
  Version Upgrade – Automatically upgrade client version to match server version
  GSW Universal Mobile SSH2/Telnet Clients Included, No Extra Cost
  GSW Windows CE client modified to use the AUDIO_PlayBeeper API if AudioAPI32.dll is available on Motorola devices  **NEW**
- **ALL GSW clients provide support for Voice Vangard AccuSpeech® Mobile**
  AccuSpeech's innovation brings high productivity voice controls, data collection, voice reporting and prompting capabilities

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### RF Devices and Barcode Scanners
- LXE
- PSION-TEKLOGIX
- MOTOROLA
- SYMBOL
- INTERMEC
- Unitech
- and others!

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- Inventory
- Manufacturing
- Military
- Medical
- Pharmaceutical
- Research
- Retail
- Travel
- Service
- Warehousing
- Virtual Machine Support

## Utility Pack - Perform Amazing Tasks via SSH2/Telnet

- **File Transfers with SSH2/Telnet**
  No need for an FTP server to be installed and you are not limited by file sizes as with many email attachments. If using a secure connection (SSH2) then the file transfer is also secure
- **Change Windows User Account Password**
- **Connection Banner**
  A custom banner can be displayed to the client upon connection to the host
- **Remote Reboot, Remote Shutdown**
- **Remote Registration**
  When upgrading to a new version or permanently activating a trial version
- **Special Bell Processing**
  GSW SSH2/Telnet server can intercept a special character written to the application's screen and send a bell character to the terminal. The number of times that the bell will sound is also configurable
- **Special SAP(SAPConsole) Bell Processing**  **NEW**
  Gswbell supports correct bell operation after a Session Saver reconnect
- **Configurable Telnet Port Number**
  Use a different port (other than port 23) for telnet
- **Configurable Multiple Telnet Ports**
  Up to 100 telnet ports. Access port numbers associated with your session
- **TTY Name**
  Create a tty name on a per session basis
- **Execute programs on the client from a SSH2/Telnet Session**
  Normally with Telnet/SSH2 programs are run on the server. However this powerful utility facilities client side processing of server side files and more. Now you can execute commands on the client completely within the SSH2/Telnet session
- **Launch a GUI program from a SSH2/Telnet Session**
  Launch a GUI application on the server's desktop from a SSH2/Telnet session using the gs_gui.exe and gs_engui.exe utilities
- **Set Default Domain / Override Default Domain**
  In some instances the system administrator may want to eliminate prompting for a domain when the user is connect to the SSH2/Telnet Server
- **Client Scroll Bars**
  Enable scroll bars on the Windows client. "No Scroll Bars" option for Windows CE .NET 4.2/5.0+ clients

## Legacy Pack

- **Full DOS Legacy Support**
- **MOUSE/Stylus/Screen Touch**
  When using the GSW SSH2/Telnet clients the Mouse works as expected
- **DOS Character Mode Color Graphics**
  Full range of DOS character mode colors and characters are fully supported
- **Function Keys, Special Characters**
  When using GSW clients, the function keys work as expected. When using 3$^{rd}$ party clients the function keys are supported as per the emulation specified
- **Alt Key Support for all emulations with 3$^{rd}$ party clients**
- **Control-c support for all SSH2/Telnet clients**
- **Automatic Screen Sizing**
  Important feature for Mobile devices

## Performance Pack

- **GSW UTS 64-Bit platform edition**
- **Highly optimized source code, developed with modern tools**
  Custom algorithms, re-written in assembly language for maximum performance
- **Developed specifically on Windows for Windows – Not a 'quick port'**
- **Compression for slow link speeds**
- **Automatic Logon for fastest logons**
- **Over 2000 sessions on a single server!**
  Yes it's true, we have done it

Fully Functional Trial Downloads Available
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