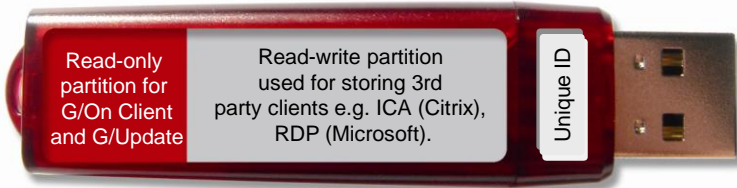


G/On™ SYSTEM DIAGRAM



G/On USB
The G/On Client is locked to the G/On USB key using its unique identification number as a strong 2-factor authentication token.

The remote PC does NOT become part of the company network

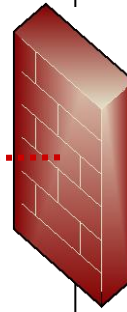
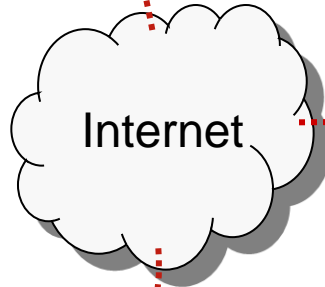
The G/On Client and the G/On Server authenticates one another before the user is permitted to login, effectively preventing phishing and man-in-the-middle attacks.

Once connected, the PC does not become part of the network – instead the user can access applications based on Directory authentication level controlled at the G/On Server.

All data is encrypted using FIPS 140-2 validated 256 bit AES – nothing is transmitted in plain text. The G/On Client leaves no footprint on the remote PC used.

G/On Desktop

The G/On Client is locked to the PC it is installed on, making the PC the device in the 2-factor authentication i.e. “something you have”.



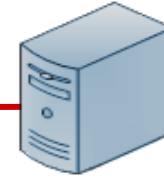
Firewall
Only one port needs to be open for G/On traffic. We recommend port 3945 (the IANA port assigned to Giritech), port 443 or port 80

Corporate Intranet / LAN

G/On server (Windows)



Microsoft AD or Novell eDir.



Server based computing
e.g. Microsoft Terminal Server, Citrix, Mainframe, VMware, or easily connect to your office desktop



Client/Server applications
e.g. Outlook, Dynamics NAV, SAP, CRM, Lotus Notes.



Web-based applications
e.g. Intranet, Extranet, Portal etc.



TCP/UDP communication
e.g. self- or partner-developed applications.

G/On Server

Software Components

- G/On Builder – system installation og configuration
- G/On Admin – user and application connectivity configuration
- G/On Access Rules Manager – for managing G/On Zones & rules
- EDMS (EMCADS™ Data Management System) – a database that stores all information needed to run G/On. Optionally, data can be stored in MS SQL

Hardware requirements

- USB port version 1.1 eller higher (Option is available to run server without USB)
- Minimum two virtual drive mappings available above network drives (e.g. drives E:\ og F:\)
- 120MB available hard disk space
- Minimum 1.2GHz Processor
- Minimum 512MB memory for 1 to 100 users. 2 GB memory for up to 500 users per server

Software requirements

- Microsoft Windows Server 2003 SP2
- Microsoft Windows Server 2003 R2 SP2 *)
- Microsoft Windows Server 2008 *)
- * Support for 32 bit and 64 bit

Firewall requirements

- Port 3945 TCP set for "Through Traffic" (Default). G/On can be configured for other ports, but port 3945, 443 or 80 must be configured to outbound TCP traffic to allow activation of license

Infrastructure requirements

G/On Server must be a full member of the Domain for Microsoft Active Directory synchronization (Note: G/On does not support Microsoft Windows NT Domain)

Placement

Depending on the desired level of security and performance, we recommend installing a dedicated server for G/On server software. Alternatively, G/On can be installed on:

- Proxy Server
- Terminal Server

We advise against installing G/On on the same server as the AD Server or a Web Server

G/On USB

G/On USB is supplied on unique 1 GB USB keys provided by Giritech

Hardware requirements

- USB port version 1.1 and higher (Autorun enabled, by default)
- Min. two virtual drive mappings available (e.g. drives E:\ and F:\) above network drives

Software requirements

- XP and Vista, all versions, are supported except XP embedded
- Limited support of Windows 2000 SP4
- Support for 32 bit and 64 bit (Vista)

Remote firewall requirements

Must be open for outgoing traffic on the ports configured in G/On, typically 3945, 443 or 80

G/On Desktop

Hardware requirements

- 40MB available hard disk space

Software requirements

- XP and Vista, all versions, are supported except XP embedded
- Limited support of Windows 2000 SP4
- Support for 32 bit and 64 bit (Vista)

Firewall requirements

Must be open for outgoing traffic on the ports configured in G/On, typically 3945, 443 or 80

Connectivity

G/On supports TCP connectivity such as RDP (Microsoft) and ICA (CITRIX) for remote desktop and other client/server applications

Verification

Object-based, mutual two-factor user authentication 163-bit ECC Secure Key Exchange (SKE)

Encryption

FIPS 140-2 Validated 256-bit AES data encryption

Core Technology

G/On is powered by EMCADS™ (Encrypted Multipurpose Content and Application Deployment System) Giritech's patented core technology

Tested Application Clients

G/On has been tested with, and fully supports the following:

- **Microsoft® Exchange** 2003 using Outlook 2003 and Outlook 2007 clients
- **Citrix® MetaFrame®** Presentation Server version 3.x and 4.x
- **Microsoft® Windows® Terminal Server 5.x & 6.x as part of:** Windows 2000 Server® SP4 Standard & Enterprise Editions
Windows 2003 Server® SP1 Standard & Enterprise Editions
Windows 2008 Server® Standard & Enterprise Editions
- **Browser:**
G/On supports most of the commercially available browsers. Giritech recommends using Microsoft Internet Explorer®. If application is Java-based, no specific browser is required. Note that Microsoft® Internet Explorer does not provide out-of-the-box Java support, separate installation is required.
- **Microsoft Business Solutions-Dynamics Navision® Version 4.0**

Custom Made Solutions

Giritech's Partners have configured and tested a long list of application interacting with G/On. Amongst these are:

- **ERP:** Axapta and SAP
- **Mail:** Lotus Notes
- **Remote Desktop and Application Access:** VNC and VDI
- **Database:** Database Client Applications (Oracle, MS-SQL, DB2)
- **Other Terminals and Emulation:** PuTTY for SSH & Telnet and Mocha for 3270 & 5250
- **File Sharing and Data Protection:** FileZilla – File Share Access and TrueCrypt – R/W encryption

For more information please visit

www.giritech.com