

# Giritech Product Announcement



Friday June 3, 2011

Giritech A/S announces:

## **G/On 5.5 – Enterprise Security for iPad & iPhone**

Giritech is proud to announce release 5.5 of the award winning secure virtual access solution G/On. A significant new feature of G/On 5.5 is fully integrated support for Apple iOS bringing enterprise security to iPhone and iPad. G/On is one of few products on the market that in a single integrated solution provides secure access to company resources from all popular user devices based on the Windows, Mac, Linux, and iOS operating systems. G/On provides organizations a simple solution for strong two-factor authentication, 256 bit AES encrypted communication, network access control, and user context driven application authorization and provisioning.

G/On 5.5 also introduces new capabilities for enterprise deployment as well as an impressive list of new and improved connectivity options. In addition to G/On's current functionality for Single Sign-On for Remote Desktop Connection (RDP) and Citrix, G/On 5.5 now also provides Single Sign-On and full support for web application platforms like Outlook Web Access (OWA), Microsoft SharePoint, intranets, portals, and other web apps. G/On's current file sharing capabilities has been expanded with full support for secure remote access to network drives and folders making it easy for IT organizations to give users secure access to applications and to securely share information and files through G/On.

Another very important aspect of today's announcement is the introduction of a simpler and much more competitive pricing model. The new structure enables customers to acquire G/On targeted for very specific purposes and at a very attractive price. In addition to our current "complete" G/On solution, customers now also have the option to buy:

1. G/On for RDP – Secure Remote Desktop access to office desktops and Terminal Server farms
2. G/On for Citrix – Secure access to Citrix server farms
3. G/On for Web Apps – Secure access to web applications

All G/On solutions are offered at a new and simple per-user pricing model and the three new targeted solutions are designed to meet the needs of organizations standardizing on Microsoft Terminal Server/Virtual Desktops, Citrix, or Web Apps technologies. For organizations with multiple technologies the three solutions can be "mixed and matched" according to the needs of their user base. Or, organizations can, as today, choose the "complete" G/On solution supporting all connectivity options.

This document describes the new features of G/On 5.5 relative to the previous release 5.4. For a complete and comprehensive description of G/On 5, please consult the product announcement documents for G/On 5.3 and G/On 5.4:

[Download the G/On 5.3 Product Announcement \(Initial general release of G/On 5\)](#)  
[Download the G/On 5.4 Product Announcement](#)

### **Availability**

G/On 5.5 is available for download from [www.giritech.com](http://www.giritech.com). G/On Client for iOS is available from Apple App Store.

### **G/On 5.5 Key Highlights**

- Support for iPad and iPhone via a new G/On Client for iOS, App Store Edition
  - Free download from the Apple App Store
  - Provides secured access to web apps with Single Sign-On
  - Support for other iOS apps like RDP (Remote Desktop) clients
- Support for the latest releases of client and server OS and service packs
- Setup and management of multiple gateway servers
- Improved support for multiple user directory services
- New features in G/On Management
  - Management of active user sessions and update of users' current menus
  - License usage overview
  - New reports and new reporting capabilities with drill downs
  - Automatic update of Client Connect info
  - Forced/Optional client package update
  - Improved menu design
  - Improved usability
- Improved server side security and role based G/On Management Client
  - Encryption of server side communication between G/On Management Client and Management Server
  - Obfuscation of sensitive ini file data
  - Improved countermeasures against DOS attacks
  - Functionality for defining manager roles with individual privileges
- New options for managing and controlling G/On access ("Zones") based on
  - IP range
  - Time of day, day of week
  - OS type and version
  - Windows Security center status
- New application launch types and menu action templates
  - HTTP proxy protocol connection with **server side Single Sign-On** (dependent on configuration)
    - For instance, access to intranets and web-apps with Single Sign-On
  - Transparent HTTP proxy protocol connection with **server side Single Sign-On** (dependent on configuration)
    - For instance, access to network folders on WebDAV servers with Single Sign-On
  - SOCKS proxy protocol connection
  - Full support for access to Terminal Server farms with **server side Single Sign-On** and support for redirection messages from TS Connection Broker (was experimental in previous versions)
  - Full support for IE based G/On browser, GIPIE (was experimental in previous versions)
  - New menu action templates for intranet, web-app, WebDAV access
- Limited support for IPv6
- Support for application server fail-over/load sharing on server side
  - A single menu action can, for instance, connect to multiple Citrix servers in a farm for fail-over and load sharing
- Many additional enhancements, performance improvements and new features throughout the product

### **Other announcements**

- Changes to licensing and price structure

- Withdrawal of G/On Help
- Withdrawal of G/On USB H3 1GB Token
- Introduction of G/On USB H4 1GB Token

### ***New and changed licensing terms***

**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 5.5. **Please notice:** G/On 5.5 introduces the following changes to the product and licensing structure and customers must request a new G/On license file before upgrading to G/On 5.5:

1. A new product “**G/On Server**” is introduced and required for all customers and will automatically be included for all existing customers. G/On Server includes these Server Features:
  - a. “Multiple Client Connect Ports”
  - b. “HTTP Encapsulation”
  - c. “Active Directory User Directory”
  - d. “Field Enrollment”
2. Every UAL – User Access License now includes one (1) Token Access License for users’ first device. Users with more than one device need additional Token Access Licenses.
3. Server Feature “Multiport Port Forward” is terminated as a feature. Functionality is included
4. Server Feature “Launch Parameter File” is terminated as a feature. Functionality is included
5. “**Zones**” is a new Server Feature requiring separate licensing. “Zones” will be included for all existing G/On 5.5 customers and customers upgrading from G/On 3.x.
6. “**Application Server Fail Over & Load Sharing**” is a new Server Feature requiring separate licensing.
7. In G/On 5.5, we are introducing “launch types” as server features. These are
  - a. “**Transparent TCP Connector**” – new. Included.
  - b. “**RDP Connector**” – new. Included in “G/On for RDP”
  - c. “**Proxy Connector for HTTP & SOCKS**” – new. Included in “G/On for Web Apps”
  - d. “**Citrix Connector**” - renamed from “Citrix Web Interface”. Included in “G/On for Citrix”
8. “**iOS**” is a new Client Platform included for all customers
9. Client Feature “G/On Secure Desktop” is renamed to “**G/On OS**”
10. Features “**G/On Help Manager**”, “**G/On Help Standard**”, and “**G/On Help Advanced**” are terminated and will no longer be made available for new sales. Existing customers using G/On Help can continue using it but maintenance will be terminated as of next maintenance expiration date and no new features and updates will be delivered to customers.

*The functionality of terminated features that remain in the product will no longer require separate licensing and will be excluded from annual maintenance charges.*

**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 or Giritech directly for details.

### **G/On 3.x – End of Life is now effective**

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

Last year Giritech announced G/On 3.6 End of Life as of December 31, 2010. The End of Life means:

- Customers on active maintenance agreement will continue to receive support in the application and use of G/On 3.6.
- Customers can continue to purchase new user licenses and features in G/On 3.
- As of January 1, 2011, fixes are no longer issued to G/On 3.6 and customers must upgrade to G/On 5 to solve any product issues in G/On 3.6.
- Customers on active maintenance are offered software price protection when they upgrade to G/On 5.

## What's new in G/On 5.5 - details

### ***Secure Access to Business Apps from iPad and iPhone***

As part of today's announcement, Giritech releases **G/On Client for iOS, App Store Edition** that features a secured browser using the iOS Webkit browser engine. The new G/On Client gives an iPad or iPhone user secure access to corporate web applications like email and calendar without having to install and configure a full VPN on the iPad/iPhone, and without leaving any business data behind on the device. Businesses can leverage existing web development capabilities without the need to redevelop their applications in iOS specific tools like Objective C and Cocoa.

The G/On Client for iOS, App Store Edition also includes support for securing the communication between other iOS apps and corporate application servers. An important example is RDP clients for iPhone and iPad for access to your office PC, your virtual desktop, or Terminal Servers (TS). Most RDP clients for iOS are compliant with the official RDP protocol definition and can be used with G/On's RDP Connector providing full support for TS farms and server side Single Sign-On including office PC and virtual desktops. Users get a superior experience of fast and convenient Single Sign-On while avoiding the security risk of users entering and storing highly sensitive password data on the device. The combination of G/On and RDP access to Terminal Servers or your office PC give users the option of full access to company applications without leaving any company data on the iPad and iPhone. [Read here for details on supported iOS RDP clients.](#)

G/On's support for iPad and iPhone in addition to PC's and Mac offers significant simplifications for businesses to give secure access to business applications from the rapidly growing number of new devices, which employees are bringing to their IT department. In one single solution, G/On's management tools easily define and enforce the access policies appropriate to the user context and allows business access from personal and even user owned devices.

#### **G/On is a welcome change!**

Rather than managing the entire device, G/On manages the individual connections between the iOS app and the corporate servers and, in the case of web apps, G/On manages the individual G/On browser instances without leaving corporate data on the device and without impacting other applications and data on the iOS device. In the case of Remote Desktop access, users are working remotely on PC's and servers inside the corporate network and, hence, corporate data is not left on the iPad or iPhone.

#### Key features:

The G/On Client for iOS, App Store Edition, supports access to intranets and web applications through the G/On Server with the following features:

- Two-factor authentication using public/private key cryptography and challenge/response protocol with private key linked to device identification number (the iPad/iPhone is the hardware token)
- Encrypted communication between the G/On Client and the G/On Server using 256 bit AES encryption
- Integrates a G/On secured browser based on the iOS Webkit browser engine for secure access to corporate intranets and web apps:
  - Access to multiple web applications - each in a single, isolated browser instance for each application

- Different from and isolated from other browsers (Safari) on the iPad or iPhone (no cross-over info between the G/On secured browser and Safari)
- For each G/On browser instance, the G/On Server controls which web sites/apps can be accessed
- Server side Single Sign-On to the web apps (currently, only http basic authentication is supported).
- Supports transparent TCP port forwarding for TCP connectivity for installed iOS apps for secured connectivity with servers
- Supports secure access via G/On's RDP Connector with full support for server side Single Sign-On to TS farms, office PCs, and virtual desktops ([see here for details on supported iOS RDP clients](#))
- Auto-re-login of the G/On Client to avoid the need for manual re-login when sessions are suspended by iOS (within a timeframe defined in the G/On server)

The new G/On Client for iOS, App Store Edition, is downloaded as a free app from Apple's App Store and will by default have access to Giritech's demo system. The G/On Client for iOS is configured for access to customer's G/On Server via iTunes by copying a server generated configuration file onto the iPad. On the iPhone, the information is transferred to the device by scanning an image generated by the G/On Server.

#### iPad and iPhone licensing information and requirements:

G/On is using the iPad or iPhone as an authentication token for the user and the device must be enrolled on the G/On Server. Using an iPad or iPhone **requires:**

- An available **Token Access License (TAL)** for each iPad and iPhone.
- **G/On for Web Apps** for each user who needs access to corporate web apps like OWA, portals, intranets, and other web based applications.
- **G/On for RDP** is required for RDP access with server side Single Sign-On and support for TS farms.

Also note that the current version of the iPad/iPhone client app (1.3.6) available from Apple App Store does not support connection to the server by means of http encapsulation

## ***Other new features in G/On 5.5:***

### ***G/On 5.5 support for the latest releases of client and server OS and service packs***

Please see details in the following section: G/On 5.5 Hardware and Software Requirements

### ***Setup and management of multiple gateway servers***

A G/On Server consists of one G/On Management server and multiple G/On Gateway servers. Multiple gateway servers scale a G/On Server to handle any number of users and provides for fail-over and load balancing. Rather than the manual configuration required in previous versions, G/On 5.5 is now including tools for installation, configuration, upgrade and management of gateway servers. Management features include:

- Server monitoring and exception reporting
- Stop/Restart scheduling based on user activity

The new features offer seamless and dynamic expansion of the G/On throughput by adding more server capacity as needed and without the need for any load balancing devices and other layers of infrastructure in front of the G/On Servers.

### ***Other new features for setup and configuration***

- Support for application server fail-over/load-sharing on server side
  - A single menu action can, for instance, connect to multiple servers in a Citrix farm to avoid single point of failure for access to application servers (new Server Feature, "**Application Server Fail Over & Load Sharing**" requiring separate licensing)

- Tools for configuration of interface to multiple AD and LDAP user directories
- Automatic detection of SQL Server language encoding
- File chooser for deployment of license file
- Options for forced or optional client package updates at connect time for enhanced user experience
- Functionality for automatic updates to Client Connect Address and Client Connect Port out to the clients for seamless support for added server capacity, fail over and load balancing

### ***New features and improvements in G/On Management***

In addition to the management of multiple gateway servers described above, a significant amount of work has been put into new features and improvements of the G/On Management server and the G/On Management client:

- Management of active user sessions including monitoring, disconnect and update of user's current menu
- New reports and new reporting capabilities with drill downs to details
- License content and compliance view
- Review and management of users registered for G/On access
- Improved user menu design
- Improved G/On Management Client performance
- Improved usability

### ***Server side security***

To fully meet the needs of organizations with separation of administrative functions and security policies in highly security focused organizations, the G/On Server has been enhanced with the following functionality:

- The functions of the G/On Management Server are managed by a **configurable role-based access** control system that enables organizations to design roles for different administrative tasks. For instance, one admin role for managing access policies and another role for managing USB tokens for users.
- Communication between the G/On Management Client and the G/On Management Server is encrypted
- Sensitive data in configuration files (.ini files) is obfuscated
- Additional counter measures against DOS attacks have been implemented on the G/On Gateway server.

### ***New options for managing and controlling user access through G/On***

G/On 5.5 adds new capabilities for managing user authentication and application authorization. This includes the ability to deny access to applications that have otherwise been authorized, if there are indications that the type, status, and external IP address of the user device does not conform with specified requirements.

- New property on user adds date and time range for valid user authentication. Typically used for setting up temporary access for, say, external contractors.
- Introducing "**Zones**" – defines circumstances – or context - for authorization of application access based on
  - IP range on the G/On Client and IP range on the G/On Server \*)
  - Time of day/day of week
  - Operating System type and version
  - Status of the Windows Security Center

\*) Please notice: Zone restriction on client IP addresses is not supported in this release for HTTP encapsulated client connections.

### ***Limited support for IPV6***

G/On 5.5 supports IPv6 for Client Connect IP Addresses which will enable the use of G/On for those organizations that are already now forced to use IPv6 for their public IP address(es). **Please notice:** G/On 5.5 does not support IPv6 for HTTP Encapsulated client connections. On the server side, IPv6 is only supported for connections between (separately installed) Gateway servers and the Management server.

### **Support for new application connectivity launch types and menu action templates**

- A new HTTP Proxy Protocol connection launch type with **server side Single Sign-On** for http basic authentication, application (web) server white listing, and server side DNS name resolution (requires “G/On for Web Apps”)
  - For instance for access to corporate intranets, Microsoft SharePoint Server and web apps
- A new Transparent HTTP Proxy Protocol connection with **server side Single Sign-On** for http basic authentication and application server white listing (requires “G/On for Web Apps”)
  - For instance for access to corporate network folders on WebDAV servers
- A new SOCKS Proxy Protocol connection launch type (requires “G/On for Web Apps”)
- New Menu Action Templates for
  - Access to intranets and web apps with Single Sign-On using IE based browser (GIPIE, see below)
  - Access to intranets and web apps with Single Sign-On using Firefox
  - Access to WebDAV servers with Single Sign-On
  - Access to servers via SSH (Secure Shell)
- Full support for access to Terminal Server farms with **server side Single Sign-On** (was experimental in previous version – requires “G/On for RDP”). Includes support for:
  - TS Remote Apps
  - TS Connection Broker and redirection messages
- Full support for IE-based G/On browser, GIPIE (was experimental in previous version). Supports:
  - Server side Single Sign-On for http basic authentication
  - Access to intranets, Microsoft SharePoint, and other web apps
- New experimental RDP client (FreeRDP) for Windows and Linux
- General improvements and enhancements of templates and menu creation wizards

### **G/On Authentication Tokens**

Giritech is currently able to deliver the following smart card based Authentication and Memory Tokens for G/On 5:

- **G/On MicroSmart:** a microSD smart card for use in MSD card readers for Windows, Mac, Linux
- **G/On USB MicroSmart:** a USB token with microSD smart card for Windows, Mac, Linux

These 1GB microSD based tokens include integrated smart card technology for hardware generated private/public keys and for hardware calculation of the challenge/response protocol used for authentication. The 1GB memory is used for storage of the G/On Client software.

In addition, G/On 5 also offers

- **G/On Computer User Token:** a software based token linked to the user account of a Windows based PC that serves as a G/On hardware factor for authentication of users.
- **G/On Mobile Token:** a software based token linked to the unique hardware identification of an iPad or iPhone.
- **G/On SoftToken:** a software based token that can be installed on regular USB memory devices.

A new G/On USB H4 token for G/On 3.x – Giritech’s previous generation of G/On.

The G/On USB H4 1GB was introduced earlier this year as a replacement for G/On USB H3 1GB which is no longer produced. H4 has the same functionality as H3 but based on a new generation of the technology from the manufacturer, Hagiwara.

Although G/On USB H4 is currently supported by G/On 5, Giritech strongly recommends the G/On MicroSmart tokens for all G/On 5 customers since it has a stronger hardware generated private/public key pair for user authentication.

## Available G/On 5 Authentication Token Overview

<b>G/On 5 Hardware Authentication Tokens</b>	<b>MicroSmart (microSD card) and USB MicroSmart</b>	<b>USB H4 Recommended for G/On 3.x only</b>	<b>Mobile Token</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 Only	iOS	Windows	Windows/Mac/Linux
<b>Software Execution from Token</b>	Yes	Yes	Software installed on device	Software installed on computer	Yes
<b>Zero Footprint</b>	Yes	Yes	n/a	n/a	Yes
<b>Driverless Operation – uses existing mass storage driver</b>	Yes	Yes	n/a	n/a	Yes
<b>Works for NON-admin users</b>	Yes	Yes (No for CD update)	n/a	Yes	Yes
<b>Authentication Method</b>	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 protected storage	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	Yes	n/a	n/a	No
<b>Flash Memory</b>	1GB	1GB less size of CD ROM	n/a	n/a	n/a (SoftToken must reside on removable drive)

## G/On 5.5 Hardware & Software Requirements (June 2011)

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

- Hardware requirements: Minimum available hard disk space: 2GB  
Minimum 2GHz Processor  
Minimum 2GB memory
- Software requirements: Latest release (SP) of Microsoft Windows Server 2003 R2 or  
Latest releases (SP) of 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.*
- DBMS: SQLite (built-in) or  
MS SQL Server 2005 or  
MS SQL Server 2008 or  
MS SQL Server 2008 R2  
*Both Express and full versions are supported*

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

- Minimum Storage: 128MB. For instance, for a configuration for Windows, Remote Desktop Access (RDP) and Citrix.  
  
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 OS:** Recommended Minimum Storage is 1GB to run Windows, Mac, Linux and G/On OS along with RDP, Citrix and FileZilla.
- Software requirements: Latest version (SP) of one of the following:  
Microsoft Windows XP  
Microsoft Windows Vista (32/64 bit)  
Microsoft Windows 7 (32/64 bit)  
Apple Mac OS X 10.5 (Leopard)  
Apple Mac OS X 10.6 (Snow Leopard)  
Linux Fedora 14 (32 bit)  
**G/On Client for iOS, App Store Edition** requires iOS version 4.3

### G/On OS requires the following:

- Hardware Requirement: G/On USB MicroSmart 1GB  
G/On OS turns the G/On MicroSmart USB key into a bootable device
- Platform Requirement: Works **only** on Intel based computers that can be booted from a USB device. **Please notice:** Mac PC's may require installation of special software that enables booting of Linux live media, e.g. *rEFIT boot menu and maintenance toolkit* found on (<http://refit.sourceforge.net>)

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

- Hardware requirements: Micro SD port/adaptor/USB port version 1.1 and higher  
Minimum one virtual drive mapping available (e.g. drive E:\)

### G/On USB H2/H3/H4 tokens require 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: Windows

**G/On SoftTokens require the following:**

- Hardware requirements: Removable Device (any USB device, or virtual removable device)  
Minimum one virtual drive mapping available (e.g. drive E:\)

**G/On Computer User Tokens require the following:**

- Hardware requirements: Minimum 128MB of storage
- Software requirements: Windows

**G/On Mobile Tokens require the following:**

- Hardware requirements: Minimum 128MB of storage on iPad or iPhone
- Software requirements: Apple iOS

**Tested Application Clients:**

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

**Latest version of Citrix®**

Server Feature **Citrix Connector** supports the following Citrix features:

- Single Sign-On
- Citrix Server Farms
- Citrix Web Access
- Citrix XML Interface

*Using iPad/iPhone:*

*Citrix access is not supported on iOS in G/On version 5.5.*

**Latest version of Microsoft® Windows® Terminal Server 2003 and 2008**

Server Feature **RDP Connector** supports the following TS 2008 features:

- Single Sign-On
- TS Server Farms
- TS 2008 Remote apps
- TS 2008 Connection Broker and redirection messages

G/On RDP Connector replaces the need for TS 2008 Gateway.

*Using iPad/iPhone:*

Support for RDP Connector from iOS requires RDP clients for iOS fully compliant with Microsoft's official specification of the RDP protocol. G/On's RDP Connector incorporates protocol inspection and currently the following RDP Clients for iOS have been successfully tested:

- Wyse PocketCloud (Free & Pro) by Wyse Technology
- iRdesktop by Thinstuff s.r.o.
- iRemoteDesktop Free by Hana Mobile LLC
- iTAP RDP, HLW Software Development GmbH

Other RDP clients for iOS are likely to work using G/On's Transparent TCP Connector but will work only for access to office PC ("My Office PC") and a single Terminal Server and without server side Single Sign-On.

**Browser:**

G/On 5.5 introduces a new Proxy Connector for HTTP & SOCKS providing full support for secure remote browser access to web apps. The G/On Proxy Connector for HTTP and SOCKS includes the following functionality:

- Server side Single Sign-On to web applications using http basic authentication (when using HTTP proxy)
- Server side DNS name resolution
- Target server white listing
- Support for Microsoft Internet Explorer (IE) through IE based G/On browser (GIPIE) for access to OWA, Microsoft SharePoint and other web apps, intranets and portals.
- Support for G/On supplied "portable" Firefox browser
- Other browsers that can be launched with instructions to use SOCKS and/or HTTP proxy

Using iPad/iPhone:

G/On's Client for iOS, App Store Edition includes a secured browser with full support for G/On's Proxy Connector for HTTP & SOCKS. That means,

- Server side Single Sign-On to web applications using http basic authentication
- Server side DNS name resolution
- Target server white listing
- iOS Webkit based browser for access to OWA, intranets, portals, and other web apps.

**Other applications:**

G/On's Transparent TCP Connector provides a general port forwarding mechanism to establish authenticated, encrypted, and authorized TCP connectivity between application clients and their corresponding servers. For instance, it is possible to use the native iOS mail client on iPad and iPhone by enabling port forwards for IMAP communication between the mail client and the Microsoft Exchange Server. This option may be relevant in cases where it is considered acceptable that the native mail client for iPad/iPhone leaves copies of mails on the device for future offline use.

## **G/On 5.5 Documentation & Collateral**

Technical documents such as the G/On Manuals and various White Papers, as well as sales and marketing collateral are available on [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.

You are also welcome to visit Giritech on [facebook.com/G.On.Connect](https://www.facebook.com/G.On.Connect) where questions will be answered as well.

## **G/On 5 License Model**

The license model for G/On 5 is based on a license for a G/On Server with a basic set of features and a user license (UAL – User Access License) for each user who needs access. Optional features are available such as additional Token Access Licenses (TAL), additional Server Features, and additional Client Features for more functionality and capability.

## 1. G/On Server License

Includes the basic functionality required for each G/On installation.

## 2. 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). There are four types of UALs:

- **UAL RDP:** A license for 1 user for RDP access
- **UAL CITRIX:** A license for 1 user for Citrix access
- **UAL WEB:** A license for 1 user for Web Apps access
- **UAL:** A license for 1 user for RDP, Citrix, and Web Apps access

Each User Access License includes one (1) Token Access License

## 3. Token Access License

Users with more than one authentication device in form of a USB Token, PC/Laptop (Computer User Token), iPad, iPhone, or a G/On SoftToken must be licensed for these additional devices by adding the required number of Token Access Licenses (TALs).

## 4. Server Feature

The G/On Server comes with a standard set of features and a set of optional features that can be licensed individually (see list of features below).

## 5. 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 users (see list of features below).

### **Standard Feature Set of G/On 5.5**

The standard feature set of G/On 5.5 provides the following functionality:

- G/On Client for Windows, Mac, Linux, and iOS client operating systems
- Two-factor Authentication via local user directory on G/On server and/or Microsoft Active Directory
- 256 bit AES encrypted and FIPS 140-2 compliant (on Windows) remote communication
- G/On Client connection on one IP address/DNS name, multiple IP Ports and support for HTTP encapsulation.
- Field installation of G/On Client and Field Enrollment of user devices
- Up to 20 menu actions for launch of application server connectivity
- Dynamic user menus with “auto launch” capabilities
- User requested/forced update of G/On Client software and client software packages
- Includes support for the following authentication tokens:
  - G/On MicroSmart 1GB
  - G/On USB MicroSmart 1GB
  - G/On USB H2-H4 1GB (Windows only)
  - G/On Computer User Token (Windows only)
  - G/On SoftToken
  - G/On Mobile Token (iPad/iPhone)
- Logging and reporting

### **Optional Client Features**

<b>G/On OS</b>  (Previously "G/On Secure Desktop")	This feature enables the bootable secure Linux operating system from a G/On USB MicroSmart Token. The feature is licensed for the total quantity of G/On Tokens that it must be enabled for. <i>Notice: G/On OS may require installation of separate boot loader software on Mac computers.</i>
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## Optional Server Features

<b>Additional Gateway Servers</b>	<p>A G/On license comes by 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.</p>
<b>Multiple Client Connect IP Addresses</b>	<p>By default, G/On offers a single IP Address for the G/On Client to connect to. This feature provides <b>fail-over and load balancing</b> by enabling configuration of multiple IP Addresses that the G/On Client can use to establish connection to alternative G/On Gateway Servers within a gateway server cluster.</p>
<b>Multiple Client Connect IP Ports</b> (Included with "G/On Server")	<p>This feature enables configuration of multiple IP Ports that the G/On Client can use when trying to establish a connection to the G/On Gateway server.</p>
<b>HTTP Encapsulation</b> (Included with "G/On Server")	<p>This option enables configuration of HTTP encapsulation that the G/On Client can use when trying to establish a connection to the G/On Gateway server via HTTP proxies. <i>Notice: G/On 5.5 does not support HTTP Encapsulation in iOS and not for IPv6.</i></p>
<b>Field Enrollment</b> (Included with "G/On Server")	<p>This option includes a G/On Client Installation package for Windows for easy distribution of the G/On Client. The Apple App Store is the distribution vehicle for the G/On Client for iOS. Field Enrollment 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 and iOS in G/On 5.5</b></p>
<b>LDAP User Directory</b>	<p>This option enables authentication of users against LDAP compliant user directories.</p>
<b>MS Active Directory User Directory</b> (Included with G/On Server")	<p>This option enables authentication of users against Microsoft Active Directory.</p>
<b>MS SQL Server Database</b>	<p>By default G/On uses an internal sqlite based database for storing G/On management data. This option enables support for the MS SQL Server. This feature is required for running multiple gateway servers for shared cluster information.</p>
<b>Additional 10 Menu Items</b>	<p>By default, G/On will offer 20 menu items. This feature will enable a package of 10 additional menu items. Multiple packages can be licensed.</p>
<b>Login Notification Mail</b>	<p>This option enables G/On to send an email to users for verification of their login.</p>
<b>Welcome Message</b>	<p>This option enables G/On 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. (Currently not supported on iOS).</p>
<b>Zones</b> <i>New in G/On 5.5!</i>	<p>Zones offer the optional feature of setting terms and conditions (circumstances) for authorization of Menu Actions (access to applications). Conditions can be set for IP ranges, time of day/day of week, type and version of the client operating system, and status of the Windows Security Center. <b>Please notice: Zone restriction on client IP addresses is not supported in this release for HTTP encapsulated client connections.</b></p>
<b>Application Server Fail Over &amp; Load Sharing</b> <i>New in G/On 5.5!</i>	<p>This option enables the configuration of alternative application servers for the G/On Server to access to avoid single point of failure and to provide application server load sharing. A single G/On menu action can, for instance, connect to multiple servers within a Citrix farms. <b>Please notice: This feature is only supported for RDP Connector and Citrix Connector.</b></p>

<b>Wake On LAN</b>	This option enables the configuration of G/On to issue commands to start PCs in stand-by mode or hibernated. The function of this feature depends on a properly configured infrastructure.
<b>Transparent TCP Connector</b> <i>New in G/On 5.5!</i> (Included with UAL, UAL RDP, UAL CITRIX, and UAL WEB)	Enables configuration of port forwarded TCP connections. Supported on all client platforms.
<b>RDP Connector</b> <i>New in G/On 5.5!</i> (Included with UAL RDP and UAL)	Enables configuration of port forwarded Remote Desktop Protocol (RDP) connections with <b>server side Single Sign-On</b> . Supports redirection messages from RDP connection broker (Terminal Services Session Broker), TS Remote Apps, TS Web Access, and TS Gateway. <b>An RDP client for iOS, which is compliant with Microsoft's RDP specification, is required for iPad and iPhone (<a href="#">See details here</a>).</b>
<b>Citrix Connector</b> (Included with UAL CITRIX and UAL)  (Previously "Citrix Web/XML Interface")	Enables configuration of port forwarded Citrix connections with <b>server side Single Sign-On</b> . This feature automatically enables Citrix applications published through the Citrix XML service and makes them available as individual G/On menu items without the need for any installations on the client PC. Includes support for Citrix Web Access. <b>Available on all client platforms except iOS.</b>
<b>Proxy Connector for HTTP &amp; SOCKS</b> <i>New in G/On 5.5!</i> (Included with UAL WEB and UAL)	Enables configuration of port forwarded transparent http, http proxy, and socks proxy connections with <b>server side Single Sign-On</b> for basic http authentication. Includes white list functionality for connectivity limitation.

## G/On Menu Action Templates

G/On includes a number of Menu Action Templates that helps the G/On Administrator build the G/On Menu Actions needed to enable applications for users. The G/On Administrator can build new templates and/or customize existing templates to enable G/On to launch applications with specific parameters or conditions. Some of the menu actions depend on certain features and configurations of G/On and the table below gives an overview of the available templates, what kind of applications they are used for and required feature. If no required feature is indicated, the template is active for any UAL – User Access License.

<b>Client Cross Platform</b>			
Application Type	Application	Menu Action Template	Required Feature
Mail	<b>Generic mail:</b> Port forwards for common mail protocols.	generic_mail.xml	
Wake-on-LAN	<b>Generic Wake-on-LAN:</b> Wake up a PC with a given MAC address.	generic_wake_on_lan.xml	Wake on LAN
Wake-on-LAN	<b>Generic Wake-on-LAN My PC:</b> Wake up "My PC".	generic_wake_on_lan_my_pc.xml	Wake on LAN
<b>Client iOS Platform</b>			
Application Type	Application	Menu Action Template	Required Feature
Remote Desktop	G/On secured connection for Terminal Services Clients for iOS using G/On's RDP Connector. Access to "My Office PC" and Terminal Server farms with server side Single Sign-On. Using G/On RDP Connector. <a href="#">See here for supported iOS RDP clients.</a>	ios_rdp_con.xml	UAL RDP

Web App	Built-in Browser for web apps and intranets w/SSO: Use web app or browse an intranet site with the G/On built-in browser for iOS. Using G/On PROXY Connector.	built_in_browser_http_proxy.xml	UAL WEB
<b>Client G/On OS Platform</b>			
Application Type	Application	Menu Action Template	Required Feature
Web App	<b>Browser w/SSO:</b> Show web app or intranet in browser in G/On OS with server side Single Sign-On. Using G/On PROXY Connector.	g-on-os_browse_http_proxy.xml	UAL WEB
Other	<b>See also Client Linux Platform</b>		
<b>Client Windows Platform</b>			
Application Type	Application	Menu Action Template	Required Feature
Citrix	<b>Single App:</b> Launch an application through a Citrix Web Interface with Single Sign-On, without showing Citrix web menu to user. Using G/On Citrix Connector.	win_citrix.xml	UAL CITRIX
Citrix	<b>WfcRun Service:</b> Auto launch of the Citrix WfcRun Service.	win_citrix_autolaunch_wfcrun.xml	
Citrix	<b>Web Interface:</b> Launch the Citrix Web Interface with Single Sign-On. Using G/On Citrix Connector.	win_citrix_web.xml	UAL CITRIX
Citrix	<b>XML Service:</b> Launch any application on a Citrix XenApp server/farm with Single Sign-On. <b>Notice:</b> Creates one or more G/On menu items without Citrix web menu. Using G/On Citrix Connector.	win_citrix_xml_service.xml	UAL CITRIX
Citrix	<b>XML Service Auto Settings:</b> Launch any application on a Citrix XenApp server/farm with Single Sign-On and settings from Citrix server. <b>Notice:</b> Creates one or more G/On menu items without Citrix web menu. Using G/On Citrix Connector.	win_citrix_xml_service_auto_settings.xml	UAL CITRIX
File Share	<b>FZ:</b> FileZilla FTP Client through stand-alone SOCKS server.	win_fz.xml	
File Share	<b>WebDAV Drive on port w/SSO:</b> Mount WebDAV drive on optional port with Single Sign-On. Using G/On PROXY Connector. Is not supported on XP clients.	win_webdav_drive_port_http_con.xml	UAL WEB
File Share	<b>WebDAV Drive on port 80 w/SSO:</b> Mount WebDAV drive on port 80 with Single Sign-On. Using G/On PROXY Connector. Is supported on XP clients.	win_webdav_drive_http_con.xml	UAL WEB
File Share	<b>WebDAV Folder w/SSO:</b> Explore WebDAV folder with Single Sign-On. Using G/On PROXY Connector. Is not supported on XP clients.	win_webdav_folder_http_con.xml	UAL WEB
G/On Help	<b>G/On Help:</b> G/On Help for End Users. (Available under "Discontinued")	win_gon_client_help.xml	
G/On Help	<b>G/On Help Manager:</b> G/On Help for Supporters. (Available under "Discontinued")	win_gon_client_help_manager.xml	
G/On Management	<b>G/On Management:</b> G/On Management Client	win_gon_management.xml	
Mail	<b>OWA with Gipie:</b> Outlook Web Access using G/On Gipie browser with server side Single Sign-On. Is not supported by IE 6 and IE 7 on client PC. Using G/On PROXY Connector.	win_owa_gipie_http_proxy.xml	UAL WEB
Mail	<b>OWA with Firefox:</b> Outlook Web Access using Firefox with server side Single Sign-On. Using G/On PROXY Connector.	win_owa_firefox_http_proxy.xml	UAL WEB
Mail	<b>Outlook:</b> Outlook connecting through HTTP	win_outlook.xml	

Mail	<b>OWA:</b> Outlook Web Access through Internet Explorer	win_owa.xml	
Mail	<b>OWA with IE8:</b> Outlook Web Access through Internet Explorer 8 or later. Does not support IE 6 and 7.	win_owa_ie8.xml	
Remote Desktop	<b>GTSC:</b> Giritech Terminal Services Client with client side Single Sign-On to single TS Server.	win_gtsc.xml	
Remote Desktop	<b>GTSC:</b> Giritech Terminal Services Client with Single Sign-On to office PC (Legacy access to "My Office PC").	win_gtsc_my_pc.xml	
Remote Desktop	<b>MSTSC:</b> Microsoft Terminal Services Client without Single Sign-On using G/On TCP Transparent Connector (simple port forward).	win_mstsc.xml	
Remote Desktop	<b>MSTSC:</b> Microsoft Terminal Services Client with server side Single Sign-On using G/On RDP Connector. Access to TS server farms and "My Office PC".	win_mstsc_rdp_con.xml	UAL RDP
Remote Desktop (Mac)	<b>TigerVNC:</b> Screen sharing connection to Mac using the VNC protocol.	win_tigervnc.xml	
Remote Desktop (Mac)	<b>TigerVNC My PC:</b> Screen sharing connection to "My Mac" using the VNC protocol.	win_tigervnc_my_pc.xml	
SSH	<b>PuTTY:</b> SSH, telnet, rlogin, raw using the PuTTY client.	win_putty.xml	
Web App	<b>Browser:</b> Browse a site with the default browser	win_browser.xml	
Web App	<b>Firefox for Intranet:</b> Browse web app or intranet site in Firefox through stand-alone SOCKS server (legacy)	win_firefox_for_intranet.xml	
Web App	<b>Firefox for Intranet with Single Sign-On:</b> Browse web app or intranet site in Firefox. Using G/On PROXY Connector.	win_firefox_http_proxy.xml	UAL WEB
Web App	<b>Gipie:</b> Browse web app or intranet site with Gipie (IE based G/On browser) with Single Sign-On. Using G/On PROXY Connector. Not supported by IE 6 and IE 7 on client PC.	win_gipie_http_proxy.xml	UAL WEB
Web App	<b>IE:</b> Browse a site with Internet Explorer	win_ie.xml	
Web App	<b>IE 8:</b> Browse a site with Internet Explorer 8 or later versions. Does not support IE 6 and IE 7.	win_ie_8.xml	
<b>Client Mac Platform</b>			
Application Type	Application	Menu Action Template	Required Feature
Citrix	<b>Single App:</b> Launch an application through a Citrix Web Interface with Single Sign-On, without showing Citrix web menu to user. Using G/On Citrix Connector.	mac_citrix.xml	UAL CITRIX
Citrix	<b>Web Interface:</b> Launch the Citrix Web Interface with Single Sign-On. Using G/On Citrix Connector.	mac_citrix_web.xml	UAL CITRIX
Citrix	<b>XML Service:</b> Launch any application on a Citrix XenApp server/farm with Single Sign-On. <b>Notice:</b> Creates one or more G/On menu items without Citrix web menu. Using G/On Citrix Connector.	mac_citrix_xml_service.xml	UAL CITRIX
Citrix	<b>XML Service Auto Settings:</b> Launch any application on a Citrix XenApp server/farm with Single Sign-On and settings from Citrix server. <b>Notice:</b> Creates one or more G/On menu items without Citrix web menu. Using G/On Citrix Connector.	mac_citrix_xml_service_auto_settings.xml	UAL CITRIX
File Share	<b>FZ:</b> FileZilla FTP Client through stand-alone SOCKS server.	mac_fz.xml	

File Share	<b>WebDAV Disk w/SSO:</b> Mount WebDAV disk. Using G/On PROXY Connector.	mac_webdav_disk_http_con.xml	UAL WEB
Mail	<b>OWA:</b> Outlook Web Access through default browser	mac_owa.xml	
Remote Desktop	<b>RDC:</b> Remote Desktop Connection to Windows PC with client side Single Sign-On.	mac_rdc.xml	
Remote Desktop	<b>RDC My PC:</b> Remote Desktop Connection to Windows "My PC" with client side Single Sign-On.	mac_rdc_my_pc.xml	
Remote Desktop	<b>RDC with Server Side SSO:</b> Remote Desktop Connection to PC with <u>server side Single Sign-On</u> . Using G/On RDP Connector.	mac_rdc_rdp_con.xml	UAL RDP
Remote Desktop	<b>Screen Sharing:</b> Mac Screen Sharing using the VNC client in Mac 10.5 and later.	mac_screen_sharing.xml	
Remote Desktop	<b>Screen Sharing My PC:</b> Mac Screen Sharing to "My PC" using the VNC client in Mac 10.5 and later.	mac_screen_sharing_my_pc.xml	
Web App	<b>Browser:</b> Browse a site with default browser	mac_browser.xml	
Web App	<b>Firefox for Intranet with Single Sign-On:</b> Browse web app or intranet site in Firefox. Using G/On PROXY Connector.	mac_firefox_http_proxy.xml	UAL WEB
<b>Client Linux Platform</b>			
Application Type	Application	Menu Action Template	Required Feature
Citrix	<b>Single App:</b> Launch an application through a Citrix Web Interface with Single Sign-On, without showing Citrix web menu to user. Using G/On Citrix Connector.	linux_citrix.xml	UAL CITRIX
Citrix	<b>Web Interface:</b> Launch the Citrix Web Interface with Single Sign-On. Using G/On Citrix Connector.	linux_citrix_web.xml	UAL CITRIX
Citrix	<b>XML Service:</b> Launch any application on a Citrix XenApp server/farm with Single Sign-On. <b>Notice:</b> Creates one or more G/On menu items without Citrix web menu. Using G/On Citrix Connector.	linux_citrix_xml_service.xml	UAL CITRIX
Citrix	<b>XML Service Auto Settings:</b> Launch any application on a Citrix XenApp server/farm with Single Sign-On and settings from Citrix server. <b>Notice:</b> Creates one or more G/On menu items without Citrix web menu. Using G/On Citrix Connector.	linux_citrix_xml_service_auto_settings.xml	UAL CITRIX
File Share	<b>FZ:</b> FileZilla FTP Client through stand-alone SOCKS server.	linux_fz.xml	
Mail	<b>OWA:</b> Outlook Web Access through default browser	linux_owa.xml	
Remote Desktop	<b>rdesktop:</b> Rdesktop Terminal Services Client with client side Single Sign-On.	linux_rdesktop.xml	
Remote Desktop	<b>rdesktop My PC:</b> Rdesktop Terminal Services Client to "My PC" with client side Single Sign-On.	linux_rdesktop_my_pc.xml	
Remote Desktop	rdesktop with server side SSO: Rdesktop access to Terminal Servers and "My PC" with server side Single Sign-On. Using G/On RDP Connector.	linux_rdesktop_rdp_con.xml	UAL RDP
Web App	<b>Browser:</b> Browse a site with default browser	linux_browser.xml	

## 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 File Timestamp: 2011-05-10T12:35:37Z
License Signature Key: 308201153081D206
License Format Version: 1
License Number: 0
License File Number: 0
License Timestamp: 2011-05-10T12:35:36Z
Licensed To: G/On Evaluation License - Not for production use
# Dates are in ISO 8601 format YYYY-MM-DD
License Expiration Date: 2012-02-10
Maintenance Expiration Date: 2011-12-31
Client Connect Address: *
Client Connect Port: *
Feature: HTTP Encapsulation
HTTP Encapsulation Client Connect Port: *
Number of Gateway Servers: 1
Number of Menu Items: 10
Number of Users: 3
Number of Tokens: 5
Client Platform: Windows
Client Platform: Mac
Client Platform: Linux
Client Platform: iOS
Feature: Field Enrollment
Feature: LDAP User Directory
Feature: Active Directory User Directory
Feature: Zones
Feature: Wake on LAN
Feature: Transparent TCP Connector
Feature: RDP Connector
Feature: Citrix Connector
Feature: Proxy Connector for HTTP & SOCKS
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. In G/On 5 we include as part of the license 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 5.5 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	9 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 IP Port	Configurable	A list of one or more IP Ports 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
HTTP	Configurable	The IP Port to be used for the G/On Client to connect for HTTP	No

Encapsulation Client Connect Port		Encapsulation.	
Feature	Yes Yes  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) Wake on LAN (Yes/No) Transparent TCP Connector RDP Connector Citrix Connector (Yes/No) Proxy Connector for HTTP & SOCKS	No No No No No No No No No No* No* No* No* *) One is required
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 20 Menu Items included 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 5.5. The new feature, **Application Server Fail Over & Load Sharing** requires separate licensing. Existing customers should contact their Giritech Partner for details and request a new G/On license file before upgrading to G/On 5.5.

**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 including title and email address. 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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