



# Grayteq DLP

System requisites

## Foundation

1. Grayteq DLP supports all 32-, and 64-bit versions of Microsoft Windows up from Windows 10 on desktop and laptop devices and Windows Server 2012 on servers. For desktops, Pro and Enterprise versions of Windows 10 and 11 are supported only.

## Requisites

2. List of workstations and servers involved with the Grayteq DLP system is required.
3. For preliminary compatibility evaluation, an accumulated list of installed software on these devices is also required.
4. Continuous availability of an RDP (Remote Desktop Protocol) enabled VPN (Virtual Private Network) connection to the server device (physical or virtual) that runs a Grayteq Server (any type) is also necessary for the installation, management and documentation works of the whole Grayteq DLP system.
5. For using Reporting features of Grayteq system (Report, Auto Report, File Audit, Media Audit) requisites are:
  - 5.1. Purchase of Grayteq Enterprise licenses for all Grayteq Security Servers (SEC);
  - 5.2. Purchase of Grayteq Enterprise licenses for all Grayteq Reporting Servers (REP);
  - 5.3. Established proper connection between every Grayteq Security Server (SEC) and a Grayteq Reporting Server (REP);
6. Domain user rights necessary for running all Grayteq Servers:
  - 6.1. Full access to the system folders and their content on all involved workstations (For example add the specific domain user to the group of local admins);
  - 6.2. Remote service execution right on the same devices;
  - 6.3. All Grayteq Servers must be members of the same domain;
7. Remote install application with proper remote installation rights for the involved workstations to remotely install Grayteq DLP Clients. This remote installation can be replaced by the use of Domain User Groups, where a preset login script executed the properly digitally signed installer application, if it already wouldn't be present on the specific device;

8. Use of logon scripts that automatically set the connection data of the Grayteq DLP Clients to their Grayteq Security Server is required. This logon script is a Grayteq-made and officially signed additional application for the Grayteq DLP Clients.
9. During remote system implementation and support provision, session-based remote connection capability is required by preferably using End-User provided VPN connection or any paid or free remote desktop application (Grayteq-preferred free application is AnyDesk). Remote login is session-based and no need for attendance-less login options to that specific device.
10. The list of Grayteq related folders must be added to your antivirus whitelist/trusted path list in use in order to provide uninterrupted operation of Grayteq components. This list is provided by the manufacturer of Grayteq Security Solutions during the system implementation.
11. In case of Symantec Endpoint Protection is in use, the following settings are to be mandatorily applied:
  - 11.1. "General Exploit Mitigation" option must be turned off.
  - 11.2. "Enable early launch anti-malware" option must be turned off.
12. Prerequisites for initiating Grayteq DLP Client run from the Grayteq Security Orchestrator:
  - 12.1. Admin shares must be enabled such as IPC\$, ADMIN\$ and for the admin share for the system drive where the operating system is installed (usually: C\$);

## Server-side requirements

13. For the execution of the second and third step of the realization of your Grayteq DLP system (the completion of the amount of client and server devices made involved in the Grayteq environment) it is necessary to count another Grayteq Security Server for every 1.000 pieces of client- or server agents. This security server/ connected agent ratio makes your Grayteq DLP system easily manageable and is necessary to meet architectural and performance requisites.
14. In case of the Grayteq Security Server runs in virtual environment (ESX, Oracle Virtual Box, VMware, Hyper-V, etc.), there is necessary to dedicate 4 CPU cores for every 1.000 pieces of client- or server agents. Below 1.000 connected Grayteq DLP Client-, or Server Agents, the minimum amount of dedicated CPU cores is two (2) cores.

15. In case of running Grayteq Architecture Server, Grayteq Reporting Servers or Grayteq Security Servers in virtual environments (ESX, Oracle Virtual Box, VMware, Hyper-V, etc.) the host environment (Host Server) must be a separated server with no other guest operating systems or services, but the guest operating systems of Grayteq Servers.
16. All of the above server prerequisites are applicable for physical and virtual server devices also.
17. In accordance with the settings of the Grayteq Security Server, an automated heartbeat is sent periodically to the previously set administrator email addresses and to the [heartbeat@grayteq.com](mailto:heartbeat@grayteq.com) email address.
18. The sender of this heartbeat is a factory predefined [grayteq@corporatedomain](mailto:grayteq@corporatedomain) email address. During system implementation, an email account for this sender address must be created on corporate email server(s) or on Microsoft Exchange and email message sending to [heartbeat@grayteq.com](mailto:heartbeat@grayteq.com) email address must be allowed for this email account. This email account can be de-personalized.

## Firewall requirements

19. When using firewall, „Microsoft File and Printer Sharing“ must be enabled;
20. **MANDATORY PORTS TO OPEN:**
  - 20.1. Grayteq Client to Server log communication: **TCP/3999, inbound and outbound**
  - 20.2. Grayteq Client to Server command communication: **TCP/15000, inbound and outbound**
  - 20.3. Grayteq Server to Server communication: **TCP/39999, inbound and outbound**
  - 20.4. Remote installation; over Microsoft File Sharing protocols: **UDP/139, TCP/135, UDP/445, from Grayteq Security Servers (SEC) to all Grayteq Security Client running devices**
21. **OPTIONAL, FEATURE-, AND ACTION-DEPENDANT PORTS TO OPEN**
  - 21.1. DNS name service requests to default DNS server port: **UDP/53**
  - 21.2. Workgroups, Active Directory access: **UDP/445**

- 21.3. Microsoft SQL log transmission to SQL server: **TCP/1433**
  - 21.4. PostgreSQL log transmission to SQL server: **TCP/1395**
  - 21.5. Oracle SQL log transmission to Oracle server: **TCP/4321**
  - 21.6. SYSLOG log transmission to SYSLOG server: **UDP/514**
  - 21.7. RDP protocol must be enabled on all workstations or servers that run Grayteq Security Orchestrator;
22. **IMPORTANT:** Besides of the above mandatory and feature-, and action-dependent optional ports detailed above, Grayteq Data Security Solutions component use and communicates on no any other ports, neither inbound nor outbound.

## Hardware requirements

### Grayteq Security Orchestrator

Components	Minimum requirements
Operating system	Windows 10, 11 Pro or Enterprise Windows Server all versions up from 2012 For more details, see the latest Grayteq-issued End-of-Life notification.
Hardware	2x1,7 GHz Dual core CPU 8 GB RAM (8+ GB recommended) 20 GB SSD free space 10/100 TCP/IP based network card
Miscellaneous	.NET Framework 4.5 Internet access for license activation

## Grayteq Architecture Server, Reporting Server, Security Server

Components	Minimum requirements
Operating system	Windows Server all versions up from 2012
Hardware	<p>Eight core Xeon CPU</p> <p>32 GB RAM</p> <p>500 GB SSD (on a separated partition)</p> <p>NTFS file system</p> <p>Copper or fiber 1 Gb TCP/IP based network card</p>
Database	<p>As per default, Grayteq DLP uses its own, built-in database that can be replaced by the supported 3<sup>rd</sup>-party database systems detailed below.</p> <p><b>IMPORTANT:</b> According to the redundant storing method of Microsoft SQL, the storage capacity requirement for logs may rise significantly. For example, 2.5 million lines of log stored in Grayteq DLP database requires 350MB storage capacity, where in MS SQL, it requires 8GB.</p> <p><b>Supported databases:</b></p> <p>Microsoft SQL Server – all versions up from 2008(R2)</p> <p>PostgreSQL Server (in both Unicode and ANSI modes)</p> <p>Oracle 10G, 11G, 11G(R2), 18C</p>
Miscellaneous	Use of static IP address is required with FQDN name in DNS settings.

## Grayteq DLP Client

Components	Minimum requirements
Operating system	<p>Windows 10, 11 Pro or Enterprise</p> <p>Windows Server all versions up from 2012 – requires Grayteq DLP Server CAL</p> <p>For more details see the latest Grayteq-issued End-of-Life notification.</p>
Hardware	<p>Pentium IV 2,6 GHz+ CPU</p> <p>8 GB+ RAM - (16GB recommended)</p> <p>100 MB HDD + 8 GB HDD (for local logging)</p> <p>TCP/IP based network card</p>

## Database requirements

23. In basic configuration, due to its own, built-in Grayteq DLP system does not require any third-party database. Besides of its own database, there are third-party databases that are supported.

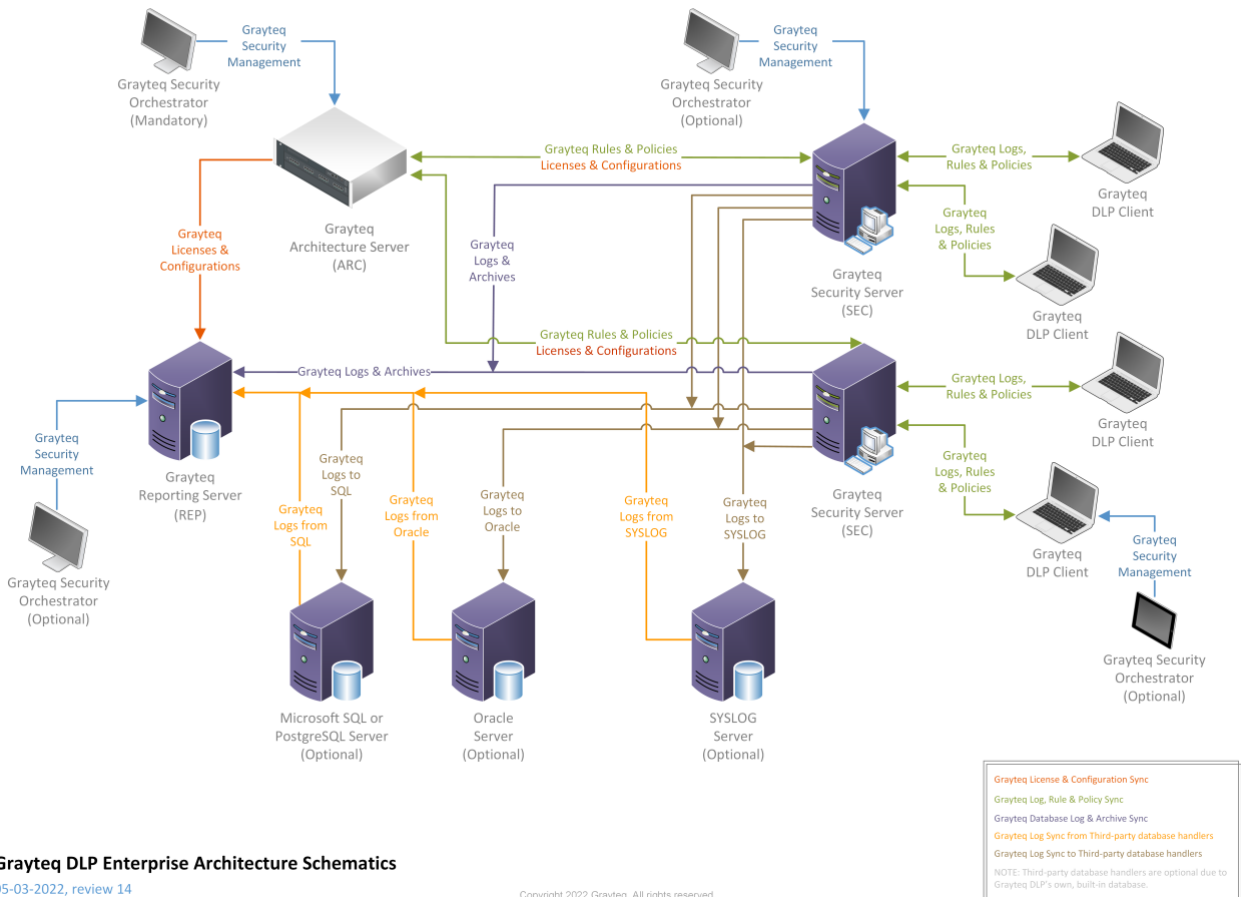
24. Supported third-party databases:

- 24.1. All versions from Microsoft SQL Server 2012;
- 24.2. PostgreSQL Server (in both Unicode and ANSI modes)
- 24.3. Oracle 10.2, 11.X, 12.X, 18C

25. In case of using Third-party database handlers for Grayteq security logs to be stored and created reports from, every Grayteq Security Server connected to the specific Grayteq Reporting Server must use the same type of database handler. These can be any from the Grayteq DLP system supported Third-party database types (Microsoft SQL, PostgreSQL, Oracle or SYSLOG).

# Grayteq DLP Enterprise Architecture

Data Security Solutions 



**Grayteq DLP Enterprise Architecture Schematics**

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