



T-DOC Technical Documentation

Supported Machine Controllers

Internal Documentation

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New in this version

Date	Rev.	Revised by	Description/Changes
2024-10-31	59	Nicole Bertrand Post	Added information about new datalogging licenses.

See **Version history**

1. Introduction

1.1. Purpose of the document

This document provides detailed information regarding machine controllers and their possible use with T-DOC. Machine controllers are listed by manufacturer name and area of implementation.

If a machine controller or combination thereof is not listed in this document, then it is not supported by T-DOC.

Note! If you are in doubt as regards any information herein or the possible use of a machine controller with T-DOC, then you must contact Getinge IT Solutions for further information.

The content of this document will be updated regularly. Please ensure that you always use the latest version.

1.2. Important notice

To ensure that all pre-conditions are met, please read detailed information in the T-DOC Installation document for the specific controller in question. You can find all relevant T-DOC Technical Documentation on <http://doc.t-doc.com/>. The information herein does neither cover all aspects nor all details.

1.3. Audience

This document is applicable for all T-DOC sales and support personnel. Note that the document is categorized GETINGE INTERNAL, which means that it is for internal use only and must not be handed out to customers.

1.4. Terminology

INSTALLATION, NEW OR EXISTING: This refers to the installation of a T-DOC System, not a machine. Therefore, adding a machine to a T-DOC installation is not considered as a "New Installation".

HYBRID LOGGING: T-DOC v8 and higher support independent monitoring devices (also known as supervisors) for any supported controller. Previously, PACS 3000 supervisors that were supported. Therefore, if the controller and the supervisor are listed as supported in this document, then it is possible for

T-DOC to capture data from both independently and merge the data in T-DOC into the same batch record.

1.5. Implications for existing and new installations

T-DOC connectivity focuses on using Getinge NetCOM communication devices and appropriate T-DOC software. Getinge NetCOM is compatible with various T-DOC versions, but minimum v8 is required. Please note that some extended features in the Getinge NetCOM are only available with later T-DOC versions. This includes efficient communication (higher bandwidth) for all controllers and buffering for PACS controllers. Even though a customer may have the required version, an update to latest build of that version might be necessary.

For installations prior to January 2006 the following apply:

- **Expanding existing installations with machine controllers that use LinkBox AND**
- **Expanding existing installations that use RS232-RS485 converters**

Adding machine controllers to installations that use one or more LinkBoxes or RS232-RS485 converters requires the T-DOC system be upgraded to minimum T-DOC v8 to support the Getinge NetCOM connectivity on the new controllers. All new controllers must be equipped with a Getinge NetCOM as the LinkBox and RS232-RS485 converters are discontinued. Please note Warning 1 below. If you want to add connectivity to your supervisor (independent monitoring device) then this requires the controller also uses Getinge NetCOM. Therefore, you might have to upgrade your solution.

All installations of new systems made after January 2006 must use Getinge NetCOM and the latest released version of T-DOC.

1.6. General installation criteria

We recommend that you use the Getinge NetCOM Installation Checklist when ordering Getinge NetCOM from Getinge IT Solutions. The Getinge NetCOM Installation Checklist is available on <http://doc.T-DOC.com/>. A copy is in the *Appendix*.

1.7. Warning

For controllers inside the same physical machine the following rules apply:

Warning 1. Unless specifically stated otherwise in this document, the controllers must always use the same type of communication. For example it is not possible to use a RS485 converter for the controller and a Getinge NetCOM for the supervisor.

Warning 2. Unless specifically stated in this document that controllers can be mixed, the controllers must always be of the same type/model. For example, it is not possible to connect T-DOC to a machine where the controller is a PACS 300 Vaxjö and the supervisor is a PACS 3000. If you have such a scenario then "Hybrid logging" could be an solution, but please contact Getinge IT Solutions for verification.

In all cases, where the above rules or the other conditions in this document are not observed, Getinge IT Solutions reserves the right to refuse delivery of both hardware, software and support. Also, Getinge IT Solutions cannot be held responsible for any financial implications resulting from observing the conditions.

2. Getinge

2.1. Sterilizers

2.1.1. Getinge G1 Controllers

Special Requirements None.

T-DOC Version **v11:**
 Min. Release tag 11084 for G1 platform 1.4.17
 Min. Release tag 11074 for G1 platform 1.5.x

v12:
 All releases for G1 platform 1.4.17
 Min. Release tag 12039 for G1 platform 1.5.x
 Min. Release tag 12056 for G1 platform 2.0.x

v13:
 All releases for G1 platform 1.4.17 and 1.5.x
 Min. Release tag 13012 for G1 platform 2.0.x
 Min. Release tag 13044 for G1 platform 2.1.x
 Min. Release tag 13045 for G1 platform 2.2.x

v14:
 All releases for G1 platform 1.4.17, 1.5.x and 2.0.x
 Min. Release tag 14038 for G1 platform 2.1.x
 Min. Release tag 14043 for G1 platform 2.2.x and 2.3.x

v15:
 All releases for G1 platform 1.4.17, 1.5.x and 2.0.x
 Min. Release tag 14038 for G1 platform 2.1.x
 Min. Release tag 14043 for G1 platform 2.2.x and 2.3.x
 Min. Release tag 15092 for G1 platform 2.4.x and later with G1 Protocol version 3.

v16:
 All releases for G1 platform 1.4.17, 1.5.x and 2.0.x
 Min. Release tag 16030 for G1 platform 2.1.x
 Min. Release tag 16030 for G1 platform 2.2.x and 2.3.x
 Min. Release tag 16030 for G1 platform 2.4.x and later with G1 Protocol version 3.

v17:
 All releases for G1 platform 1.4.17, 1.5.x and 2.0.x
 Min. Release tag 16030 for G1 platform 2.1.x
 Min. Release tag 16030 for G1 platform 2.2.x and 2.3.x

Min. Release tag 16030 for G1 platform 2.4.x and later with G1 Protocol version 3.

v18:

All releases for G1 platform 1.4.17, 1.5.x and 2.0.x

Min. Release tag 16030 for G1 platform 2.1.x

Min. Release tag 16030 for G1 platform 2.2.x and 2.3.x

Min. Release tag 16030 for G1 platform 2.4.x and later with G1 Protocol version 3.

Firmware Versions	Earlier versions than those listed above are not supported. Recording of a sterilizer's F0 value requires minimum v.1.4.
Controller Board Revision	No restriction.
Supervisor Support	Yes. See <i>Installation Requirements</i> below.
Hardware Modifications Required	None.
Equipment Required	None.
License number	TDCY60
Installation Requirements	Network RJ45 socket. The port of the Ethernet switch that connects to the G1 must use half-duplex communication for G1 controllers with software v.1.4.18 or earlier.
Installation Documentation	INS483 - Connecting Getinge G1 controllers to T-DOC

2.1.2. PACS 300 Skärhamn Controllers

Connectivity to PACS 300 Skärhamn (previously known as PACS 3000D) may require upgrading the installed T-DOC system.

Special Requirements	The X24 connector on the controller board must be available.
T-DOC Version	Supported by a minimum T-DOC v8.
Firmware Versions	No restriction.

Controller Board Revision	No restriction.
Supervisor Support	Yes, hybrid logging (refer to paragraph 1.4 Terminology on page 11).
Hardware Modifications Required	None.
Equipment Required	Getinge NetCOM must be used for all new installations.
Installation Requirements	Getinge NetCOM: Power socket (110/220V AC) and Network RJ45 socket
NetCOM License	NetCOM O/S, COMLI Bridge, PACS Driver, PACS Buffer
NetCOM Part Number	J10020 PACS 300 Skärhamn, Internal Power J10025 PACS 300 Skärhamn, CHN
License number	TDCY62
Installation Documentation	INS234 - Connecting PACS 300 Skärhamn with Getinge NetCOM INS189 - Configuring Getinge NetCOM INS191 - NetCOM Site Preparation Checklist INS232 - Performing a Getinge NetCOM firmware upgrade INS314 - Connecting PACS to T-DOC via NetCOM (PACS Buffer)

2.1.3. PACS 350 Controllers

Connectivity to PACS 350 may require upgrading the installed T-DOC system.

Special Requirements	The X25 socket on the main board and the X25 socket on the supervisor board (if applicable) must be available. The distance between the boards must not exceed 25cm (limited by length of supervisor cable).
T-DOC Version	Supported by a minimum T-DOC v8.
Firmware Versions	All 5.x firmware versions supported. See Supervisor Support below.
Controller Board Revision	No restriction.
Supervisor Support	Yes. The versions of the main board and the supervisor firmware must both be within one of the following intervals - that is the same interval for both boards.

	5.00 to 5.01 5.02 to 5.04 5.05 to 5.07 5.08
	For example, a mix of 5.00 with 5.01, both 5.08 etc. However it would not be possible to use 5.04 on the main board with 5.07 on the supervisor board. If in doubt - only assume that it works if supervisor and controller have the same firmware version.
Hardware Modifications Required	None.
Equipment Required	Getinge NetCOM.
Installation Requirements	Power socket (110/220V AC) and Network RJ45 socket.
NetCOM License	NetCOM O/S, COMLI Bridge, PACS Driver, PACS Buffer
NetCOM Part Number	J10011/2/3/4/5, T-DOC, PACS 350, CE/GB/US/AUS/CHN
License number	TDCY62
Installation Documentation	INS237 - Connecting PACS 350 to Getinge NetCOM INS189 - Configuring Getinge NetCOM INS191 - NetCOM Site Preparation Checklist INS232 - Performing a Getinge NetCOM firmware upgrade INS314 - Connecting PACS to T-DOC via NetCOM (PACS Buffer)

2.1.4. PACS 2000 Controllers

Connectivity to PACS 2000 may require upgrading the installed T-DOC system and even a controller firmware upgrade.

Special Requirements	The RS485 socket on the main board and the RS485 socket on the supervisor board (if applicable) must be available.
T-DOC Version	Supported by a minimum T-DOC v8.
Firmware Versions	Version 2.11 or later (June 96). See Supervisor Support below.
Controller Board Revision	No restriction.

Supervisor Support	Yes. Supported versions are from 2.11 and higher and any versions of these may be mixed between the mainboard and supervisor. If in doubt - only assume that it works if supervisor and controller has same firmware.
Hardware Modifications Required	None.
Equipment Required	Getinge NetCOM must be used for all new installations.
Installation Requirements	Getinge NetCOM: Power socket (110/220V AC) and Network RJ45 socket.
NetCOM License	NetCOM O/S, COMLI Bridge, PACS Driver, PACS Buffer
NetCOM Part Number	J10031/2/3/4/5, T-DOC, PACS 2000 CE/GB/US/AUS/CHN
License number	TDCY62
Installation Documentation	INS184 - Connecting PACS 2000 to Getinge NetCOM INS189 - Configuring Getinge NetCOM INS191 - NetCOM Site Preparation Checklist INS232 - Performing a Getinge NetCOM firmware upgrade INS314 - Connecting PACS to T-DOC via NetCOM (PACS Buffer)

2.1.5. PACS 3000 Controllers

Connectivity to PACS 3000 may require upgrading the installed T-DOC system and may even require a controller firmware upgrade.

Special Requirements	The RS485 socket on the main board and the RS485 socket on the supervisor board (if applicable) must be available. The distance between the boards must not exceed 25cm (limited by length of supervisor cable).
T-DOC Version	Getinge NetCOM supported by a minimum T-DOC v8. PACS Panel (includes TP70 and Maquet panels) is only supported by T-DOC v8.
Firmware Versions	All 3.x firmware versions supported. See Supervisor Support below.
Controller Board Revision	No restriction.

Supervisor Support	Yes. The versions of the main board and the supervisor firmware must both be within one of the following intervals - that is the same interval for both boards. 3.00 to 3.07 3.08 3.09 to 3.10 3.11 3.12 to 3.13 For example, a mix of 3.04 with 3.06, both 3.08 etc. However it would not be possible to use 3.04 on the main board with 3.12 on the supervisor board. If in doubt - only assume that it works if supervisor and controller have the same firmware version.
Hardware Modifications Required	None.
Equipment Required	Getinge NetCOM must be used for all new installations.
Installation Requirements	Getinge NetCOM: Network RJ45 socket.
NetCOM License	NetCOM O/S, COMLI Bridge, PACS Driver, PACS Buffer
NetCOM Part Number	J10000, T-DOC, PACS 3000
License number	TDCY62
Installation Documentation	INS099 - Connecting PACS 3000 to Getinge NetCOM INS189 - Configuring Getinge NetCOM INS191 - NetCOM Site Preparation Checklist INS232 - Performing a Getinge NetCOM firmware upgrade INS314 - Connecting PACS to T-DOC via NetCOM (PACS Buffer)

2.1.6. PACS 3500 Controllers

Connectivity to PACS 3500 may require upgrading the installed T-DOC system.

Special Requirements	The RS485 socket on the main board and the RS485 socket on the supervisor board (if applicable) must be available. The distance between the boards must not exceed 25cm (limited by length of supervisor cable).
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T-DOC Version	Supported by a minimum T-DOC v8.
Firmware Versions	All 5.x firmware versions supported. See Supervisor Support below.
Controller Board Revision	No restriction.
Supervisor Support	Yes. The versions of the main board and the supervisor firmware must both be within one of the following intervals - that is the same interval for both boards. 5.00 to 5.01 5.02 to 5.04 5.05 to 5.07 5.08 For example, a mix of 5.00 with 5.01, both 5.08 etc. However it would not be possible to use 5.04 on the main board with 5.07 on the supervisor board. If in doubt - only assume that it works if supervisor and controller have the same firmware version.
Hardware Modifications Required	None.
Equipment Required	Getinge NetCOM.
Installation Requirements	Network RJ45 socket.
NetCOM License	NetCOM O/S, COMLI Bridge, PACS Driver, PACS Buffer
NetCOM Part Number	J10000, T-DOC, PACS 3000
License number	TDCY62
Installation Documentation	INS264 - Connecting PACS 3500 to Getinge NetCOM INS189 - Configuring Getinge NetCOM INS191 - NetCOM Site Preparation Checklist INS232 - Performing a Getinge NetCOM firmware upgrade INS314 - Connecting PACS to T-DOC via NetCOM (PACS Buffer)

2.2. Washers

2.2.1. Getinge G1 Controllers

Special Requirements	None.
T-DOC Version	v11: Min. Release tag 11084 for G1 platform 1.4.17 Min. Release tag 11074 for G1 platform 1.5.x v12: All releases for G1 platform 1.4.17 Min. Release tag 12039 for G1 platform 1.5.x Min. Release tag 12056 for G1 platform 2.0.x v13: All releases for G1 platform 1.4.17 and 1.5.x Min. Release tag 13012 for G1 platform 2.0.x Min. Release tag 13044 for G1 platform 2.1.x Min. Release tag 13045 for G1 platform 2.2.x v14: All releases for G1 platform 1.4.17, 1.5.x and 2.0.x Min. Release tag 14038 for G1 platform 2.1.x Min. Release tag 14043 for G1 platform 2.2.x and 2.3.x v15: All releases for G1 platform 1.4.17, 1.5.x and 2.0.x Min. Release tag 14038 for G1 platform 2.1.x Min. Release tag 14043 for G1 platform 2.2.x and 2.3.x Min. Release tag 15092 for G1 platform 2.4.x and later with G1 Protocol version 3. v16: All releases for G1 platform 1.4.17, 1.5.x and 2.0.x Min. Release tag 16030 for G1 platform 2.1.x Min. Release tag 16030 for G1 platform 2.2.x and 2.3.x Min. Release tag 16030 for G1 platform 2.4.x and later with G1 Protocol version 3.
Firmware Versions	Earlier versions than those listed above are not supported. Recording of a washer's A0 value requires minimum v.1.4.
Controller Board Revision	No restriction.
Supervisor Support	Yes. See <i>Installation Requirements</i> below.
Hardware Modifications Required	None.

Equipment Required	None.
Installation Requirements	Network RJ45 socket. The port of the Ethernet switch that connects to the G1 must use half-duplex communication for G1 controllers with software v.1.4.18 or earlier.
License number	TDCY60
Installation Documentation	INS483 - Connecting Getinge G1 controllers to T-DOC

2.2.2. PACS 300 Skärhamn Controllers

This controller was previously known as PACS 3000D. Please refer to the Sterilizers section – the same conditions apply.

2.2.3. PACS 300 Växjö Controllers

Connectivity to PACS 300 Växjö may require upgrading the installed T-DOC system, a controller firmware upgrade and even a controller board upgrade.

Special Requirements	The X24 connector on the controller board must be available. See installation document for use of X25 instead of X24. However, in certain situations both connectors must be available, refer to the flowcharts in <i>INS183 - Connecting PACS 300 Växjö with Getinge NetCOM</i> .
T-DOC Version	Supported by a minimum T-DOC v8.
Firmware Versions	RS232 connectivity on the X25 connector requires ROM of build 244 or later. RS232 connectivity on X24 connector with any ROM version.
Controller Board Revision	None.
Supervisor Support	Yes, hybrid logging (refer to paragraph 1.4 Terminology on page 11).
Hardware Modifications Required	None.
Equipment Required	Getinge NetCOM must be used for all new installations.

Installation Requirements	Getinge NetCOM: Power socket (110/220V AC) and Network RJ45 socket.
NetCOM License	NetCOM O/S, COMLI Bridge, PACS Driver, PACS Buffer.
NetCOM Part Number	J10020, T-DOC, PACS 300 Växjö J10025, T-DOC, PACS 300 Växjö CHN
License number	TDCY62
Installation Documentation	INS183 - Connecting PACS 300 Vaxjö with Getinge NetCOM INS189 - Configuring Getinge NetCOM INS191 - NetCOM Site Preparation Checklist INS232 - Performing a Getinge NetCOM firmware upgrade INS314 - Connecting PACS to T-DOC via NetCOM (PACS Buffer)

2.2.4. PACS 350 Controllers

Please refer to the Sterilizers section – the same conditions apply.

2.2.5. PACS 2000 Controllers

Please refer to the Sterilizers section – the same conditions apply.

2.2.6. PACS 3000 Controllers

Please refer to the Sterilizers section – the same conditions apply.

2.2.7. PACS 3500 Controllers

Please refer to the Sterilizers section – the same conditions apply.

2.2.8. Decomat Controllers

Connectivity to Decomat may require upgrading the installed T-DOC system as well as a controller board change if the print option is not available.

Special Requirements	No
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T-DOC Version	Supported by a minimum T-DOC v8.
Firmware Versions	No restriction.
Controller Board Revision	Controller board must have socket for printer port. If necessary, contact Getinge Desinfection (Växjö) for further information.
Supervisor Support	Yes, hybrid logging (refer to paragraph 1.4 Terminology on page 11).
Hardware Modifications Required	None.
Equipment Required	Getinge NetCOM.
Installation Requirements	Getinge NetCOM: Power socket (110/220V AC) and network RJ45 socket.
NetCOM License	NetCOM O/S, Data Buffer
NetCOM Part Number	J10051/2/3/4/5, T-DOC, DECOMAT Växjö, CE/GB/US/AUS/CHN
License number	TDCY62
Installation Documentation	INS173 - Connecting Decomat machines with Getinge NetCOM INS189 - Configuring Getinge NetCOM INS191 - NetCOM Site Preparation Checklist INS232 - Performing a Getinge NetCOM firmware upgrade

2.2.9. Aquadis Index

Special Requirements	None
T-DOC Version	Supported by a minimum T-DOC v17.
Firmware Versions	The G1 controller firmware version must be 2.6.2.
Controller Board Revision	None.
Supervisor Support	Yes, hybrid logging (refer to paragraph 1.4 Terminology on page 11).
Hardware Modifications Required	None.

Equipment Required

License number	TDCY60
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Installation Requirements

Installation Documentation	INS10101 – Connecting the Getinge Aquadis Washers to T-DOC
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2.3. Sealers

2.3.1. GS47 Controllers

Connectivity to GS47 Controllers may require upgrading the installed T-DOC system and the GS47's firmware.

Special Requirements	Only sealers equipped with pressure control are supported..
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T-DOC Version	Supported by a minimum T-DOC v8.
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Firmware Versions	Version 3.02 or higher is required.
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Controller Board Revision	No restriction.
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Supervisor Support	Not applicable.
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Hardware Modifications Required	Recommended to have 2 printer heads installed in the sealer, otherwise printing capabilities from T-DOC is very limited.
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Equipment Required	None.
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License number	J22109
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Installation Requirements	RS232 Cabling from Controller to PC.
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Installation Documentation	INS134 - Connecting Getinge GS47 and GS57 sealers to T-DOC
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2.3.2. GS57 Controllers

Connectivity to GS57 Controllers may require upgrading the installed T-DOC system.

Special Requirements	Only sealers equipped with pressure control are supported.
T-DOC Version	Supported by a minimum T-DOC v8.
Firmware Versions	Version 4.03 or higher is required.
Controller Board Revision	No restriction.
Supervisor Support	Not applicable.
Hardware Modifications Required	Recommended to have 2 printer heads installed in the sealer, otherwise printing capabilities from T-DOC is very limited.
Equipment Required	None.
License number	J22109
Installation Requirements	RS232 Cabling from Controller to PC.
Installation Documentation	INS134 - Connecting Getinge GS47 and GS57 sealers to T-DOC

2.3.3. ProSeal Plus

Special Requirements	None.
T-DOC Version	Supported by a minimum T-DOC v11.
Firmware Versions	No restriction.
Controller Board Revision	No restriction.
Supervisor Support	Not applicable.
Hardware Modifications Required	None.
Equipment Required	None.

License number	J22109
Installation Requirements	Ethernet cable with LAN/WAN connectivity to RJ-45 connector on sealer.
Installation Documentation	INS485 - Connecting Getinge ProSeal sealers to T-DOC

2.3.4. ProSeal Premium

Special Requirements	None.
T-DOC Version	Supported by a minimum T-DOC v11.
Firmware Versions	No restriction.
Controller Board Revision	No restriction.
Supervisor Support	Not applicable.
Hardware Modifications Required	None.
Equipment Required	None.
License number	J22109
Installation Requirements	Ethernet cable with LAN/WAN connectivity to RJ-45 connector on sealer.
Installation Documentation	INS485 - Connecting Getinge ProSeal sealers to T-DOC

2.4. Air Glide System (AGS) for Sterilizers

Connectivity is via the Getinge NetCOM preinstalled in the central unit of the AGS or for the newer AGS version via the central PLC. Each associated sterilizer in the AGS has its own Getinge NetCOM (and these are supported in accordance with the criteria in the machine-specific section of this document).

Special Requirements	None.
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T-DOC Version	Generation 1: Supported by a minimum T-DOC v8. Generation 2 Supported by a minimum T-DOC v10. Generation 3: Supported by a minimum T-DOC v12 Release tag 12056 and v13 Release tag 13012.
Firmware Versions	Generation 3: PLC min. v6.x. For T-DOC barcode compatibility v7.x is required. RF ID barcodes are not managed by v8.x and later.
Controller Board Revision	None.
Supervisor Support	Not applicable.
Hardware Modifications Required	None.
Equipment Required	None.
License number	TD1055 or J22152
Installation Requirements	Generation 1: RJ45 LAN connection to the NetCOM in the central unit of the AGS. NetCOM for AGS Main: External Power NetCOM for AGS Sterilizers: As for PACS 3500 Generation 2.0: Router required for LAN connection. NetCOM for AGS Sterilizers: As for PACS 3500 Generation 2.1: No router required. RJ45 LAN connection to the PLC. Generation 3: RJ45 LAN connection to the AGS for sterilizer PLC.
Installation Documentation	Generation 2.x: INS292 - Connecting AGS Sterilizers to T-DOC Generation 3: INS509 - Connecting Sterilizer AGS for G1 to T-DOC

2.5. Drying and storage cabinets

2.5.1. Getinge FD8

Connectivity to Getinge FD8 may require upgrading the installed T-DOC system.

Special Requirements	None.
T-DOC Version	Supported by a minimum T-DOC v12.
Firmware Versions	None.
Controller Board Revision	No restriction.
Supervisor Support	Not applicable.
Hardware Modifications Required	None.
Equipment Required	OPC server that is built into the Eurotherm iTools as provided by the supplier.
License number	TDCY40
Installation Requirements	None. T-DOC uses the OPC interface.
Installation Documentation	INS491 - Connecting Getinge FD8 to T-DOC via OPC

2.5.2. Getinge EDS8

Connectivity to Getinge EDS8 may require upgrading the installed T-DOC system.

Special Requirements	None.
T-DOC Version	Supported by a minimum T-DOC v14.
Firmware Versions	V1.1.5. (Config v40.0.2).
Controller Board Revision	PLC v1.3.0..
Supervisor Support	Not applicable.

Hardware Modifications Required	None.
Equipment Required	SmartLink with software number 04002115.
License number	TDCY40
Installation Requirements	RJ45 socket where port to EDS8 must use half-duplex communication.
Installation Documentation	INS558 - Connecting EDS8 controllers to T-DOC

2.6. Incubators

2.6.1. Getinge Assured Express Incubator

Special Requirements	None.
T-DOC Version	Supported by a minimum T-DOC v17 .1 or later.
Firmware Versions	Contact supplier.
Controller Board Revision	None.
Supervisor Support	None.
Hardware Modifications Required	None.
Equipment Required	None.
License number	J21235
Installation Requirements	None.
Installation Documentation	INS10099 – Connecting the Getinge Express Incubator to T-DOC

3. Maquet (Getinge)

3.1. Sterilizers

3.1.1. Steri Maquet Machines with B&R Controller

NOTE: The B&R control system is connected to a PC as operator panel using a Maquet developed interface.

Connectivity to a Steri Maquet machine may require upgrading the installed T-DOC system, controller software and even a PC change/upgrade.

Special Requirements	Controller must have a BNC network connector. IPX Network Protocol must be enabled for filestorage on a PC accessible by T-DOC.
T-DOC Version	Supported by a minimum T-DOC v8.
Firmware Versions	Must be minimum version 3.589e.
Controller Board Revision	Must be model 5C2000.03.
Supervisor Support	Yes, hybrid logging (refer to paragraph 1.4 Terminology on page 11).
Hardware Modifications Required	If the above requirements are not met, hardware needs to be updated.
Equipment Required	BNC to Ethernet network converter.
License number	TDCY62
Installation Requirements	Network RJ45 socket.
Installation Documentation	INS047 - Connecting SteriMaquet to T-DOC

3.1.2. Steri Maquet Machines with PACS 3X00 and PACS Panel

NOTE: The PACS 3000 or PACS 3500 control system is connected to a PC as operator panel using a PACS panel interface (TP70 and Maquet panels).

Connectivity to a Steri Maquet machine may require upgrading the installed T-DOC system.

Special Requirements	None.
T-DOC Version	PACS Panel (includes TP70 and Maquet panels) is only supported by T-DOC v8. For T-DOC v8 and higher a Getinge NetCOM must be used.
Firmware Versions	PACS 3000 only (PACS 3500 to be released Q2, 2007).
Controller Board Revision	No restriction.
Supervisor Support	Yes, hybrid logging (refer to paragraph 1.4 Terminology on page 11).
Hardware Modifications Required	None.
Equipment Required	None.
License number	TDCY62
Installation Requirements	Network RJ45 socket.
Installation Documentation	INS203 - Connecting machines with T-DOC Panel to T-DOC

3.1.3. Steri Maquet NG Machines with PACS 3X00 Controllers

The general rule is that Maquet NG (NG = New Generation) machines are equipped with PACS Panels. In that case please refer to *Steri Maquet machines with PACS 3X00 and PACS Panel* – the same conditions apply.

If the above is not the case, then please refer to *PACS 3000* or *PACS 3500* in the *Getinge Sterilizer* section depending on the PACS version installed – the same conditions apply.

3.2. Washers

3.2.1. CM302/CM303/CM304 Machines

These machines are produced by Växjö.

Please refer to Decomat, PACS 300 Växjö or PACS 350 in the Getinge Washer section depending on controller installed – the same conditions apply.

3.2.2. CM310 Machines

NOTE: The machine uses a B&R control system with a Windows Interface.

Connectivity to a CM310 machine may require upgrading the installed T-DOC system.

Special Requirements	None.
T-DOC Version	Supported by a minimum T-DOC v8.
Firmware Versions	No restriction.
Controller Board Revision	No restriction.
Supervisor Support	Yes, hybrid logging (refer to paragraph 1.4 Terminology on page 11).
Hardware Modifications Required	None.
Equipment Required	Network RJ45 socket.
License number	TDCY62
Installation Documentation	INS143 - Connecting Maquet CM310 and CM320 to T-DOC

3.2.3. CM320 Machines

As above for CM310 machines.

3.2.4. CM2000 Machines

Connectivity to CM2000 may require upgrading the installed T-DOC system.

Special Requirements	RS232 port on CM2000 must be available.
T-DOC Version	Supported by a minimum T-DOC v8.
Firmware Versions	No restriction.
Controller Board Revision	No restriction.
Supervisor Support	Yes, hybrid logging (refer to paragraph 1.4 Terminology on page 11).
Hardware Modifications Required	None.
Equipment Required	Getinge NetCOM.
Installation Requirements	Getinge NetCOM: Network RJ45 socket.
NetCOM License	NetCOM O/S, Data Buffer
NetCOM Part Number	J10211/2/3/4/5, T-DOC, CM2000, CE/GB/US/AUS/CHN
License number	TDCY62
Installation Documentation	INS295 – Connecting CM2000 with Getting NetCOM INS189 - Configuring Getinge NetCOM INS191 - NetCOM Site Preparation Checklist INS232 - Performing a Getinge NetCOM firmware upgrade

3.2.5. CM9100 Machines

Please refer to PACS 3000 or PACS 3500 in the Getinge Sterilizer section depending on PACS version installed – the same conditions apply.

4. Cisa

Files are delivered in CSV format, which in turn contain Excel files (XLS).

Special Requirements	None.
T-DOC Version	T-DOC v15.
Firmware Versions	P-1420LS/1P/V/TS/SO.
Controller Board Revision	None.
Supervisor Support	None.
Hardware Modifications Required	None.
Equipment Required	None.
License number	TDCY64
Installation Requirements	Access to file share with read and delete privileges.
Installation Documentation	None.

5. Lancer (Getinge)

5.1. Washers

5.1.1. Lancer Washer Controllers

Connectivity to Lancer washer controllers may require upgrading the installed T-DOC system and controller hardware.

Special Requirements	The washer must be equipped with at least one of the following: • Validation monitor with independent sensors (printer interface and supervisor) • Validation monitor without sensors (printer interface) • CCOM board (printer interface) The validation monitor board must have an available DB-25 connector. It may also be necessary to update the controller board.
T-DOC Version	Supported by a minimum T-DOC v8.
Firmware Versions	No restriction.
Controller Board Revision	A revision that has a CPU board with 24 relays. The controller board can be identified as follows: Hospitalia : • If manufactured before 2006 : old version of PCB (P8 and CONTROLLER) • If manufactured during 2006 : sales staff to send the washer's serial number to Lancer and they will tell them which board it is. • If manufactured after 2006 : new version of PCB (L24 and MONVAL24) The year of manufacture is printed on the ID label of the washer. It is also the first number of the serial number.
Supervisor Support	Yes, hybrid logging (refer to paragraph 1.4 Terminology on page 11).
Hardware Modifications Required	Update of board may be required.
Equipment Required	Getinge NetCOM.

Installation Requirements	Getinge NetCOM: Power socket (110/220V AC) and Network RJ45 socket.
NetCOM License	NetCOM O/S, Data Buffer
NetCOM Part Number	J10091/2/3, T-DOC, Lancer Washer CE/GB/US
License number	TDCY62
Installation Documentation	Contact GLDK for ad-hoc Getinge NetCOM instructions INS189 - Configuring Getinge NetCOM INS191 - NetCOM Site Preparation Checklist INS232 - Performing a Getinge NetCOM firmware upgrade

5.1.2. Lancer Washer L24 Controllers

Connectivity to Lancer washer controllers may require upgrading the installed T-DOC system.

Special Requirements	None (DB9 Cable must be supplied from Lancer)
T-DOC Version	Supported by a minimum T-DOC v8.
Firmware Versions	No restriction.
Controller Board Revision	L24. The controller board can be identified as follows: Hospitalia : • If manufactured before 2006 : old version of PCB (P8 and CONTROLLER) • If manufactured during 2006 : sales staff to send the washer's serial number to Lancer and they will tell them which board it is. • If manufactured after 2006 : new version of PCB (L24 and MONVAL24) The year of manufacture is printed on the ID label of the washer. It is also the first number of the serial number.
Supervisor Support	Yes, hybrid logging (refer to paragraph 1.4 Terminology on page 11).
Hardware Modifications Required	None.

Equipment Required	Getinge NetCOM
Installation Requirements	Getinge NetCOM: Power socket (110/220V AC) and Network RJ45 socket.
NetCOM License	NetCOM O/S, Data Buffer
NetCOM Part Number	J10111/2/3/4, T-DOC, Lancer Washer L24 CE/GB/US/AUS
License number	TDCY62
Installation Documentation	INS291 - Connecting Lancer Washer L24 with Getinge NetCOM INS189 - Configuring Getinge NetCOM INS191 - NetCOM Site Preparation Checklist INS232 - Performing a Getinge NetCOM firmware upgrade

5.1.3. Lancer FibroCleaner Controllers

Connectivity to Lancer fibrocleaner controllers may require upgrading the installed T-DOC system.

Special Requirements	The fibrocleaner must be equipped with at least one of the following: • Validation monitor with independent sensors (printer interface and supervisor) • Validation monitor without sensors (printer interface) • CCOM board (printer interface) The validation monitor board must have an available DB-25 connector.
T-DOC Version	Supported by a minimum T-DOC v9.
Firmware Versions	No restriction.
Controller Board Revision	No restriction.
Supervisor Support	Yes, hybrid logging (refer to paragraph 1.4 Terminology on page 11).
Hardware Modifications Required	None.
Equipment Required	Getinge NetCOM.

Installation Requirements	Getinge NetCOM: Power socket (110/220V AC) and Network RJ45 socket.
NetCOM License	NetCOM O/S, Data Buffer
NetCOM Part Number	J10101/2/3/4, T-DOC, Lancer Fibrocleaner CE/GB/US/AUS
License number	TDCY34
Installation Documentation	INS181 - Connecting Lancer Fibrocleaner with Getinge NetCOM INS189 - Configuring Getinge NetCOM INS191 - NetCOM Site Preparation Checklist INS232 - Performing a Getinge NetCOM firmware upgrade

5.1.4. Lancer Poka-Yoke

Special Requirements	None.
T-DOC Version	Supported by a minimum T-DOC v9. Contact Getinge IT Solutions for exact details.
Firmware Versions	No restriction.
Controller Board Revision	No restriction.
Supervisor Support	Yes, hybrid logging (refer to paragraph 1.4 Terminology on page 11).
Hardware Modifications Required	None.
Equipment Required	Network RJ45 socket.
License number	TDCY34
Installation Documentation	INS310 - Connecting Poka-Yoke machines to T-DOC EndoCycle

5.1.5. Lancer ED-Flow

Special Requirements	None.
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T-DOC Version	Supported by a minimum T-DOC v9. Contact Getinge IT Solutions for exact details.
Firmware Versions	The ED-FLOW must have the correct HMI version and PLC software version as follows: • HMI :Lancer_F5_2_0_2012_10_01_batch1.vdz • PLC software : api_f5_v2.0.3_2012-08-03.sta.
Controller Board Revision	No restriction.
Supervisor Support	Yes, hybrid logging (refer to paragraph 1.4 Terminology on page 11).
Hardware Modifications Required	None.
Equipment Required	Network RJ45 socket.
License number	TDCY36
Installation Documentation	INS425 - Connecting ED Flow with T-DOC EndoCycle

5.1.6. Lancer ED900

Special Requirements	None.
T-DOC Version	Supported by a minimum T-DOC v10. Contact Getinge IT Solutions for exact details.
Firmware Versions	No restriction.
Controller Board Revision	No restriction.
Supervisor Support	Yes, hybrid logging (refer to paragraph 1.4 Terminology on page 11).
Hardware Modifications Required	None.
Equipment Required	Network RJ45 socket.
License number	TDCY34

Installation INS474 - Connecting ED900 machines to T-DOC EndoCycle
Documentation

6. Stericool (Getinge)

6.1. Sterilizers

6.1.1. Stericool sterilizers

Special Requirements	None.
T-DOC Version	Supported by a minimum T-DOC v13 Release Tag 13018.
Firmware Versions	All Stericool sterilizers above version v4.00.72 are supported by T-DOC.
Controller Board Revision	No restriction.
Supervisor Support	Yes, hybrid logging (refer to paragraph 1.4 Terminology on page 11).
Hardware Modifications Required	None.
Equipment Required	Getinge NetCOM.
Installation Requirements	Getinge NetCOM: Power socket (110/220V AC) and Network RJ45 socket.
NetCOM License	NetCOM O/S, Databuffer.
NetCOM Part Number	J10231/2/3/4/5, T-DOC, Stericool, CE/GB/US/AUS/CHN
License number	TDCY62
Installation Documentation	INS525 - Connecting Stericool machines with Getinge NetCOM INS189 - Configuring Getinge NetCOM INS191 - NetCOM Site Preparation Checklist INS232 - Performing a Getinge NetCOM firmware upgrade

7. Trans Medikal (Getinge)

7.1. Sterilizers

7.1.1. Trans Medikal LANCER sterilizers

Special Requirements	None.
T-DOC Version	Supported by a minimum T-DOC v13 Release Tag 13018.
Firmware Versions	All Trans Medikal LANCER sterilizers with minimum software version v4.3.1.
Controller Board Revision	See above.
Supervisor Support	Yes, hybrid logging (refer to paragraph 1.4 Terminology on page 11).
Hardware Modifications Required	None.
Equipment Required	None.
License number	TDCY62
Installation Requirements	Trans Medikal machine connects to LAN and is configured by manufacturer to identify T-DOC Connect client via MOD number.
Installation Documentation	INS526 - Connecting Trans Medikal machines to T-DOC.

8. TSO₃

8.1. Sterilizers

8.1.1. STERIZONE VP4

Special Requirements	NetCOM SmartLink v2 (equipped with Baltos) installed in the machine.
T-DOC Version	Supported by a minimum T-DOC v14 Release Tag 14067.
Firmware Versions	All STERIZONE VP4 equipped with NetCOM SmartLink v2.
Controller Board Revision	See above.
Supervisor Support	Yes, hybrid logging (refer to paragraph 1.4 Terminology on page 11).
Hardware Modifications Required	None.
Equipment Required	Ethernet connections on same LAN/WAN for STERIZONE VP4 and Getinge T-DOC Connect Client..
License number	TDCY64
Installation Requirements	STERIZONE VP4 machine connects to LAN and is provided an IP address by which the T-DOC Connect Client can access it.
Installation Documentation	INS10001 - Connecting STERIZONE VP4 to T-DOC

9. Advanced Sterilization Products (ASP)

9.1. Sterilizers

9.1.1. Sterrad NX Controllers

Special Requirements	None.
T-DOC Version	Supported by a minimum T-DOC v8 for controllers providing standard CSV process files. Controllers with encrypted TDC process files supported by T-DOC v12 and later. Contact Getinge IT Solutions for exact details.
Firmware Versions	For CSV files version 12A0. For encrypted TDC process files: ETX1 controller with software version 110938xxxx ETX2 controller with software version 110363xxxx
Controller Board Revision	None.
Supervisor Support	Yes, hybrid logging (refer to paragraph 1.4 Terminology on page 11).
Hardware Modifications Required	None.
Equipment Required	None.
License number	TDCY64
Installation Requirements	Network RJ45 socket.
Installation Documentation	INS398 – Connecting Sterrad NX and 100NX controllers to T-DOC

9.1.2. Sterrad 100NX Controllers

Special Requirements	None.
T-DOC Version	Supported by a minimum T-DOC v8 for controllers providing standard CSV process files. Controllers with encrypted TDC process files supported by T-DOC v12 and later. Contact Getinge IT Solutions for exact details.
Firmware Versions	For CSV files version 102471-03 to 102471-06 For encrypted TDC process files: ETX1 controller with software version 110937xxxx ETX2 controller with software version 110526xxxx
Controller Board Revision	None.
Supervisor Support	Yes, hybrid logging (refer to paragraph 1.4 Terminology on page 11).
Hardware Modifications Required	None.
Equipment Required	None.
License number	TDCY64
Installation Requirements	Network RJ45 socket.
Installation Documentation	INS398 – Connecting Sterrad NX and 100NX controllers to T-DOC

10. Atherton

10.1. Sterilizers

10.1.1. Atherton

Special Requirements	The Atherton machine is connected and configured by the Atherton staff to an Atherton computer (via a serial link). This computer writes the cycle data to a fileshare that can be accessed by T-DOC (using Ethernet connectivity).
T-DOC Version	Supported by a minimum T-DOC v14 Release tag 14050.
Firmware Versions	No restriction.
Controller Board Revision	No restriction.
Supervisor Support	Not applicable.
Hardware Modifications Required	None.
Equipment Required	None.
License number	TDCY64
Installation Requirements	Ethernet access by the T-DOC Connectivity computer to the same LAN where the fileshare with the cycle data is stored by the Atherton computer.
Installation Documentation	INS565 - Connecting Atherton machines to T-DOC

11. Belimed

11.1. Sterilizers

11.1.1. MST-V

Special Requirements	Belimed ICS 8535 – Infection Control Software used to record cycle data and its parameters. Nite - The MST-V 446 is the only Belimed machine (Small Steam Sterilizer) that is not compatible with Belimed ICS and therefore not supported by T-DOC.
T-DOC Version	Supported by a minimum T-DOC v10.
Firmware Versions	No restriction.
Controller Board Revision	No restriction.
Supervisor Support	Not applicable.
Hardware Modifications Required	None.
Equipment Required	None.
License number	TDCY64
Installation Requirements	RS232 Cabling from Controller to PC.
Installation Documentation	INS433– Connecting Belimed machines to T-DOC

11.1.2. MST-H

Same as for MST-V.

11.2. Washers

11.2.1. WD200

Same as for MST-V.

11.2.2. WD230

Same as for MST-V.

11.2.3. WD250

Same as for MST-V.

11.2.4. WD290

Same as for MST-V.

11.2.5. WD290-CPTOP

Same as for MST-V.

11.2.6. WD390

Special Requirements	Belimed ICS 8535 – Infection Control Software used to record cycle data and its parameters.
T-DOC Version	Supported by a minimum T-DOC v12.
Firmware Versions	No restriction.
Controller Board Revision	No restriction.
Supervisor Support	Not applicable.

Hardware Modifications Required	None.
Equipment Required	None.
License number	TDCY64
Installation Requirements	RS232 Cabling from Controller to PC.
Installation Documentation	INS433– Connecting Belimed machines to T-DOC

11.2.7. WD750

Same as for WD390.

11.2.8. WA290

Special Requirements	Belimed ICS 8535 – Infection Control Software used to record cycle data and its parameters.
T-DOC Version	Supported by a minimum T-DOC v16.
Firmware Versions	No restriction.
Controller Board Revision	No restriction.
Supervisor Support	Not applicable.
Hardware Modifications Required	None.
Equipment Required	None.
License number	TDCY64
Installation Requirements	RS232 Cabling from Controller to PC.
Installation Documentation	INS10088– Connecting Belimed WA290 to T-DOC

12. Cantel

12.1. Endoscope washers

12.1.1. CSV

Special Requirements	Machine controller and T-DOC require access to local file share. Only data logging via CSV files exported from the Cantel machines are supported. Logging via the Canexis BOX is currently not supported.
T-DOC Version	Supported by a minimum T-DOC v15 and v16 released on or after 26-09-2020.
Firmware Versions	Contact supplier for details.
Controller Board Revision	No restriction.
Supervisor Support	Not applicable.
Hardware Modifications Required	None.
Equipment Required	T-DOC requires Network access to file share.
License number	TDCY38
Installation Requirements	None
Installation Documentation	INS10065– Connecting Cantel machines to T-DOC

12.1.2. Cantel Advantage Plus Endo Washer (XML)

Special Requirements	-
T-DOC Version	T-DOC v15 (release tag 15138, build 15.1.1.13092 from 2021-12-16) or later.
Firmware Versions	Cantel Advantage Plus Endo Washer

Controller Board Revision	-
Supervisor Support	-
Hardware Modifications Required	-
Equipment Required	-
License number	TDCY38
Installation Requirements	-
Installation Documentation	INS10082_01 – Connecting Cantel Advantage Plus Endo Washer

12.2. Drying cabinets

12.2.1. Cantel EndoDry drying cabinet (XML)

Special Requirements	-
T-DOC Version	T-DOC v15 (release tag 15138, 15.1.1.13092 from 2021-12-16) or later.
Firmware Versions	Cantel EndoDry drying cabinet
Controller Board Revision	-
Supervisor Support	-
Hardware Modifications Required	-
Equipment Required	-
License number	TDCY42
Installation Requirements	-

Installation INS10083_01 – Connecting Cantel EndoDry drying cabinet
Documentation

13. **HAWO**

13.1. Sealers

13.1.1. HM950

Special Requirements	None.
T-DOC Version	The minimum T-DOC version is v15, released after April 1, 2021.
Software Versions	The minimum allowed software version is 4.02.21.
Firmware Versions	The minimum allowed firmware version is 10.374.03.01.
Controller Board Revision	No restriction.
Supervisor Support	Not applicable.
Hardware Modifications Required	None.
Equipment Required	None.
License number	J22109
Installation Requirements	RS232 (Serial to USB) cabling from Controller to PC.
Installation Documentation	INS10000 - Connecting Hawo HM950 Sealers to T-DOC

13.1.2. HM2010

Special Requirements	None.
T-DOC Version	Supported by a minimum T-DOC v8.
Firmware Versions	No restriction.

Controller Board Revision	No restriction.
Supervisor Support	Not applicable.
Hardware Modifications Required	None.
Equipment Required	None.
License number	J22109
Installation Requirements	RS232 Cabling from Controller to PC.
Installation Documentation	INS326 - Connecting hawo Sealers to T-DOC

13.1.3. HM2020

As above for hm 2010, but note that HM2020 uses two printing heads and both should be available, otherwise printing capabilities from T-DOC are very limited.

13.1.4. HM3010

Special Requirements	None.
T-DOC Version	Supported by a minimum T-DOC v8.
Firmware Versions	No restriction.
Controller Board Revision	No restriction.
Supervisor Support	Not applicable.
Hardware Modifications Required	None.
Equipment Required	None.
License number	J22109

Installation
Requirements

RS232 Cabling from Controller to PC.

Installation
Documentation

INS326 - Connecting hawo Sealers to T-DOC

13.1.5. HM3020

As above for hm 3010, but note that HM3020 uses two printing heads and both should be available, otherwise printing capabilities from T-DOC are very limited.

14. HUMANMEDITEK

14.1. Sterilizers

14.1.1. HUMANMEDITEK Embedded (HMTS) machines

Applicable for the following sterilizers:

- HMTS-30E
- HMTS-80E
- HMTS-142
- HMTS-142D
- HMTS-80E PLUS
- HMTS-142 PLUS
- HMTS-142D PLUS

Special Requirements	Controller must have MS Windows Embedded OS installed and support ECP. HMTS firmware machines do not support T-DOC.
T-DOC Version	Supported by a minimum T-DOC v12.
Firmware Versions	No restriction.
Controller Board Revision	No restriction.
Supervisor Support	Not applicable.
Hardware Modifications Required	None.
Equipment Required	None.
License number	TDCY64
Installation Requirements	TCP/IP with T-DOC Connect Client as the server (via socket setting).
Installation Documentation	INS503 – Connecting HUMANMEDITEK machines to T-DOC

15. JUMO

15.1. Sterilizers

15.1.1. JUMO LOGOSCREEN 500

Special Requirements	None.
T-DOC Version	Supported by a minimum T-DOC v10.
Firmware Versions	No restriction.
Controller Board Revision	No restriction.
Supervisor Support	Not applicable.
Hardware Modifications Required	None.
Equipment Required	Direct RS232 connection between JUMO LOGOSCREEN recorder and T-DOC computer.
License number	TDCY64
Installation Requirements	RS232 Cabling from Controller to PC.
Installation Documentation	INS467 - Connecting Jumo Logoscreen recorders to T-DOC

15.1.2. JUMO LOGOSCREEN 500 cf

As above for JUMO LOGOSCREEN 500.

15.1.3. JUMO LOGOSCREEN 600

Special Requirements	None.
T-DOC Version	Supported by T-DOC v14 (Min. Release tag 14085) and v15 (Min. Release tag 15035). .

Firmware Versions	No restriction.
Controller Board Revision	No restriction.
Supervisor Support	Not applicable.
Hardware Modifications Required	None.
Equipment Required	Direct RS232 connection between JUMO LOGOSCREEN recorder and T-DOC computer.
License number	TDCY64
Installation Requirements	TCP/IP with T-DOC Connect Client (via MODBUS and Port number)..
Installation Documentation	INS10029 - Connecting Jumo Logoscreen 600 recorders to T-DOC

15.2. Washers

15.2.1. JUMO LOGOSCREEN 500

As above for JUMO LOGOSCREEN 500 sterilizers.

15.2.2. JUMO LOGOSCREEN 500 cf

As above for JUMO LOGOSCREEN 500 sterilizers.

15.2.3. JUMO LOGOSCREEN 600

As above for JUMO LOGOSCREEN 600 sterilizers.

16. KEN A/S

16.1. Washers

16.1.1. KEN XML-Connect machines

Applicable for the KEN washers as specified by the *KEN XML Protocol v005* document where the following are included:

- IQ5 S
IQ6 S
- IWD 521
IWD 521 XLS
IWD 521 XLS UL
IWD 22XX
IWD 23XX
- CWD 5000
- BWD 731
BWD 733
BWD 736
BWD 738

Special Requirements	None.
T-DOC Version	Supported by a minimum T-DOC v10
Firmware Versions	No restriction.
Controller Board Revision	No restriction.
Supervisor Support	Not applicable.
Hardware Modifications Required	None.
Equipment Required	None.
License number	TDCY64

Installation
Requirements

Network RJ45 socket.

Installation
Documentation

INS452 - Connecting KEN XML-Connect machines to T-DOC

17. Lautenschläger

17.1. Sterilizers

17.1.1. Lautenschläger machines

Special Requirements	Must be equipped with X20/Power panel control system.
T-DOC Version	Supported by a minimum T-DOC v11 (Min. build 11.1.1.4287)
Firmware Versions	No restriction.
Controller Board Revision	No restriction.
Supervisor Support	Not applicable.
Hardware Modifications Required	None.
Equipment Required	None.
License number	TDCY64
Installation Requirements	Machine connects to LAN via RJ45 10BaseT/100BaseT.
Installation Documentation	INS471 - Connecting Lautenschläger machines to T-DOC

18. Matachana

18.1. Sterilizers

18.1.1. Matachana machines

Special Requirements	None.
T-DOC Version	Supported by a minimum T-DOC v10 Release 10074.
Firmware Versions	All machines from 2012 and later. Machines prior to 2012 may need to be updated. However note that the Matachana machine must have software version 1.0.8 or later. Contact you Matachana representative who can confirm your software version and perform a software upgrade if this is deemed necessary. It may be possible to use the same communication protocol with other Matachana machines via their supervisor software. This is subject to the manufacturer's decision and further details are available upon request.
Controller Board Revision	All machines from 2012 and later.
Supervisor Support	Not applicable.
Hardware Modifications Required	None.
Equipment Required	None.
License number	TDCY64
Installation Requirements	Matachana machine connects to LAN and is configured by manufacturer to identify T-DOC Connect client via SCK number.
Installation Documentation	INS457 - Connecting Matachana machines to T-DOC

19. MediSafe

19.1. Washers

19.1.1. Medisafe NIAGARA

T-DOC uses the printer output for logging. As the format of the printer output depends on the specific Medisafe washer model, an example of the data must be sent to Getinge IT Solutions before it can be determined whether the washer is supported.

Connectivity to Medisafe Controllers may require upgrading the installed T-DOC system.

Special Requirements	See above.
T-DOC Version	Supported by a minimum T-DOC v10 and higher released on or after 11-09-2020.
Firmware Versions	No restriction.
Controller Board Revision	No restriction.
Supervisor Support	Yes, hybrid logging (refer to paragraph 1.4 Terminology on page 11).
Hardware Modifications Required	None.
Equipment Required	Getinge NetCOM.
Installation Requirements	Power socket (110/220V AC) and Network RJ45 socket.
NetCOM License	NetCOM O/S, Data Buffer
NetCOM Part Number	J10221/2/3/4/5, T-DOC, Medisafe Niagara, CE/GB/US/AUS/CHN
License number	TDCY64
Installation Documentation	INS448 - Connecting Medisafe Niagara washer-disinfectors with Getinge NetCOM INS189 - Configuring Getinge NetCOM INS191 - NetCOM Site Preparation Checklist INS232 - Performing a Getinge NetCOM firmware upgrade

19.1.2. Medisafe Sonic Irrigator PCF and PCF PRO

T-DOC uses the printer output for logging. As the format of the printer output depends on the specific Medisafe washer model, an example of the data must be sent to Getinge IT Solutions before it can be determined whether the washer is supported.

Connectivity to Medisafe Controllers may require upgrading the installed T-DOC system.

Special Requirements	See above.
T-DOC Version	Medisafe Sonic Irrigator PCF T-DOC v8 as minimum. Medisafe Sonic Irrigator PCF PRO T-DOC version 15 and higher released on or after 12-09-2020
Firmware Versions	No restriction.
Controller Board Revision	No restriction.
Supervisor Support	Yes, hybrid logging (refer to paragraph 1.4 Terminology on page 11).
Hardware Modifications Required	None.
Equipment Required	Getinge NetCOM.
Installation Requirements	Power socket (110/220V AC) and Network RJ45 socket.
NetCOM License	NetCOM O/S, Data Buffer
NetCOM Part Number	J10161/2/3/4/5, T-DOC, Medisafe, CE/GB/US/AUS/CHN
License number	TDCY64
Installation Documentation	INS297 - Connecting Medisafe Sonic Irrigator PCF with Getinge NetCOM INS189 - Configuring Getinge NetCOM INS191 - NetCOM Site Preparation Checklist INS232 - Performing a Getinge NetCOM firmware upgrade

20. Mettler TOLEDO

20.1. Weighing scales

20.1.1. Mettler TOLEDO weighing scales

Special Requirements	Weighing scale must support SICS protocol. If a RS232-USB connection is used between the weighing scale and the T-DOC computer, then an appropriate driver must be downloaded from Mettler Toledo and installed.
T-DOC Version	Supported by a minimum T-DOC v8.
Firmware Versions	No restriction.
Controller Board Revision	No restriction.
Supervisor Support	Not applicable.
Hardware Modifications Required	None.
Equipment Required	None.
License number	None.
Installation Requirements	RS232 or USB cable as appropriate from weighing scale to PC.
Installation Documentation	INS444 - Connecting Mettler Toledo weighing scales to T-DOC

21. Miele

21.1. Sterilizers

21.1.1. Miele PS5662

Special Requirements	None.
T-DOC Version	Supported by a minimum T-DOC v15 or v16 on or after 01-01-2021. Contact Getinge IT Solutions for exact details.
Firmware Versions	None.
Controller Board Revision	None.
Supervisor Support	Yes, hybrid logging (refer to paragraph 1.4 Terminology on page 11).
Hardware Modifications Required	None.
Equipment Required	None.
License number	TDCY64
Installation Requirements	Network RJ45 socket.
Installation Documentation	INS10074 - Connecting Miele PS5662 Sterilizers to T-DOC

21.2. Washers

21.2.1. Miele ProfitronicPlus

Special Requirements	None.
T-DOC Version	Supported by a minimum T-DOC v9. Contact Getinge IT Solutions for exact details.
Firmware Versions	None.

Controller Board Revision	None.
Supervisor Support	Yes, hybrid logging (refer to paragraph 1.4 Terminology on page 11).
Hardware Modifications Required	None.
Equipment Required	None.
License number	TDCY64
Installation Requirements	Network RJ45 socket.
Installation Documentation	INS419 - Connecting ProfitronicPlus washers to T-DOC

21.2.2. Miele washers via NetBox.2

Connectivity to Miele NetBox.2 may require upgrading the installed T-DOC system.

Special Requirements	Connectivity requires NetBox.2 from Miele. This must be installed and configured by Miele.
T-DOC Version	T-DOC v15 Release tag 15070 or higher.
Firmware Versions	NetBox.2 software with production date July 2019 or later.
Controller Board Revision	No restriction.
Supervisor Support	None.
Hardware Modifications Required	None.
Equipment Required	NetBox.2 from Miele.
License number	TDCY64
Installation Requirements	Network RJ45 socket allowing data availability to the T-DOC Connect Client via a LAN TCP (RST connection in T-DOC).
Installation Documentation	INS10049 - Connecting Miele washers via NetBox2 to T-DOC

22. MMM

22.1. Sterilizers

22.1.1. Selectomat PL

Connectivity to MMM Selectomat PL controllers may require upgrading the installed T-DOC system.

Special Requirements	The separate PC preparing the machine process file for delivery to T-DOC must have SimServer v.1.14 (dated 1 April 2009) or higher installed. This program is supplied and installed by MMM technicians. For the new XML format this requires SimServer v.1.30 or higher.
T-DOC Version	The standard file is supported by a minimum T-DOC v8. The XML file format is supported by a minimum T-DOC v12.
Firmware Versions	No restriction.
Controller Board Revision	No restriction.
Supervisor Support	Yes, hybrid logging (refer to paragraph 1.4 Terminology on page 11).
Hardware Modifications Required	None.
Equipment Required	None.
License number	TDCY64
Installation Requirements	Network RJ45 socket.
Installation Documentation	INS346 - Connecting MMM Selectomat PL sterilizers to T-DOC

22.2. Washers

22.2.1. Uniclean PL II and Uniclean ML

Connectivity to Uniclean PL II and/or Uniclean ML controllers may require upgrading the installed T-DOC system.

Special Requirements	The separate PC preparing the machine process file for delivery to T-DOC must have SimServer v.1.41 or higher installed. This program is supplied and installed by MMM technicians.
T-DOC Version	The standard file is supported by a minimum T-DOC v13 Release tag 13027 or higher.
Firmware Versions	No restriction.
Controller Board Revision	No restriction.
Supervisor Support	Yes, hybrid logging (refer to paragraph 1.4 Terminology on page 11).
Hardware Modifications Required	None.
Equipment Required	None.
License number	TDCY64
Installation Requirements	Network RJ45 socket.
Installation Documentation	INS544 - Connecting MMM Uniclean PL II and MMM Uniclean ML washers to T-DOC

22.3. Endoscope washers

22.3.1. MMM AER endoscope washers

Connectivity to MMM AER endoscope washers may require upgrading the installed T-DOC system.

Special Requirements	Only MMM AER endoscope washers that support Control Data SQL Replication are supported. The machines must have a BHT MMM UK Cerberus Independent Monitoring System - E4 and E5 systems. The separate Gen8 Microserver preparing the machine process file for delivery to T-DOC. This program is supplied and installed by MMM technicians.
T-DOC Version	The standard file is supported by a minimum T-DOC v14 Release tag 14064 or higher.
Firmware Versions	No restriction.
Controller Board Revision	No restriction.
Supervisor Support	Yes, hybrid logging (refer to paragraph 1.4 Terminology on page 11).
Hardware Modifications Required	None.
Equipment Required	None.
License number	TDCY38
Installation Requirements	Network RJ45 socket allowing data availability to the T-DOC Connect Client via a LAN TCP (ADO SQL connection).
Installation Documentation	INS564 - Connecting MMM AER endoscope washers to T-DOC

23. Olympus

23.1. Endoscope washers

23.1.1. Olympus NetBox.2 ETD Double

Connectivity to Olympus NetBOX 2 ETD Double may require upgrading the installed T-DOC system.

Special Requirements	Connectivity requires NetBox.2 from Olympus. This must be installed and configured by Olympus.
T-DOC Version	The standard file is supported by a minimum T-DOC v14 Release tag 14086 or higher and T-DOC v15 Release tag 15039 or higher.
Firmware Versions	No restriction.
Controller Board Revision	No restriction.
Supervisor Support	No.
Hardware Modifications Required	None.
Equipment Required	NetBox.2 from Olympus.
License number	TDCY38
Installation Requirements	Network RJ45 socket allowing data availability to the T-DOC Connect Client via a LAN TCP (RST connection in T-DOC).
Installation Documentation	INS10023 - Connecting Olympus NetBox 2 ETD Double to T-DOC

23.1.2. Olympus endoscope washers connected via the Hytrack system

The following endo washer machine types are supported:

- Olympus ETD Double
- Olympus ETD4 Plus
- Olympus ETD3 Plus

- Olympus ETD Mini
- Olympus Endoscan3 and Endoscan2 (to connect ETD3 Basic and ETD4 Basic)
- Olympus MiniETD2

Special Requirements	Connectivity requires Hytrack v1.3 from Olympus. This must be installed and configured by Olympus.
T-DOC Version	T-DOC version 16 or higher.
Firmware Versions	Contact supplier.
Controller Board Revision	Not applicable.
Supervisor Support	None.
Hardware Modifications Required	None.
Equipment Required	None.
License number	TDCY38
Installation Requirements	Network RJ45 socket.
Installation Documentation	INS10096 - Connecting Olympus Hytrack Endo Washers to T-DOC.

23.2. Endoscope drying cabinets

23.2.1. Olympus EDC Plus (4 and 8 shelves) (Hytrack)

Special Requirements	Connectivity requires Hytrack v1.3 from Olympus. This must be installed and configured by Olympus.
T-DOC Version	T-DOC version 16 or higher.
Firmware Versions	Contact supplier.
Controller Board Revision	Not applicable.

Supervisor Support	None.
Hardware Modifications Required	None.
Equipment Required	None.
License number	TDCY42
Installation Requirements	Network RJ45 socket.
Installation Documentation	INS10097 - Connecting Olympus Hytrack Drying Cabinets to T-DOC

24. OPC Logging

24.1. Controllers accessible through an OPC Server

Connectivity to an OPC based controllers may require upgrading the installed T-DOC system.

Special Requirements	The OPC Server must to fulfill a number of specific requirements. Please contact Getinge IT Solutions to request the document INS261- Data logging using OPC.
T-DOC Version	Supported by a minimum T-DOC v8.
Firmware Versions	OPC DA version 1.0, 2.0 or 3.0 supported.
Controller Board Revision	Not applicable.
Supervisor Support	Yes, hybrid logging (refer to paragraph 1.4 Terminology on page 11).
Hardware Modifications Required	Not applicable.
Equipment Required	Not applicable.
Installation Requirements	Network RJ45 socket.
Installation Documentation	INS261 - DataLogging using OPC

25. PMT

25.1. Sterilizers

25.1.1. PMT DS2000HR

Connectivity to PMTDS2000HR controllers may require upgrading the installed T-DOC system.

Special Requirements	None.
T-DOC Version	T-DOC v15, T-DOC v16 and higher released on or after 11-09-2020. Earlier releases of T-DOC are not supported.
Firmware Versions	The machine must have firmware that as a minimum supports the specification <i>XML EXPORT DATA V2.8 for STERILIZERS</i> (the XML version) or higher.
Controller Board Revision	No restriction.
Supervisor Support	Yes, hybrid logging (refer to paragraph 1.4 Terminology on page 11).
Hardware Modifications Required	None.
Equipment Required	None.
License number	TDCY64
Installation Requirements	Machine process information is transferred from the PMT machine to T-DOC via a stored file, live logging, etc. T-DOC requires access (network or similar) to the file share or hard drive share to where the process files are placed. Connection is via LAN RJ45 (Cat 5e or higher) network cable to a network connection point. The PMS machine must have full read and write access to the network share.
Installation Documentation	INS10066_01_US - Connecting PMT Machines to T-DOC.pdf.

26. Soluscope

26.1. Endoscope washers

26.1.1. Soluscope Serie 1, Serie 4, Sprint PT, and Serie TEE

The following applies to these Soluscope endoscope washers.

Special Requirements	None
T-DOC Version	T-DOC v16. Earlier releases of T-DOC are not supported.
Firmware Versions	No restriction.
Controller Board Revision	No restriction.
Supervisor Support	No.
Hardware Modifications Required	None.
Equipment Required	None.
License number	TDCY38
Installation Requirements	None.
Installation Documentation	INS10084 - Configuring Soluscope Endo Washers

26.2. Endoscope dryers

26.2.1. Soluscope DSC8000 and AS300

The following applies to the Soluscope DSC8000 and AS300 endoscope dryers.

Special Requirements	None.
T-DOC Version	T-DOC v16. Earlier releases of T-DOC are not supported.
Firmware Versions	No restriction.

Controller Board Revision	No restriction.
Supervisor Support	No.
Hardware Modifications Required	None.
Equipment Required	None.
License number	TDCY42
Installation Requirements	None.
Installation Documentation	INS10085 - Configuring Soluscope Endo Dryers

27. Steelco

27.1. Sterilizers

27.1.1. Steelco VS

Support is provided for all Steelco VS sterilizers. Please contact GLDK for approval of model and/or control system BEFORE offering the solution to the customer.

Special Requirements	The data files from the sterilizers are created by the Steelco Data program. This program is supplied by Steelco and must at least be the following version: 6.0.26 for Steelco VS.
T-DOC Version	Supported by a minimum T-DOC v13 Release tag 13031.
Firmware Versions	No restriction.
Controller Board Revision	No restriction.
Supervisor Support	Yes, hybrid logging (refer to paragraph 1.4 Terminology on page 11).
Hardware Modifications Required	None.
Equipment Required	None.
License number	TDCY64
Installation Requirements	None.
Installation Documentation	INS10090 - Connecting Steelco PWD8628 Washers with Steelco Data Live

27.1.2. Steelco PL130

Support is provided for the Steelco PL 130 sterilizer. Please contact GLDK for approval of model and/or control system before offering the solution to the customer.

Special Requirements	The data files from the sterilizers are created by the Steelco Data program. This program is supplied by Steelco and must at least be the following version: Ver. PL 2.xxx
T-DOC Version	Supported by a minimum T-DOC v16 from September/October 2022.
Firmware Versions	No restriction.
Controller Board Revision	No restriction.
Supervisor Support	Yes, hybrid logging (refer to paragraph 1.4 Terminology on page 11).
Hardware Modifications Required	None.
Equipment Required	None.
License number	TDCY64
Installation Requirements	None.
Installation Documentation	INS10092 - Connecting Steelco PLS130 Sterilizers

27.2. Washers

27.2.1. Steelco DS, LC and TW

Only very specific models and control system versions are supported. Currently this is for:

- Steelco DS 610 SL washers
- Steelco DS 750 washers
- Steelco DS 800 washers
- Steelco DS 900 washers
- Steelco DS 1000 washers
- Steelco LC 80 washers
- Steelco TW 3000/2, /3, /4, and /5 washers

Please contact GLDK for approval of model and/or control system before offering the solution to the customer.

Special Requirements	The data files from the washers are created by the Steelco Data program. This program is supplied by Steelco and must at least be the following version: • 1.23.00 for DS 750, DS 800, DS 900 and DS 1000 • 1.02.00 for LC 80. • 6.0.28 for TW 3000/2. • 6.0.16 for DS 610 SL.
T-DOC Version	All are supported by a minimum T-DOC v8, with the exception of DL 610 SL that requires a minimum T-DOC v13, and TW 3000/3 and higher, which require a minimum T-DOC v16.
Firmware Versions	No restriction.
Controller Board Revision	No restriction.
Supervisor Support	Yes, hybrid logging (refer to paragraph 1.4 Terminology on page 11).
Hardware Modifications Required	None.
Equipment Required	None.
License number	TDCY64
Installation Requirements	None.
Installation Documentation	INS394 - Connecting Steelco washers to T-DOC

27.2.2. Steelco PWD8628 Washers with Steelco Data Live

Steelco PWD8628 Washers with Steelco Data Live use a REST-based API to retrieve live data from the Steelco washer. T-DOC can then call the Steelco Data Live API to receive the machine's data.

Please contact GLDK for approval of model and/or control system BEFORE offering the solution to the customer.

Special Requirements	Must be able to connect to Steelco Data Live.
T-DOC Version	Supported by T-DOC version 16 or higher
Firmware Versions	No restriction.
Controller Board Revision	No restriction.
Supervisor Support	Yes, hybrid logging (refer to paragraph 1.4 Terminology on page 11).
Hardware Modifications Required	None.
Equipment Required	None.
License number	TDCY64
Installation Requirements	None.
Installation Documentation	INS10090 - Connecting Steelco PWD8628 Washers with Steelco Data Live

27.3. Endoscope washers

27.3.1. Steelco EW1 and EW2 endoscope washers

This following applies to Steelco EW1 and Steelco EW2 endoscope washers.

Special Requirements	None.
T-DOC Version	T-DOC v15 and higher released on or after 11-09-2020. Earlier releases of T-DOC are not supported.
Firmware Versions	No restriction.
Controller Board Revision	No restriction.
Supervisor Support	Not applicable.
Hardware Modifications Required	None.

Equipment Required	None.
License number	TDCY38
Installation Requirements	Network RJ45 socket.
Installation Documentation	INS10040 - Connecting Steelco EW1 and EW2 Endoscope Washers to T-DOC

27.4. Drying and storage cabinets

27.4.1. Steelco ED 200, ED 200S and ED 250 endoscope drying cabinets

Special Requirements	None.
T-DOC Version	T-DOC v15 and higher released on or after 11-09-2020. Earlier releases of T-DOC are not supported.
Firmware Versions	No restriction.
Controller Board Revision	No restriction.
Supervisor Support	Not applicable.
Hardware Modifications Required	None.
Equipment Required	None.
License number	TDCY42
Installation Requirements	Network RJ45 socket.
Installation Documentation	INS10041 - Connecting Steelco ED200 Drying Cabinets to T-DOC

28. Steris

28.1. Sterilizers

28.1.1. Steris V-PRO and V-PRO maX controllers

Connectivity to Steris V-PRP and V-PRO maX controllers may require upgrading the installed T-DOC system.

Special Requirements	The Steris ProConnect software must be installed on the T-DOC computer being connected to. Recommended ProConnect minimum v.1.3.1.
T-DOC Version	Steris V-PRO and Steris V-PRO maX controllers are supported by a minimum T-DOC v10.
Firmware Versions	No restriction.
Controller Board Revision	No restriction.
Supervisor Support	Yes, hybrid logging (refer to paragraph 1.4 Terminology on page 11).
Hardware Modifications Required	None.
Equipment Required	None.
License number	TDCY64
Installation Requirements	Steris ProConnect software on the T-DOC computer.
Installation Documentation	INS466 - Using ProConnect to connect Steris machines to T-DOC.

28.1.2. Steris controllers with ConnectAssure

Connectivity to Steris V-PRO S2, V-PRO maX2 and AMSCO 600 US controllers may require upgrading the installed T-DOC system.

Special Requirements	ConnectAssure and LAN5053 must be available.
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T-DOC Version	The T-DOC system must be v15, v16 or higher, released on or after 11-09-2020.
Firmware Versions	As minimum, V-PRO S2, V-PRO maX2 and AMSCO 600 US.
Controller Board Revision	No restriction.
Supervisor Support	Yes, hybrid logging (see Terminology).
Hardware Modifications Required	None.
Equipment Required	None.
License number	TDCY64
Installation Requirements	Steris ConnectAssure to handle a File Share for each machine.
Installation Documentation	INS10064_01_US - Connecting Steris machines using ConnectAssure.pdf

28.1.3. Steris Reliance Vision Single Chamber with ConnectAssure

Special Requirements	ConnectAssure and LAN5053 must be available.
T-DOC Version	T-DOC v15 (Release tag 15117 from 01-12-2020) and v16 (Release tag 16030 from 16-12-2020) or later.
Firmware Versions	Steris Reliance Vision Single Chamber Washer/Disinfector
Controller Board Revision	-
Supervisor Support	-
Hardware Modifications Required	-
Equipment Required	-
License number	TDCY64

Installation Requirements	Steris ConnectAssure to handle a File Share for each machine.
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Installation Documentation	INS10072_02 – Connecting Steris washers to T-DOC using ConnectAssure
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28.2. Washers

28.2.1. Steris Vision Controllers

Connectivity to Steris Vision controllers may require upgrading the installed T-DOC system.

Special Requirements	PDVS option must be installed and enabled.
T-DOC Version	Supported by a minimum T-DOC v8.
Firmware Versions	No restriction.
Controller Board Revision	No restriction.
Supervisor Support	Yes, hybrid logging (refer to paragraph 1.4 Terminology on page 11).
Hardware Modifications Required	None.
Equipment Required	None.
License number	TDCY64
Installation Requirements	Network RJ45 socket.
Installation Documentation	INS287 - Connecting Steris Vision washers to T-DOC

28.2.2. Steris Cart

Only very specific models and control system versions are supported. Please contact GLDK for approval of model and/or control system BEFORE offering the solution to the customer.

Special Requirements	A special version of the controller software is required. Please contact GLDK or the manufacturer for details.
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T-DOC Version	Supported by a minimum T-DOC v8.
Firmware Versions	No restriction.
Controller Board Revision	No restriction.
Supervisor Support	Yes, hybrid logging (refer to paragraph 1.4 Terminology on page 11).
Hardware Modifications Required	None.
Equipment Required	None.
License number	TDCY64
Installation Requirements	None.
Installation Documentation	None.

28.2.3. Steris AMSCO using ConnectAssure

Special Requirements	Only the following Steris (AMSCO) washer models are supported when using ConnectAssure with T-DOC: • AMSCO 3052/5052 • AMSCO 7053L • AMSCO 7052HP • AMSCO 7053HP
T-DOC Version	Supported by a minimum T-DOC v15 (Release tag 15117 from 01-12-2020) and v16 (Release tag 16030 from 16-12-2020) or later.
Firmware Versions	No restriction.
Controller Board Revision	No restriction.
Supervisor Support	Yes, hybrid logging (refer to paragraph 1.4 Terminology on page 11).
Hardware Modifications Required	None.

Equipment Required	LAN and ConnectAssure.
License number	TDCY64
Installation Requirements	None.
Installation Documentation	INS10072 - Connecting Steris washers using ConnectAssure

28.2.4. Steris AMSCO with XML Interface

Only very specific models and control system versions are supported. Please contact GLDK for approval of model and/or control system BEFORE offering the solution to the customer.

Special Requirements	Only Steris (AMSCO) washer models 3053 and 5053 are supported when using the XML Interface with T-DOC.
T-DOC Version	Supported by a minimum T-DOC v12 (Release tag 12048 build number 5607) or later.
Firmware Versions	No restriction.
Controller Board Revision	No restriction.
Supervisor Support	Yes, hybrid logging (refer to paragraph 1.4 Terminology on page 11).
Hardware Modifications Required	None.
Equipment Required	None.
License number	TDCY64
Installation Requirements	HTP Port, typically 80 and the IP address of the machine being connected to.
Installation Documentation	INS510 - Connecting Steris XML Interface to T-DOC

28.3. Endoscope washers

28.3.1. MEDIVATORS™ ADVANTAGE PLUS™ Automated Endoscope Reprocessor

Special Requirements	None.
T-DOC Version	T-DOC version 16 and 17.
Firmware Versions	Contact supplier for details
Controller Board Revision	No restriction.
Supervisor Support	Not applicable
Hardware Modifications Required	None.
Equipment Required	None.
License number	TDCY38
Installation Requirements	Ensure that a standard HTTPS port (443 or 8443) is available for encrypted communication between T-DOC and the Steris REST service.
Installation Documentation	INS10093 - Connecting Steris Machines with the ConnectAssure REST Interface

28.4. Endoscope drying cabinets

28.4.1. ENDODRY™ Drying and Storage System

Special Requirements	None.
T-DOC Version	T-DOC version 16 and 17.
Firmware Versions	Contact supplier for details.
Controller Board Revision	No restriction.

Supervisor Support	Not applicable.
Hardware Modifications Required	None.
Equipment Required	None.
License number	TDCY42
Installation Requirements	Ensure that a standard HTTPS port (443 or 8443) is available for encrypted communication between T-DOC and the Steris REST service.
Installation Documentation	INS10093 - Connecting Steris Machines with the ConnectAssure REST Interface

28.5. Incubators

28.5.1. Steris Universal Connectivity through Connect Assure

The following machines are supported:

- LCB030, VERIFY Incubator for Assert
- LCB046, Celerity HP Incubator
- LCB051, Celerity STEAM Incubator

Special Requirements	Connect Assure.
T-DOC Version	Supported by a minimum T-DOC v16 (Release tag 16030) or later.
Firmware Versions	Contact supplier.
Controller Board Revision	None.
Supervisor Support	None.
Hardware Modifications Required	None.
Equipment Required	None.
License number	J21235
Installation Requirements	Network RJ45 socket.
Installation Documentation	INS10071 – Connecting Steris incubators using ConnectAssure.

29. Sterrad

29.1. Endoscope Washers

29.1.1. Sterrad controllers with ASP

Connectivity to Sterrad ASP AeroFlex and Sterrad ASP EvoTech controllers may require upgrading the installed T-DOC system.

Special Requirements	None.
T-DOC Version	Supported by a minimum T-DOC v16 (Release tag 16030) or later.
Firmware Versions	None.
Controller Board Revision	None.
Supervisor Support	None.
Hardware Modifications Required	None.
Equipment Required	None.
License number	TDCY38
Installation Requirements	Network RJ45 socket
Installation Documentation	INS10060 - ASP Access Aeroflex Endo Washer INS10061 - ASP Evotech ECR AER

29.2. Incubators

29.2.1. Sterrad controllers with ASP

Connectivity to Sterrad ASP Velocity controller may require upgrading the installed T-DOC system.

Special Requirements	None.
T-DOC Version	Supported by a minimum T-DOC v16 (Release tag 16030) or later.

Firmware Versions	None.
Controller Board Revision	None.
Supervisor Support	None.
Hardware Modifications Required	None.
Equipment Required	None.
License number	J21235
Installation Requirements	Network RJ45 socket
Installation Documentation	INS10062 - Sterrad velocity incubator via Access (ASP)

30. Tuttnauer

30.1. Sterilizers

30.1.1. Tuttnauer autoclaves

Tuttnauer 44, 55 and 69 series of autoclaves.

Special Requirements	None.
T-DOC Version	T-DOC v15, T-DOC v16 and higher released on or after 15-12-2020. Earlier releases of T-DOC are not supported.
Firmware Versions	All machine firmware versions are supported.
Controller Board Revision	None.
Supervisor Support	None.
Hardware Modifications Required	None.
Equipment Required	LAN.
License number	TDCY64
Installation Requirements	Network RJ45 socket
Installation Documentation	INS10073_01_US - Connecting Tuttnauer Control Systems

31. Van Vliet

31.1. Drying and storage cabinets

31.1.1. Van Vliet (EDC) machines

Connectivity to VanVliet machines may require upgrading the installed T-DOC system.

Special Requirements	None.
T-DOC Version	Supported by: T-DOC v12 release number 12071 and higher. T-DOC v13 release number 13020 and higher.
Firmware Versions	Supported for: EDC Plus Firmware version 1.1.14 and higher As described by Nijst Software Engineering BV and Van Vliet Medical Supply BV in the <i>XML Gateway Interface Specification Document</i> , version 4.0.3 of 15-01-2016. EDC GV700/GV1400 Firmware version 5.0.0.0 and higher As described by Nijst Software Engineering BV and Van Vliet Medical Supply BV in the <i>XML Gateway Interface Specification Document</i> , version 3.0.3 of 15-02-2016.
Controller Board Revision	No restriction.
Supervisor Support	Not applicable.
Hardware Modifications Required	None.
Equipment Required	None.
License number	TDCY42
Installation Requirements	None.
Installation Documentation	INS524 - Connecting Van Vliet machines to T-DOC

32. Wassenburg

32.1. Endoscope washers

32.1.1. Wassenburg endoscope washer

Connectivity to Wassenburg machines may require upgrading the installed T-DOC system.

Special Requirements	None.
T-DOC Version	Supported by T-DOC v13 release number 13020 and higher.
Firmware Versions	No restriction.
Controller Board Revision	No restriction.
Supervisor Support	Not applicable.
Hardware Modifications Required	None.
Equipment Required	Process Manager software min. version 1.6 must be available on the server that the machine and T-DOC communicate via. This is the responsibility of Wassenburg and/or the CSSD (IT department)..
License number	TDCY38
Installation Requirements	TCP/IP network connection to the server with the Process Manager software..
Installation Documentation	INS529 - Connecting Wassenburg endoscope washers to T-DOC

32.2. Drying and storage cabinets

32.2.1. Wassenburg endoscope drying cabinets

Connectivity to Wassenburg machines may require upgrading the installed T-DOC system.

Special Requirements	None.
T-DOC Version	Supported by T-DOC v13 release number 13020 and higher.
Firmware Versions	No restriction.

Controller Board Revision	No restriction.
Supervisor Support	Not applicable.
Hardware Modifications Required	None.
Equipment Required	Process Manager software min. version 1.6 must be available on the server that the machine and T-DOC communicate via. This is the responsibility of Wassenburg and/or the CSSD (IT department)..
License number	TDCY42
Installation Requirements	TCP/IP network connection to the server with the Process Manager software.
Installation Documentation	INS530 - Connecting Wassenburg endoscope drying cabinets to T-DOC

33. Webeco

33.1. Sterilizers

33.1.1. Webeco LTSF Sterilizer FA95

Special Requirements	None.
T-DOC Version	Supported by a minimum T-DOC v8.
Firmware Versions	No restriction.
Controller Board Revision	No restriction.
Supervisor Support	Not applicable.
Hardware Modifications Required	None.
Equipment Required	Getinge NetCOM.
Installation Requirements	Getinge NetCOM: Power socket (110/220V AC) and Network RJ45 socket.
NetCOM License	NetCOM O/S, Databuffer.
NetCOM Part Number	J10201/2/3/4/5, T-DOC, Webeco LTSF Sterilizer FA95, CE/GB/US/AUS/CHN
License number	TDCY64
Installation Documentation	INS313 - Connecting Webeco LTSF Sterilizer FA95 with Getinge NetCOM INS189 - Configuring Getinge NetCOM INS191 - NetCOM Site Preparation Checklist INS232 - Performing a Getinge NetCOM firmware upgrade

34. 3M

34.1. Incubators

34.1.1. 3M Attest Auto-reader

Special Requirements	None.
T-DOC Version	3M Attest Auto-reader 390, 3M Attest Auto-reader 390 G and 3M Attest Auto-reader 490 supported by a minimum T-DOC v12. 3M Attest Auto-reader 490 H supported by a minimum T-DOC v13 Release Tag 13024.
Firmware Versions	No restriction.
Controller Board Revision	No restriction.
Supervisor Support	Not applicable.
Hardware Modifications Required	None.
Equipment Required	TCP/IP LAN connection.
License number	J21235
Installation Requirements	Network RJ45 socket.
Installation Documentation	INS484 - Connecting 3M Incubators to T-DOC

35. NetCOM Site Preparation Checklist

Network connections

- ☐ One RJ-45 Ethernet LAN or Hub socket per Getinge NetCOM within 10 feet (3 meters) of Getinge NetCOM.

Must be on same LAN as T-DOC, preferably on same logical segment.

Power connections

For Getinge NetCOM with external PSU

- ☐ One 100/220 VAC Power socket per Getinge NetCOM.
(max. distance 1.8m / 6 ft.).

For Getinge NetCOM using internal PSU or other VDC source

- ☐ Access to power connecting point (on controller).

Power access

- ☐ Access to all ON/OFF power switches (on controller, Getinge NetCOM PSU, Hub etc.).

Controller access

- ☐ Path defined for routing Getinge NetCOM signal cable (if applicable).
- ☐ Path defined for routing Getinge NetCOM LAN cable.
- ☐ Path defined for routing Getinge NetCOM PSU cable (if applicable).
- ☐ Mounting location for Getinge NetCOM (if applicable).

Computer access

- | | | |
|--|----|---|
| ☐ Getinge NetCOM to use dynamic IP address.
If using with T-DOC systems then ensure that | OR | ☐ Getinge NetCOM to use fixed IP address.

☐ One IP available per Getinge NetCOM. |
|--|----|---|

the DHCP server provides
a fixed (same) address.

- ☐ Subnet mask value.
- ☐ Gateway mask value.

- ☐ PC on Getinge NetCOM LAN with Getinge NetCOM Configurator.
- ☐ TDOC.ini file accessible from TDINIEDIT (only applicable when T-DOC connectivity is required).

Tools and other hardware

- ☐ Philips (PH-1) screwdriver.
- ☐ Anti-static wrist strap with suitable grounding point.
- ☐ One Getinge NetCOM cabling kit for each Getinge NetCOM.

Getinge NetCOM license activation

- ☐ Internet access to <http://Getinge-NetCOM.T-DOC.com>

36. NetCOM license overview

A.1. Getinge machines

	Format		Included license(s)						
	NetCOM	License only	T-DOC PACS Buffer	T-DOC Data buffer	Getinge Online	Local printing (USB)	Local storage (USB)	Network printing	Network storage
NetCOM, T-DOC PACS 3x0/2000/3x00 - CE/GB/US/AUS/ CHN	X		X		X	X	X		
NetCOM, Getinge Online PACS 3x0/2000/3x00 - CE/GB/US/AUS/ CHN	X				X	X	X		
NetCOM, Printing, PACS 3x0/2000/3x00 - CE/GB/US/AUS/ CHN	X				X	X	X	X	
NetCOM, Storage, PACS 3x0/2000/3x00 - CE/GB/US/AUS/ CHN	X				X	X	X		X
NetCOM, Printing&Storage, PACS 3x0/2000/3x00 - CE/GB/US/AUS/ CHN	X				X	X	X	X	X

Factory-mounted NetCOM (v3)	X		X	X	X
NetCOM, T- DOC, Decomat Växjö - CE/GB/US/AUS/ CHN	X		X		
NetCOM, T- DOC, Maquet CM2000 - CE/GB/US/AUS/ CHN	X		X		
NetCOM, T- DOC, Lancer Washer - CE/GB/US	X		X		
NetCOM, T- DOC, Lancer Fibrocleaner - CE/GB/US/AUS	X		X		
NetCOM, T- DOC, Lancer Washer L24 - CE/GB/US/AUS	X		X		

A.2. Third-party machines

		Format		Included license(s)						
		NetCOM	License only	T-DOC PACS Buffer	T-DOC Data buffer	Getinge Online	Local printing (USB)	Local storage (USB)	Network printing	Network storage
J10161- J10165	NetCOM, T-DOC, Medisafe Sonic Irrigator PCF - CE/GB/US/AUS/CHN	X			X					
J10201- J10205	NetCOM, T-DOC, Webeco LTSF Sterilizer FA95 - CE/GB/US/AUS/CHN	X			X					
J10221- J10225	NetCOM, T-DOC, Medisafe Niagara - CE/GB/US/AUS/CHN	X			X					
J10601- J10623	NetCOM, T-DOC, Generic DB9/25 Male/Female - CE/GB/US/AUS/CHN	X			X					

A.3. Upgrade licenses

		Format		Included license(s)						
		NetCOM	License only	T-DOC PACS Buffer	T-DOC Data buffer	Getinge Online	Local printing (USB)	Local storage (USB)	Network printing	Network storage
J11001	NetCOM, T-DOC, PACS3x0/2000/3x00 PACS Buffer Upgrade		X	X						
J11002	NetCOM, PACS3x0/2000/3x00 Printing Upgrade		X				X		X	
J11003	NetCOM, PACS3x0/2000/3x00 Storage Upgrade		X					X		X
J11004	NetCOM, PACS3x0/2000/3x00 Printing&Storage Upgrade		X				X	X	X	X
J11010	NetCOM, PACS Online Upgrade		X							

Version history

Date	Rev.	Revised by	Description/Changes
2024-10-31	59	Nicole Bertrand Post	Added information about new datalogging licenses.
2024-10-31	58	Aitziber Azkue	Added new Steris and Olympus machines.
2023-02-21	57	Nicole Bertrand Post	Added information about newly supported Steelco washers and sterilizers.
2022-06-22	56	Nicole Bertrand Post	Added Soluscope endoscope washer and dryers.
3/18/2022	55	Aitziber Azkue	New template, added new Cisa, Cantel and Steris machines.
2021-02-10	54	Robin Kiszka-Kanowitz	Added: Tuttnauer autoclaves Miele PS5662 sterilizers
2021-02-04	53	Robin Kiszka-Kanowitz	Wrong description in document history corrected.
2021-02-03	52	Robin Kiszka-Kanowitz	Added: Steris ConnectAssure for V-PRO maX2, V-PRO S2 and AMSCO 600 US. Steris sterilizers with ConnectAssure Steris AMSCO washers using ConnectAssure Steris Universal Connectivity for Incubators through ConnectAssure Sterrads endoscope washers with ASP Sterrads incubator controllers with ASP Cantel CSV endoscope washer G1 supported versions T-DOC v16 Modified: T-DOC requirements for: Steelco ED Drying Cabinets Steelco EW1 and EW2 Endoscope Washers Medisafe Sonic Irrigators Medisafe Niagara washer-disinfectors

Date	Rev.	Revised by	Description/Changes
2019-09-12	51	Robin Kiszka-Kanowitz	Modified: Steelco EW2 endoscope washer. Steelco ED200 drying cabinet Added: Miele washers via NetBox.2
2019-06-26	50	Robin Kiszka-Kanowitz	Added: Steelco EW2 endoscope washer. Steelco ED200 drying cabinet
2019-02-14	49	Robin Kiszka-Kanowitz	Added: Olympus NetBox 2 ETD Double. G1 supported versions T-DOC v15.
2018-10-29	48	Robin Kiszka-Kanowitz	Added: Note regarding support for Belimed MST-V 446. Jumo LogoScreen 600. Modified: Included USB driver requirements for Mettler TOLEDO weighing scales.
2018-06-04	47	Robin Kiszka-Kanowitz	Added: Various subheadings. Mettler Toledo use of SIC protocol. Specific KEN machines re. protocol document. Modified: KEN NetCOM to KEN XML-Connect.
2018-03-15	46	Robin Kiszka-Kanowitz	Added: STERIZONE VP4 support for T-DOC. Hawo hm 950 sealers support for T-DOC
2018-02-28	45	Robin Kiszka-Kanowitz	Added: MMM AER support for T-DOC.
2017-11-06	44	Robin Kiszka-Kanowitz	Added: Atherton support for T-DOC.
2017-09-25	43	Robin Kiszka-Kanowitz	Added: G1 v2.2.x support for T-DOC..
2017-08-08	42	Robin Kiszka-Kanowitz	Added: G1 v2.1.x support for T-DOC..

Date	Rev.	Revised by	Description/Changes
2017-07-11	41	Robin Kiszka-Kanowitz	Modified: G1 supported version numbers..
2017-07-04	40	Robin Kiszka-Kanowitz	Added: Getinge EDS8..
2017-01-02	39	Robin Kiszka-Kanowitz	Added: Steelco DS 610 SL washer. Steelco VS sterilizers. Steris V-PRO maX sterilizers.
2016-10-24	38	Robin Kiszka-Kanowitz	Modified: G1 and supported T-DOC versions. Added: MMM Uniclean PL II and MMM Uniclean ML washers.
2016-09-19	37	Robin Kiszka-Kanowitz	Added: 3M Attest Auto-reader 490 H Modifications: Enhanced Matachana section with minimum software version. Corrected G1 regarding hybrid logging and half-duplex communication.
2016-06-15	36	Robin Kiszka-Kanowitz	Added: NetCOM, PACS Online Upgrade Steelco TW 3000/2 washers Van Vliet Endoscope Dying Cabinets G1-based Getinge AGS Stericool sterilizers Trans Medikal sterilizers Wassenburg endoscope washer Wassenburg endoscope drying and storage cabinet Modifications: Enhanced G1 washers and sterilizers sections. Enhanced Matachana prerequisites re. T-DOC.
2015-11-19	35	Robin Kiszka-Kanowitz	Added: Steris AMSCO with XML Interface.

Date	Rev.	Revised by	Description/Changes
			Sales J product numbers for NetCOM solutions.
			Removed: Olympus ETD2 / ETD3 Endoscope disinfectant controllers
2015-11-04	35	Robin Kiszka-Kanowitz	Added: Steris AMSCO with XML Interface. Sales J product numbers for NetCOM solutions.
2015-10-17	34	Robin Kiszka-Kanowitz	Modifications: Corrected name of HUMANMEDITEK machines. Removed support for AGS for sterilizers equipped with G1.
2015-10-06	33	Robin Kiszka-Kanowitz	Modifications: Recording of a washer's A0 value and a sterilizer's F0 value requires minimum v.1.4. Removed DRAFT from INS295. Selectomat MMM XML process file format.
			Added: Support for HUMANMEDITEK machines. AGS for sterilizers equipped with G1.
2015-08-04	32	Robin Kiszka-Kanowitz	Modifications: Support for Sterrad NX and 100NX encrypted files.
2015-06-10	31	Robin Kiszka-Kanowitz	Added: Support for Belimed WD200.
2015-05-11	30	Robin Kiszka-Kanowitz	Added: Support for Getinge FD8.
2015-01-20	29	Robin Kiszka-Kanowitz	Added: Support for Getinge ProSeal Plus and Getinge ProSeal Premium sealers. Modifications: Corrected name of INS document for Getinge GS47 and GS57 sealers.

Date	Rev.	Revised by	Description/Changes
2014-12-18	28	Robin Kiszka-Kanowitz	Added: Support for Getinge G1 controllers Support for 3M incubators. Support for Belimed WD390 and WD750
2014-09-24	27	Robin Kiszka-Kanowitz	Added: Support for Lancer ED900 machines. Modifications: Minimum T-DOC version supported set to v8 from v3.40. AGS for Sterilizers enhanced for Generation 2 machines. Updated min. T-DOC versions for Lancer endoscope washers.
2014-03-23	26	Robin Kiszka-Kanowitz	Added: Support for Lautenschläger machines
2013-12-13	25	Robin Kiszka-Kanowitz	Added: Support for Steris using Steris ProConnect. Support for JUMO LOGOSCREEN 500 and 500 cf
2013-08-27	24	Robin Kiszka-Kanowitz	Added: Supported firmware versions for Sterrad 100 and 100NX
2013-06-10	23	Robin Kiszka-Kanowitz	Added: Matachana Modifications: Miele ProfitronicPlus supported by minimum T-DOC v9
2013-04-17	22	Robin Kiszka-Kanowitz	Added: Medisafe Niagara. KEN washers.
2013-02-14	21	Robin Kiszka-Kanowitz	Removed: Jumo Logoscreen 500
2012-10-03	20	Robin Kiszka-Kanowitz	Added: Belimed machines MST-V, MST-H, WD230, WD250, WD290, WD290-CPTOP

Date	Rev.	Revised by	Description/Changes
2012-05-09	19	Robin Kiszka-Kanowitz	Mettler Toledo weighing scales: XS16001L, BBK422-15LA, BBK422-15DLA Added: Lancer ED-Flow Lancer Poka-Yoke Removed: AMSCO Stage 3 Castle MC1, Castle MC2 CM610 HAMO T21 Linden MK3, Linden MK4 Maquet CM203 Miele with the exception of ProfiTronic Plus SEC SATT 35, SEC SATT 40 SMI Solem Sterrads 50, 100, 100S, 200, 200S, 200NX, 1000NX. All references to Westermo and LinkBox. Modifications: Removed mention of earlier T-DOC v 3.1, 3.2 and 3.3. replaced by 3.40 Enhanced AGS section.
2011-10-24	18	Robin Kiszka-Kanowitz	Added: Sterrads NX and Miele ProfitronicPlus now supported. Modifications: AGS moved to own section (no longer under sealer).
2011-03-23	17	Robin Kiszka-Kanowitz	Removed: hawo sealer hm 850 - not supported in T-DOC versions higher than 3.30.
2011-01-11	16	Robin Kiszka-Kanowitz	Added: Sterrads NX, 200NX and 1000NX not supported. Modifications:

Date	Rev.	Revised by	Description/Changes
2010-10-06	15	Robin Kiszka-Kanowitz	Sterrad 200NX not supported. INS398 Sterrad 100NX installation document replaces INS303. Corrected section heading for hm 3020. Removed reference to INS194 in OPC Logging section. Added: Steelco washers, Steris Cart washers. Modifications: Reformatting of all tables to reduce file size. Noted that PACS 300 Skärhämkn was previously known as PACS 3000D.
2010-07-05	14	Robin Kiszka-Kanowitz	Modifications: PACS 300 Vaxjö changes regarding print functionality.
2010-01-21	13	Robin Kiszka-Kanowitz	Modifications: Specific controllers are marked as deprecated: Linden MK3, Linden MK4, Satt 35, Satt 45 and SOLEM SMI Following controllers specify contacting GLDK for installation details. Lancer Washers, BMM Weston, Jumo Logoscreen 500, Olympus ETD 2 / ETD 3, Steris 1, Steris/Amsco Stage 3 (sterilizers) and Amsco Stage 3 (washers).
2009-08-31	12	Robin Kiszka-Kanowitz	Modifications: Firmware versions allowed when using supervisor for PACS 350, PACS 2000, PACS 3000 and PACS 3500. Removed hybrid logging for these controllers.
2009-06-22	11	Robin Kiszka-Kanowitz	Modifications: J10071/2/3, T-DOC, AMSCO Stage 3

Date	Rev.	Revised by	Description/Changes
			has been changed to J10070 T-DOC, AMSCO Stage 3
			GS47 and GS57 sealers - Only sealers equipped with pressure control are supported.
2009-04-27	10	Robin Kiszka-Kanowitz	Added: MMM Selectomat PL sterilizers.
			Modifications: PACS 50A not supported.
2009-01-20	09	Robin Kiszka-Kanowitz	Modifications: INS313 – Webeco LTSF FA95 with Getinge NetCOM. No longer draft version.
			Inserted cross-references for Hybrid Logging.
			Corrected sections regarding support for Sterrad 50, 100, 100S, 200, 200S, 100NX and 200NX controllers
2008-10-15	08	Robin Kiszka-Kanowitz	Added: Sterrad 100S supported by T-DOC via Eurotherm and its OPC Server software.
			Hawo Sealers.
			Maquet CM320.
2008-06-20	07	Robin Kiszka-Kanowitz	Modifications: INS297 – Medisafe Sonic Irrigator PCF with Getinge NetCOM. No longer draft version.
2008-03-31	06	Robin Kiszka-Kanowitz	Added: CM2000 Webeco LTSF Sterilizer FA95 Document numbers for AMSCO Stage III
			Modifications: New document <i>INS314 - Connecting PACS to T-DOC</i> replaces <i>INS165 - Connecting NetCOM to T-DOC</i> for PACS controllers (except PACS 50A). INS165 is defunct for all controllers.

Date	Rev.	Revised by	Description/Changes
2008-02-20	05	Robin Kiszka-Kanowitz	Modifications: Various modifications to ASP (Sterrads) controllers.
2008-01-14	04	Robin Kiszka-Kanowitz	Added: Reference to T-DOC v3.40. Removed: Support for Sterrad 109S. Modifications: Steris 1 and Sterrad NX support. Minimum T-DOC versions and recommended versions now include T-DOC v3.40.
2007-07-18	02	Robin Kiszka-Kanowitz	Added: Sterrads 100NX, Getinge Sealer GS57, AGS for Sterilizers. Removed: Maquet CM610. Modifications: Lancer Washer and Lancer Washer L24 controller identification guidelines.
2007-04-24	01	Robin Kiszka-Kanowitz	First version of this document.



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