

# Giritech Product Announcement



Wednesday, March 24, 2010

Giritech A/S proudly announces:

## **G/On 5.4 – New G/On 5 release for migration from G/On 3.x Availability: Now!**

G/On 5.4 is the newest release of the entirely new G/On 5 generation released to the market on October 20, 2009. Today's announcement is focusing on new features in G/On 5.4 facilitating easier migration from Giritech's previous generation product, G/On 3.x to the new G/On generation 5.

Please consult the G/On 5 Product Announcement for a complete description of the G/On 5 product line from Giritech. The G/On 5 Product Announcement can be downloaded here:

[Download the original G/On 5 Product Announcement](#)

### **G/On 5.4 Key Highlights**

Today's announcement is focusing on migration of existing G/On 3.x customers to G/On 5:

- Support for the existing Hagiwara H2 and H3 USB Tokens currently used in G/On 3.x
- The new Computer User Token enabling the use of the PC as an authentication factor removing the need for an USB Token (what in G/On 3.x is called "G/On Desktop")
- G/On Client Installation package for Windows for easy distribution of the G/On software client
- New optional feature, Field Enrollment, for remote enrollment of authentication tokens including the enrollment of Computer User Tokens on individual PCs
- Support for local users on the G/On Server (Microsoft AD no longer a requirement)
- New features in G/On Management
- Use of FIPS 140-2 validated Crypto++ encryption library
- Client side support for the Linux OS Fedora 12
- Access to applications on Citrix XenApp server/farms through the Citrix XML Service
- Improved server performance
- Experimental:
  - New powerful Remote Desktop (RDP) connection in Windows for seamless support for Microsoft's MSTSC client including G/On Server side single sign-on and the TS 2008 Connection Broker.
- General improvements and error corrections

### ***Availability***

G/On 5.4 is available for download on March 24, 2010

## **Licensing**

**New customers:** Please consult [www.giritech.com](http://www.giritech.com) for details on how to acquire a G/On license.

**Existing G/On 5 customers:** All existing G/On 5 customers on active maintenance are eligible for a free upgrade to G/On 5.4. The new feature, Field Enrollment, requires separate licensing.  
*Existing customers should contact their Giritech Partner for details.*

**Existing G/On 3.x customers:** Existing G/On 3.x customers on active maintenance are offered software price protection when upgrading to G/On 5. Please notice: G/On 3.x customers using the first generation G/On USB H1 64MB keys will not be able to use these keys with G/On 5.  
*Existing customers should contact their Giritech Partner for details.*

## **G/On 3.x – Withdrawal from Marketing and End of Life**

### **G/On 3.6 Withdrawal from Marketing**

As part of today's announcement, Giritech is also announcing that effective immediately, no new G/On 3.6 installations will ship from Giritech. Customers with pending G/On 3.6 proposals from Giritech Partners will - through April 10 - be offered G/On 5 instead.

### **G/On 3.6 End of Life**

Also today, Giritech is announcing G/On 3.6 End of Life on December 31, 2010. This End of Life announcement means:

1. Customers on active maintenance agreement will continue to receive support in the application and use of G/On 3.6 (also after December 31, 2010).
2. Customers can continue to purchase new user licenses and features in G/On 3 (also after December 31, 2010).
3. Until December 31, 2010, Giritech will provide full technical support for G/On 3.6, however, Giritech reserves the right to ask customers to upgrade to G/On 5 in case of issues already or more easily addressed in G/On 5.
4. From January 1, 2011, no fixes will be issued to G/On 3.6 and customers must upgrade to G/On 5 to solve any new product issues in G/On 3.6.

Giritech offers customers on an active maintenance agreement full protection of their G/On 3.x software investment when they upgrade to G/On 5. See details on page 18.

## **G/On 5.4 in Detail**

### **Support for Hagiwara H2 and H3 USB devices (Windows Only)**

Giritech was first to market in 2004 with its innovative G/On USB client that in one mobile device provides two-factor authentication and secure software storage for connectivity. This physical device is developed by Hagiwara who has released new and larger capacity USB devices in 2007 and 2008. Today, most G/On 3.x customers are using Hagiwara H2 (128MB memory) and Hagiwara H3 (1GB memory).

The evolution of authentication devices has since accelerated as CPU and memory circuits have reached new levels of integration with more functionality on still smaller chips. With the introduction of G/On 5.3, Giritech also introduced new smart card based authentication tokens (G/On MicroSmart) but until now, G/On 5 customers have not been able to use the original Hagiwara USB devices.

With the release of version 5.4, G/On 5 now supports Hagiwara H2 (128MB) and Hagiwara H3 (1GB) USB keys as authentication tokens. Be aware that G/On 5 does not support the original Hagiwara H1 USBs. Their limited storage capacity of 64MB and the older technology prevents secure support for these

in G/On 5.

**Please notice:** H2 and H3 tokens only work with Windows.

G/On 5 takes advantage of the following features of the Hagiwara USB's:

- CD-ROM drive for read-only protection of the G/On client software and for auto-launch of G/On in accordance with the capabilities of the operating system
- Read-Write disk drive for storage of other software and data
- Hidden memory for storage of the private key used for authentication
- Unique hardware ID to lock the private key with the physical USB

Customers will have a number of options for migration of their Hagiwara USB keys from G/On 3.x to G/On 5 depending on their situation and preferences.

See also table on page 6 for a complete overview on available authentication tokens.

### **Computer User Token (Windows)**

G/On 5.4 introduces a new type of authentication token, Computer User Token, that can be used to turn a user's computer into a G/On authentication factor. The Computer User Token stores its private key in a registry entry for the specific user account on the computer and uses the MAC address for the enabled network adapters to link the private key to the computer.

**Please notice:** Computer User Tokens in G/On 5.4 only work on Windows. (The Computer User Token is released in lieu of the G/On Device Token mentioned in the announcement of G/On 5.3.)

The Computer User Token is used in combination with the installation of the G/On Client software directly on the computer. This is a convenient G/On solution for users with personal laptops or computers they use on a permanent basis for G/On access to company applications. Since the computer serves as hardware authentication token, these users will not need a G/On USB token or other tokens for authentication, effectively making two-factor authentication transparent to the user.

See also table on page 6 for a complete overview on available authentication tokens.

### **Field Enrollment (Windows)**

G/On's integrated two-factor authentication functionality combines an authentication token ("something you have") with a user name and password ("something you know"). The authentication token must be known ("enrolled") to the G/On server before users are able to login. G/On 5.4 introduces a new optional enrollment process that makes it possible for G/On users to do the enrollment of tokens "in the field" in addition to the centralized process already available in G/On today. The Field Enrollment feature is especially valuable when enrolling Computer User Tokens but can also be used to enroll G/On's USB tokens and SoftTokens on regular non-G/On USB keys. Users can install the G/On Client software on their token or on their computer and the Field Enrollment feature enables users to initiate the enrollment process. The G/On Administrator has the option to approve or refuse the attempted enrollment or the Administrator can elect to automatically approve enrollments.

**Please notice:** Field Enrollment in G/On 5.4 only works on Windows.

Field Enrollment is an optional G/On Server Feature that must be licensed for use.

### **Local G/On users on the G/On server**

G/On 5.4 has the capability of authenticating user name and password against the local user directory of the Windows Server. Very small organizations without a Microsoft Active Directory (AD) infrastructure can now reap the full benefits of G/On and achieve secure access to the PC's in their office. G/On is probably the simplest, the most secure and the most affordable remote access solution available.

Authentication against the local user directory of the Windows Server can be used in combination with authentication against Microsoft AD and/or any LDAP compliant user directory. This is a convenient

solution for giving access to external contractors to very specific resources without the need for creating a user in the AD/LDAP. For instance, contractors servicing the G/On Server itself or other servers in the network.

### ***G/On Management***

G/On's single point of management provides the tools to define G/On's authentication policies for accepting users, authorization policies for assigning applications to users, and token management. G/On 5.4 introduces new features especially related to the management Tokens and basic workflow functionality related to the Field Enrollment process.

### ***FIPS 140-2 Validated Encryption***

G/On 5.4 is using the FIPS 140-2 validated Crypto++ v 5.3.0 and it will now be possible to validate G/On 5's use of the FIPS validated encryption for Windows.

### ***Client side support for Fedora 12***

In addition to supporting Fedora 11, the G/On 5.4 client also supports Fedora 12. It is very likely that the G/On 5.4 client will run on other Linux variants, however, Giritech is currently only testing Fedora and only in 32 bit versions.

### ***Support for Citrix XML Service***

Many G/On customers are enabling access to applications on Citrix XenApp server/farms and Giritech introduced a new level of Citrix integration with support for Citrix Web Interface in G/On 5.3. With the release of G/On 5.4, Giritech is taking the Citrix integration even deeper with support for the Citrix XML Service providing G/On Server side single sign on, seamless application integration, and support for Citrix server farms.. With a single G/On Menu Action, the Citrix XML Service Interface will automatically populate the G/On Menu with the published applications on the Citrix XenApp servers. Consequently, the G/On Menu of Citrix applications is managed directly from the Citrix XenApp server management and publication – or withdrawal - of Citrix applications requires no additional work in G/On.

### ***Improved server performance***

With the release of G/On 5.4, Giritech has improved the ability of the G/On Gateway Server to take advantage of multi processor and multi core server hardware.

### ***Experimental***

Giritech continues to improve G/On and to add new functionality that will help our customers gain more value and more benefits from G/On. Giritech will be releasing some of this functionality on an experimental basis to allow our customers to get early access to new functionality and to potentially provide feedback to Giritech. One such feature is:

#### **G/On server side support for single sign-on for the Remote Desktop for Windows**

As Microsoft is enhancing the capability of their RDP server (formerly Terminal Services) in Windows Server 2008 and the RDP client in Windows 7, Giritech will offer deeper and more seamless integration with the RDP protocol to offer G/On users the full benefits of these RDP enhancements in Windows.

G/On 5.4 includes a new, experimental Remote Desktop protocol (RDP) connection type and a set of templates for the creation of corresponding menu actions. The new G/On RDP connection type includes full RDP protocol awareness and supports:

- G/On Server side single sign on
- TS 2008 Remote apps
- TS 2008 Connection Broker

and replaces the need for TS 2008 Gateway.

We encourage our customers to enable the new G/On Menu Action templates and to provide us feedback on the forum on [www.giritech.com](http://www.giritech.com). **Please notice:** *This new RDP connection type requires the G/On Server Feature, Launch Parameter File.*

### ***Other improvements***

Please consult the G/On 5.4 release notes for these details.

## Available G/On 5 Authentication Token Overview

<b>G/On 5 Hardware Authentication Tokens</b>	<b>MicroSmart (microSD card)</b>	<b>USB MicroSmart</b>	<b>USB H3</b>	<b>Computer User Token</b>	<b>SoftToken (On removable device)</b>
<b>Availability</b>	Now	Now	Now	Now	Now
<b>Supported Operating Systems</b>	Windows/Mac/Linux	Windows/Mac/Linux	Windows	Windows	Windows/Mac/Linux
<b>Software Execution from Token</b>	Yes	Yes	Yes	Software installed on computer	Yes
<b>Zero Footprint</b>	Yes	Yes	Yes	n/a	Yes
<b>Driverless Operation – uses existing mass storage driver</b>	Yes	Yes	Yes	Yes	Yes
<b>Works for NON-admin users</b>	Yes	Yes	Yes (No for CD update)	Yes	Yes
<b>Authentication Method</b>	Challenge-Response Protocol and Private Key on Smart Card	Challenge-Response Protocol and Private Key on Smart Card	Challenge-Response Protocol on Computer and Private Key in Hidden Memory	Challenge-Response Protocol on Computer and Private Key in User Registry	Challenge-Response Protocol on Computer and Private Key on Removable Storage
<b>CD ROM partition for read only storage of G/On Client</b>	No	No	Yes	n/a	No
<b>Flash Memory</b>	1GB	1GB	1GB less size of CD ROM	n/a	n/a (SoftToken must reside on removable drive)

## Comparing G/On 5.4 with G/On 3.6

This section provides a brief summary of the main differences between G/On 3.6, based on the previous technology platform and G/On 5.4 based on the new G/On 5 platform.

G/On 5 is an entirely new, significantly more powerful generation of Giritech's technology supporting Windows, Mac, and Linux clients, new authentication devices and methods, improved performance, and a new and more robust user interface for administration and management. However, the basic functionality and objectives of G/On 5.4 are the same as for G/On 3.6.

There are currently a few features in G/On 3.6 that requires manual configuration in G/On 5. This section also provides the G/On 5 road map to help you understand when new features are expected. Feel free to contact Giritech ([support@giritech.com](mailto:support@giritech.com)) if you have questions to the road map.

### Legend:

Y: Yes, supported in G/On 3.6, G/On 5.4 or future G/On 5 releases respectively

L: Limited support, typically involving manual setup and administration

P: Planned

- : Not supported

Feature	G/On 3.6	G/On 5.4	G/On Road map
<b>Architecture:</b>			
Distributed	-	Y	Y
Plug-in based	-	Y	Y
Separate gateway servers and management server	-	Y	Y
<b>Client operating system:</b>			
Windows 2000	L	-	-
Windows XP (32-bit)	Y	Y	Y
Windows Vista	Y	Y	Y
Windows 7	Y	Y	Y
Mac OS X 10.4 Tiger	-	Y	Y
Mac OS X 10.5 Leopard	-	Y	Y
Mac OS X 10.6 Snow Leopard	-	Y	Y
Linux Fedora 11 & 12 (32 bit)	-	Y	Y
Future Fedora releases	-	-	P
Other Linux distributions (e.g. Ubuntu)	-	-	P
Mobile operating systems (Win Mobile, Android, iPhone OS, etc.)	-	-	P
<b>Server operating system:</b>			
Windows Server 2003 R2	Y	Y	Y
Windows Server 2008 SP2, R2	Y	Y	Y
Linux (Red Hat)	-	-	Y
Support for Virtual Server installations	L	Y	Y
<b>Database options:</b>			
Built-in	Y	Y	Y
External SQL 2005	Y	L	Y
External SQL 2008	Y	L	Y
<b>Server features:</b>			
Duplicated Servers	Y	L	Y
Built-in load balancing	-	L	Y
<b>Client features:</b>			

HTTP Encapsulation (HTTP Proxy support)	Y	Y	Y
Connection Failover	Y	Y	Y
"No installation" client software	Y	Y	Y
"Minimal footprint" client software	Y	Y	Y
<b>Authentication technology:</b>			
Local user directory on G/On server	Y	Y	Y
Directory validated username/password	Y	Y	Y
Remote change of password	Y	Y	Y
LDAP validated username/password	3 <sup>rd</sup> Party	Y	Y
Hardware token - Hagiwara H1	Y	-	-
Hardware token - Hagiwara H2, H3 (Windows only)	Y	Y	Y
Hardware token – G&D StarSign Mobile Security Card	-	Y	Y
Hardware token - G&D StarSign Mobility Token µSD	-	Y	Y
Hardware token - G&D StarSign Mobility Token Classic	-	-	Y
Hardware token - G&D StarSign Mobility Token ID1	-	-	Y
Soft-token (for use on regular but less secure USB keys)	-	Y	Y
Hardware token - Computing Device (G/On Desktop)	Y (Windows)	Y (Windows)	Y
<b>Other security features:</b>			
Customizable Authentication policies	-	Y	Y
Customizable Authorization policies	Y	Y	Y
FIPS 140-2 validated AES-256 encryption (Windows)	Y	Y	Y
Protected encryption key (for support of TrueCrypt or similar)	Y	-	Y
Support for hardware based USB encryption	-	-	Y
"Lock-to-Process" support	Y	Y	Y
Secure Virtual Application Access (SVAA) (different from VPN)	Y	Y	Y
Bootable, locked down Linux operating system on G/On USB Token	-	Y	Y
<b>Protocol support:</b>			
IPv4	Y	Y	Y
IPv6	-	Y	Y
TCP	Y	Y	Y
UDP	Y	-	Y
SOCKS	Y	Y	Y
FTP (via 3 <sup>rd</sup> party software)	Y	Y	Y
<b>End-user experience:</b>			
Dynamic user menus	Y	Y	Y
Device dependent menus (called "Zones" in 3.x)	Y	-	P
Flexible customized splash screens	Y	Y	Y
Single Sign-On (Citrix, TS)	Y	Y	Y
Auto-run (where possible)	Y	Y	Y
Simplified "Top 3" menu	-	Y	Y
Native operating system GUI	Y (only Windows)	Y	Y
On-Screen Keyboard	Y	-	Y
Login "brute force" protection features	Y	-	Y
<b>Single Sign-On support:</b>			
GTSC (password forward for RDP)	Y	Y	-
GICA (password forward for ICA)	Y	-	-
Citrix Web Interface with single sign on	-	Y	Y
Citrix XML Interface with single sign on	-	Y	Y
RDP protocol support with server side single sign on	-	(Y)	Y
Other protocol specific proxies	-	-	P

<b>Administrator experience:</b>			
New, improved look & feel	-	Y	Y
Server setup wizard	-	Y	Y
Upgrade wizard	Y	Y	Y
Policy based administrator GUI	-	Y	Y
Client/Server based management tool for secure remote administration	-	Y	Y
Semi-automatic enrollment of tokens	Y	Y (Windows)	Y
Field enrollment of tokens	Y	Y (Windows)	Y
Integrated end user support (G/On Help)	Y	Y	Y
<b>Reporting:</b>			
Advanced Log-files	Y	Y	Y
Extensible Reporting (BIRT support)	-	Y	Y
Basic set of Reports	-	Y	Y
Advanced set of standard Reports	-	-	Y
<b>Remote Software management:</b>			
Managed Server-side (centralized mgmt of remote software)	Y	Y	Y
Automatic push of client software	Y	-	Y
On-demand download of client software	-	-	Y
Simple directory based	Y	-	-
Advanced package based	-	Y	Y
Customizable package management	-	Y	Y
<b>Licensing:</b>			
Basic licensing support	-	Y	Y
Online license acquisition	Y	-	Y
Offline license acquisition	Y	Y	Y

## G/On 5.4 Hardware & Software Requirements

### The G/On Server requires the following:

- Hardware requirements: Minimum available hard disk space: 1GB  
Minimum 2GHz Processor  
Minimum 2GB memory
- Software requirements: Microsoft Windows Server 2003 R2  
Microsoft Windows Server 2008 or 2008 R2  
*Both 32 and 64 bit versions are supported*
- Firewall requirements: Port 443 set for "Through Traffic" (Default)  
*G/On can be configured for other ports, e.g. 3945 or 80.*

### The G/On Client requires the following:

- Minimum Storage: 128MB in a minimum configuration for the Windows client,  
Remote Desktop access (RDP), Citrix Web Interface, FileZilla.

Recommended Minimum Storage is 1GB to run Windows, Mac, and Linux clients and a typical set of application clients such as RDP, Citrix, Filezilla, and the G/On Management Client.

**G/On Secure Desktop:** Recommended Minimum Storage is 1GB to run Windows, Mac, Linux and G/On Secure Desktop along with RDP, Citrix and FileZilla.

**Please notice:** *G/On Secure Desktop is not available for Mac.*

### G/On MicroSmart 1GB token requires the following:

- Hardware requirements: Micro SD port/adaptor  
Minimum one virtual drive mapping available (e.g. drive E:\ )
- Software requirements: Latest version of one of the following:  
Microsoft Windows XP  
Microsoft Windows Vista (32/64 bit)  
Microsoft Windows 7 (32/64 bit)  
Apple Mac OS X 10.4 (Tiger)  
Apple Mac OS X 10.5 (Leopard)  
Apple Mac OS X 10.6 (Snow Leopard)  
Linux Fedora 11 or 12 (32 bit)

### G/On USB MicroSmart 1GB token requires the following:

- Hardware requirements: USB port version 1.1 and higher  
Minimum one virtual drive mapping available (e.g. drive E:\ )
- Software requirements: Latest versions of:  
Microsoft Windows XP  
Microsoft Windows Vista (32/64 bit)  
Microsoft Windows 7 (32/64 bit)  
Apple Mac OS X 10.4 (Tiger)  
Apple Mac OS X 10.5 (Leopard)  
Apple Mac OS X 10.6 (Snow Leopard)  
Linux Fedora 11 or 12 (32 bit)

**G/On USB H3 1GB token requires the following:**

- Hardware requirements: USB port version 1.1 and higher  
Minimum two virtual drive mapping available (e.g. drive E:\ and F:\)
- Software requirements: Latest versions of:  
Microsoft Windows XP  
Microsoft Windows Vista (32/64 bit)  
Microsoft Windows 7 (32/64 bit)

**Tested Application Clients:**

G/On has been tested with the following application clients:

***Latest version of Citrix®***

***Latest version of Microsoft® Windows® Terminal Server***

**Note:** G/On does not support the following TS 2008 features:

- TS 2008 Remote apps <sup>\*)</sup>
  - TS 2008 Gateway <sup>\*\*)</sup>
  - TS 2008 Web Access
  - TS 2008 Connection Broker, if configured for IP address redirection <sup>\*)</sup>
- <sup>\*)</sup> Remote Apps and the Connection Broker are fully supported by the new G/On RDP Connection Type included with G/On 5.4 in a pre-release version.
- <sup>\*\*)</sup> The new G/On RDP Connection Type provides the same functionality as TS Gateway  
See details on page 4.

***Browser:***

If an application uses Microsoft® Active Server Pages®, Microsoft® Internet Explorer is required. If application is Java-based, no specific browser is required. Please note that Microsoft® Internet Explorer does not provide out-of-the-box Java support.

## **G/On 5.4 Documentation & Collateral**

Technical documents such as the G/On Manuals and various White Papers, as well as sales and marketing collateral are available via the Giritech website at [www.giritech.com](http://www.giritech.com).

## **Training & Support**

### ***Technical Training***

Giritech offers two day technical training classes covering an overall introduction, installation, configuration, and enablement of a number of client/server solutions including Citrix, Remote Desktop, Outlook, FTP, Browsers, etc.

Two day training classes are offered at the company address:

Giritech A/S  
Spotorno Allé 12, 2.sal  
DK-2630 Taastrup  
Denmark

Training schedule is published on [www.giritech.com](http://www.giritech.com). Please register for training by email to [sales@giritech.com](mailto:sales@giritech.com).

There is no fee for Giritech Partners to attend G/On training classes.

G/On customers pay a fee of EURO 700 (DKK 5.000, USD 1.000) per person. Cancellations are accepted until 24 hours before scheduled training start. Late cancellations will be charged 50% of the training cost.

### ***Giritech Support***

Giritech offers G/On support indirectly to customers through our network of Giritech Partners.

Giritech offers G/On support to our partners in Denmark, North America and in the UK. Other markets are supported by local Giritech offices. Please consult [www.giritech.com](http://www.giritech.com) for details.

Our partners can request support online via [support@giritech.com](mailto:support@giritech.com), via our website at [www.giritech.com](http://www.giritech.com) or in urgent cases via telephone on +45 70 277 282.

Support is available during normal office hours (9:00 – 16:00 CET = 03:00am – 10:00am EST).

G/On customers can obtain support directly from Giritech through the purchase of a Service and Support agreement. Please contact Giritech for details.

## G/On 5 License Model

The license model for G/On 5 is based on a Server License comprised of four different components: User Access License, Token Access License, Server Features and Client Features.

### 1. User Access License

The G/On Server must be licensed for all the users that it will be managing. A user is identified by a User ID and each User ID requires a User Access License (UAL).

### 2. Token Access License

The G/On Server must also be licensed for the Authentication Tokens that it will be managing. Each enrolled G/On Token requires a corresponding Token Access License (TAL).

- a. Additional TALs are required for users having more than one G/On Authentication Token such as a G/On USB and a laptop with the G/On client installed and using G/On Computer User Token for authentication.
- b. Additional TALs are also required if the more than two factors for authentication is required. For instance, (however, not currently available) in addition to the G/On USB token, a RSA Token, a finger print reader or a SMS one time password may be required.

### 3. Server Feature

The G/On Server comes with a standard set of features and a set of optional features that can be licensed individually. Some of the optional features are licensed in quantities.

### 4. Client Features

In addition to the G/On Client itself, certain client features can be licensed for all or a subset of G/On Clients. Client Features are licensed by the number of G/On Tokens or devices they are installed on.

## **Standard Feature Set of G/On 5.4**

The standard feature set of G/On 5.4 provides the following functionality:

1. G/On Client for Windows, Mac and Linux client operating systems
2. Two-factor Authentication via local user directory on G/On server
3. 256 bit AES encrypted and FIPS 140-2 compliant remote communication
4. G/On Client connection on one IP address or DNS name and on one IP Port
5. Up to twenty menu actions for enabling of **single port TCP based client/server applications** including (but not limited to):
  - a. Windows Remote Desktop access to Windows server/desktop with single sign on
  - b. Windows VNC Remote access to Mac
  - c. Linux Remote Desktop access to Windows server/desktop with single sign on
  - d. Mac Screen Sharing for remote access from Mac to Mac with single sign on
  - e. Browser and browser based applications including Outlook Web Access (OWA)
  - f. Outlook over HTTP
6. Dynamic user menus with “autolaunch” capabilities
7. User requested update of G/On Client software and client software packages
8. Includes support for the following authentication tokens:
  - a. G/On MicroSmart 1GB
  - b. G/On USB MicroSmart 1GB
  - c. G/On USB H3 1GB
  - d. Computer User Token
  - e. G/On SoftToken
9. Logging and reporting

### Optional Client Features

<b>G/On Secure Desktop</b>	This feature enables the bootable secure Linux operating system from a G/On USB Token. The feature is licensed for the total quantity of G/On Tokens that it must be enabled for. <i>Notice: G/On Secure Desktop is not available for Mac computers.</i>
<b>G/On Help Client Standard</b>	This feature enables the G/On Help Client Standard from a G/On Token or device. The feature is licensed for the total quantity of G/On Tokens and devices that it must be enabled for. <i>Notice: Only available for Windows</i>
<b>G/On Help Client Advanced</b>	This feature enables the G/On Help Client Advanced from a G/On Token or device. The feature is licensed for the total quantity of G/On Tokens and devices that is must be enabled for. <i>Notice: Only available for Windows</i>

### Optional Server Features

<b>Additional Gateway Servers</b>	A G/On 5 license comes default with one G/On Gateway Server. Additional Gateway Servers for fail-over and load balancing can be acquired. All Gateway Servers must be managed by one and the same G/On Management Server. This feature requires MS SQL Database connectivity and it typically requires Multiple Client Connect IP Addresses unless the gateway server cluster is connected via a load balancer.
<b>Multiple Client Connect IP Addresses</b>	By default, G/On offers a single IP Address for the G/On Client to connect to. This feature allows the configuration of multiple IP Addresses to be defined for G/On Client to connect to for fail over purposes or load balancing. This feature is typically required when there is more than one Gateway Server.
<b>Multiple Client Connect IP Ports</b>	By default, G/On offers a single IP Port for the G/On Client to connect to. This feature allows the configuration of multiple IP Ports to be defined for G/On Client to connect for alternate ways to reach the Internet from a local network.
<b>HTTP Encapsulation</b>	This option allows the configuration of HTTP Encapsulation for the G/On Client to reach the Internet from a local network via HTTP proxies.
<b>Field Enrollment (** NEW in 5.4)</b>	G/On 5.4 introduces a G/On Client Installation package for Windows for easy distribution of the G/On Client. This Field Enrollment option enables the G/On Administrator to allow users to remotely enroll their authentication token. The G/On Administrator decides if enrollment is automatically completed or must be approved centrally. <b>Works only for Windows in G/On 5.4.</b>
<b>LDAP User Directory</b>	This option allows authentication of users against any LDAP compliant user directory.
<b>MS Active Directory User Directory</b>	This option allows authentication of users against Microsoft Active Directory.
<b>MS SQL Server Database</b>	By default G/On 5 uses an internal sqlite based database for storing G/On 5 data. This optional feature enables support for the MS SQL Server. This feature is required for running multiple gateway servers for shared cluster information.
<b>Additional 10 Menu Items</b>	By default, G/On 5 will offer 20 menu items. This feature will enable a package of 10 additional menu items. Multiple packages can be licensed.

<b>Login Notification Mail</b>	G/On 5 offers the optional feature to send an email to users for verification of their login.
<b>Welcome Message</b>	G/On 5 offers the optional feature to issue a message to user after authentication but before the display of menu. Can be used to obtain user acceptance of access terms and conditions.
<b>Multiport Port Forward</b>	G/On 5 offers the optional feature to enable applications that communicate via multiple IP addresses and ports and consequently requires a more advanced port forwarding mechanism. <b>This feature is required for running Outlook via fixed port configuration.</b>
<b>Launch Parameter File</b>	G/On 5 offers the optional feature to dynamically create parameter files (such as .ini files) to be passed on to applications in a G/On menu action. Provides additional application launch capabilities. <b>This feature is required to run Mac RDC, Filezilla and Windows MSTSC (not required for Giritech's GTSC).</b> Is also required for the new G/On RDP Connection Type for MSTSC with G/On server side single sign on.
<b>Wake On LAN</b>	G/On 5 offers the optional feature to issue commands to start PCs in stand-by mode or hibernated. The function of this feature depends on a properly configured infrastructure.
<b>Citrix Web/XML Interface</b>	G/On 5 offers the optional feature of integrated Citrix Web and XML Access with server side single sign on. This feature includes the ability to publish the individual Citrix applications directly in the G/On Menu providing users with a convenient and seamless, single sign on interface. <b>This feature is required to run any Citrix Web Access applications.</b>

## G/On 5 Licensing, Pricing and Ordering

G/On Licensing means the process of configuring and obtaining a valid G/On license and installing it.

There are two types of G/On Licenses:

1. A default Demo/Evaluation License
2. A Customer License

The default “Demo/Evaluation License” is included with the G/On 5 installation package and allows G/On to be installed and running for a limited time and with a limited set of options.

The “Customer License” is a “normal” G/On license generated and issued as part of the ordering process at Giritech.

### **The G/On License File**

A G/On License is represented by a G/On License File that is generated and issued to customers based on licenses acquired for the number of users (UALs), the number of Tokens (TALs) and the features. A G/On License File is a “flat” text file that can be listed and displayed by the customer for verification of the license. The file is digitally signed by Giritech and cannot be altered.

The box below shows, as an example, the License File for the Demo/Evaluation License:

```
License Number: 0
License File Number: 0
License Timestamp: 2010-2-09T16:36:26Z
Licensed To: G/On Evaluation License - Not for production use
# Dates are in ISO 8601 format YYYY-MM-DD
License Expiration Date: 2010-12-31
Client Connect Address: *
Client Connect Port: *
HTTP Encapsulation
HTTP Encapsulation Client Connect Port: *
Number of Gateway Servers: 1
Number of Menu Items: 5
Number of Users: 3
Number of Tokens: 5
Client Platform: Windows
Client Platform: Mac
Client Platform: Linux
Feature: Field Enrollment
Feature: Active Directory User Directory
Feature: Launch Parameter File
Feature: Wake on LAN
Feature: Citrix Web Interface
Giritech Welcome Notification: No license has been purchased for this G/On installation
Giritech Welcome Notification: ***** EVALUATION PURPOSE ONLY *****
Giritech Welcome Message: No license has been purchased for this G/On installation
Giritech Welcome Message: ***** EVALUATION PURPOSE ONLY *****
Management Message: This G/On Installation is using a G/On Evaluation License
Management Message: The license is for EVALUATION PURPOSE ONLY and is restricted
Management Message:
Management Message: See www.giritech.com for information on acquiring a license
```

### How to obtain a G/On License File

One of the security aspects of a G/On Installation is to ensure the authenticity of the G/On Server by enforcing mutual authentication and preventing the unauthorized duplication of a G/On Server installation and moving it to another location. G/On 3.x was locked to hardware information on the physical server. This approach proved impractical running the G/On server in virtualized server environments. As part of the license in G/On 5 we include the IP Addresses (or DNS names) and the IP Ports used by the G/On Client to connect to the G/On Server. This will prevent a copied G/On Server installation from operating on another IP address.

Consequently, as part of the ordering process, **Giritech must have the IP Address/DNS name and the IP Ports used by the G/On clients to connect.** Initially, Giritech will provide the G/On License file entirely via an off line process. It is our current plan for the future to provide a web based tool for customers and partners to retrieve the G/On License file themselves.

**Please Notice:** *If a G/On customer has to change the Public IP Address (or DNS name) and/or Public IP Ports for their G/On Gateway servers, a new license file must be generated by Giritech!*

*Also notice: The G/On 5 **Demo/Evaluation** License allows the user or IT administrator to specify the IP Address and Ports and does not require Giritech involvement.*

Successful installation of a valid G/On License File will result in the display of Customer Name during the login process for all users and G/On administrators. If G/On is installed prior to obtaining a valid customer license, G/On will use the default Demo/Evaluation license. An invalidated G/On License File will result in warning messages to users and G/On administrators.

### License details overview

A G/On License File reflects the license acquired and issued. The file contains the following information:

Name of license detail	Evaluation license value	Description	Included in a 5.4 License
<b>Installation details</b>			
G/On License Number	0	The primary license identifier. A unique number identifying a specific G/On license. Typically associated with one specific Giritech customer.	Yes
License File number	0	Unique number identifying the specific G/On License File. The "License File Number" is incremented every time a new license file is created associated with a specific G/On License.	Yes
License File Timestamp	-	The date of the creation of the G/On License File. Added by Giritech when the file is created.	Yes
License Date Timestamp	-	A date specifying the date the license was created by ERP system, typically identical to "License File Date". Added by Giritech when the license file is created.	Yes
Licensed To	"Evaluation license – not for production use"	Text identifying the licensee (company name and department). The "Licensed To" information is shown in the welcome page of the G/On Server Configuration and to all users in the G/On Client notification. The default value is the customer company name but can be different as requested by customer or chosen by Giritech.	Provided by customer
Maintenance Expiration Date	-	A date identifying the expiry date of the current maintenance agreement associated with this specific G/On license. This date is renewed annually as part of the maintenance renewal process. During the update of G/On the software release date is compared with the "Maintenance Expiration Date". The update process is terminated if the software release date falls after the Maintenance Expiration Date. <i>Note: G/On cannot be purchased without at least 12 months maintenance. A new G/On installation will therefore always have a valid Maintenance Expiry date.</i>	Yes
License Expiration Date	6 months from product release date	The expiration date of the G/On License. Most G/On Licenses are licensed as perpetual licenses but will always have an expiration date. The demo/evaluation license will expire within 6 months of installation. A customer license with expire five years from purchase. Active licenses will automatically be extended. Non-perpetual licenses will expire according to the subscription period.	Yes
Client Connect IP Address	Configurable	A list of one or more IP addresses/DNS names defined for the G/On Client. This information must be provided Giritech as part of ordering process and prior to the issuance of the G/On License File.	Required, minimum 1
Client Connect	Configurable	A list of one or more IP Ports defined for the G/On Client. This information	Required,

IP Port		must be provided Giritech as part of ordering process and prior to the issuance of the G/On License File.	minimum 1
HTTP Encapsulation Client Connect Port	Configurable	The IP Port to be used for the G/On Client to connect for HTTP Encapsulation.	No
Feature	Yes Yes  Yes Yes Yes	Multiple Client Connect IP Addresses (Yes/No) Multiple Client Connect IP Ports (Yes/No) HTTP Encapsulation (Yes/No) LDAP User Directory (Yes/No) Field Enrollment Active Directory User Directory (Yes/No) MS SQL Server Database (Yes/No) Login Notification Mail (Yes/No) Post-login Message (Yes/No) Multiport Port Forward (Yes/No) Launch Parameter File (Yes/No) Wake on LAN (Yes/No) Citrix Web Interface (Yes/No)	No No No No No No No No No No No No
Number of Gateway Servers	1	Maximum number of G/On Gateway Servers known and managed by one G/On Management server. Default is 1.	1
Number of Users	3	Maximum number of users managed by G/On. Measured in number of User ID's configured in G/On. Licensed by User Access Licenses.	Required, minimum 1
Number of Tokens	5	The total number of tokens managed by G/On. Licensed by Token Access Licenses.	Required, minimum 1
Number of Menu Items	10	Maximum number of Menu Items that can be defined. Default is 10 Menu Items in regular licenses.	20

## Pricing & End User License Agreement

**Note:** G/On 5 licensing is governed by the End User License Agreement (EULA) available on [www.giritech.com](http://www.giritech.com).

### **Pricing**

Giritech's partners can register and log on to Giritech's web site where they will find the G/On 5 pricelist in the Partner section of [www.giritech.com](http://www.giritech.com).

### **Upgrade Pricing**

**Existing G/On 5 customers:** All existing G/On 5 customers on active maintenance are eligible for a free upgrade to G/On 5.4. The new feature, Field Enrollment, requires separate licensing. Existing customers should contact their Giritech Partner for details.

**Existing G/On 3.x customers:** Existing G/On 3.x customers on active maintenance are offered software price protection when they upgrade to G/On 5. G/On 3.x customers using the first generation G/On USB H1 64MB keys will not be able to use these keys with G/On 5.

*Existing customers should contact their Giritech Partner for details.*

## Ordering

No special order forms will be provided by Giritech. We accept any purchase order formats or email referencing the part number codes and part type codes as listed in the G/On 5 Price List.

G/On Partners outside Denmark can order G/On products, by sending an email to [int-orders@giritech.com](mailto:int-orders@giritech.com). G/On Partners in Denmark, please use [orders@giritech.com](mailto:orders@giritech.com).

**Please observe:**

1. If you are ordering G/On for a **new customer** please provide full contact details of the customer, including contact name and details. That will help us understand our customers and enable us to service you better in the future.
2. For a new customer **ALWAYS REMEMBER:** *You must provide*
  - *the G/On Client Connect IP Addresses*
  - *the G/On Client Connect IP Ports*
  - *and - if used – the G/On Client HTTP Encapsulation Connect Port.*
3. If you are ordering products for an **existing customer**, please provide enough information about your customer that will enable us to identify the customer. If the customer has multiple G/On licenses, please let us know for which license you are ordering the products by referencing License Number or Licensed-To information. If there are any changes to the Client Connect IP Addresses and Client Connect IP Ports, please remember to include this information in your order request.

The information contained in this document represents the current view of Giritech on the issues discussed as of the date of publication. Because Giritech must respond to changing market conditions, it should not be interpreted to be a commitment on the part of Giritech, and Giritech cannot guarantee the accuracy of any information presented after the date of publication.

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