

G/OnTM 5

A new
Secure Remote Access Platform
from Giritech

Remote users have preferences

G/On 5 works for Windows, Mac and Linux

- The G/On Client user experience is specific to the operating system
- Users can use their new G/On 5 USB on all three platforms



Remote users must be identified

G/On 5 integrates two-factor, mutual authentication

- Smart-card based authentication tokens
- Includes 1GB storage for the G/On Client
- For Windows, Mac, Linux
- No special drivers required



G/On MicroSmart

Available
October
2009



G/On USB MicroSmart



G/On USB SafeSmart

Available
February
2010

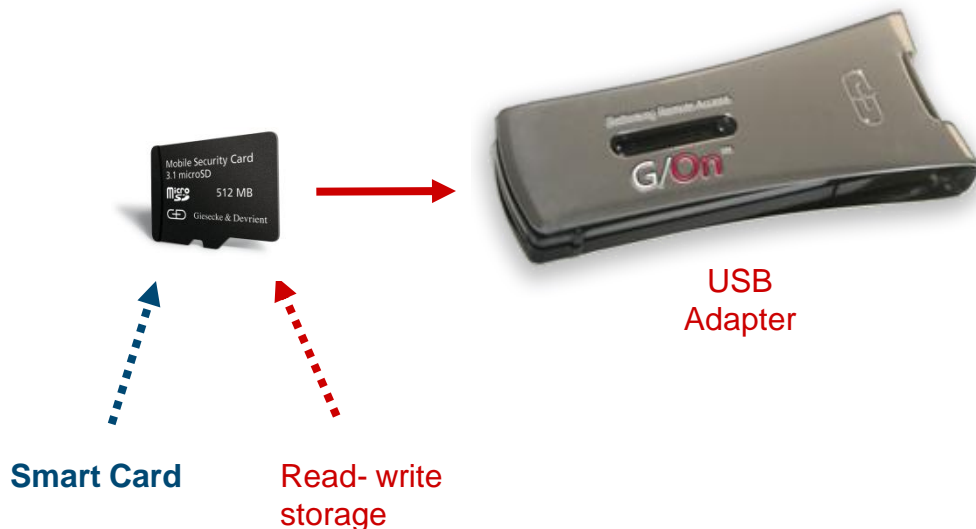


G/On USB MultiSmart

The G/On MicroSmart Device

The **ultra versatile** solution with 2-factor Smart Card Authentication for Windows, Mac and Linux users

This MicroSD with integrated Smart Card for authentication and G/On Client for connectivity provides the most versatile and flexible secure remote access solution in the world!



The G/On USB SafeSmart Device

Secure remote access with encrypted local data



Read-only partition

Encrypted read-write partition

“SIM” like smart card

Integrated CD-ROM and encrypted partition for Windows, Mac and Linux users



“SIM” like smart card with CPU, CD-ROM partition, *encrypted data storage*.

One single device that integrates a protected G/On access solution with encrypted local data.

Availability: February 2010

The G/On USB MultiSmart Device

The ultimate secure,
remote access solution

Integrated Mobility and PIV
Authentication for Windows,
Mac and Linux users



PIV Smart
Card

Built-in
Smart Card

Read-only
partition

Read- write
partition



Smart Card Reader with CPU,
CD-Rom partition, Data
storage and a second built-in
Smart Card.

One single device that
integrates the G/On access
solution with existing **Personal
Identity Verification** solutions
for authentication.

Availability: February 2010



Secure authentication

Using smart cards - without the need for PKI:

- **Challenge/Response protocol**
 - Based on public/private key cryptography (RSA keys), like certificates, but without the complexity of X.509
 - See http://en.wikipedia.org/wiki/Public-key_cryptography
- **Hardware tokens with smart cards**
 - Private key generated, stored and kept secret inside hardware
 - Software inside hardware token implements the challenge/response protocol
 - *G/On smart card tokens: No installations, no drivers*

Remote users must be “isolated”

Virtual Connection

- Contrary to common VPN practice, G/On does not make the remote PC part of your company network
- Users are connected virtually to applications via G/On’s distributed port forwarding proxy functionality

Encrypted Connection

- G/On uses FIPS 140-2 validated*) AES 256bit encryption for data transmission

Lock-to-process

- Applications launched by user from the G/On menu gets its own encrypted G/On connection locked to the application process

G/On Secure Desktop

- Users can boot a locked down Linux operating system from the G/On USB and **achieve a managed and known environment on an unknown PC**

*) With G/On version 5.4



User device can be managed

G/On Secure Desktop

- A new option with G/On 5 (licensing required)
- Turns an unknown PC into a known and managed device
- Boots from the G/On USB Smart Token
- Loads a G/On specific Linux operation system
- Leaves absolutely no traces on the PC - works on PCs without a hard drive
- Provides a Linux desktop
 - Configuration of network connections (Cable/Wireless)
 - Browser
 - Rdesktop for Remote Desktop Access through G/On
 - Citrix ICA client for Citrix access through G/On
 - Filezilla for FTP file upload and download via G/On
 - Access to a minimum set of standard Linux tools
- An ideal option for many organizations, such as:
 - Banks
 - Police
 - Military
 - Law firms
 - Accountants

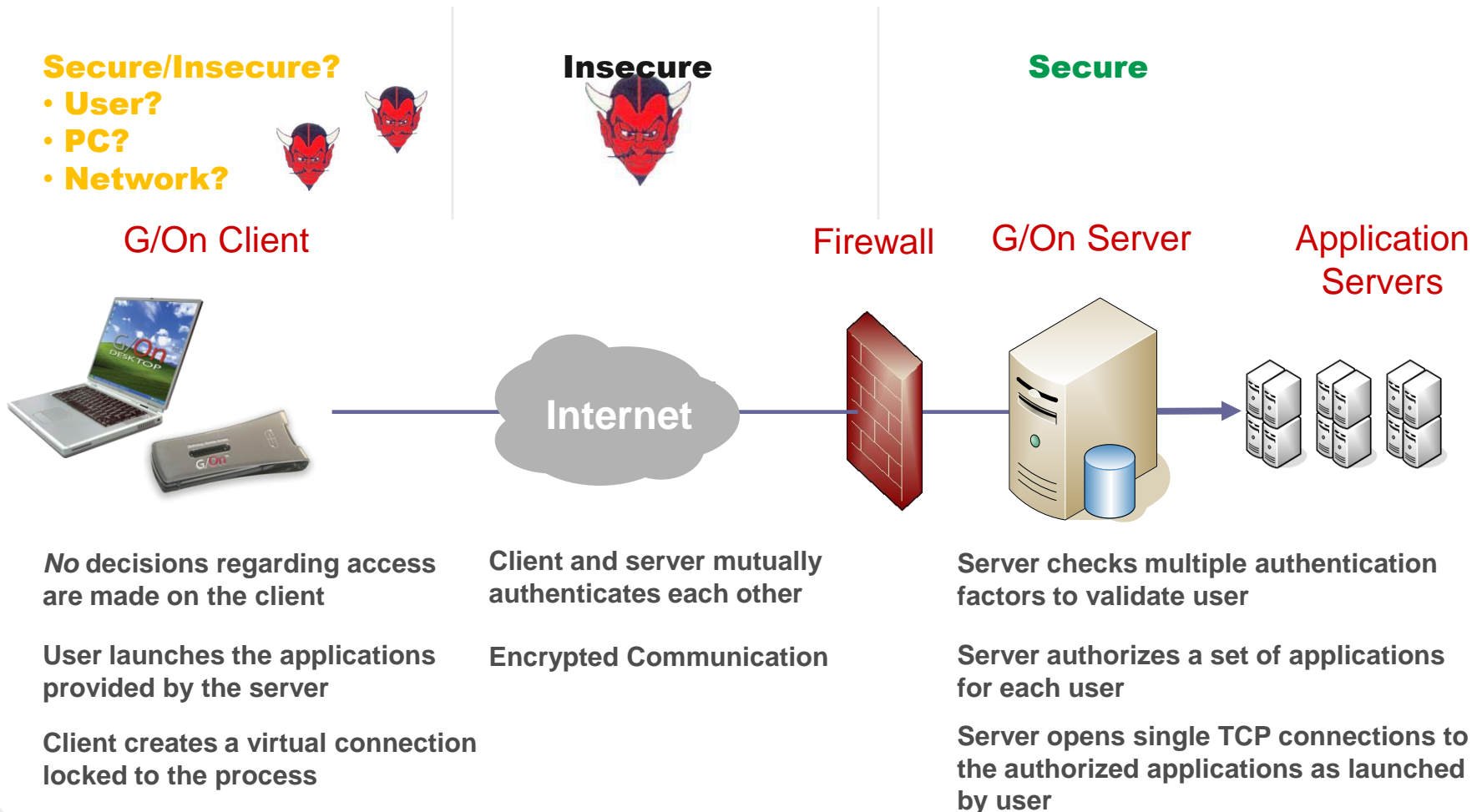
NEW!



...NOW ALSO FOR LINUX

Remote users must be managed

G/On's Server Managed Security Model:



Users are authorized for applications

The G/On Server obtains user authentication via the User Directory. It also gets

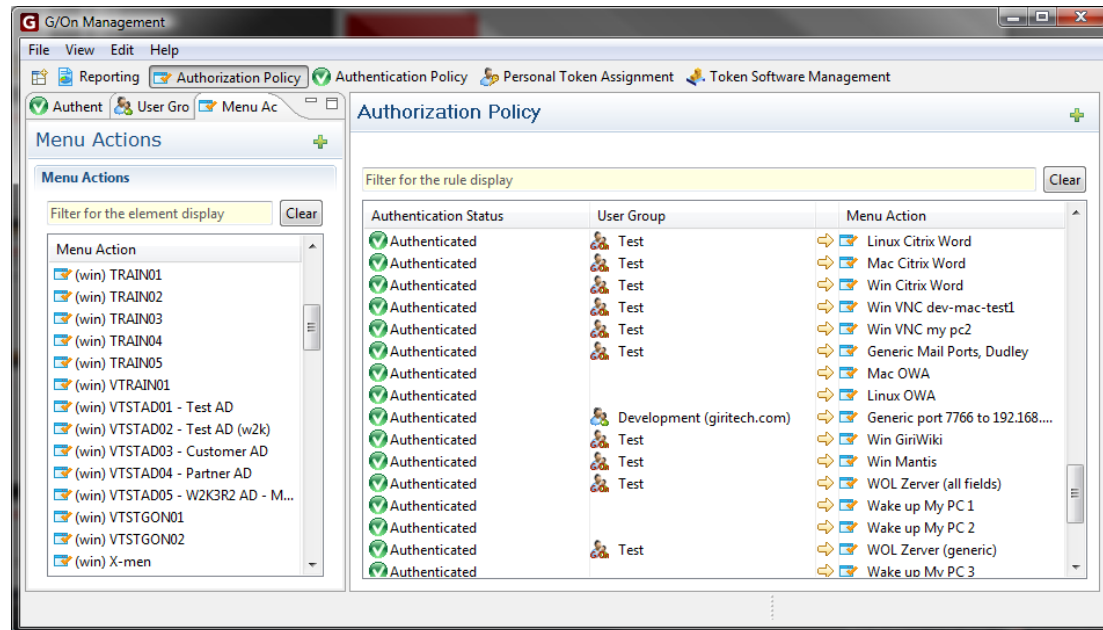
- User Group information

The G/On Administrator defines the set of applications the G/On Server presents

- Based on user authentication and
- User group memberships

Applications are defined

- Via Menu Action Templates



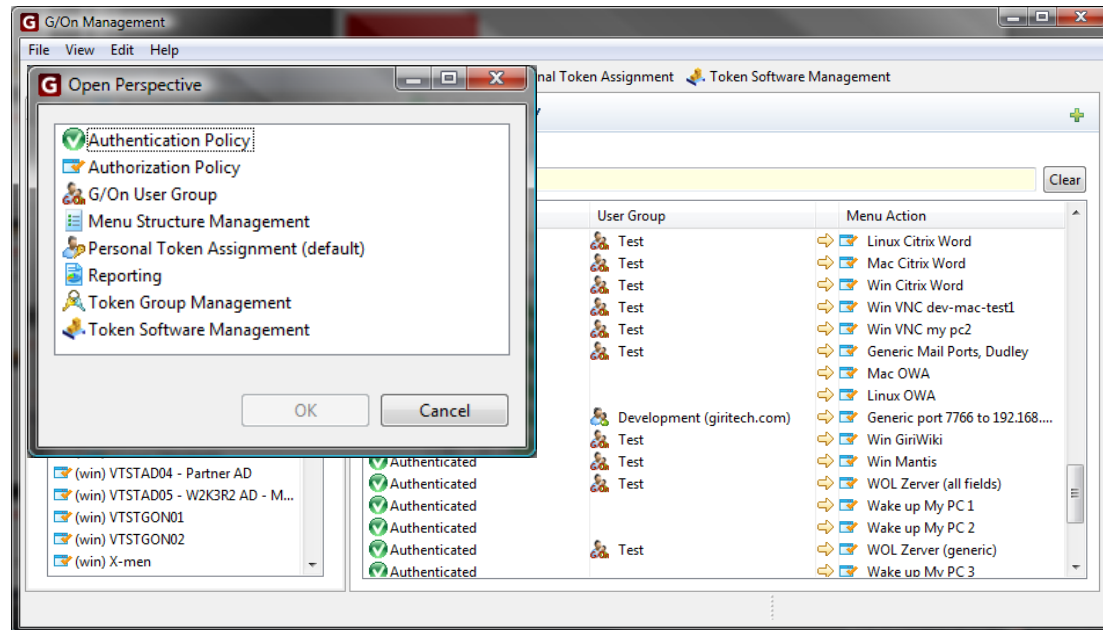
G/On 5 Single Point of Management

A G/On Server consists of

- One or more G/On Gateway Servers
- One G/On Management Server

The G/On Management Server is the central point of management

- Users (based on the User Directory)
- Groups (based on the User Directory)
- G/On Groups
- G/On Tokens
- Authentication Policies
 - Identify users
- Authorization Policies
 - Allowed applications
- Applications
 - Menu Action Templates



Menu Action Templates define how to enable given applications to work through G/On:

- How to start the application client program, with parameters, configuration files etc
- How to set up communication to the application server
- How to lock the communication connection to the client program

Client Software Packages contain the client application software launched by the templates.

G/On 5 comes with a number of predefined templates and packages

G/On Customers and Partners can create their own templates and packages

G/On 5 Reporting

The G/On 5 Server knows

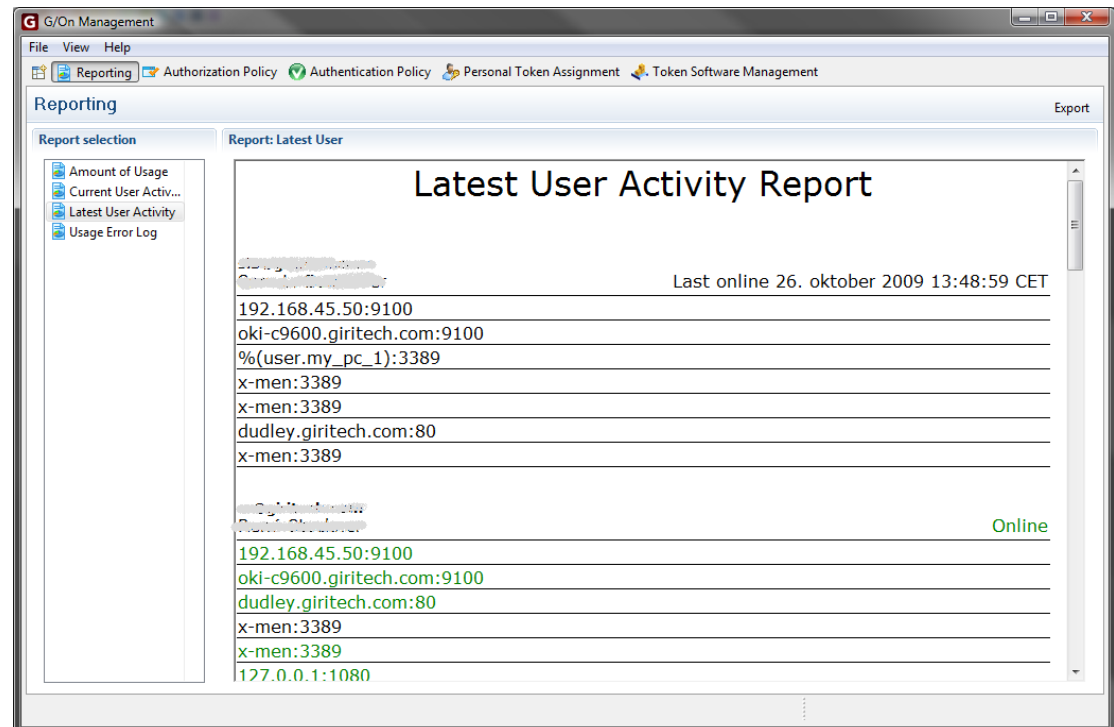
- The user, the authentication token, the application and activity

Detailed logging is made available for reporting

- Tools like BIRT (Business Intelligence Reporting Tool)
- Standard reports are available, but new can be added by customer/partner

Standard Reports for

- Activity
- Online status
- Usage
- Errors



The G/On 5 Gateway Server

The key component of G/On 5 is the G/On Gateway Server

The G/On 5 Gateway Server implements

- Application Level Firewall
- Proxy Functionality
- Application Access Control
- User Authentication
- Security Policy Enforcement
- Handles the "Five Security Challenges" of remote access

Authenticate user



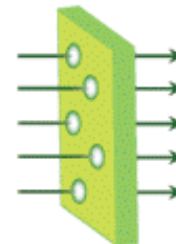
Limit end point dependency



Protect data



Filter access



Authorize user





The G/On 5 Standard Configuration

- Windows, Mac and Linux clients
- Integrated security addressing the Five Challenges of Secure Remote Access
- FIPS 140-2 validated (with G/On version 5.4) 256bit AES encryption
- Two-factor, mutual authentication
 - A User Directory either Microsoft Active Directory or LDAP compliant
- Support for single user directory/single domain
- G/On Client connection on one IP address or DNS name and on one IP Port
- Up to twenty menu actions for single port TCP based client/server applications
 - Windows Remote Desktop access to Windows server/desktop with single sign on
 - Windows remote access to Mac
 - Linux Remote Desktop access to Windows server/desktop with single sign on
 - Mac Screen Sharing for remote access from Mac to Mac with single sign on
 - Browser and browser based applications like Outlook Web Access (OWA)
 - Outlook over HTTP
- Dynamic user menus with "autolaunch" capabilities
- User requested update of G/On Client software and software packages
- Logging and Reporting



G/On 5 Optional Features & License

Server Features

- Additional Gateway Servers
- Multiple Client Connect IP Addresses
- Multiple Client Connect IP Ports
- HTTP Encapsulation
- LDAP User Directory
- Microsoft Active Directory
- Microsoft SQL Server
- Additional Menu Items
- Login Notification Mail
- Welcome Message
- Multiport Port Forward
- Launch Parameter File
- Wake on LAN
- Citrix Web Interface
- G/On Help Manager

Client Features

- G/On Secure Desktop
- G/On Help Standard
- G/On Help Advanced

G/On 5 is Licensed By

- Number of Users
- Number of Tokens
- Server Features
- Client Features



A single uniform G/On 5 menu for

Virtualized environments:

- Access to the desktop of my office PC
- Access to Citrix , MS Terminal Server or VMWare virtual desktops
- Access to specific applications for mail, accounting or ERP

Browser based access

- Outlook Web Access (OWA)
- Company Intranets
- Any other web enabled application

Client/Server applications

- For people with company laptop G/On also offers secure access for locally installed Outlook client or Lotus Notes client
- Access to other client/server applications with clients installed on PC or USB
- Secure file upload/download

Access to server consoles



G/On 5 Solutions (1 of 3)

Working from home

- Using "my home PC" to get to the desktop of "my office PC"
 - And/or get access to virtual desktops, Citrix, Terminal Server, client/server apps
- G/On 5 offers Wake-on-LAN so your office PC can "go-to-sleep"

Continuity of Operations

- G/On scales easily and cost effectively to all employees
- You need to give employees a G/On USB only – not a PC
- All employees will achieve the flexibility and freedom they are looking for

Secure access for external contractors

- External users can use their own PC to connect to specific applications
- Give them a G/On USB and they have access within minutes rather than months
- Reduce complexity and cost significantly

Always use **G/On Secure Desktop**

- **When you have any doubts your PC is infected**
- **When you want to be absolutely sure you leave no traces behind on the PC**

G/On Travel Solutions:

1. When you travel without a laptop - use any PC trusted by you

- In the offices of your customers/vendors/partners
- In other trusted environments

2. When you travel – bring along a small netbook or thin client laptop

- Leave the PC "clean" – don't take company data on the road
- Preferably with a built in 3G modem for a convenient "Internet everywhere"
- Always use G/On to connect securely to your desktop or other applications
- Never leave data on the netbook – data may end up in the wrong places
- If you lose the netbook or the thin client laptop – just get a new one from a local store

3. When you travel with your own laptop

- Use any Internet connection, or
 - Use built in 3G modem, or
 - Bring your data modem or use your mobile phone as modem
 - You may use G/On MicroSmart in your USB modem or directly in your laptop
- Synchronize mail with your local Outlook/Notes

Always use G/On Secure Desktop

- **When you have any doubts your PC is infected**
- **When you want to be absolutely sure you leave no traces behind on the PC**

Companies requiring known and managed PCs can avoid the cost of laptops

- G/On Secure Desktop is a known and managed Linux operating system
- Provides a "PC on a USB" including G/On secure connectivity
- Cost savings are significant compared to a laptop for all employees

Companies can use G/On to secure the wireless network on their premises

- All connections go through G/On. Only known users will get access
- Users can get access to company applications via the G/On remote access

Students can bring their own PC to school and connect to a wireless network

- All connections go through G/On. Only known users will get access
- Connect students to the Internet through G/On – and let G/On do the logging
- Use G/On to give students access to specific resources on the school network
- Students can bring Windows PCs, Macs and Linux PCs.

Congratulations on G/On 5!

Secure Remote Access

- for Everybody
- for Everything



NEW G/ON 5 - CROSS PLATFORM