

Instructions for use

Infinity[®] Gateway Suite

WARNING

For a full understanding of the performance characteristics of this software, the user should carefully read this manual before use.

**Alarm History Database
Software VF9.n**

General Information

Repairs/Modifications

Modifications of this software should be performed by Dräger-authorized service personnel or organizations, or properly trained technicians. Information about repairs can be obtained from Dräger or authorized service organizations.

Trademarks

The Dräger name and logo are registered trademarks of Dräger.

Infinity® is a registered trademark of Dräger.

Internet Explorer®, Microsoft®, Windows® operating system, Windows® 10, and Windows Server® 2016, and Excel® are registered trademarks or trademarks of Microsoft Corporation in the United States and/or other countries.

Safety

Instructions for use

WARNING

Strictly follow these instructions for use. Any use of the software requires a full understanding and strict observation of all portions of these instructions. The software is only to be used for the purpose specified under "Intended Use" on page 5 and in conjunction with appropriate patient monitoring. Observe all **WARNING** and **CAUTION** statements as rendered throughout this manual, and all statements on device labels.

Definitions

Certain paragraphs within these instructions are highlighted as **WARNING**, **CAUTION** or **NOTE** as follows:

WARNING

A **WARNING** statement provides important information about a potentially hazardous situation that, if not avoided, could result in death or serious injury.

CAUTION

A **CAUTION** statement provides important information about a potentially hazardous situation that, if not avoided, may result in minor or moderate injury to the user or patient or in damage to the equipment or other property.

NOTE

A **NOTE** provides additional information intended to avoid inconvenience during operation.

Connections to IT networks

Many medical devices manufactured by Dräger use networks to transmit patient data. Hospitals should refer to IEC 80001-1 before attempting to connect such medical devices to their IT networks.

Intended Use

The Infinity Gateway software applications are intended to provide clinicians with the capability of viewing patient data remotely via the Infinity network and for data exchange of select clinical and administrative information between the Infinity network and the hospital network.

Service-oriented device connectivity (SDC)

Service-oriented device connectivity (SDC) defines a communication architecture to establish distributed systems of medical devices in clinical environments, for example, high-acuity environments. The protocol is built on the principles of service-oriented medical device architecture (SOMDA) and is modeled after ISO/IEEE 11073. SDC-enabled devices facilitate interoperability across Dräger SDC-compatible products by allowing the request of unidirectional data and/or the remote control of pre-determined medical device functionality in a safe manner.

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Alarm History Database

The Alarm History Database is a web-based application that captures and maintains a history of Infinity patient monitor alarms on a Gateway server, and is configurable from 1 to 52 weeks (defaulted to 28 weeks). The Alarm History Database does not support SDC-only devices.

Client requirements

Before you can use your PC to access the web-based Alarm History Database, your PC must meet the following requirements:

- Your PC must have one of the following installed:
 - Windows 10 64-bit
 - Windows Server 2016 Standard
- Your PC must have the following installed:
 - Internet Explorer 11
- An Alarm History Database license: purchased, enabled, and available on the Infinity Gateway Server
- A web server installed on your network and accessible by your PC
- An available Gateway server on the network, which can be accessed locally or remotely and is configured for use by the Alarm History Database application
- A signed certificate for the client installed on the Gateway server to allow the Alarm History Database to make an https connection (recommended by Dräger).

Accessing the Alarm History Database

Access the Alarm History Database by the following URL, where the <server_name> is the Gateway PC server name:

//<server_name>/webviewer/alarmhistory/InfinityGatewayLogon.html

NOTE

Depending on the configuration of IIS and the Alarm History Database in the Infinity Gateway configuration, access can be through HTTP or HTTPS.

For US government users


Infinity Gateway Suite, which includes Alarm History Database, can be configured to meet the security requirements of a US government information system.

If this security applies, you will be required to complete the following steps before you are able to log into the Alarm History Database:

- 1 After entering the Alarm History Database URL or selecting it from the browser, a security dialog displays explaining the security conditions of the system.
- 2 Read the information, then select **Accept**.
- 3 Continue with the login process for the Alarm History Database provided on page 10.

If the session expires, you must repeat step 3. If the browser is closed, you must repeat steps 1-3. Refer to "Session timeout" on page 12 for more information.

Accessing the instructions for use

To view the *Instructions for use* in a browser window, click the  symbol in the top upper right of the screen (refer to the following figure).



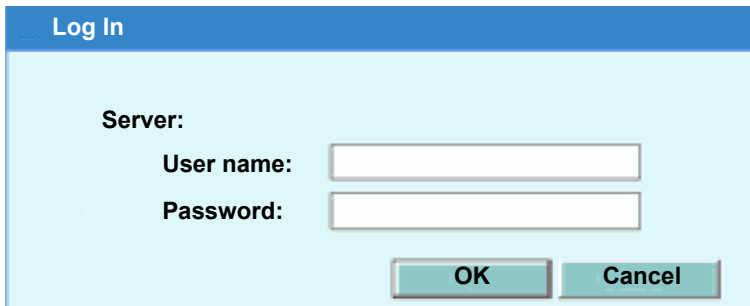
Logging into the Alarm History Database

NOTE

A group named AlarmHistory must exist on the Infinity Gateway. Users will not be allowed to log into the Alarm History Database unless they are members of the AlarmHistory group on the Infinity Gateway Server.

When the Infinity Gateway login page is loaded, a login page appears as shown in the following screen.

- 1 Enter your **User name**.
- 2 Enter your **Password**.
- 3 Click **OK**.



Log In

Server:

User name:

Password:

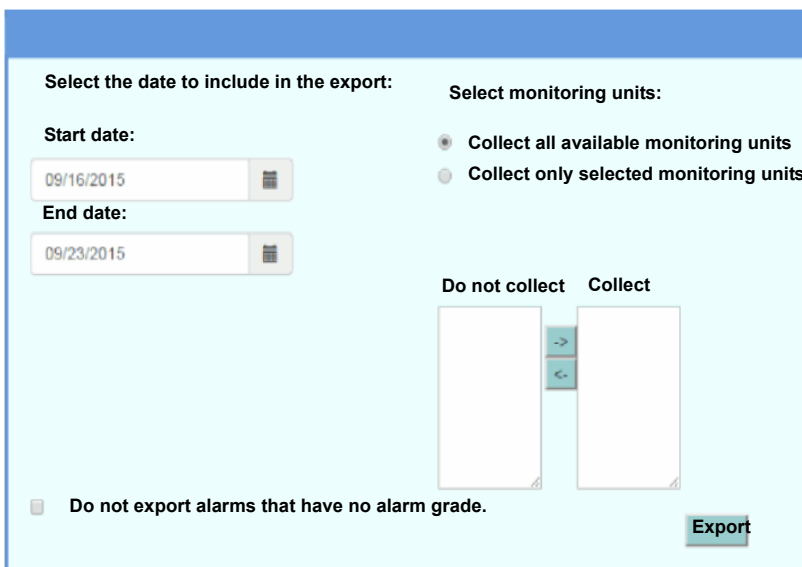
OK **Cancel**

The Infinity Alarm History Database is an information technology tool and is intended for the gathering of alarm information from the Infinity network. The receipt of alarms cannot be guaranteed. The Alarm History Database is not intended to influence clinical decisions.


NOTE


A note appears in the web page footer area if the server fails to return any language information when a language request has been made by the client.

After a successful login, the following screen appears:



Select the date to include in the export:



Start date: 

End date: 

Select monitoring units:

- Collect all available monitoring units
- Collect only selected monitoring units

Do not collect **Collect**

Do not export alarms that have no alarm grade.

Export

Feature	Description
Start date	Earliest date from which recorded alarms are included in the report.
End date	Latest date from which recorded alarms are included in the report.
Collect all available monitoring units	A monitoring unit is a grouping of patient monitors. Your biomed can help identify what monitoring unit covers the beds you are responsible for.
Collect only selected monitoring units	
Do not export alarms that have no alarm grade.	When a Gamma patient monitor is used, it is possible to get false alarms with an alarm grade of None . This option will remove these alarms from the exported report.

Session timeout

If the system is configured for a session timeout due to inactivity, a message displays at the bottom of the browser as the system approaches this limit. This message states that the session is about to expire due to inactivity and provides the time remaining (in minutes) before you will be logged out of the application. If the system expires, repeat the log in procedure. To avoid the timeout and continue the session, click anywhere within the browser window.

Exporting Alarm History data

The Alarm History report contains a list of all alarms received by the Gateway during the selected time period for the selected monitoring units.

Complete the following steps to select start and end dates for data collection and to select monitoring units for alarm history data.

- 1 Click the calendar symbol in the **Start date** field.
- 2 Select the desired date to begin alarm capture.
- 3 Click the calendar symbol in the **End date** field.
- 4 Select the desired date to end alarm capture.
- 5 Click **Collect all available monitoring units** to automatically move all available monitoring units to the **Collect** box.

You can highlight individual monitoring units in the **Collect** box and move these to the **Don't collect** box. You may also highlight individual monitoring units in the **Don't collect** box and move these to the **Collect** box.

- 6 Click **Export** to request the Infinity Gateway web server to export data from the Alarm History Database. The file will be saved in your browser's default download folder. This will export a tab separated text file with a filename formatted as follows:

AlarmHistoryData-<start_date>-<end_date>.txt

Where **<start_date>** is the start date of the requested alarm data, and **<end_date>** is the end date of the requested alarm data. The dates are formatted as: MM_DD_YYYY.

NOTE

This operation may take some time for databases with a large number of alarm entries.

NOTE

If no monitoring units are selected, or start and end dates are not filled in, then one or both of the following message appears in the footer area of the web page:

No monitoring unit is selected.

Error: Export start and end date must be entered.

Output includes the following:

- Alarm history data for the server *<server name>*
- Number of monitoring units
- Start date for the alarm history data report
- End date for the alarm history data report

Column	Description
local_time	The local time is taken from the Gateway server at the time the entry is written.
bed_label	Alarming monitor
pat_ID	Patient ID
mon_unit	Monitoring unit (network group to which monitor belongs)
care_unit	Care unit to which the monitor belongs
alarm_grade	Alarm Grade (HIGH, MEDIUM, or LOW)
alarm_state	Alarm State (ACTIVE, REACTIVE, SILENCED, LATCHED)
alarm_message	Alarm Message
param_id	Parameter Label
param_value	Parameter Value
param_uom	Parameter Units of measure
param_upper_lim	Parameter Upper Limit

Column	Description
param_lower_lim	Parameter Lower Limit
onset_tick	Time of alarm, in proprietary format, from monitor
alarm_duration	Alarm Duration
change_time (UTC)	Time of alarm, in UTC (Coordinated Universal Time), from the Gateway server at the time the entry is written.
change_tick	Time of alarm state change, in proprietary format, from monitor
aborted	Indicates how the alarm condition was cleared: <ul style="list-style-type: none"> ● 0: Acknowledged – indicates the alarm was acknowledged at bedside ● 1: Timeout – no updates were received for this alarm for 10 seconds ● 2: Shutdown – when the service is shutdown all alarms are cleared

Using Alarm History data

The resulting text file can now be imported into a tool for further analysis. One such tool you can use is Microsoft Excel. Import the text file into Excel as follows:

- 1 Open Excel.
- 2 Select **File > Open**.
- 3 Search for text files in the folder designated for web downloads.
- 4 Follow the Text Import Wizard and select **Delimited** as file type, and **Tab** as the delimiter.
- 5 Analyze the imported data.


NOTE

The format of cells containing the date and time may need to be adjusted to see all data.

Storing Alarm History data

The Alarm History Database can be configured during setup to collect alarm history for up to one year in one week increments. Only data collected in the configured period of time is stored. Once past the configured time, the data older than the configured time is deleted. Dräger recommends that you regularly export alarm history data and save it for long-term storage, as required by your institution.

Logging off

To log off the Alarm History Database, click the  symbol in the top upper right of the screen (refer to the following figure).



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These instructions for use only apply to **Infinity Gateway® Suite Alarm History Database VF9.n** with the Serial No.:



If no Serial No. has been filled in by Dräger, these instructions for use are provided for general information only and are not intended for use with any specific machine or unit.

This document is provided for customer information only, and will not be updated or exchanged without customer request.



Directive 93/42/EEC
concerning Medical Devices



Draeger Medical Systems, Inc.

3135 Quarry Road
Telford, PA 18969-1042
U.S.A.



(215) 721-5400
(800) 4DRAGER
(800 437-2437)

FAX

(215) 723-5935
<http://www.draeger.com>



Distributed in US by

Draeger, Inc.

3135 Quarry Road
Telford, PA 18969-1042
U.S.A.



(215) 721-5400
(800) 4DRAGER
(800 437-2437)

FAX

(215) 723-5935
<http://www.draeger.com>



In Europe, Middle East, Africa, Latin America, Asia Pacific distributed by

Drägerwerk AG & Co. KGaA

Moislinger Allee 53 – 55
23542 Lübeck
Germany



+49 451 8 82-0



FAX

+49 451 8 82-20 80



<http://www.draeger.com>

3703556 – RI 00 en

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Edition: 1 – 2019-03

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