



Illumina DRAGEN Server v4

Site Prep and Installation Guide

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Overview

This resource provides instructions for setting up the Illumina® DRAGEN Server™, including preparing your site for installation and operation.

i | CentOS 7 on the DRAGEN Servers is no longer supported. Upgrade the operating system to Oracle 8 to use the DRAGEN Server software. Refer to the Upgrade to Oracle 8 instructions on support.illumina.com/bulletins.html. Contact Illumina Technical Support for additional help.

Use the following specifications and guidelines to prepare your facility:

- Space requirements
- Electrical requirements
- Environmental considerations
- Computing requirements
- Network considerations

Site Preparation

This section provides specifications and guidelines for preparing your site for installation and operation of the DRAGEN Server.

- Laboratory space requirements
- Electrical requirements
- Environmental considerations

Delivery and Setup

The DRAGEN Server is unpacked and installed by the customer. The space must be ready before delivery.

Box Dimensions

Use the following dimensions to determine transport, setup, and storage plans.

Measurement	Dimension
Height	29.5 cm (11.6 in)
Width	62 cm (24.4 in)
Depth	96 cm (37.8 in)
Weight	34.8 kg (77 lb)

Shipping Box Components

The DRAGEN Server and components are shipped in one box. The following components are included:

- Power cord, country-specific
- DRAGEN Server license USB key
- Rack mount rails - 80 cm (31.5 in) length
- Rack mount screws
- Two SFP+ transceivers

Facility Requirements

Use the specifications and requirements provided in this section to set up your lab space.

Equipment Dimensions

Measurement	Dimension
Height	8.8 cm (3.46 in)
Width	43.8 cm (17.24 in)
Depth	76.0 cm (29.924 in)
Weight	23 kg (50.7 lb)

Rack Requirements

Measurement	Dimension
Minimum Depth	60.95 cm (25 in)
Maximum Depth	89.7 cm (35.4 in)

 If the rack is shorter than the length of the server (29.9 in) or the rails (31.5 in), the server and rails will extend beyond the length of the rack. To avoid interference with power and cable management, and to make sure the rack closes properly, use a rack with a depth of at least 29 in.

Placement Requirements

Position the DRAGEN Server to allow proper ventilation, access to one power outlet, and access for servicing.

- Allow a rack height of at least 2U.
- Make sure that there is one standard pocket outlet within 3 m (10 ft) of the server.
- Position the instrument so personnel can quickly disconnect the power cords from the outlets.

Electrical Requirements

Power Specifications

Type	Specification
Line voltage	100–240 VAC at 47/63 Hz
Peak power consumption	750 watts
Power supply rating	2000 watts at 100%

For 100–240 Volts AC, your facility must be wired with a minimum 15 amp grounded line with proper voltage. An electrical ground is required. If the voltage fluctuates more than 10%, a power line regulator is required.

The server must be connected to a dedicated circuit that must not be shared with any other equipment.

Receptacles

Your facility must be wired with the following receptacles:

- For 100–110 Volts AC—Two 10 amp grounded, dedicated lines with proper voltage and electrical ground.
- For 220–240 Volts AC—Two 6 amp grounded lines with proper voltage and electrical ground.
- North America and Japan—NEMA 5–15.
- If the voltage fluctuates more than 10%, power line regulators are required.

Protective Earth



The DRAGEN Server has a connection to protective earth through the enclosure. The safety ground on the power cord returns protective earth to a safe reference. The protective earth connection on the power cord must be in good working condition when using this device.

Power Cords

The instrument comes with an international standard IEC 60320 C20 receptacle, and is shipped with a region-specific power cord. To obtain equivalent receptacles or power cords that comply with local standards, consult a third-party supplier such as Interpower Corporation (www.interpower.com). All power cords are 2.5 m (8 ft) in length.

Hazardous voltages are removed from the instrument only when the power cord is disconnected from the AC power source. Position the server so that you can quickly disconnect the power cord from the outlet.

 To avoid power surges, use an extension cord to connect the instrument to a power supply.

Fuses

The server contains no user-replaceable fuses.

Environmental Considerations

The following table specifies temperature, humidity, and other environmental considerations for safely housing the instrument.

Element	Specification
Temperature	Maintain a server room temperature of 0°C to 35°C. This temperature is the operating temperature of the DRAGEN Server. Do not allow the ambient temperature to vary by more than $\pm 2^\circ\text{C}$.
Humidity	Maintain a noncondensing relative humidity between 10–85%.
Altitude	Locate the DRAGEN Server at an altitude below 2,000 m (6,500 ft).
Air Quality	Operate the server in a data center environment with air filtration per ISO 14644-1 Class 8 with a 95% upper confidence limit.
Ventilation	Consult your facilities department for ventilation requirements sufficient for the level of heat output expected from the DRAGEN Server.
Location	Operate the server in an indoor environment only. The server is not suitable for use in locations where children are likely to be present. The server is intended for use in a server room.

Heat Output

Measured Power	Thermal Output
800 Watts	2800 BTU/hr

Noise Output

Acoustical Performance	Noise Output (dB)	Distance from Server
Idle @ 25°C ambient	70	1 m (3.3 ft)
Maximum load @ 25°C ambient	76	1 m (3.3 ft)

Uninterruptible Power Supply

Illumina recommends using a user-supplied uninterruptible power supply (UPS).

Illumina is not responsible for data loss caused by interrupted power, regardless of whether the DRAGEN Server is connected to a UPS. Standard generator-backed power is often not uninterruptible, so a brief power outage occurs before power resumes. This power outage interrupts analysis and data transfer.

The following table shows three example recommended UPS models for the DRAGEN Server.

Specification	North America APC Model # SMT3000RM2U	Japan APC Model # SMT3000RMJ2U	International APC Model # SMT3000RMI2U
Maximum Output Capacity	2700 W 2880 VA	2400 W 2400 VA	2700 W 3000 VA
Input Voltage (Nominal)	120 VAC	100 VAC	230 VAC
Input Frequency	50/60 Hz	50/60 Hz	50/60 Hz
Input Connection	NEMA L5-30P	NEMA L5-30P	BS1363A British IEC 320 C20 Schuko CEE 7 / EU1-16P
Built-In UPS Output Receptacles	3xNEMA 5-15R 3xNEMA 5-20R 1xNEMA L5-30R	3xNEMA 5-15R 3xNEMA 5-20R 1xNEMA L5-30R	8xIEC 320 C13 3xIEC Jumpers 1xIEC 320 C19
Dimensions	8.5 cm x 43.2 cm x 66.7 cm (3.35 in x 17.01 in x 26.26 in)	8.7 cm x 43.2 cm x 66.7 cm	8.6 cm x 48 cm x 68.3 cm
Rack Height	2U	2U	2U
Weight	38.45 kg (84.77 lb)	39 kg	44.28 kg
Typical Run Time (at 500 Watt Average Draw)	58 minutes	40 minutes	38 minutes

Safety & Compliance

This section provides important safety information pertaining to the installation and operation of the DRAGEN Server. This section includes product compliance and regulatory statements. Read this section before performing any procedures on the server.

The country of origin and date of manufacture of the server are printed on the server label.

Safety Considerations and Markings

This section identifies potential hazards associated with installing, servicing, and operating the DRAGEN Server. Do not operate or interact with the DRAGEN Server in a manner that exposes you to any of these dangers.

General Safety Warnings

Make sure that all personnel are trained in the correct operation of the DRAGEN Server and any potential safety considerations.



Follow all operating instructions when working in areas marked with this label to minimize risk to personnel or the DRAGEN Server.

Electrical Safety Warnings



Do not remove the outer panels from the DRAGEN Server. There are no user-serviceable components inside. Operating the DRAGEN Server with any of the panels removed creates potential exposure to line voltage and DC voltages.

Compliance and Regulatory Markings

The DRAGEN Server is labeled with the following compliance and regulatory markings.

Waste Electrical & Electronic Equipment (WEEE)



This label indicates that the instrument meets the WEEE Directive for waste. Visit support.illumina.com/certificates.html for guidance on recycling your equipment.

Product Certifications and Compliance

The DRAGEN Server is compliant with the following directives:

- EMC 2014/30/EU
- Low Voltage 2014/35/EU
- ROHS 2011/65/EU and 2015/863
- ErP 2009/125/EC

The complete EU declarations of conformity and certificates of compliance are available on the Illumina website at support.illumina.com/certificates.html.

EMC Considerations

This equipment has been designed and tested to the CISPR 11 Class A standard. In a domestic environment, it might cause radio interference. If radio interference occurs, you might need to mitigate it.

Do not use the device in close proximity to sources of strong electromagnetic radiation, which can interfere with proper operation.

Evaluate the electromagnetic environment before operating the device.

Set Up the DRAGEN Server

This section provides information on installing the DRAGEN Server. Before beginning, make sure that you have all the components and your facility meets the requirements.

The following components are not included with the DRAGEN Server and are required to set up the server:

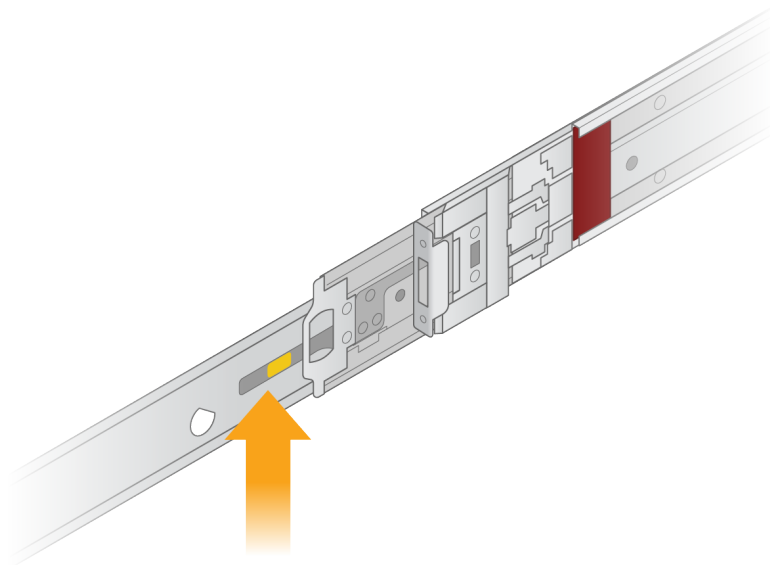
- Monitor with a VGA input
- VGA cable
- Keyboard with a USB input

Mount the Server

Use the following instructions to mount the DRAGEN Server to your server rack.

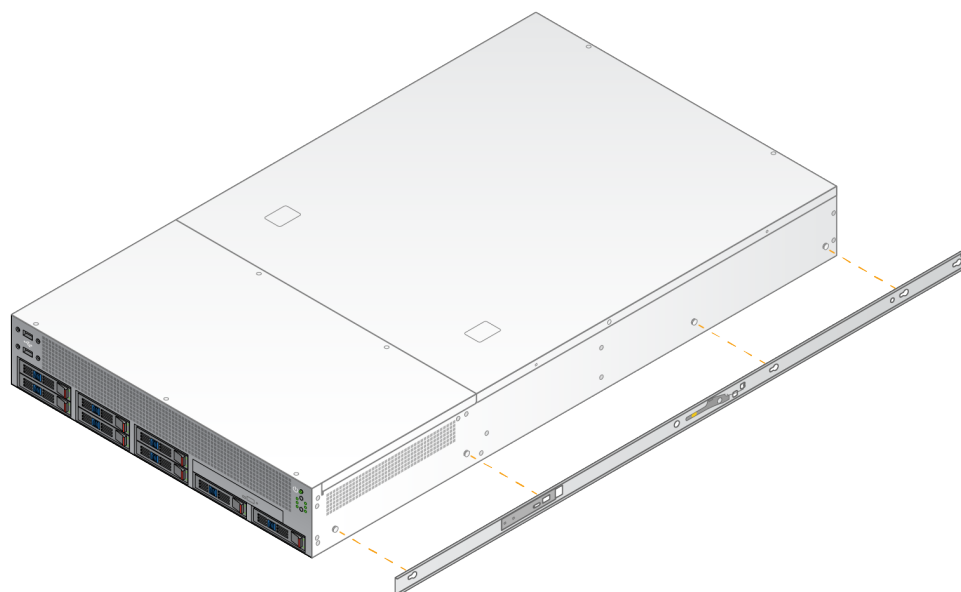
Attach Mounting Bracket to Server

1. Pull the mounting bracket rail out from the rail assembly until you reach the safety lock.
2. Press the yellow rail lock lever up, and then remove the mounting bracket rail from the rail assembly.





3. Align the key slots to the T studs on the sides of the server, and then slide the mounting bracket back to lock into place.

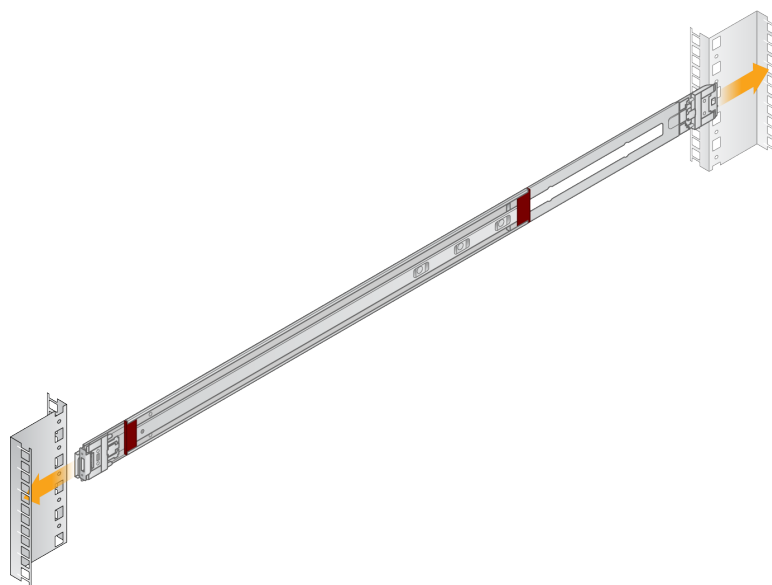


4. Repeat to attach the mounting bracket on the other side.

Mount the Rail Assemblies in Rack

1. Press down on the rail assembly mechanism to unlock the rear rail assembly lock.
2. Align the rail assembly into the desired server rack brackets, and then push forward to lock into place.
An audible click indicates that the rail assembly is in place.
3. Release the yellow locking latch and push the slider forward to the rear of the rail assembly.

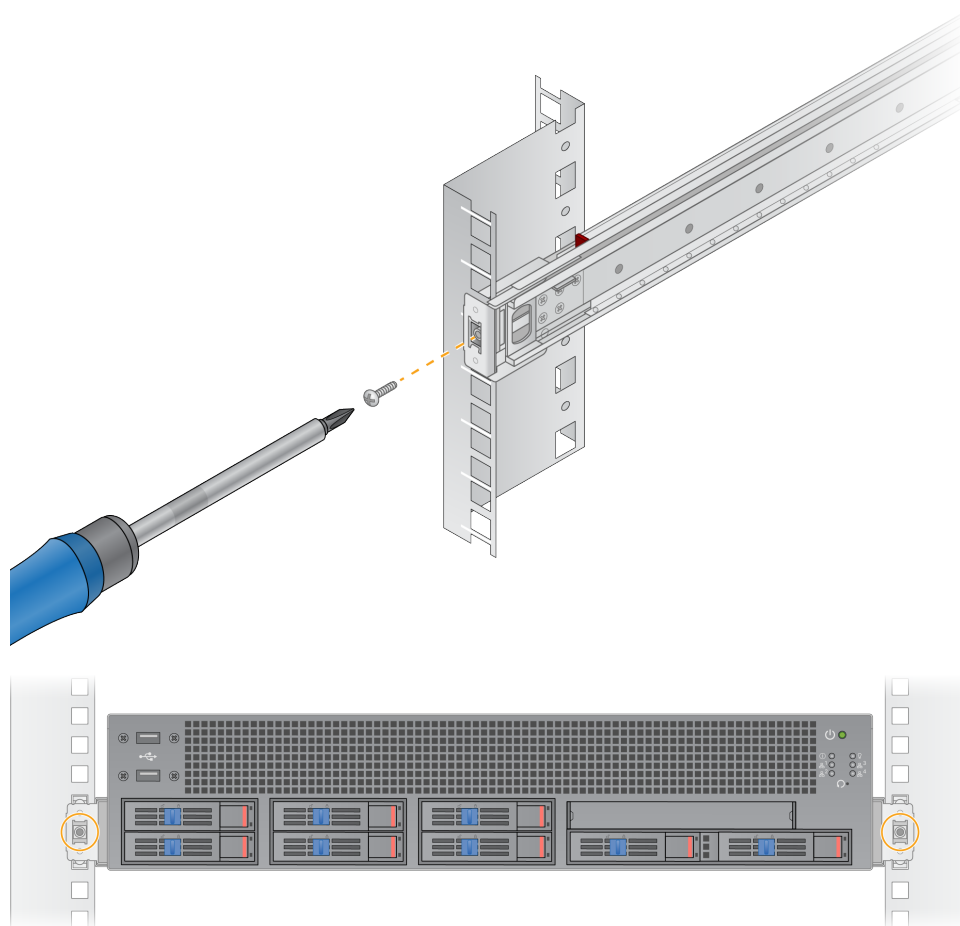
4. Align the rail assembly into the desired front server rack brackets, and then flip the lock mechanism forward to lock the rail assembly into place.
5. Repeat for the other rail.



Install the Server in the Rack

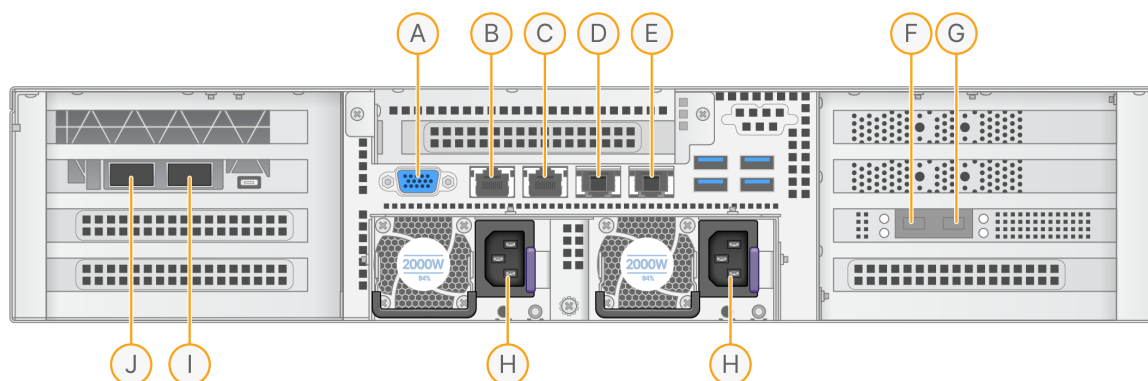
Two people are recommended for moving the server.

1. Facing the front of the rack, align the mounting brackets on the server with the slide rails inside the rack.
2. Slide the mounting brackets into the slide rails until you reach the safety locks.
3. Press both safety lock triggers down simultaneously, and then slide the server forward until it rests against the server rack.
4. Insert the required cables.
5. Insert screws into the rectangular window on the front of each lock mechanism.



Server Ports

The following figure indicates the port location on the rear of the server for each cable required when installing the Illumina DRAGEN Server.



- A. VGA port (monitor)
- B. 1 GB Ethernet port with interface name enp5s0 (BMC)
- C. 1 GB Ethernet port with interface name enp4s0
- D. 10 GB Ethernet port with interface name enp26s0f1
- E. 10 GB Ethernet port with interface name enp26s0f0
- F. 10 GB SFP+ port with interface name ens3f0
- G. 10 GB SFP+ port with interface name ens3f1
- H. Power supply inlets
- I. Port not available for use
- J. Port not available for use

Insert Cables

1. Using the VGA cable, attach the VGA monitor to the server VGA port.
2. Attach the USB keyboard to any open USB port.
3. Attach network cable RJ45 to network port D or E.

Install the Illumina DRAGEN Server

You can activate the DRAGEN Server by installing the USB license key as follows. You must activate the server before proceeding.

1. Locate the USB license key in the delivery box.
2. Plug the USB license key into any USB port on the back of the server.
3. Connect the power cord to the power supply inlet, and then to the wall outlet.
4. Connect your monitor to the DRAGEN Server using the VGA port.
5. Connect your keyboard to the DRAGEN Server using any unoccupied USB port.

6. Press the power button to turn on the server.

i | The DRAGEN Server performs an additional boot cycle when first turned on. The boot cycle unlocks the drive. Allow the DRAGEN Server to perform the boot cycle without user input.

Shut Down the Server

You can shut down the DRAGEN Server directly from the command line.

1. Log in as root.
2. To initiate system shutdown, enter the following command:

```
poweroff
```

Wait a few minutes until the server comes to a complete shutdown.

Configure Settings

You can configure the following settings for the DRAGEN Server:

- Security
- Networking
- Baseboard management controller

Security and Safety

The DRAGEN Server is designed to resist attacks. Supplement this design with the following security recommendations:

- A secure internal LAN to prevent the distribution of data to all web browsers.
- Limited access to the DRAGEN Server to prevent the removal of the RAID controller, disk drives, and access to data. Booting in single-user mode allows access to the whole system.
- The DRAGEN Server is designed to analyze sequencing data. Do not consider it a general-purpose computer. Refer to [User Behavior on page 15](#) for more information on appropriate use.
- It is recommended that you review Illumina's Security Best Practices at [Illumina Security and Networking](#) to keep your server secure. These best practices include, for example, enabling firewalls and using appropriate account settings.

Antivirus Software

Illumina does not recommend running any virus scanners on the DRAGEN Server. Virus scanners often impact the performance of High-Performance Computing (HPC) systems.

Restricted Ports and Authentication

Outbound Connections	lus.edicogenome.com port 80
Inbound Connections	SSH: TCP port 22

Stack Overflow Protection

Modern processors disable coded execution in data sections of the program to address stack overflow attacks. By default, this feature is enabled.

User Behavior

The DRAGEN Server is designed for analyzing sequencing data. For quality and security reasons, the server should not be used for general-purpose computing such as web browsing, checking email, or running third-party software. These activities can result in degraded performance or data loss. Users

should also avoid storing files on the scratch drive as it can impede the proper operation of the server.

Network Considerations

Before running tests, make sure that your network contains the required components and meets the network connection recommendations.

DRAGEN Server setup requires the following network components:

- Default gateway address
- DNS Server IP address
- IP addresses (2)
- Subnet mask for the IP addresses

The following operations require an external internet connection using TCP on ports 80 and 443:

- Updating the software
- Access to license server

Network Connections

Use the following recommendations to install and configure a network connection:

- Recommended bandwidth for a connection is 10 Gb per second.
- Switches and other network equipment must have a minimum of 10 Gb per second.
 - Calculate the total capacity of the workload on each network switch. The number of connected instruments and ancillary equipment, such as a printer, can impact capacity.
- For 10 Gb connections, SFP+ and RJ45 connections are supported. If using SFP+ ports, twinax cables or SFP+ transceivers are required. Validated transceivers include Intel and Finisar.
- Ask your IT professional to review network maintenance activities for potential compatibility risks with the system.

Configure the Server Network

Use the Network Manager Text User Interface (NMTUI) to configure the IP address, gateway, DNS server, and additional options for your connection.

1. Log in as root using the default password: `Hello@Illumina!`. The system prompts users to reset the password upon first login.

2. Enter:

```
nmtui
```

3. Use the keyboard to navigate the NMTUI.
4. Select **Activate a connection** to view the active Ethernet connection.

The active Ethernet connection shows an asterisk in front of the connection name.

5. Select **Back**.
6. Select **Edit a connection**.
7. Navigate to the active connection, and then select **Edit**.
8. Select **Show** next to IPv4 Configuration or IPv6 Configuration.
9. Select **Automatic** to choose one of the following IP configurations:
 - To remove the IP configuration, select **Disabled**.
 - To automatically obtain your IP address from DHCP, select **Automatic**.
 - To manually set your IP address, select **Manual**.
10. Set the following network settings:
 - IP address and subnet mask
 - Gateway
 - DNS server
 - **[Optional]** Search domain
 - **[Optional]** Select additional routing settings depending on your routing configuration.
11. Select how users can access the connection.
 - **Automatically connection**—The connection acts as the default connection for all users.
 - **Available to all users**—All users can access this connection. Disabling this option removes the connection from the list of available connections for users.
12. Select **OK**.

Set System Hostname

The system hostname must be obtained from the customer's IT group and match their network settings.

1. From the NMTUI main menu, select **Set System Hostname**.
2. Enter Hostname, and then select **OK**.

Set Server Time (Optional)

Set Server Time to Local Time Zone

1. Log in as root.
2. To check if the current server time reflects the local time zone, use the following date command:

```
date
```

3. To check for a nearby city with the correct time zone, use the `timedatectl list-timezones` command.

For example, the following command finds time zones in Asia:

```
timedatectl list-timezones | grep Asia
```

4. To change the server time to local time, use the `timedatectl set-timezone` command.

Example:

```
timedatectl set-timezone Asia/Singapore
```

5. To make sure that the server time has changed, enter the following command:

```
ls -l /etc/localtime
```

Synchronize Server Time to NTP Server

1. Log in as root.

2. Check if chrony daemon is running. Enter:

```
systemctl status chronyd
```

3. If the result from the previous command shows inactive or dead, enable the chrony daemon. Enter:

```
systemctl enable chronyd
```

4. To start the daemon, enter:

```
systemctl start chronyd
```

5. Edit `/etc/chrony.conf` using `vi`. Enter:

```
vi /etc/chrony.conf
```

6. Replace the default NTP server settings to the local NTP server.

Original default settings:

```
server 0.centos.pool.ntp.org iburst
```

```
server 1.centos.pool.ntp.org iburst
```

```
server 2.centos.pool.ntp.org iburst
```

```
server 3.centos.pool.ntp.org iburst
```

Settings to use local NTP server(s):

```
server 192.168.1.1 iburst
```

```
server 192.168.1.2 iburst
```

7. To save the file, enter:

```
:wq!
```

8. To restart the chrony daemon, enter:

```
systemctl restart chronyd
```

9. Check the health of the local time server as follows.

```
timedatectl
```

10. To make sure that DRAGEN Server can synchronize with the local NTP server, use one of the following commands:

- chronyc tracking (Manual)
- ntpdate (Automatic)

The following is an example command:

```
ntpdate -q 192.168.1.1
```

Configure BMC (Optional)

You can connect to the Baseboard Management Controller (BMC) to provide remote monitoring and control for Illumina Technical Support. Refer to [Server Ports on page 13](#) for the proper port to use.

1. Log in as root user using the root password provided in the DRAGEN Server welcome email. If you have not received your sign in credentials, contact Illumina Customer Service.
2. If signing in for the first time, reset your password.
Passwords must contain at least 10 alphanumeric characters and two special characters.
3. To use a static IP address, do as follows.

- a. Enter the following command:

```
ipmitool lan set 1 ipsrc static
```

- b. To set the IP address, enter the following command:

```
ipmitool lan set 1 ipaddr <IP address>
```

- c. To set the netmask, enter the following command:

```
ipmitool lan set 1 netmask <netmask ID>
```

- d. To set the default gateway, enter the following command:

```
ipmitool lan set 1 defgw ipaddr <gateway ID>
```

4. Enter the IP address into the web browser. You can sign in as an admin using the password printed on the back of the DRAGEN Server.

Access the Server Remotely (Optional)

To access your DRAGEN Server from a remote location, you must set your firewall zone to public and allow root login from SSH connections.

 | Configuring remote access allows any device on the network to access your server and exposes your server to security risks.

Set Firewall Zone

By default, the firewall is enabled and blocks all incoming connections. To allow remote SSH connections, run the following script:

```
/usr/local/bin/mfg_enable_network.sh
```

This script accomplishes the following steps:

- Sets firewall zone to public.
- Sets network interfaces to automatically start when the server is turned on.
- Allows users to log in via SSH.
- Reloads the SSHD configuration.
- Restarts the network manager service.

Allow Root Log in by SSH

To access the Illumina DRAGEN Server remotely, you must enable root log in by SSH connections. By default, root log in attempts from SSH connections are blocked.

1. Log in as root.
2. Open `nano /etc/ssh/sshd_config`.
3. Set `PermitRootLogin` to `yes`.
4. Restart `sshd` as follows.

```
systemctl restart sshd
```

Activate the DRAGEN Software License

The Illumina DRAGEN Server ships with temporary short-term software licenses. The license activation process differs depending on whether the server is connected to the internet or is offline. Root/sudo access is required to run the commands below. For assistance with the various command line options, email Illumina Technical Support.

Use the following instructions to activate your licenses.

Online Servers

For servers connected to the internet, activate your DRAGEN Software license as follows.

1. Test and confirm that the server is connected to the internet.

Example:

```
ping www.illumina.com
```

2. To activate the license, enter:

```
/opt/edico/bin/dragen_lic -i auto
```

3. Confirm that the license has been updated. Enter:

```
/opt/edico/bin/dragen_lic
```

Offline Servers

For servers not connected to the internet, Illumina Customer Service provides the necessary license files to activate the license on the server locally. If you have not received these license files, email Illumina Technical Support.

After you have the necessary license files, activate your DRAGEN Software license as follows.

1. Update the `site.cfg` file on the DRAGEN server to specify `site=dark`.

- a. Log in as a root user.
- b. Type `vi /var/lib/edico/site.cfg` then press Enter.
- c. To begin editing type `i` then press Enter.
- d. Edit `site=connected` to `site=dark`
- e. To save the file:
 - Type `ESC` then press Enter.
 - Type `:wq` then press Enter.

2. To copy the license files to the server, run the following commands:

```
rm /var/lib/edico/*.gbin
sudo /opt/edico/bin/dragen_lic -i license_Genome.bin
sudo /opt/edico/bin/dragen_lic -i license_JointGenotype.bin
sudo /opt/edico/bin/dragen_lic -i license_Transcriptome.bin
sudo /opt/edico/bin/dragen_lic -i license_Somatic.bin
sudo /opt/edico/bin/dragen_lic -i license_CNV.bin
sudo /opt/edico/bin/dragen_lic -i license_TSO500Combined.bin
sudo /opt/edico/bin/dragen_lic -i license_Compression.bin (if applicable)
sudo /opt/edico/bin/dragen_lic dragen_lic -i license_TSO500_HRD.bin (if
applicable)
sudo /opt/edico/bin/dragen_lic dragen_lic -P {Board Serial}_license.dat
```

3. Confirm that the license has been updated. Enter:

```
/opt/edico/bin/dragen_lic
```

Running the System Check

After turning on the server, make sure that your Illumina DRAGEN Server is functioning properly by running the following self-test script:

```
/opt/edico/self_test/self_test.sh
```

The self-test script performs the following actions:

- Automatically indexes chromosome M from the hg19 reference genome.
- Loads the reference genome and index.
- Maps and aligns a set of reads.
- Saves the aligned reads in a BAM file.
- Asserts that the alignments exactly match the expected results.

Each server ships with the test input FASTQ data for this script, which is located in `/opt/edico/self_test`. The system check takes approximately 25–30 minutes.

The following example shows how to run the script and the output from a successful test.

```
[root@edico2 ~]# /opt/edico/self_test/self_test.sh
-----
test hash creating
test hash created
-----
reference loading /opt/edico/self_test/ref_data/chrM/hg19_chrM
reference loaded
```

```
-----  
real0m0.640s  
user0m0.047s not properly paired and unmapped input records percentages: PASS  
-----  
md5sum check dbam sorted: PASS  
-----  
SELF TEST COMPLETED  
SELF TEST RESULT : PASS
```

If the output BAM file does not match the expected results, the last line of the previous text displays the following text:

```
SELF TEST RESULT : FAIL
```

If you receive a `FAIL` result after running the test script immediately after turning on your Illumina DRAGEN Server, contact Illumina Technical Support.

Verify and Install the DRAGEN Software

Verify the DRAGEN Software Version

If you are already running the latest version of the software, refer to the Illumina DRAGEN Bio-IT Platform documentation on the [DRAGEN Bio-IT Platform support page](#) for information on running system checks and self-tests.

Use the following commands to query the current version of the DRAGEN software and server.

- To view the current version of only the DRAGEN software, enter the following command:

```
dragen --version
```

- To view the current versions of both the DRAGEN software and hardware, enter the following command:

```
dragen_info -b
```

Install the DRAGEN Software

1. Download the software package from the DRAGEN Bio-IT Platform [support page](#).
2. Enter the following command to use the self-extracting *.run file:

```
sudo sh dragen-4.0.3-8.el7.x86_64.run
```

3. If prompted to switch to a new hardware version, enter `y`.

 If the hardware upgrade process is interrupted, perform the software install steps again. If the DRAGEN software is not functional after the second install attempt, contact Illumina Technical Support.

4. Use the following halt command to power the server off and on:

```
sudo ipmitool chassis power cycle
```

A reboot command does not update the hardware version.

Resources & References

The Illumina DRAGEN Server support pages on the [Illumina support site](#) provide additional resources. These resources include training, compatible products, and other considerations. Always check support pages for the latest versions.

Revision History

Document	Date	Description of Change
Document #200015717 v05	May 2026	Updated: 10 GB SFP+ server port names. Added: - Labels for unavailable ports. - Steps to specify an offline DRAGEN server as a dark site.
Document #200015717 v04	December 2024	Updated: - Allow Root Log in by SSH - Configure Settings - Security and Safety Added: - Set System Hostname
Document #200015717 v03	October 2022	Added the following information: - Steps to activate the DRAGEN software license - Steps to verify and install the DRAGEN software Updated steps to install the server license
Document #200015717 v02	August 2022	Internal process change. No content changes.
Document #200015717 v01	July 2022	Updated the server specifications. Added the server weight. Updated the UPS recommendations. Renamed Install the Server Racks to Mount Server.
Document #200015717 v00	June 2022	Initial Release

Technical Assistance

For technical assistance, contact Illumina Technical Support.

Website: www.illumina.com

Email: techsupport@illumina.com

Safety data sheets (SDSs)—Available on the Illumina website at support.illumina.com/sds.html.

Product documentation—Available for download from support.illumina.com.



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