



Digistat[®] for Infusion Monitoring

Central and Mobile Infusion Monitoring solution which can help diminish the problem of alarm fatigue¹.

Alarm fatigue, or the reduced response to potentially serious patient events due to frequent non-actionable alarms², presents a potentially lethal challenge to patient safety.

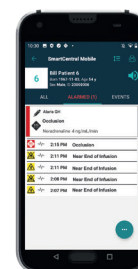
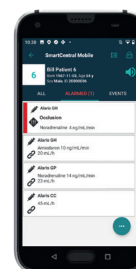
Digistat[®] for Infusion Monitoring is a customised solution build from Digistat[®] Care by ASCOM which connects BD infusion pumps and can assist clinicians to distinguish between critical and noncritical alarms when confronted by simultaneous and multiple alerts.

Central Infusion Monitoring and Alarms Management

Near real-time collection of data from infusion pumps allows monitoring of ongoing infusions in the ward from a central nursing station or a wall-attached screen and allows review of key information and alarm conditions. This allows for a potentially smoother workflow, supporting clinical activity planning, and prompt reaction to alarms improving infusion continuity.

Fluid Balance reporting

The Fluid Balance module provides a precise fluid balance for each patient recording fluid volumes administered throughout the day. The automation of this process can help intensivists save time whilst improving accuracy of fluid balance assessments.



Smart Central

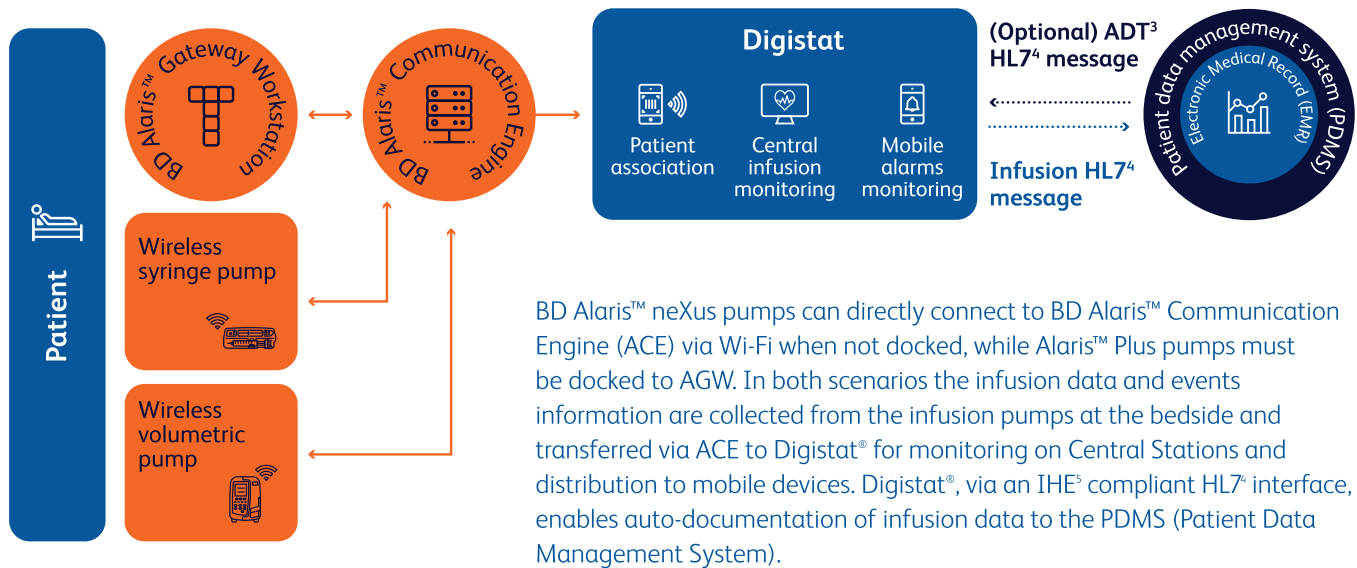
Alert messages are delivered in near real-time to clinicians' mobile devices giving instantly accessible information on the patient, the device and a full description of the alarm. Smart Central can contribute to workflow effectiveness by reducing unnecessary work interruptions, and potentially improving response time to critical patient events.

Care Plan

Our care plan is based on a subscription of the annual service maintenance agreement which delivers multiple updates through the year from Ascom for a state-of-the-art cybersecurity and up to date features.



Digistat® for Infusion Monitoring: Data Workflow



BD Alaris™ neXus pumps can directly connect to BD Alaris™ Communication Engine (ACE) via Wi-Fi when not docked, while Alaris™ Plus pumps must be docked to AGW. In both scenarios the infusion data and events information are collected from the infusion pumps at the bedside and transferred via ACE to Digistat® for monitoring on Central Stations and distribution to mobile devices. Digistat®, via an IHE⁵ compliant HL7⁴ interface, enables auto-documentation of infusion data to the PDMS (Patient Data Management System).

Specifications

Client computer

Minimum hardware requirements

- x64 processor (for example: Intel® i3);
- Memory: 4 GB RAM;
- Hard Disk: at least 60 GB of available space;
- Monitor: 22" display, 1920x1080 minimum resolution, with integrated speaker.
- Mouse or other compatible device; Touch screen recommended;
- Ethernet interface 100 Mb/s (or higher).

Operating system:

- Microsoft® Windows® 8.1 x86/x64 Professional;
- Microsoft® Windows® 10;
- Microsoft® Windows® 11.

Application Server

Minimum hardware requirements (small installation, 20 beds, 4 devices each):

- x64 processor (for example: Intel® i5) with 4 cores;
- Memory: 8 GB RAM;
- Hard Disk: 120 GB of available space;
- Ethernet interface 100 Mb/s.

Operating system (valid also for Database Server):

- Microsoft® Windows® Server 2016;
- Microsoft® Windows® Server 2019;
- Microsoft® Windows® Server 2022.

Database Server

Minimum hardware requirements (small installation, 20 beds, 4 devices each):

- x64 processor (for example: Intel® i5) with 4 cores;
- Memory: 8 GB RAM;
- Hard Disk: 100 GB of available space;
- Backup Hard Disk: 1TB of available space;
- Ethernet interface 100 Mb/s.

System Software

One of the following versions of Microsoft® SQL Server must be installed:

- Microsoft® SQL Server 2016;
- Microsoft® SQL Server 2019.
- Microsoft® SQL Server 2022;
- Microsoft® SQL Server 2022 Express.

Digistat Mobile

Digistat mobile is compatible with Android™ devices from version 5.1 up to 13.0. The application is designed to be compatible with other Android™ devices with a minimum screen size of 3.5", and compatibility with a specific device must be verified before clinical use.

Supported Infusion Pumps

BD pumps from the BD Alaris™ neXus platform and BD Alaris™ Plus platform* (*when connected via an Alaris™ Gateway Workstation)

NOTE: Hardware requirements should be adjusted considering several aspects such as the size of the actual implementation and whether a single server will be used as both Application Server and Database Server. More information for the optimal configuration are present in the product documentation.

1 Chromik et Al. Computational approaches to alleviate alarm fatigue in intensive care medicine: A systematic literature review. Front Digit Health. 2022 Aug 16;4:843747.

2 Cho et Al. Clinical Alarms in Intensive Care Units: Perceived Obstacles of Alarm Management and Alarm Fatigue in Nurses. Healthc Inform Res. 2016 Jan;22(1):46-53.

3 ADT: Admission, Discharge & Transfer

4 HL7: Health Level 7

5 IHE: Integrating the Healthcare Enterprise



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