

Control Bar and DIGISTAT® environment

DIGISTAT® Version 4.3

User Manual

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ASCOM UMS srl unipersonale Via Amilcare Ponchielli 29, 50018, Scandicci (FI), Italy Tel. (+39) 055 0512161 – Fax (+39) 055 829030 www.ascom.com DIGISTAT[®] version 4.3 Copyright © ASCOM UMS srl. All rights reserved. No part of this publication can be reproduced, transmitted, copied, recorded or translated, in any form, by any means, on any media, without the prior written consent of ASCOM UMS.

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Your Licence Agreement – provided with the product - specifies the permitted and prohibited uses of the product.

WARNING

The information contained herein is subject to change without further notice. ASCOM UMS holds the right to make changes to all described products in order to improve its functions and performance.

LICENSES AND REGISTERED TRADEMARKS

DIGISTAT[®] is produced by ASCOM UMS srl http://www.ascom.com DIGISTAT[®] is a Trademark of ASCOM UMS srl Information is accurate at the time of release. All other trademarks are the property of their respective owners.

DIGISTAT[®] product is **C** marked according to 93/42/CEE directive ("Medical devices") amended by the 2007/47/EC directive.

ASCOM UMS is certified to UNI EN ISO 9001:2008 and UNI CEI EN ISO 13485:2012 standards for the design, development, production, installation and servicing of software.

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1. Using the manual

1.1. Aims

The effort which has gone into creating this manual aims to offer all the necessary information to guarantee a safe and correct use of the DIGISTAT[®] system and to allow the manufacturer identification. Furthermore this document aims to describe every single part of the system, it also intends to offer a reference guide to the user who wants to know how to perform a specific operation and a guide to the correct use of the system so that improper and potentially hazardous uses can be avoided.

The use of DIGISTAT[®] requires a basic knowledge of information systems concepts and procedures. The comprehension of this manual requires the same knowledge.

Always remember that DIGISTAT[®] systems are highly configurable, in order to satisfy the requirements of every user. This extreme flexibility makes a description of <u>all</u> the system's possibilities impossible. Hence the decision to describe a "probable", or "standard" configuration, so that we can explain what we feel to be the fundamental parts of the system, and their purposes. Consequently, the user may come across descriptions of pages and functions that are different in the configuration he is using.

To be more precise, the differences may concern

- 1) The appearance of the page (a page may appear different from that shown here).
- 2) The functions (certain operations may or may not be enabled).
- 3) The flow of use (certain procedures can be performed following a different sequence of pages and operations).

Care has been taken to highlight and emphasize this concept every time the configuration possibilities are such as to prevent a univocal description of the system operation.

Should you require more details regarding a specific configuration, please contact your system administrator or the ASCOM UMS technical support service.

Remember that, by specific request, ASCOM UMS is able to provide custom-made documentation for every specific type of procedure and/or configuration.

1.2. Characters used and terminology

The use of DIGISTAT[®] systems requires a basic knowledge of the most common IT terms and concepts. In the same way, the comprehension of this manual is subject to such knowledge.

Remember that the use of DIGISTAT[®] systems must only be granted to professionally qualified and properly trained personnel.

When consulting the on-line version as opposed to the paper version, cross references in the document work like hypertextual links. This means that every time you come across the reference to a picture ("Fig 7", for example) or to a paragraph ("paragraph 4.4", for example), you can click the reference to directly access that particular figure or that particular paragraph.

Every time reference is made to a button, this is written "**Bold**". For example, in expressions like:

Click the "Update" button,

"**Update**" is a button featured on the page being described. Where possible, it is clearly indicated in a figure (with cross references as "See Fig 7 **A**"

The character > is used to indicate an action which the user must perform to be able to carry out a specific operation.

The character \bullet is used to indicate the different elements of a list.

1.3. Symbols

The following symbols are used in this manual.

Useful information

This symbol appears alongside additional information concerning the characteristics and use of DIGISTAT[®]. This may be explanatory examples, alternative procedures or any "extra" information considered useful to a better understanding of the product.

Caution!

!

The symbol is used to highlight information aimed at preventing improper use of the software or to draw attention to critical procedures which might cause risks. Consequently, it is necessary to pay extreme attention every time the symbol appears.

2. Introduction to DIGISTAT®

The DIGISTAT® clinical modules suite is an advanced patient data management software system that is designed specifically for use by clinicians, nurses and administrators.

The software package comprises a set of modules that can either work alone or be fully integrated to provide a complete patient data management solution.

From the Intensive Care Unit to the Ward, from the Operating Room to the Administrative Department, DIGISTAT[®] can be used in a wide range of environments.

DIGISTAT[®]'s modular architecture and extensive customization capabilities allow you to build your own patient data management system and to expand the system to meet your new demands, when required.

DIGISTAT[®] system can only be accessed by entering username and password. Every user is defined by a detailed profile, and can access only the allowed areas. A record of every action performed is automatically generated by the system.

2.1. Modular architecture

"Modular Architecture" means that different products (or modules) having particular goals can be implemented within the same software environment (DIGISTAT[®] in the present case) that is characterized by a determined graphic design, general goals and terms of use.

Different modules can be added in different times, and in a way that is agreed with the user. The resultant software suite fits to the specific user needs and can change in time, according to the possible changes in the user needs.

2.2. Intended use

The DIGISTAT Software (hereafter "Product") acquires records, organizes, transmits and displays patient information and patient related data, including data and events from connected clinical devices and systems as well as information entered manually, in order to support caregivers in diagnosis and treatment of patients as well as to establish electronic patient records.

- The Product produces configurable electronic patient records based on acquired data and information, as well as on manual and automated documentation of the clinical unit's activity.
- The Product provides automated, secondary visual and audible annunciating and displaying of acquired data, events, current status and operating conditions of connected clinical devices and systems on designated display device(s). The Product can also be configured to forward data and information about events, statuses and operating conditions to the Ascom messaging system.
- The Product supports the improvement of nursing workflows related to the management of alarms from the connected clinical devices and systems.

- The Product supports documentation of the prescribed therapy, of its preparation and of its delivery.
- The Product supports the recording, validation and display of vital signs charting based on the acquired data and information.
- The Product provides configurable reports, charts and statistics based on recorded data for use by healthcare professionals to analyze the unit's efficiency, productivity, capacity and resource utilization, and the quality of care.

The Product **does not** replace or replicate the original display of data and alarms of the connected devices and systems, and **does not** control, monitor or alter the behavior of these connected devices and systems, or their associated alarm annunciations.

The Product **is not** intended to be used for direct diagnosis or monitoring of vital physiological parameters.

The Product is intended for use by trained healthcare professionals within a hospital/clinical environment and relies on proper use and operation of the IT and communication infrastructure in place at the healthcare facility, the display devices used and the connected clinical devices and systems.

Additionally, the Product provides specific functions and interfaces intended to be used by non-professional users in remote locations for non-clinical purposes for display of information, reports, charts and statistics, without any possibility to add, change or delete any information or data.

The Product is a stand-alone software that is installed on servers and computers, which shall comply with the technical hardware and software specifications provided with the Product.

2.2.1. Safety Advisories

The Product, even if designed to provide very high accuracy, cannot guarantee the perfect correspondence of the acquired data, nor can it substitute the direct verification of the same by the User.

The User shall base therapeutic or diagnostic decisions and interventions solely on the direct examination of the original source of information. It is exclusive responsibility of the User to check that the information displayed by the Product is correct and to make appropriate use of it.

In any case, the Product must be used in compliance with the safety procedures reported in the user documentation accompanying the Product.

Only printouts that are signed with digital or ink signature by authorized medical professionals shall be considered valid clinical records. In signing the aforementioned printouts, the User certifies that he/she has checked the correctness and completeness of the data present in the document. Only these signed documents are a valid source of information for diagnostic or therapeutic

processes and/or procedures.

The Product can be used in the proximity of the patient and to the connected clinical devices in order to speed up the data entry, to reduce the probability of errors and to allow the User to verify the correctness of the data through the immediate comparison with the actual data and activities.

When entering patient related data the User shall verify that the patient identity, hospital department/care unit and bed displayed in the Product are correct. This verification is of utmost importance in case of critical interventions as, for instance, drug administration.

The responsible organization must establish and implement appropriate procedures to ensure that potential errors occurring in the Product and/or in the use of the Product are promptly detected and corrected and do not constitute a risk to the patient and the operator. These procedures depend on the configuration of the Product and the method of use preferred by the organization.

The Product may provide, depending on the configuration, access to information on drugs. The responsible organization shall, initially and periodically, verify that this information is current and updated.

The Product does not substitute a "Nurse Call" system and does not in itself constitute a "Distributed Alarm System". Therefore, it must not be used in place of the direct monitoring of the alarms generated by the medical devices. This limitation is due, among the other reasons, to the specifications and limitations of the communication protocols of the medical devices.

In case some devices used for the Product are located in the patient area or are connected to equipment present in the patient area then the responsible organization shall ensure that the whole combination complies with the international standard IEC 60601-1 and any additional requirement established by the local authorities.

Use of the Product must be granted, by means of specific configuration of the passwords and active surveillance, only to User 1) trained according to Product indications by personnel authorized by the manufacturer or distributors and 2) in possession of the professional qualifications to correctly interpret the information supplied and to implement the appropriate safety procedures.

The Product is a stand-alone software that can run on standard computers and/or standard mobile devices connected to the hospital local network. The computers, devices and the local network shall be adequately protected against cyber-attacks.

The Product shall be installed only on computers and devices fulfilling the minimum hardware requirements and on supported operating systems.

PATIENT POPULATION

The minimum patient height is 20 cm. The maximum patient height is 250 cm. The minimum patient weight is 0,2 Kg. The maximum patient weight is 250 Kg.

In using the PRODUCT, the User declares to have understood and accepted the characteristics, limits and responsibilities contained herein and in the user manual. Should the User consider any of these clauses to be unacceptable, he must immediately stop using the PRODUCT and inform promptly the system administrator.

2.2.2. "Off-label" use of the Product

Every use of the Product outside what explicitly stated in the "Intended use" (usually referred to as "offlabel" use) is under the full discretion and responsibility of the user and of the Responsible Organization. The manufacturer does not guarantee in any form the Product safety and suitability for any purpose when the Product is used outside what explicitly stated by the "Intended use".

2.3. Manufacturer's responsibility

The **C** seal is a safety warranty of the product introduced on the market. ASCOM UMS is responsible for the product's safety, reliability and performance only if:

- Use and maintenance comply with User Manual instructions;
- This Manual is stored in good conditions and all sections are readable;
- Configurations, changes and repairs are only performed by personnel formed and authorized by ASCOM UMS ;
- The Product's usage environment complies with safety regulations;
- The environment's wiring system is highly efficient and complies with related regulations.

WARNING!

Should the supply cause the establishment of a "medical electrical system" through electrical and functional connection of devices, the hospital organization is in charge of the required safety verification and acceptance tests, even in case that ASCOM UMS performed in whole or in part the wiring and the necessary connections.

2.4. Product tracking

In order to ensure device tracking and on-going safety and efficiency checks on site, in compliance with ISO 9001 and EN 13485 quality standards and European law on medical devices 93/42/EEC, amended by the directive 2007/47/EC, the former owner is recommended to inform ASCOM UMS/Distributor about any ownership transfer by giving written notice stating the product, former owner and new owner identification data.

Device data can be found in the product labelling (either paper label provided at installation time or "About box" displayed within the product – see paragraph 5.8.5).

In case of doubts/questions about product labelling and/or product identification please contact ASCOM UMS/Distributor technical assistance (for contacts see paragraph 6).

2.5. Post-market surveillance

The **CE** marked device is subject to a post-market surveillance - which ASCOM UMS, its distributors and dealers must provide for each marketed copy - concerning actual and potential risks, either for the patient or the User, during the Product's life cycle.

In case of deterioration of the device characteristics, poor performance or inadequate user instructions that have been or could be a hazard to either the patient or User' health or to environmental safety, the User must immediately give notice to either ASCOM UMS, one of its branches or nearest authorised dealer.

The device details can be found on its labelling.

On reception of a user feedback ASCOM UMS will immediately start the review and verification process and, when required, solve the reported non conformity.

2.6. Product life

The life time of the product does not depend on wearing or other factors that could compromise safety. It is influenced by the obsolescence of the hardware (PC and server) and is therefore assessed as 5 years since the release date of the product specific version, period in which the manufacturer is committed in keeping technical documentation and provide technical support.

2.7. CE mark and regulation conformity

ASCOM UMS DIGISTAT[®] product is **C** marked according to 93/42/EEC directive ("Medical devices"), amended by the directive 2007/47/EC, and is therefore compliant with the EU basic safety standards there specified (received in Italy with Legislative Decree n. 37/2010 and subsequent variants and integrations).

ASCOM UMS declines all responsibility for the consequences on the safety and efficiency of the device determined by technical repairs or maintenance not performed by its own Technical Service personnel or by ASCOM UMS-authorized technicians.

The attention of the user and the legal representative of the health structure where the device is used is drawn to their responsibilities, in view of the legislation in force on the matter of safety in the workplace (Italian Legislative Decree no. 81 of 09/04/2008) and of on-site security for hazardous or potentially hazardous incidents.

The ASCOM UMS Service is able to offer clients the support needed to maintain the long-term safety and efficiency of the devices supplied, guaranteeing the skill, instrumental equipment and spare parts required to guarantee full compliance of the devices with the original construction specifications over time.

3. Software/Hardware specifications

The information provided in this chapter covers the manufacturer's obligations identified by the IEC 80001-1:2010 standard (Application of risk management for IT-networks incorporating medical devices).

According to the IEC 60601-1 regulation, for "bedside" PCs, or for PCs positioned within the "Patient Area", the use of "Medical grade" devices is required. In these places medical grade PANEL PCs are often used. If explicitly requested, ASCOM UMS is able to provide information on some suitable devices of this kind.

3.1. Bedside

3.1.1. Hardware

Minimum hardware requirements:

- Intel® I3 processor (or faster)
- Memory: 4 GB RAM
- Hard Disk: at least 60 GB of available space
- Monitor: 1024 x 768 or higher (1280 x 1024 suggested, 65.000 colors minimum)
- Mouse or other compatible device
- Ethernet interface 100 Mb/s (or higher)
- CD/DVD Drive or possibility to copy the installation files

3.1.2. Operating System

Microsoft Corporation Windows 7 SP1 x86/x64 Professional Microsoft Corporation Windows 8.1 x86/x64 Professional Microsoft Corporation Windows 10

3.2. Central

3.2.1. Hardware

Minimum hardware requirements:

- Intel® I3 processor (or faster)
- Memory: 4 GB RAM
- Hard Disk: at least 60 GB of available space
- Monitor: 1024 x 768 or higher (1280 x 1024 suggested, 65.000 colors minimum)
- Mouse or other compatible device
- Ethernet interface 100 Mb/s (or higher)
- CD/DVD Drive or possibility to copy the installation files

3.2.2. Operating System

Microsoft Corporation Windows 7 SP1 x86/x64 Professional Microsoft Corporation Windows 8.1 x86/x64 Professional Microsoft Corporation Windows 10

3.3. Server

3.3.1. Hardware

Minimum hardware requirements:

- Intel® I5 processor (or faster)
- Memory: 4 GB RAM (8 GB recommended)
- Hard Disk: at least 120 GB of available space
- Monitor: 1024 x 768 or higher (1280 x 1024 suggested, 65.000 colors minimum)
- Mouse or other compatible device
- Ethernet interface 100 Mb/s (or higher)
- CD/DVD Drive or possibility to copy the installation files

3.3.2. Operating System

Microsoft Corporation Windows Server 2012 R2

3.3.3. System Software

Microsoft SQL Server 2012/2014

3.4. Handheld device

The DIGISTAT[®] Smart Central Mobile application has been verified on the Ascom Myco (SH1) device, with Android version 4.4.2 (build from 5.3.0 to 6.5.1). The application may be compatible with other Android devices, but such compatibility shall be tested and validated before the release.

WARNING!

To correctly use DIGISTAT[®], the Microsoft Windows Display Scaling must be set to 100%. Different settings may prevent the product from starting or cause malfuctions in the way DIGISTAT[®] is visually displaied. Please refer to the Microsoft Windows documentation for instructions on the Display Scaling settings.

WARNING!

The minimum vertical resolution of 768 is supported only if DIGISTAT[®] is configured to run in full-screen mode or if the Windows traybar is in Auto-hide mode.

WARNING!

The computers must comply with the regulations regarding the environment where they are installed. Check compliance with competent authorized personnel.

WARNING!

In compliance with on-going product improvement policies pursued by ASCOM UMS, this User Manual's specifications can be changed at any moment. Please contact the Firm's authorized representative concerning market availability of the product range presented in this User Manual.

WARNING!

The computers and the other connected devices must be suitable for the environment in which they are used and must therefore comply with the relevant regulations. The personnel in charge should perform the adequate compliance checks.

WARNING!

It is recommended to follow the manufacturer instructions for storage, transport, installation, maintenance and waste of third parties hardware. These procedures must be performed only by qualified and authorized personnel.

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WARNING!

!

The responsible organization shall implement for the DIGISTAT[®] workstations a date/time synchronization mechanism to a reference source.

3.5. Firewall and Antivirus

To protect the DIGISTAT[®] system from possible cyber-attacks, it is necessary that:

- the Windows[©] Firewall is active both on the client PCs and the server;
- an antivirus software is installed and regularly updated both on the client PCs and the server.

The Responsible Organization shall ensure that these two protections are activated. ASCOM UMS tested the Product with ESET Antivirus but, considering the strategies and policies already existing in the hospital, the actual choice of the antivirus is left to the Responsible Organization. ASCOM UMS cannot ensure that the DIGISTAT[®] system is compatible with any antivirus or antivirus configuration.

WARNING!

Some incompatibilities have been reported between parts of DIGISTAT[®] and the Kaspersky antivirus. The solution to these incompatibilities required the definition of specific rules in the antivirus itself.

WARNING!

It is suggested to keep open only the TCP and UDP ports actually needed. These may change according to the system configuration. Please refer to the ASCOM UMS technical assistance for more information.

3.6. Local network features

This paragraph lists the features of the local network on which DIGISTAT[®] is installed in order to guarantee the system's full functionality.

- DIGISTAT[®] uses a TCP/IP traffic protocol.
- The LAN must not be congested and/or full loaded.
- DIGISTAT[®] requires at least a 100 Mbps LAN available to the end user. 1 Gbps backbones would be worthwhile.
- There must not be filters in the TCP/IP traffic between workstations, server and secondary devices.
- If the devices (server, workstations and secondary devices) are connected to different subnets there must be routing in these subnets.

- It is recommended to adopt redundancy strategies to ensure network service availability in case of malfunction.
- It is recommended to schedule together with ASCOM UMS the maintenance calendar in order to let ASCOM UMS or the authorized Distributor efficiently support the healthcare structure in managing the possible disservices caused by maintenance activities.

ATTENTION!

If the network does not match the requested features, DIGISTAT[®] performance gradually deteriorates until timeout errors occur. The system may finally switch to "Recovery" mode.

ATTENTION!

In case a WiFi network is in use, given the possible intermittence of the WiFi connection, network disconnections are possible, that cause the activation of the "Recovery Mode" and the consequent system unavailability. The Responsible Organization shall ensure an optimal network coverage and stability, and train the personnel in the management of these temporary disconnections.

3.6.1. DIGISTAT® impact on the hospital network

DIGISTAT[®] impacts the local network of the healthcare structure. This paragraph provides information on the traffic generated by DIGISTAT[®] on the network in order to make it possible for the structure to evaluate and analyse the risks related to the introduction of DIGISTAT[®].

The bandwidth used by a DIGISTAT[®] system depends on many different factors. The most important are:

- Number of workstations,
- Number of workstations configured as central stations,
- Number and type of devices dedicated to data acquisition (either only or as well dedicated).
- Interfaces with external systems,
- DIGISTAT[®] configuration and mode of use.

In a configuration with 100 clients the following bandwidth occupation values can be indicatively predicted

Average: 0.8 - 6 Mbit/s

Pitch: 5 – 25 Mbit/s

4. Before starting

4.1. Installation and maintenance warnings

The following warnings provide important information on the correct installation and maintenance procedures of the DIGISTAT[®] product. They must be strictly respected.

DIGISTAT[®] <u>must absolutely be installed and configured by specifically trained and authorized personnel</u>. This includes ASCOM UMS (or authorized Distributor) staff and any other person specifically trained and authorized by ASCOM UMS/Distributor. Similarly, maintenance interventions and repairs on DIGISTAT[®] must absolutely be performed according to the ASCOM UMS company guidelines only by ASCOM UMS/Distributor personnel or other person specifically trained and authorized by ASCOM UMS/Distributor.



DIGISTAT[®] <u>must absolutely be installed and configured by specifically trained and</u> <u>authorized personnel</u>. This includes ASCOM UMS (or authorized Distributor) staff and any other person specifically trained and authorized by ASCOM UMS/Distributor.

- Only use devices approved by ASCOM UMS bearing the $\mathbf{C}\mathbf{E}$ mark.
- Only use devices approved by ASCOM UMS. It is not possible to install devices without proper training.
- Only use devices approved by ASCOM UMS. There is a risk of injury to the patient and operators.
- Scrupulously observe the manufacturer's instructions for the hardware installation.
- Make provision for regular maintenance of the inner disk and checks on the operating system.
- The DIGISTAT[®] USB dongle must be stored and used in eligible environmental conditions (temperature, humidity, electromagnetic fields etc.), as specified by the dongle manufacturer. These conditions are equivalent to those required by common office electronic devices.
- Within "Patient Area" (see Fig 1) it is recommended to use washable waterproof devices.
- Within "Patient Area" (see Fig 1) it is recommended to use washable, sterilizable rubber keyboards and mouse devices. For "touch screens" capacitive technology (insensitive if used with gloves) is recommended because it discourages using gloves (sometimes contaminated).

4.2. Cleaning

Cleaning and disinfection procedures of hardware components must comply with the usual cleaning/disinfection procedures that the hospital adopts for all the hospital's assets (both fixed and moveable)



Check the suggested cleaning procedures in the manuals of the hardware products that accompany DIGISTAT[®].

4.3. Precautions and warnings

!

To guarantee the reliability and security of the software during use, strictly observe the instructions given in this section of the manual.

!

Place the PC in order to ensure adequate anterior and posterior ventilation. Failure to meet hardware ventilation requirements may cause equipment failure, thus jeopardizing patient data management system functions.

!

The holder of the hardware (individual, hospital or institution) and the user of the device and the software are personally responsible for ensuring that the devices follow a meticulous maintenance schedule to guarantee safety and efficiency and reduce the risk of malfunctioning and the occurrence of possible hazards to the patient and user.

!

The device and software are destined for use only under the supervision of properly trained and authorized medical personnel.

4.3.1. Electrical safety

The hardware devices used together with DIGISTAT[®] (PC, display, barcode reader, etc...) must comply with therelevant CC mark prescriptions, in particular with those indicated by the 2006/95/EC directive and subsequent amendments.

The device complies with the characteristics envisaged by the CE marking in accordance with directive 2006/95/EC and subsequent amendments.

.

The electrical devices installed within the Patient Area must have the same security level of an electromedical device.

It is moreover recommended to perform all the the relevant measurements on the leakage currents of the electro-medical system in use (PC, display and possible connected devices). The hospital structure is responsible for these measurements.

!

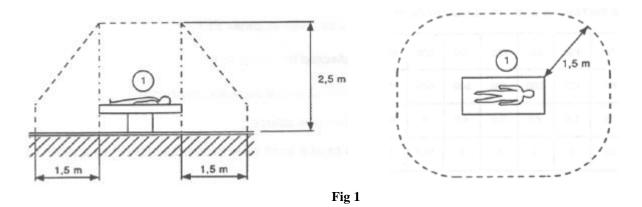
The hospital structure is responsible for all the required measurements on the electrical safety of the electro-medical system in use (PC, display and other possible connected devices) taking into consideration the actual environment in which the system is used.

4.3.2. Patient Area

The term "Patient Area" or "Patient Environment" means the space in which intentional or unintentional contact may take place between the patient and parts of the system (any device) or between the patient and other people who may come into contact with parts of the system (e.g., a physician who touches the patient and other devices at the same time). This definition applies when the patient's position is pre-determined: in other cases, all the possible positions of the patient must be taken into consideration.

!

According to IEC 60601-1 standard, every computer placed within the "Patient Area" must be a medical grade device.



It is the direct responsibility of the hardware licensee (individual, hospital or institution) to perform all the required measurements on the electrical safety of the electro-medical system in use (PC, display and other possible connected devices) considering the environment in which it is used.

WARNING!

Should the supply cause the establishment of a "medical electrical system" through electrical and functional connection of devices, the hospital organization is in charge of the required safety verification and acceptance tests, even in case that ASCOM UMS/Distributor performed in whole or in part the wiring and the necessary connections.

4.3.3. Electromagnetic compatibility

The hardware devices used together with the DIGISTAT[®] system (PC, display, barcode reader, etc...) must comply with electromagnetic emission and immunity characteristics envisaged by the

C \in seal, in compliance with Directive 2004/108/EC and following amendments.

4.3.4. Devices eligibility

It is mandatory to use devices that are suitable for the environment in which they are installed and used (meeting, for instance, the directives LVD 2006/95/EC, EMC 2004/108/EC, penetration by liquids, et al.).

4.4. Privacy Policy

The following precautions should be taken in order to protect the privacy of users and patients, and to ensure that personal data are processed by respecting data subjects' rights, fundamental freedoms and dignity, particularly with regard to confidentiality, personal identity and the right to personal data protection.

i

"Sensible data" are those personal data that reveal the race, the religious and/or philosophic beliefs, the personsal political opinions, the support to political parties and/or trade unions and/or associations and organizations having political, religious or philosophical aims. Moreover, "sensibile data" are those data providing information on the health conditions and/or the sexual life.

!

Please read the following precautions carefully and strictly observe them.

- The workstations must not be left unattended and accessible during work sessions. It is recommended to log out when leaving a workstation. See paragraph 5.5 for log out procedure.
- Sensible data saved in the system, as passwords or users' and patients' personal data, must be protected from possible unauthorized access attempts through adequate protection software (antivirus and firewall). It is the hospital structure responsibility to implement this software and keep them updated.
- The user is advised against the frequent use of the lock function (paragraph 5.5.2). Automatic log out allows to protect the system from unauthorized accesses.

!

In some circumstances personal and/or sensible data are transmitted in non-encrypted format and using a connection which is not phisycally secure. An example of this kind of transmission are the HL7 communications. The Responsible Organization is responsible to provide adequate security measures to comply with the local privacy laws and regulations.

4.4.1. User credentials features and use

This paragraph explains the user's DIGISTAT[®] credentials (username and password) features, use and update policy.

• Every precaution must be taken in order to keep personal username and password secret.

- Username and password must be kept private. Do not let anybody know your username and password.
- Each user can own one or more credentials to access the system (username and password). The same username and password must not be used by more than one user.
- Authorization profiles must be checked and renewed at least once a year.
- It is possible to group different authorization profiles considering the homogeneity of the users' tasks.
- When user accounts are created, it is recommended to always use a nominal identification. Generic users as, for instance, "ADMIN" or "NURSE" must be avoided. Every account must be used by one and only one user.
- Each user is characterized by a profile enabling him/her to access only the functionalities that are relevant for his/her working tasks. The system administrator must assign an appropriate user profile when creating the user account. The profile must be reviewed at least once a year. This revision can also be performed for classes of users. The user profile definition procedures are described in the DIGISTAT[®] configuration manual.
- Password must be at least 8 characters.
- The password must not refer directly to the user (containing, for instance, user's first name, family name, birthdate etc.).
- The password is given by the system administrator at user account creation time. It must be changed by the user at first access in case this procedure is defined by configuration (see paragraph 5.8.4 for the password modification procedure).
- After that, the password must be changed at least every three months.
- If username and password are left unused for more than 6 months they must be disabled. Specific credentials, used for technical maintenance purposes, are an exception. See technical manual for the configuration of this feature.
- User credentials must also be disabled if the user is not qualified anymore for those credentials (it is the case, for instance, of a user who is transferred to another department or structure). A system administrator can manually enable/disable a user. The procedure is described in the DIGISTAT[®] configuration manual.

The following information is reserved to system administrators:

The password must match a regular expression defined in the DIGISTAT[®] configuration (default is ^......* i.e. 8 characters). The password is assigned by the system administrator when a new account for a user is created. The system administrator can force the user to change the password at first access to choose a personal one. The password expires after a certain (configurable) period, after that period, the user must change the password. It is also possible (by configuration) to avoid password expiration.

See DIGISTAT[®] configuration manual for detailed information on user account creation procedures and password configuration.

4.4.2. System administrators

ASCOM UMS/Distributor technical staff, when performing installation, updates and/or technical assistance may have access to and deal with personal sensible data stored in the DIGISTAT[®] database.

ASCOM UMS srl or Distributor, for issues relating to management of personal sensible data, adopts procedures and working instructions complying with the current privacy regulation (D.Lgs 196/2003 of the 30th of June 2003).

In performing the abovementioned activities the ASCOM UMS/Distributor technical staff is configured as "System Administrator" for the DIGISTAT[®] system (see regulation of 25/11/2008 of the Privacy Guarantor on "System Administrators"). ASCOM UMS/Distributor staff performing this kind of procedures is appropriately trained on privacy issues and, in particular, in sensible data treatment issues.

In order to comply with the requests of the "System administrators" regulations, the responsible healthcare structure must:

- define nominal accesses;
- activate the access log both at operating system and at client and at server level;
- activate the access log to the database server Microsoft SQL Server (Audit Level);
- configure and manage all these logs to keep track of the accesses for at least one year.

4.4.3. System logs

DIGISTAT[®] records the system logs on the database. These logs are kept for a configurable period of time. Also, logs are kept for different times depending on their nature. Default times are:

- information logs are kept for 10 days;
- logs corresponding to warning messages are kept for 20 days;
- logs corresponding to alarm messages are kept for 30 days.

These times are configurable. See DIGISTAT[®] configuration manual for the configuration procedures.

4.5. Back up policy



It is recommended to regularly perform system backups.

The responsible healthcare structure using DIGISTAT[®] system must define a backup policy that best suits its data safety requirements.

ASCOM UMS/Distributor is available to help and support in implementing the chosen policy.

The responsible healthcare structure must ensure that backup files are stored in a way that makes them immediately available in case of need.

If data are stored on removable memory devices, the healthcare structure must protect these devices from unauthorized access. When these devices are not used anymore, they must be either definitively deleted or destroyed.

4.6. Out-of-order procedure

This paragraph describes the policy suggested by ASCOM UMS in case a DIGISTAT[®] workstation gets out of order. The goal of the procedure here described is to minimize the time required to replace the out-of-order workstation with one properly working.

ASCOM UMS suggests for this purpose to have at disposal, as substitute equipment, an additional PC on which DIGISTAT[®] is already installed.

In case of a DIGISTAT[®] workstation is out-of order, the substitute equipment can promptly replace the DIGISTAT[®] workstation.

Always remember that DIGISTAT[®] must only be installed by trained authorized personnel. This includes ASCOM UMS/Distributors staff and any other person specifically trained and explicitly authorized by ASCOM UMS/Distributor. Missing an explicit, direct authorization from ASCOM UMS/Distributor, the hospital staff is not authorized to perform installation procedures and/or to modify DIGISTAT[®] configuration.

The risk related to the DIGISTAT[®] workstation deactivation and substitution is that of associating the workstation with a wrong bed or room. This could lead to a "patient switch", which is an extremely hazardous condition.

The risk related to the substituion and/or reconfiguration of network equipment involved in the DIGISTAT[®] data acquisition (i.e port server, docking station, etc...) is that of assigning the acquired data to a wrong patient. The patient-acquired data relation is based on the IP address. Changing it could lead either to data flow interruption or, in severe cases, to assigning data to the wrong patient.

!

The out-of-order and replacement of a workstation is potentially hazardous. This is the reason why it must be, mandatorily, performed only by authorized and trained personnel.

The risk related to this procedure is that of associating a wrong bed or room to the workstation and create this way the possibility to select a wrong patient.

In case a DIGISTAT[®] workstation needs to be deactivated and replaced, the hospital staff must promptly call ASCOM UMS (or authorized Distributors) and request the execution of this task. We suggest the hospital management (or anyone who is in charge) to define for this purpose a clear, univocal operating procedure and to share this procedure with all the staff members involved.

In order to speed up replacement times, we suggest to have at disposal one or more substitution equipment with all the necessary applications already installed (OS, firewall, antivirus, RDP, ...) and with DIGISTAT[®] already installed, but disabled (i.e. not executable by a user without the assistance of an ASCOM UMS technician).

In case of out of order of a DIGISTAT[®] workstation, the substitution equipment availability assures the minimization of restoration times (hardware substitution) an limits at the same time the risk of patient exchange.

In case of out of order of a DIGISTAT[®] workstation we suggest to adopt the following procedure if a "substitution equipment" is available: guasto

- 1) The hospital staff replaces the out of order PC with the "substitution equipment"
- 2) The hospital staff calls ASCOM UMS/Distributor and requests the "substitution equipment" activation
- 3) The ASCOM UMS/Distributor staff disables the out of order workstation and correctly configure the "substitution equipment"
- 4) The out of order PC is repaired and prepare d as "sustitution equipment"

The instruction on how to enable/disable and replace a DIGISTAT[®] workstation, reserved to system administrators, are in the DIGISTAT[®] configuration manual.

4.6.1. Reconfiguration/substitution of network equipment

In case it is necessary to either reconfigure or substitute a network device involved in the DIGISTAT[®] data acquisition, the hospital staff must promptly call ASCOM UMS/Distributor and schedule the substitution/reconfiguration procedure to allow ASCOM UMS staff to either reconfigure DIGISTAT[®] as well or provide all the necessary information. It is recommended, for this purpose, to define a clear procedure and share it with all the involved personnel. Some general indications about this are in the DIGISTAT[®] configuration manual.

4.7. Preventive maintenance

It is suggested to perform the maintenance of DIGISTAT[®] system at least once a year. It must be considered, by the way, that maintenance frequency must be function of system complexity. In case of high complexity it is suggested to perform maintenances more often, up to twice a year.

This is the maintenence checklist:

Preparatory checks

- DIGISTAT[®] update necessity check.
- Check minimum requirements for a possible DIGISTAT[®] update (both HW and SW).
- Check the Server Service Pack version and state.
- Schedule the server/s restart to apply possible updates.
- Check the SQL Server Service Pack version and state.

```
SELECT SERVERPROPERTY('productversion'),
SERVERPROPERTY ('productlevel'),
SERVERPROPERTY ('edition')
```

• Schedule possible updates with the technical staff

Checks to be performed

Antivirus

- Check that an Antivirus Software is installed and updated (both the application and the virus list definition).
- If viruses are present, inform the competent technician and, if authorized, try to clean the PC.

Database

- Check that an effective DIGISTAT[®] database clean-up and back-up policy is configuraed.
- Check that the clean-up and back-up store procedures exist (UMSBackupComplete, UMSBackupDifferential, UMSCleanLog, UMSCleanDriver) and the related schedule.
- Check that back-up files exist (both full and differential).
- Check with the hospital technical department that back-up, configuration folders and data folders are correctly copied to another storage device.
- Restore a back-upped DB to verify its correctness.
- Delete the old back-up files (.bak) and the possible files that are not inherent to DIGISTAT[®] configuration on the network shared path.
- Check that the other jobs on SQL Agent or scheduled tasks (for instance those that are support to integration with third-parties systems) are present, and that their schedule is adequate.
- On SQL Agent check that the different JOBs are executed and that there are not hanging JOBs or JOBs in error.
- Check the SQL Server LOGs.
- Check the DB total size and the number of records in the main tables. Script for checking all the tables size:

```
USE [DATABASENAME]
GO
CREATE TABLE [#SpaceUsed]
(
    [name] [nvarchar] (250) NULL,
    [rows] [nvarchar] (250) NULL,
    [reserved] [nvarchar] (250) NULL,
    [data] [nvarchar] (250) NULL,
    [index size] [nvarchar] (250) NULL,
    [unused] [nvarchar] (250) NULL
) ON [PRIMARY]
DECLARE @INS AS nvarchar(MAX)
SET @INS = '';
SELECT @INS = @INS + 'INSERT INTO #SpaceUsed exec sp spaceused ''' +
TABLE NAME + '''; '
FROM INFORMATION SCHEMA.TABLES
WHERE TABLE TYPE = 'BASE TABLE'
ORDER BY TABLE NAME
EXEC (@INS);
SELECT *
```

FROM #SpaceUsed
ORDER BY CAST([rows] AS INT) DESC
DROP TABLE [#SpaceUsed]

Server

- Check the WindowsTM server event log.
- Check the permissions on the shared folders (es: Backup folder).
- Useless files and directories clean up to free up space on server disk.
- Check the displays (if any) on the server rack and verify that there are neither visual nor sound alarms.
- Check that on the different disk units there is enough space available.
- Disk check with dedicated tools (checkdisk, defrag, etc.).
- In case there are disks in RAID, check the health conditions of the RAID unit on the RAID management software.
- Check the leds of the non-alarmed RAID units.
- If an UPS is connected, check its health conditions with its management software.
- In case of UPS schedule an electric interruption (an electric failure simulation) and check the server is configured ti perform a CLEAN shutdown.

Workstations

- Check if the Regional Settings on the workstations are coherent with the DIGISTAT[®] installation language.
- Check if every workstation has a default printer.

DIGISTAT[®]

- Check data presence (SELECT) Patient, Admission, Bed, Location tables and some random others.
- Check on the network table that no workstation has the ALL value in the "modules" field.
- Check and in case clean the service and/or ASCOM UMS Gateway LOG.
- Check and in case clean the DAS LOGs for the Drivers (if enabled).
- Check that the privacy policy is respected as stated in this manual in paragraph 4.4.

Connection to devices

• Check the connections (cables and wiring system) with data data acquisition devices.

Instruction for use

- Chck that the user documentation in PDF format (PDF provided together with the product) is present on the server and is coherent with DIGISTAT[®] version.
- Check that the folder containing the user documentation in electronic format on the server is accessible to DIGISTAT[®] users.
- Check that the HELP button opens the user documentation.
- Check that all the other contents provided by ASCOM UMS and integrated in the HELP of DIGISTAT[®] system are updated and coherent.

4.8. Compatible devices

Please contact Ascom UMS or Distributor for the list of available drivers

4.9. System unavailability

If during start up there are problems connecting to the server the system provides a specific information message (Fig 2).



Fig 2

The connection problem is often automatically solved in a short time. If it does not happen it is necessary to contact the technical assistance (see paragraph 6 for the contacts list).

There are extreme cases, rare but possible, in which it is phisically impossible using the DIGISTAT[®] system (it is the case of natural disasters, or long black outs etc.).

It is responsibility of the healthcare structure using DIGISTAT[®] to define an emergency procedure to put into effect in those cases. This is necessary to

- 1) Make it possible for the departments to keep on working
- 2) Restore as soon as possible the system availability (back-up policy is part of this management. See paragraph 4.5).

WARNING!

It is responsibility of the healthcare structure using DIGISTAT[®] to define an emergency procedure to put into effect in case of system unavailability.

ASCOM UMS/Distributor offers full support for the definition of the above mentioned procedure. See paragraph 6 for the contacts list.

5. "Control Bar" and DIGISTAT® environment

5.1. Introduction

This section of the manual describes the features and functionalities of the DIGISTAT[®] environment. Namely, here are described the functionalities of the system that are common to all the DIGISTAT[®] configurations.

Please remember that DIGISTAT[®] is a software environment that, depending on the modules that are actually implemented, can be used in different kinds of locations (as, for instance, intensive care, operating rooms, outpatients departments etc...) and for different goals.

5.2. Touch screen

DIGISTAT[®] can run both on touch and non-touch workstations. The same procedures can be performed using both fingers and mouse device. In this manual a "mouse" terminology is used (with terms as "click" instead of "tap", for instance). Here is a quick translation table making it possible to apply this manual to all kinds of workstations and user preferences. When specific gestures can be applied to specific screens/functionalities it will be highlighted in the relevant context. In general, the main actions can be translated this way:

Mouse	Touch
Click	Тар
Double click	Double tap
Drag	Flick
Use scrollbars	Scroll
Zoom in	Two fingers tap

5.3. Launching DIGISTAT®

To launch DIGISTAT[®],

double click the desktop icon (Fig 3).



The following splash-screen is displayed while the system is loading.



Fig 4

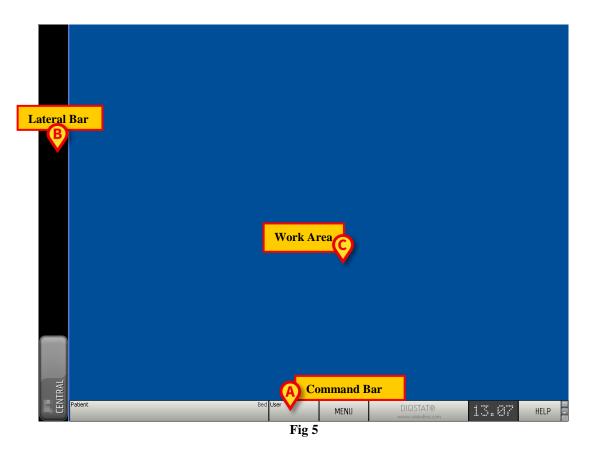
5.4. DIGISTAT® Work Area

The DIGISTAT[®] Work Area is defined and delimited by Control Bar, a tool that is common to all and every possible DIGISTAT[®] installation (Fig 5).

Control Bar manages the installed modules, the patients and their data, the users and their permissions etc.

DIGISTAT[®] Control Bar is formed by a horizontal command bar (Fig 5 A), by a vertical selection bar on the left (Fig 5 B) and by a central Work Area. The different screens of the installed modules are displayed within the Work Area (Fig 5 C).

Fig 5 shows Control Bar with no module installed.



The command bar (Fig 5 A) will be described in paragraph 5.4.1 (and subsequent).

The lateral bar displays the icons of the currently available modules. See, for instance, Fig 6, that refers to a configuration implementing the "Image Bank" and "Clinical Forms" modules.



Fig 6

The module currently selected is highlighted (yellow).

5.4.1. Selecting a module

To select a module

click the corresponding icon.

The icon is this way highlighted. The module's functionalities are displayed within the Work Area.

It is possibile to select a specific module only after the user log in (paragraph 5.5).

5.5. Accessing the system

The DIGISTAT[®] system can only be accessed by entering the personal username and password ("Log in" procedure).

For this reason, at the beginning of every work session, it is necessary to click the **User** button (Fig 7 **A**).

The following page is displayed.

A S D F G H J K L () Enter 4 5 6 Tab Z X C V B N M , : ? Enter 1 2 3 Lock · · · · · · · · · · 0 . RECENT · · · · · · · · · · · · 0 . * · · · · · · · · · · · · · 0 . * · · · · · · · · · · 0 . · · 0 . · · 0 . · · 0 . · · 0 . · · 0 . · · . . . <t< th=""><th>LOO</th><th>GIN</th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th>B</th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th>_</th><th></th><th></th><th></th><th></th></t<>	LOO	GIN												B											_				
Q W E R T Y U 1 O P " Backspace 7 8 5 A S D F G H J K L () Foreigneet 1 2 5 6 Tab Z X C V B N M , : ? Enter 1 2 3 Lock - - Del 0 . . 0 . . . 0 .										U	SERN	AME		•		()		_	_	_	_	_	_					
A S D F G H J K L () Enter 4 5 6 Tab Z X C V B N M , : ? Enter 1 2 3 Lock - - = Del 0 .										P/	ASS₩	ORD		_	_			_		_	_		_						
A S D F G H J K L () Enter 4 5 6 Tab Z X C V B N M , : ? Enter 1 2 3 Lock - - = Del 0 .																													
Tab Z X C V B N M , : ? Enter 1 2 3 Lock + - = Del 0 . . ? Enter 1 2 3 RECENT 1 2 3 4 5 . 9 . . 9 .<		Q		W		E		R		Т	٦	Y		U		I		0		Ρ		"		Bac	kspace		7	8	9
Tab Z X C V B N M , : ? Enter 1 2 3 Lock - = Del 0 . . 0 . RECENT 1 2 3 4 5 . . . 1 ADMIN 2 8 8 9 Patient Bed User MENU DIGISTATIO .			Δ		5		In		F				<u> </u>				ĸ		1				1				4	5	6
Tab Z X C V B N M , : ? I 1 2 3 Lock - = Del 0 , . <					- -				Ľ				<u> </u>										,		Entor				
RECENT ADMIN ADMIN ADMIN ADMIN	Т	ab						C				В		N		М						?			Liitei		1	2	3
RECENT															+		-	= Del					0		. 				
1 ADMIN 2 3 4 5 2 2 3 4 5 5 2 2 2 2 5 6 6 2 2 2 2 6 6 6 6 Patient Bed User MENU DIGISTATIO 4 3 3 4			-			-		-	-	-	-	-	-	-	-	-	-	-		-	L	-		-					
1 ADMIN 2 2 4 5 2 Z 2 2 2 2 Z 2 2 Patient Bed User MENU DIGISTAT® 4 2																													
ADMIN 2 2 2 2 2 2 2 2 2 2 2 2 2	REC	CEN.	Т	_		_		_	_		_	_			_		_		_	_		_		_		_			_
Patient Bed User MENU DIGISTAT® 13 22 H	1			ADMI	IN			2							<u>3</u>							4				<u>5</u>			
Patient Bed User MFNII DIGISTAT®	<u>6</u>							Z							8							<u>9</u>							
Patient Bed User MFNIL DIGISTAT®																													
Patient Bed User MFNII DIGISTAT®																													
Patient Bed User MENU DIGISTATION 13.27 HE				_							_					/	2											7	
MENU DIGISTAT® 13.27 HE																M	Y			LOCK	<								
www.uintstow	Patier	nt												Bec	User					MEN	U				GISTAT® w.unitedms.com		13.:	277	HELP

Fig 7

To access the system,

- > enter the username in the "Username" field (Fig 7 B).
- Enter the password in the "**Password**" field (Fig 7 C).
- Click the Ok button (Fig 7 D).

The user is this way logged in. To cancel the operation

click the Cancel button (Fig 7 E).



The username and password are issued by the system administrator. If you do not have a username and a password you are not authorized to use the DIGISTAT[®] system.

You can enter the username and password either using the virtual keyboard displayed on screen (clicking the letters with the mouse or touching them if you are using a touch screen) or the workstation keyboard.

After accessing the system, an acronym corresponding to the logged user is displayed on the User button on the control bar (the acronym is ADM in Fig 8 A).



WARNING!

The user whose credentials are displayed on the User button is responsible for all the actions performed on DIGISTAT[®]. It is strongly recommended to log out before leaving the DIGISTAT[®] workstation to avoid improper use of the system.

To log out, click the **User** button during the work session. When this button is clicked the user is disconnected and the acronym of the user disappears from the button.

To log in again, click the User button again. The page shown in Fig 7 is displayed again.

WARNING!

DIGISTAT[®] does not support the Microsoft[®] Windows[®] "switch user" functionality. This means that, for instance, if

- a) User 1 launches DIGISTAT[®],
- b) User 1 switches to User 2 without logging out User 1,
- c) User 2 attempts to launch DIGISTAT[®] again,

then the second DIGISTAT[®] instance cannot be launched because the first one is still running.

5.5.1. Barcode log in

It is possible, if the functionality is implemented, to log in through barcode scanning.

To use this functionionality, when the system displays the login screen (Fig 7),

 \triangleright scan the user's personal barcode.



The user is immediately logged in.

Barcode technology is recommended when selecting an item. Scanning the item's barcode (as, for instance, the user's personal badge), instead of selecting it manually, helps the user to diminish selection errors.

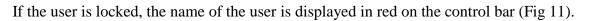
5.5.2. Disabling the automatic log out

If the system remains idle for a certain configured time, the user is automatically disconnected (automatic log out).

To stop this from happening it is necessary, when logging in, after username and password specification and before clicking Ok, to

click the Lock button on the "Login" screen command bar (Fig 10 A)







!

The user is advised against the frequent use of the lock function. Automatic log out is implemented to protect the system from unauthorized accesses.

5.5.3. Recent users

The "Recent" area of the "Login" page (Fig 12 A) displays the names of users who have accessed the system recently.



Fig 12

The area is divided into rectangles. The names of the users who recently accessed the system are displayed in the rectangles. When any of these rectangles is clicked, the "Username" field is automatically filled with the name appearing inside the rectangle.

5.5.4. How to use the "User List"

The **More** button on the control bar (Fig 13) makes it possible to display the complete list of possible users.



To display the "User List",

click the More button.

The following window is displayed (Fig 14).

	User List		◇
ſ	4	ADMIN	ADM 🚖
	C-D E-F	aphjerass	
	G-H	-Habe best	EAL
	- J	dimentories.	FAL 💌
B	K-L	directority	DAL
_	M-N 0-P	datinist marpix	P. Local
	Q-R	498704000	F. All
	S-T	and a second second	ABA
	U-V	birdento	ОК
	W-X Y-Z	Telativelisesk	
, C		Fig 14	

Fig 14

The window shown in Fig 14 can be used as an index book enabling to search and select a user in the list of all possible users.

The central part of the window shows the names of possible users, in alphabetical order (Fig 14 A).

The letters on the left side of the window (Fig 14 \mathbf{B}) work like an index and make it possible to see only the users whose names begin with a specific letter.

For example: click the **C-D** button to see the list of patients whose names begin with the letters C or D.

Use the **All** button (Fig 14 **C**) to see the list of all possible users.

Use the **Local** button (Fig 14 **D**) to see the list of users that logged in to the workstation on which you are currently working.

Use the arrows on the right side of the window (Fig 14 E) to scroll up and down the list of users.

To select a user

click the name of the user.

The name is this way highlighted, then

click the **Ok** button (Fig 14 **F**).

Otherwise it is possible to

double-click the row displaying the name of the user.

After selection, the "User list" window closes and the name of the selected user is displayed in the "Username" field on the "Login" page (Fig 7 A).

Use the **Cancel** button (Fig 14 G) to cancel the operation and close the "User list" window without selecting any user.

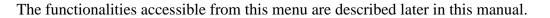
5.6. DIGISTAT® Control Bar

The control bar in the lower part of the screen is common to all DIGISTAT[®] configurations. Its main characteristics are listed below. A more detailed explanation of its functionalities is provided in the subsequent paragraphs.



- The **Patient** button (Fig 15 A) displays, after a patient has been selected, the patient's name and, if the patient has been admitted, his/her bed number.
- The User button (Fig 15 B) shows the name of the logged user. See Fig 8.
- Use the **Menu** button (Fig 15 **C**) to open the following window (Fig 16).

MAIN MENU	♦					
	SYSTEM CONFIGURATION					
PATIENT REPORTS	SYSTEM REPORTS					
STATISTICS	CHANGE PASSWORD					
TIUD QUIT	ABOUT					
CLOSE						
Fig 16						



- The button quoting the DIGISTAT[®] brand name and the ASCOM UMS srl web address (Fig 15 **D**) can be used to signal that there are alarms or warnings occurring in one of the modules. This feature is explained in the context of the specific module.
- The display indicated in Fig 15 E alternately shows the current date and time.
- Use the **Help** button (Fig 15 \mathbf{F}) to access the available documentation (user manuals and quick guides).

- The small buttons highlighted in Fig 15 G can be used to:
 - 1. minimize the DIGISTAT[®] window (button);
 - 2. select the full screen display mode (button);
 - 3. select the window display mode (button).

t These three buttons are present only if enabled by configuration.

5.6.1. How to read the "Patient" button

Patient selected

When a patient is selected, the **Patient** button displays the name of the selected patient (Fig 17 A). See the documentation of the specific modules for the patient selection procedure.



Fig 17

Patient admitted

When a patient is admitted the **Patient** button displays, besides the patient name, the bed number and the name of the department to which he/she has been admitted (Fig 18).



The department name and the bed number are black if the patient is located in a department associated to the workstation on which the user is working (see Fig 18).

The department name and the bed number are red if the patient is located in a department that was not associated to the workstation on which the user is working (Fig 19 - the workstation/department link depends on configuration choices).





Every workstation is associated by configuration to one or more departments. The user is allowed to perform certain specific actions only if the patient is admitted to one of the associated departments. The red colour in the **Patient** button is used to advise the user that he/she is working with a patient that is outside the associated departments.

The signal "Other location" (Fig 20) appears when,

Patient SMITH, JOHN		OTHER LOCATION
11 SA	Fig 20	

at patient admission time, in the bed selection window (Fig 21), the user specified that the patient is not in one of the configured departments. The user therefore selected the "Other location" option in the window dispayed in Fig 21.

BED	\diamond				
SELECT THE NEW BED FOR THE PATIENT					
OTHER LOCATION	0 K				
Bed	CANCEL				
Fig 21					

See the specific module's documentation for the patient admission procedure.

When the icon is displayed alongside the patient name, it means that the user is not enabled to edit that patient's data.





Patient management.

The patient archives management tools can change depending on the modules installed, on the user needs, on the chosen configuration etc. The related procedures change accordingly.

The DIGISTAT[®] module "Patient Explorer" is dedicated to the patient archives management. Please refer to the "Patient Explorer" module documentation for the related procedures.

If the DIGISTAT[®] module "Patient Explorer" is not installed the patient management functions are performed by "Control Bar". When this is the case, the related procedures are described in the specific documentation.

If the patient archives management tool in use is not part of the DIGISTAT[®] environment please refer the relevant technical documentation.

WARNING!

When entering patient-related data it is necessary to double-check that the patient identity, hospitalization department and bed displayed in DIGISTAT[®] match with the actual ones.

This is utterly important in case of critical actions as, for instance, drug administration.

5.7. Help

Click the **Help** button on Control Bar (Fig 15 E) to access the on-line documentation available. The page shown in Fig 23, or an analogous one, depending on the available documentation, will open.

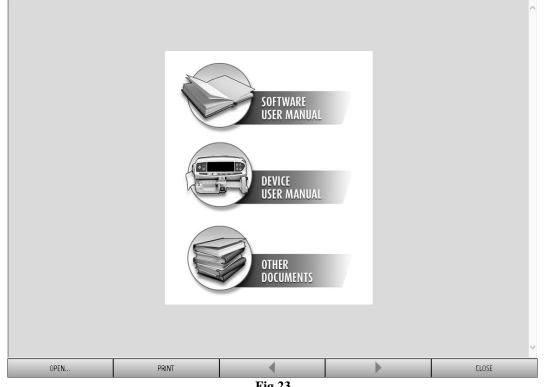


Fig 23

The command bar (Fig 24) offers some navigation possibilities.

0PEN	PRINT	•		CLOSE		
Fig 24						

- the Open button makes it possible to open other documents (if the user has the required • permissions);
- the **Print** button prints the currently displayed document; •
- the < and > buttons display either the previous or the next page of the document; •
- the Close button closes the on-line help. •

5.8. DIGISTAT® Main Menu

Patient	Bed User	MENU	DIGISTAT® www.unitedms.com	21/07	HELP
]	Fig 25	10000000000000000000000000000000000000		

The **Menu** button placed on the DIGISTAT[®] Control Bar (Fig 25)

opens a menu containing several options (Fig 26).

MAIN MENU	♦
	SYSTEM CONFIGURATION
	SYSTEM REPORTS
STATISTICS	CHANGE PASSWORD
τυφ	ABOUT
CL	OSE
Fig	g 26

Each button on the menu makes it possible to access a specific set of functions.

The procedures associated to the following buttons are system configuration procedures. They are therefore reserved to the system administrators.

Clinical configuration - (Fig 26 A)

System configuration - (Fig 26 B)

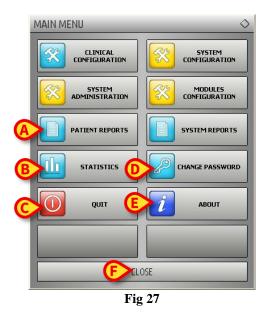
System administration - (Fig 26 C)

Modules configuration- (Fig 26 D)

System reports - (Fig 26 E)

Contact your system administrator for the procedures associated to these buttons.

The other buttons, indicated in Fig 27, make it possible to access functionalities that a user can activate (according to his/her permission level). These are described later in this manual in the indicated paragraphs.



- Patient reports (Fig 27 A, paragraph 5.8.1)
- Statistics (Fig 27 B, paragraph 5.8.3)
- Quit (Fig 27 C, paragraph 5.8.6)
- Change Password (Fig 27 D, paragraph 5.8.4)
- About (Fig 27 E, paragraph 5.8.5)
- The **Close** button (Fig 27 **F**) closes the "Main menu" window (Fig 27).

5.8.1. Patient reports

The "**Patient reports**" button (Fig 27 **A**) makes it possible to access a set of options enabling the user to print reports of different kinds for the selected patient.

The button opens a menu containing different options (Fig 28).

PATIENT REPORTS	♦
Clinical Diary	Nutrition Summary
Pump Log	Therapy Plan
OnLine Reports	Therapy Execution
	OSE



i

The number and kind of available reports depend on the modules installed and the configuration in use. Therefore the number and kind of buttons on this menu (Fig 28) change according to the configuration in use.

5.8.2. Print reports

Use the buttons on the menu displayed in Fig 28 to access the system's print functionalities.

i

The layout of some reports is customizable. Please refer to the system administrators for any request regarding the print reports customization.

To print a patient report

click one of the buttons on the menu.

A print preview of the selected document opens (Fig 29).

				HOSPITAL DEPARTMENT CHIEF DR.				
		INFUSION		B	and the second	1 / 62		
	Pri	inted on: lunedì 9 giugno 2014 13:3	13:28	BirthDate: 12/10/19 Height: 180 cm, Weight: 7 Admitted on: 04/06/	'0 kg, BSA: 1,89 m ²	3 ICU		
	TIME	PUMP	EVENT	Admitted off. 04/00/	2014 10:10:42			
	13:31	and a second		/olumeRate: 30 ml/h - VI: 401 ml				
	13:30	No. 6, 1980 (Str.		meRate: 0 ml/h - VI: 401 ml				
	13:29	simulation and second second		/olumeRate: 30 ml/h - VI: 401 ml				
	13:28	2000 (1000-000)	Warning - I	Infusing - VolumeRate: 30 ml/h - VI:	400 ml			
	13:28	No.0.2007402	NEAR END	OF INFUSION				
	13:27	600 (C + 10)	Infusing - F	Primary - VolumeRate: 7 ml/h - VI: 60),3 ml			
	13:26	dia di Stato di Stato	Infusing - \	/olumeRate: 0,9 ml/h - VI: 202 ml				
	13:26	per Carporte	Bolus, Type	e:hands on Duration:19 sec. Rate:50	0 ml/h Volume:2,6 ml			
	13:26	Read To BE COMPANY	Infusing - \	/olumeRate: 0,9 ml/h - VI: 202 ml				
	13:25	No. Contractor	Infusing - E	30lus - VolumeRate: 500 ml/h - VI: 19	99 ml			
	13:22	day of the second	Infusing - F	rimary - VolumeRate: 3,6 ml/h - VI: :	21,8 ml			
	13:18	Read On Links Street	-	Primary - VolumeRate: 2,25 ml/h - VI:	: 21,6 ml			
	13:09	600-00, 24000-0000	-	/olumeRate: 9 ml/h - VI: 103 ml				
	13:09	alasta patentaria		meRate: 0 ml/h - VI: 103 ml				
	13:07	and a subscript		id - VolumeRate: 0 ml/h - VI: 103 ml				
	13:07	No. O. S. MCHURS	CHECK SYR					
	13:03	And Control of the	-	/olumeRate: 1,2 ml/h - VI: 202 ml				
	13:03	And I State of the		meRate: 0 ml/h - VI: 202 ml				
	13:01	100 A (100 - 101	-	/olumeRate: 30 ml/h - VI: 401 ml				
	13:00	Res-0.1880-9301		meRate: 0 ml/h - VI: 401 ml				
	12:59 12:58	ALC: N. DESCRIPTION	-	/olumeRate: 30 ml/h - VI: 401 ml	400			
	12:58	and a part of the		Infusing - VolumeRate: 30 ml/h - VI: OF INFUSION	400 mi			
	12:50	ALC: U		Primary - VolumeRate: 7 ml/h - VI: 60) 3 ml			
	12:57	tion of the second	-	/olumeRate: 0,9 ml/h - VI: 202 ml	yo m			
	12:55	production of the second second	-	e:hands on Duration:19 sec. Rate:50	0 ml/h Volume:2.6 ml			
A B C	12:5 B	Θ	Infusin	meRate: 0,9 mi us - VolumeRate: ////////////////////////////////////	6	(\mathbf{H})	0	
N ▲ 1/6	2	ADDONS	F	IND 100%	PRINT	PRINT	EXPORT	CLOSE
				Fig 29				

The buttons on the command bar of the "Print preview" screen make it possible to perform various actions, listed below.

- A Use the *H* and *H* buttons (Fig 29 A) to go to the beginning or the end of the document.
- **B** Use the **set of the set of**
- **C** The display (Fig 29 **C**) indicates the current page number.

D - The **Addons** button (Fig 29 **D**) activates the possible additional print management options (in this configuration the "Watermarks" option is available - see paragraph 5.8.2.1 for a description of this option).

E - The **Find** button (Fig 29 E) makes it possible to search the displayed document. See paragraph 5.8.2.2 for more instructions.

 \mathbf{F} – The button indicating the **100%** percentage (Fig 29 F) is a zoom, making it possible to change the display mode. See paragraph 5.8.2.3 for more instructions.

G - Use the Print button (Fig 29 G) to print the report.

H - Use the **Print...** button (Fig 29 **H**) to display the print options window (Fig 35). See paragraph 5.8.2.4 for a description of this window and the related procedures.

I - Use the **Export** button (Fig 29 **I**) to export the document contents to different file extensions. See paragraph 5.8.2.5 for more instructions.

L - Use the Close button to close the "Print preview" screen.

5.8.2.1. Addons

The Addons button (Fig 29 D) activates the possible additional print management options.

To display the available options,

- > Click the **Addons** button.
- > Click the button corresponding to the functionality you want to activate.

Addons - Watermark

To add watermarks to the print report (either text or image, if the option is enabled by configuration),

Click Addons and then Mark.

The following window is displayed (Fig 30).

Watermark	×
Enabled	
Text Picture	
C Rotation Forward Diagonal	
-	
Z-Order	- 11
Text on top	- 11
Picture on top	
	_
G Apply to all pages F OK Cancel	
Fig 30	

To add a textual watermark,

- Ensure that the "Enabled" checkbox is checked (Fig 30 A). If not, the contents cannot be edited.
- ➢ Insert the text in the "Text" field (Fig 30 B).

➢ Use the "Rotation" menu (Fig 30 C) to specify the watermark orientation (diagonal, horizontal, vertical).

A print preview is displayed in the area indicated in Fig 30 **D**.

- > Use the buttons indicated in Fig 30 \mathbf{E} to select the watermark font and color.
- \blacktriangleright Click the **Ok** button (Fig 30 **F**).

The text is this way inserted as watermark.

If the "**Apply to all pages**" checkbox is selected (Fig 30 G) the watermark is applied to each page in the document, otherwise it is applied only to the current page.

To insert a picture as watermark

Click the "**Picture**" tab indicated in Fig 31 **A**.

The following window is displayed (Fig 31).

Watermark	×
Text Picture	
E Zoom	
Transparency	
Z-Order	
Text on top	
Picture on top	
H Apply to all pages	OK Cancel
Fig 31	

Follow these steps to insert an image as watermark,

- Ensure that the "Enabled" checkbox is checked (Fig 31 B). If not, the contents cannot be edited.
- Click the "Load" button indicated in Fig 31 C.

The window making it possible to browse the computer contents opens.

Search and select the image to be uploaded.

The image is displayed in the area indicated in Fig 31 **D**.

- ▶ Use the "Size" drop-down menu to set the size of the image (Fig 31 E).
- Use the "Transparency" cursor to set the transparency level of the watermark image (Fig 31 F maximum transparency when the cursor is on the left).
- Click the Ok button (Fig 31 G).

The watermark image is this way inserted.

If the "**Apply to all pages**" checkbox is selected (Fig 31 **H**) the watermark is applied to each page in the document, otherwise it is applied only to the current page.

To delete an already selected image,

Click the "Clear" button indicated in Fig 31 I.

5.8.2.2. Find

The **Find** button (Fig 29 **E**) makes it possible to search the print report currently displayed.

To search the print report,

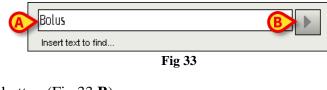
Click the **Find** button.

The following window opens (Fig 32).

Insert text to find		
	TI 36	

Fig 32

▶ Insert in the window the text to be found in the print report (Fig 33 A).



> Click the button (Fig 33 **B**).

The text specified, when found, is highlighted in the print preview.

> Click the button again to search for other instances.

5.8.2.3. Zoom

The **Zoom** button (on which, by default, the **100%** size is displayed - Fig 29 \mathbf{F}) is a zoom, making it possible to change the display size and mode.

To change the display mode,

click the Zoom \button. The following menu is displayed (Fig 34).

	100	
0	100%	
	200%	
	PAGE	
	WIDTH	
	100%	
	Fig 34	

Click the wanted option on the menu.

The page will be displayed accordingly. The mode currently selected is indicated on the button.

The following options are available:

The **Width** button makes it possible to display the page using the full screen width;

the **Page** button displays the whole page;

the **200%** button doubles the page size (200% zoom);

the **100%** button displays the page in its actual size (100% zoom);

the area contains a cursor that can be used to zoom the page contents (left is zoom out, right is zoom in). The percentage value corresponding to the page size is displayed above the cursor. Values range from 100% to 200%. After selection, the selected value is also displayed on the **Zoom** button on the command bar.

5.8.2.4. Print

The **Print...** button opens a window offering several print options.

Click the **Print...** button (Fig 29 **H**) to display the print options window (Fig 35)

	PRINTERS	\diamond			
	\\master\III Laser III III - SUPPORT				
A	\\master \0411 Laser Printer 101111 - LAB				
	\\master\\Famality Ind in - ACCOUNTING				
C	PRINT CLOSE				
	Fig 35				

This window makes it possible to select the printer and the number of copies to be printed.

- Click the wanted option on the menu to select the printer (Fig 35 A).
- Use the (one less copy) and the (one more copy) buttons to specify the number of copies (Fig 35 B).
- Click the **Print** button (Fig 35 **C**) to print the report.

5.8.2.5. Export

The **Export** button (Fig 29 I) makes it possible to export the contents of the displayed document to different file extensions. To do that

Click the **Export** button to open the "Export" menu.

The menu displays all the file extensions currently supported by the system in use.

Click the option corresponding to the wanted extension.

The document is this way exported to the corresponding extension.

5.8.3. Statistics

The **Statistics** button on the main menu (Fig 36) makes it possible to access the system's statistical calculation tools.



The button opens another menu (Fig 37) listing various tools. The type and number of selectable tools depend on the configuration in use and the specific modules installed. These tools are reserved to the system administrators.

The "Query assistant" tool, which is accessible for users having specific permissions and training, is described in paragraph 5.8.3.1.



Fig 37

5.8.3.1. Query Assistant

The **Query Assistant** button (Fig 37) opens a tool making it possible to create, save and execute queries on the DIGISTAT[®] database (Fig 38).

	QUERY ASSISTANT	\diamond
	Select a Query	
A	1 Admissions 2 Admissions by duration 3 Average LOS by transferring unit 4 Number of deceased patients by duration	
	5 Deceased patients Detail	Edit
	6 Bed usage statistics	New
		<u>D</u> elete
	Description	
	SQL	
	DECLARE @Y varchar(4) DECLARE @Start datetime DECLARE @End datetime	Query
	SET @Y = (Insert year)	<u>C</u> lose

Fig 38

The user can select a query from a list of pre-defined queries, execute it and display the results in a specific window.

The "Select a Query" area displays the list of all the pre-defined queries (Fig 38 A).

To run a query

click the corresponding name on the list,

The name is this way highlighted (Fig 39 A).

A textual description of the query is displayed in the "Description" area (Fig 39 B). The "SQL" area (indicated in Fig 39 C) displays the content of the query in SQL language (Structured Query Language).

i

The "edit", "cancel" and "new" query options are reserved to the system administrators.

QUERY ASSISTANT	\diamond
Select a Query Admissions Admissions Admissions by duration Average LOS by transferring unit A Number of deceased patients by duration 5 Deceased patients Detail 6 Bed usage statistics	<u>E</u> dit
Description	Delete
DECLARE @Y varchar(4) DECLARE @Start datetime DECLARE @End datetime SET @Y = (Insert year)	

Fig 39

To run the query

click the Query button (Fig 39 D - bottom-right).

The results are displayed in a new window, in a table (Fig 40).

<u>I</u> able	<u>S</u> etup		_	 	
	Desc	Value			
D1	Year	2008			
D2	Number of admissi	2	1		
03	Total number of p	2	1		
D4	Average age of a	47.50			
05	Number of readmi	0			
D6	Percentage of rea	0			
07	Readmissions wit	1			
08	Readmissions wit	1			

The **Edit** button placed on the right of the "Query Assistant" window (Fig 38 **B**) makes it possible to edit an existing query.

The New button placed on the right of the "Query Assistant" window (Fig 38 C) makes it possible to create a new query.

The **Delete** button placed on the right of the "Query Assistant" window (Fig 38 **D**) makes it possible to cancel an existing query.

5.8.4. Change password

The **Change Password** button on the DIGISTAT[®] main menu (Fig 41 A) opens a window making it possible to change the password of the user currently logged.



Fig 41

To change the user password

click the Change Password button (Fig 41 A).

The "Change password" window opens.

		\diamond
	Enter the OLD password	
	New Password	
(Enable Password	
	New Password	> ок
	Re-enter new password	
	Passwords are case-insensitive. Use digits (0-9) and letters (A-Z).	CANCEL
	Fig 42	

- > Type the current password in the "Enter the OLD password" field (Fig 42 A).
- ➤ Verify that the "Enable password" checkbox (Fig 42 B) is selected.
- > Type the new password in the field indicated in Fig 42 C.
- > Type again the new password in the field "**Re-enter new password**" (Fig 42 **D**).
- Click the **Ok** button (Fig 42 **E**).



The passwords <u>are not</u> sensibile to uppercase and lowercase. The passwords can only be formed by numbers (0 to 9) and letters (A-Z).

5.8.5. About DIGISTAT®

The **About** button on the DIGISTAT[®] main menu (Fig 41 **B**) displays a window containing information on the DIGISTAT[®] version installed and the related licences (Fig 43).



Fig 43

5.8.6. Quit DIGISTAT®

The **Quit** button on the DIGISTAT[®] main menu (Fig 45 A) makes it possible to quit the DIGISTAT[®] environment.

To quit DIGISTAT®

click the Menu button on the control bar (Fig 44).

Patient	Bed User	MENU	DIGISTAT® www.unitedms.com	21/07	HELP -
	Fi	ig 44			

The DIGISTAT[®] main menu opens (Fig 45).



Fig 45

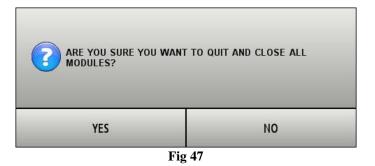
Click the Quit button (Fig 45 A).

Another menu is displayed (Fig 46).

QUIT		_	¢
	QUIT		Shut Down and Restart
			_
			_
			_
			_
	CL	OSE	
	Fig	g 46	

Click the Quit button again (Fig 46 A).

User confirmation is required (Fig 47).



➢ Click Yes to exit DIGISTAT[®].



To exit DIGISTAT[®] users must have the required permissions level.

6. Contacts

• ASCOM UMS srl unipersonale

Via Amilcare Ponchielli 29, 50018, Scandicci (FI), Italy Tel. (+39) 055 0512161 Fax (+39) 055 8290392

• Technical assistance

support.it@ascom.com

800999715 (toll free, Italy only)

• Sales and products information

it.sales@ascom.com

• General info

it.info@ascom.com

7. Residual risks

The risk management process has been actualized for the DIGISTAT[®] medical device according to the relevant technical regulations (EN14971, EN62304, EN62366). All the possible control measures have been defined to reduce all residual risks to the minimum level and make them this way acceptable considering the benefits brought in by the product. The total residual risk is also accettable if compared to the same benefits.

The risks listed below have been taken into consideration and reduced to the minimum level possible. Yet, given the inherent nature of the "risk" concept, it is not possible to completely remove them. It is therefore necessary, according to the regulations, to let the users know each and every possible risk (even though remote).

- Impossibility in using the system or some of its functionalities, which can cause delays and/or errors in the therapeutic/diagnostic actions.
- Slowdown of device performance, which can cause delays and/or errors in the therapeutic/diagnostic actions.
- Circulation of users' and/or patients' sensible data.
- Unauthorized actions carried out by users, which can cause errors in the therapeutic/diagnostic actions and in the attribution of responsibilities of these actions.
- Wrong data insertion and display, which can cause errors in the therapeutic/diagnostic actions.
- Display of either partial or hard-to-read information, which can cause delays and/or errors in the therapeutic/diagnostic actions.
- Attribution of patient data to the wrong patient (patient exchange), which can cause errors in the therapeutic/diagnostic actions.
- Accidental data deletion, resulting in loss of data, which can cause delays and/or errors in the therapeutic/diagnostic actions.

RISKS RELATING TO THE HARDWARE PLATFORM IN USE

- Electric shock for the patient and/or the operator, which can cause injury and/or death for the patient/operator.
- Hardware components overheating, that can cause injury for the patient/operator.
- Infection contraction for the patient/operator.

Appendix: end-user license agreement

The following document is the ASCOM UMS end-user license agreement for the DIGISTAT® product. If the Product was delivered by a distributor, then the License agreement may be different from the one here published. In that case, please refer to the distributor to get the applicable licenseagreement.

END-USER LICENSE AGREEMENT (EULA) FOR "DIGISTAT[®]", AN ASCOM UMS PRODUCT

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- 3. **UPGRADES.** If the PRODUCT is labeled as an upgrade ("Upgrade"), the User must be properly licensed to use a product identified by Ascom UMS as being eligible for upgrades required to use the PRODUCT. A PRODUCT labeled as an upgrade replaces and/or supplements (and can deactivate) the PRODUCT that forms the basis for your eligibility for

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- 5. **BACKUP COPY.** After installing a copy of the PRODUCT in compliance with the terms of this EULA, the User may preserve the original media on which Ascom UMS supplied him the PRODUCT only for backup or storage purposes. If the User needs the original media to use the PRODUCT, he/she may create only one copy of the PRODUCT for backup or storage purposes. Except for this EULA's express specifications, the User may not run copies of the PRODUCT or of the annexed printed material for other purposes.

LIMITED WARRANTY

Ascom UMS warrants for a period of twelve (12) months from the date of delivery of the PRODUCT to the User that: (a) the media on which the PRODUCT is supplied shall be free of material and of manufacturing defects under normal conditions of use; and (b) the PRODUCT shall perform substantially in accordance with the user manual.

Except for the above specifications, the PRODUCT is supplied "as is". This Limited Warranty shall apply only to the initial User/licensee.

The sole obligation of Ascom UMS under this warranty shall be, to the discretion of Ascom UMS, either to repair or replace the PRODUCT or to refund the price paid for the purchase of the PRODUCT, provided that the defect of the PRODUCT is technically attributable to Ascom UMS and that Ascom UMS has authorized its return.

Responsibility for loss or damages suffered by the PRODUCT during its shipment in connection with this warranty shall vest on the party shipping the PRODUCT.

Ascom UMS does not guarantee that the PRODUCT will be free from errors or that the User can operate the system without problems or interruptions.

Furthermore, due to the ongoing development of intrusion methods and attacks of networks, Ascom UMS does not guarantee that the PRODUCT or other equipment systems, or the network itself on which the PRODUCT is used, will not be vulnerable to intrusions and attacks.

It is the responsibility of the User to install and to maintain software means for the protection against intrusions or attacks (i.e. antivirus, firewall, etc.) and the maintenance of the software platform used to execute the PRODUCT. Ascom UMS is not responsible of any possible malfunction due to the installation and maintenance of such systems.

Limitations. This warranty does not apply if the PRODUCT: (a) has been installed, repaired, maintained or in any other way altered by persons not authorized by Ascom UMS, (b) has not been

used in compliance with PRODUCT user manual, (c) has been subjected to abnormal physical or electronic stress, improper or negligent use or accident, or (d) is granted only for pilot testing, evaluation, testing, demonstration purposes or free of charge, for which Ascom UMS receives no payment as license fee.

Limitation of Liability. IN NO CASE WILL ASCOM UMS OR ITS SUPPLIERS BE HELD RESPONSIBLE FOR THE LOSS OF INCOME, PROFIT OR DATA OR FOR SPECIAL, INDIRECT, SUBSEQUENTIAL, INCIDENTAL OR PUNITIVE DAMAGES EITHER CAUSED, TRIGGERED OR RESULTING FROM THE USE OR INABILITY TO USE THE PRODUCT, EVEN IF ASCOM UMS OR ITS SUPPLIERS WERE INFORMED ABOUT THE POSSIBILITY THAT SUCH DAMAGES COULD OCCUR.

Under no circumstance will either Ascom UMS or its suppliers' responsibility cover compensation exceeding the price paid by the customer.

UNDER NO CIRCUMSTANCE WILL THESE GENERAL CONTRACT CONDITIONS INVOLVE ACKNOWLEDGEMENT OF ASCOM UMS OR IT'S SUPPLIERS' RESPONSIBILITY IN CASE OF DEATH OR PERSONAL INJURY RESULTING FROM THE USE OF THE PRODUCT.

The said limitations shall apply even if this warranty fails to meet its essential purpose.

THE ABOVEMENTIONED LIMITATIONS SHALL NOT APPLY IN THE STATES AND IN THE JURISDICTIONS THAT DO NOT ALLOW LIMITATION OR EXCLUSION OF INCIDENTAL OR CONSEQUENTIAL DAMAGE.

This EULA and the warranty concerning the PRODUCT shall be subject to the Italian law. The United Nations Convention on the International Sales of Goods shall not apply. Should one or more provisions of this EULA be held as null or void by a Court of competent jurisdiction, the remaining provisions shall be considered as fully valid and effective.

Except for what expressly provided for herein, this EULA constitutes the complete agreement between the parties on the license of the PPRODUCT and replaces any other conflicting or additional provision of the purchase order.

The date of delivery of the PRODUCT to customer is recorded in the shipment documentation or in the PRODUCT delivery documentation.

INTENDED USE

The DIGISTAT Software (hereafter "Product") acquires, records, organizes, transmits and displays patient information and patient related data, including data and events from connected clinical devices and systems as well as information entered manually, in order to support caregivers in diagnosis and treatment of patients as well as to establish electronic patient records.

- The Product produces configurable electronic patient records based on acquired data and information, as well as on manual and automated documentation of the clinical unit's activity.
- The Product provides automated, secondary visual and audible annunciating and displaying of acquired data, events, current status and operating conditions of connected clinical devices and systems on designated display device(s). The Product can also be configured to forward data and information about events, statuses and operating conditions to the Ascom messaging system.
- The Product supports the improvement of nursing workflows related to the management of alarms from the connected clinical devices and systems.

- The Product supports documentation of the prescribed therapy, of its preparation and of its delivery.
- The Product supports the recording, validation and display of vital signs charting based on the acquired data and information.
- The Product provides configurable reports, charts and statistics based on recorded data for use by healthcare professionals to analyze the unit's efficiency, productivity, capacity and resource utilization, and the quality of care.

The Product **does not** replace or replicate the original display of data and alarms of the connected devices and systems, and **does not** control, monitor or alter the behavior of these connected devices and systems, or their associated alarm annunciations.

The Product **is not** intended to be used for direct diagnosis or monitoring of vital physiological parameters.

The Product is intended for use by trained healthcare professionals within a hospital/clinical environment and relies on proper use and operation of the IT and communication infrastructure in place at the healthcare facility, the display devices used and the connected clinical devices and systems.

Additionally, the Product provides specific functions and interfaces intended to be used by non-professional users in remote locations for non-clinical purposes for display of information, reports, charts and statistics, without any possibility to add, change or delete any information or data.

The Product is a stand-alone software that is installed on servers and computers, which shall comply with the technical hardware and software specifications provided with the Product.

CONFLICTING TERMS

Should the User and Ascom UMS enter into an agreement for the supply and/or the license of the PRODUCT containing terms different from those contained herein, the terms of that agreement shall prevail on the terms of this EULA which are not compatible with them, it being understood that all the remaining terms of this EULA shall remain fully valid and the enforceable.

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Should you have any questions concerning this EULA, please contact the Ascom UMS representative in your area or write to Ascom UMS srl, Customer Service, Via Amilcare Ponchielli 29, 50018 Scandicci (Firenze), Italy.

Date

Signature

SPECIFIC ACCEPTANCE OF CERTAIN PROVISIONS IN THIS EULA

IMPORTANT—READ CAREFULLY

In compliance with articles 1341 and 1342 of the Italian Civil Code or to any other equivalent provision applicable in any other jurisdiction, I hereby declare that I have read, fully understood and specifically accept the following clauses of the EULA concerning the PRODUCT:

- COPYRIGHT
- LIMITED WARRANTY
- LIMITATIONS
- LIMITED LIABILITY
- INTENDED USE
- **RESTRICTIONS**.

Date

Signature