

The advertisement features a blue-toned background with a person's hand typing on a laptop. A large white Wi-Fi symbol is positioned over the hand. In the bottom left, there is a tray of dental instruments and a device with a screen. The background is decorated with various data-related graphics: a bar chart on the left, a line graph, a world map with connecting lines on the right, and a hexagonal pattern at the top. Text elements include the 'LM' logo, a tagline, a main title, and two bottom slogans.

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LM Dental Tracking System™

RFID INTELLIGENCE IN DENTAL CLINICS

TURNING DATA INTO EFFICIENCY, SAFETY AND SAVINGS

LM Dental Tracking System™

Spend more time taking care of patients and less time taking care of clinic management & administration.

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” With the new traceability system, we have the needed data to improve our daily operations, support education, improve long term planning and budgeting, and obtain big data that can be used for analysis and research purposes.”

Bo Danielsen,
Head of the School of Oral Health Care, University of Copenhagen

100 hours

SAVED PER YEAR for the sterilization of 250 000 instruments yearly by reducing the time needed for manual checking of instruments.
This is equivalent of

3

SAVED PERSON-WEEKS.

Several hours

SAVED PER WEEK by each staff member for there's no more misplaced instruments.

10%

REDUCTION OF INVENTORY COSTS with just-in-time processes for instrument maintenance.



Introduction

- What is IoT?
- What is RFID?
- What is LM Dental Tracking System™?

Components of the LM DTS™

- RFID tagged items
- LM DTS™ Readers
- Cloud Server database

Needs and Benefits



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What is IoT?

Internet of Things is when objects are provided with unique identifiers and the ability to transfer data over a network. A thing can be a person with a heart monitor implant or now a dental instrument with a RFID chip.

Internet of Things goes dental

IoT in dentistry enables gathering and analyzing Big Data for constant improvement of processes, workflows and cost efficiency.



LM Dental Tracking System™

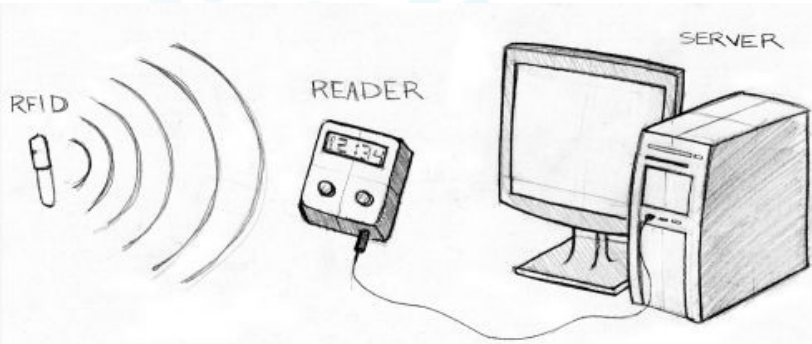


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What is RFID?

- Radio Frequency Identification
- Used by major industries
 - Manufacturing and retail: shipment, inventory, preventing thefts
 - Air traffic: baggage tracking
 - Sports: time/distance tracking
 - Healthcare: equipment tracking



LM Dental Tracking System™



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What is LM Dental Tracking System™?

The LM Dental Tracking System™ (DTS) is the first commercially available system in the dental industry to efficiently **track and monitor dental instruments and materials using RFID technology**. Instruments, hand pieces, filling materials, implants etc. from different manufacturers are wirelessly read in few seconds.

Automating traceability, logistics and infection control documentation allows staff to work more efficiently and focus on the patient.





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RFID tagged products

The LM-ErgoSense hand instruments and other dental materials with RFID identification tags can be scanned with LM DTS™ readers for reliable tracking through their entire life cycle - from storage and maintenance to clinical and patient care.

LM DTS™ Readers

The LM DTS™ readers (either multi-read or single-read) can be placed in any environment. They notify users of errors, such as the use of unsterilized instruments or expired material.

LM DTS™ Cloud Server database

The LM DTS™ server is used to record, track and verify the cycles of activities done to tagged materials.

Analysis: The software provides easy analytical reports about the items and activity cycles registered in the system.

Action: The information in the reports can improve and ease asset management and documentation, and most importantly increase cost efficiency and patient safety.

EXAMPLE: CSSD Recycling Utilization

Ensure that correct procedures are being followed

Item level documentation of process steps automatically

Bottleneck analysis – constant process improvement

Clinical Use

Instrument Returns

Cleaning

Maintenance

Autoclaving



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Video demo for using LM DTS™

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LM DTS™ Reader solutions

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LM DTS™ Tray Reader



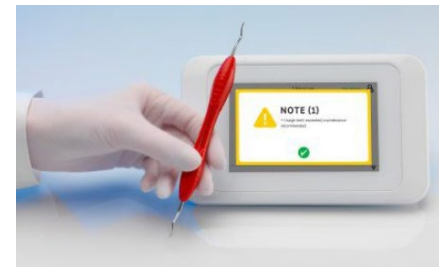
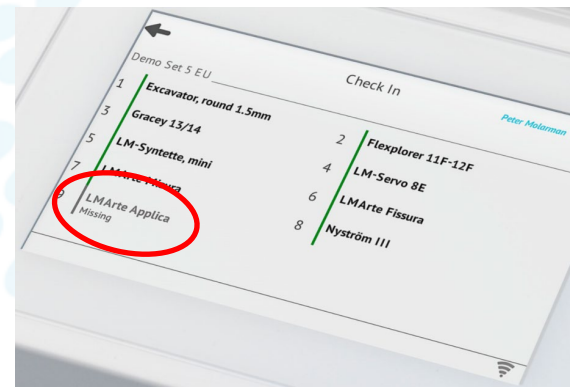
LM DTS™ Unit Readers



LM DTS™ Cabinet solutions

LM DTS™ Readers notify users of errors, such as

- Instrument missing from the set
- Infection control
- Expired item (consumables and sterile instruments)
- Sharpening and maintenance reminders





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Needs and Benefits

Continuous improvement



PATIENT SAFETY DOCUMENTATION

- Sterilized instruments
- Material traceability
- Expiry dates
- Reduce risk



COST REDUCTION

- Automatic controls
- Decrease stock
- Improve material flow
- Optimize processes & logistics



ASSET MANAGEMENT

- Daily clinic management
- Budgeting & long term planning
- Locate missing items



EDUCATION SUPPORT

- Validate competences in simulation exercises
- Feedback to students
- Documented exercises

Continuous improvement

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Patient
Safety



Continuous improvement



Infection
Control
Documentation

LM Dental Tracking System [https://demo1.dentaltracking.com/#]

← → ↻ 🏠 🔍 Search

LM feel the difference Reports Logs

Logs (47018)

Date and time	Activity
9/28/18 2:36:44 PM	Autoclaving
9/28/18 2:36:08 PM	Clinical use
9/28/18 12:50:25 PM	Check In
9/28/18 12:49:49 PM	Autoclaving
9/28/18 12:49:18 PM	Autoclaving
9/26/18 10:49:10 AM	Clinical use
9/26/18 9:36:56 AM	Clinical use
9/25/18 5:41:31 PM	Clinical use
9/13/18 10:47:45 AM	Check In
9/13/18 10:45:57 AM	Check In
9/13/18 10:42:50 AM	Check In
9/13/18 10:41:56 AM	Check In

Article Info

Date	Activity	User	Forced
10/2/18 2:52:18 PM	Clinical use	Peter Molarman	No
10/2/18 2:51:59 PM	Autoclaving out	Mika Sande	No
10/2/18 2:51:04 PM	Washing	Sanna Raunela	No
10/2/18 2:50:35 PM	Maintenance	Satu Helmi-Paavola	No
10/2/18 2:50:17 PM	Washing	Stephen van Heerden	No
10/2/18 2:49:43 PM	Check In	Timo Helenius	Yes
9/28/18 2:36:44 PM	Autoclaving out	Valter Rönholm	Yes
9/28/18 2:36:08 PM	Clinical use	Valter Rönholm	No
9/28/18 12:49:18 PM	Autoclaving out	Valter Rönholm	Yes
9/10/18 1:45:26 PM	Clinical use	Valter Rönholm	No
9/10/18 12:58:39 PM	Autoclaving out	Valter Rönholm	No
9/6/18 8:31:45 AM	Autoclaving out	Valter Rönholm	Yes
9/6/18 8:30:35 AM	Washing	Valter Rönholm	No
9/6/18 8:30:16 AM	Check In	Valter Rönholm	Yes
8/29/18 11:15:54 AM	Clinical use	Valter Rönholm	No

Tag id: 10/2/18 2:50:35 PM
Decoded tag: 10/2/18 2:50:17 PM
Manufacture: 9/28/18 2:36:44 PM
Code: 9/28/18 12:49:18 PM
Type: 9/10/18 1:45:26 PM
LOT: 9/10/18 12:58:39 PM
Article group: 9/6/18 8:31:45 AM
Article set: 9/6/18 8:30:35 AM
Sterile until: 8/29/18 11:15:54 AM
Skipped maintenance duty counter: 1

Back

Valter Rönholm (Administrator)

Forced

Show

Sample Set

no Set 2 EU disabled

Continuous improvement



Asset
Management

LM Dental Tracking System [https://demo1.dentaltracking.com/#]

LM feel the difference Reports Logs Readers Instruments Materials Containers Extra Valter Rönholm (Administrator)

Instruments (24)

Decoded tag id	Code	Type	Active	Checked out by user
Show all	Show all	Show all	Yes	Valter Rönholm
1093260.3	LM 496-497 EST	LMArte Misura	Yes	Valter Rönholm
1095123.9	LM 11F-12F EST	Flexplorer 11F-12F	Yes	Valter Rönholm
1095121.13	LM 215-216M EST	LM-Syntette, mini	Yes	Valter Rönholm
1095119.12	LM 76-77 EST	Nyström III	Yes	Valter Rönholm
1095133.13	LM 63-64 EST	Excavator, round 1.5mm	Yes	Valter Rönholm
1095120.12	LM 301-302 EST	Micro Sickle	Yes	Valter Rönholm
1095130.12	LM 481-487 EST	LMArte Fissura	Yes	Valter Rönholm
1095128.1	LM 43-47DD EST	Plastic Instrument, anterior, Dark Diamond	Yes	Valter Rönholm
1095125.13	LM 213-214 EST	Gracey 13/14	Yes	Valter Rönholm
1095129.12	LM 46-49 EST	LMArte Applica	Yes	Valter Rönholm
1095126.11	LM 311-312 EST	Mini Sickle	Yes	Valter Rönholm
1095127.3	LM 313-314 EST	Sickle LM23	Yes	Valter Rönholm
1095131.10	LM 48-702DD EST	Plastic Instrument, posterior, Dark Diamond	Yes	Valter Rönholm
1095124.10	LM 211-212 EST	Gracey 11/12	Yes	Valter Rönholm

Continuous improvement



Clinic
Management

LM Dental Tracking System [https://test1.dentaltracking.com/#]

LM Dental Tracking System [https://test1.dentaltracking.com/#]

doc/cphpilot - Dental Tracking

https://test1.dentaltracking.com/#/

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Reports Logs Readers Articles Locations Extra

admin admin (Administrator)

Locations Organisations

Locations (25)

Department 1

Department 2

Department 2 Inventory Room

Department 2 Dispensary

Dispensary A

Department 4

Department 5

New location

New location

Test

Department 3

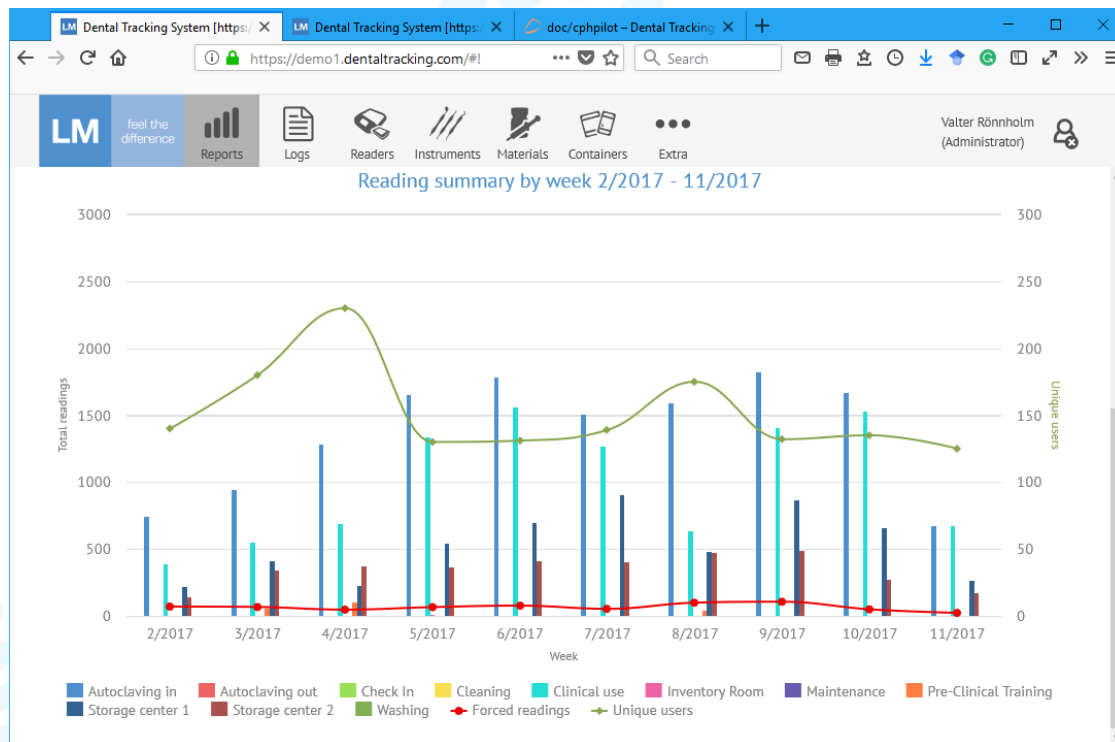
Articles Active alarms Active warnings Alarm limits

Cause	Current stock	Min. limit	Defl...
Too few usable "#31 Gritman Wax Spatula" available	74	200	-126
Too few usable "Articulator" available	0	25	-25

Continuous improvement



Process
Optimization
&
Cost Reduction



Continuous improvement

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Education
Support



Knowing is efficiency, safety and savings

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