

Dex7 IoT Healthcare

Ultrasound Application Example

Ultrasound devices are used in many specialist areas, but they are rarely used and monitored across departments. The data stored by the devices regarding type and duration of use, location, runtime, maintenance, and servicing remain isolated and are thus not compared or used for efficiency considerations and management.

This is exactly where Dex7 IoT Healthcare comes into play. The solution links existing data and prepares it in such a way that you gain transparency over your device landscape, allowing you to quickly identify potentials for optimization and to determine appropriate measures.

Predefined dashboards help you to identify synergies, optimize processes, develop variable deployment concepts, increase efficiency, and ultimately save costs.

Leverage these insights. Optimize your equipment and resources while also improving quality. Improved processes ensure more satisfied patients and colleagues thanks to faster diagnoses and shorter waiting times for upcoming examinations.



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1. Visualization of device utilization times

Information on the degree of capacity utilization and the times of use of the devices can help to counteract impending bottlenecks during peak times at an early stage. Dashboards provide details for each device, from serial numbers through to the findings of the last inspection.

2. Location of the device

Location information for mobile and stationary devices can be captured and used for capacity and utilization planning. Expected bottlenecks can be deduced and included in overall planning scenarios to optimize device utilization. More flexible applications and easy-to-manage cross-departmental device sharing result in increased utilization of the respective system and accelerate the return on investment.

3. All device data at a glance

Facts on the individual equipment of the respective device, for example, probe specifications, facilitate cross-divisional device organization. System data and supplementary information on service, runtime, and maintenance facilitate device management. Utilization anomalies are made visible on the time axis.

4. Increased system availability

Systems that contain predictive maintenance sensors can generally be connected and help to actively prevent malfunctions and failures. Technical key figures are collected and compared. The service technician can be informed of any deviations in individual systems before a potential failure occurs.

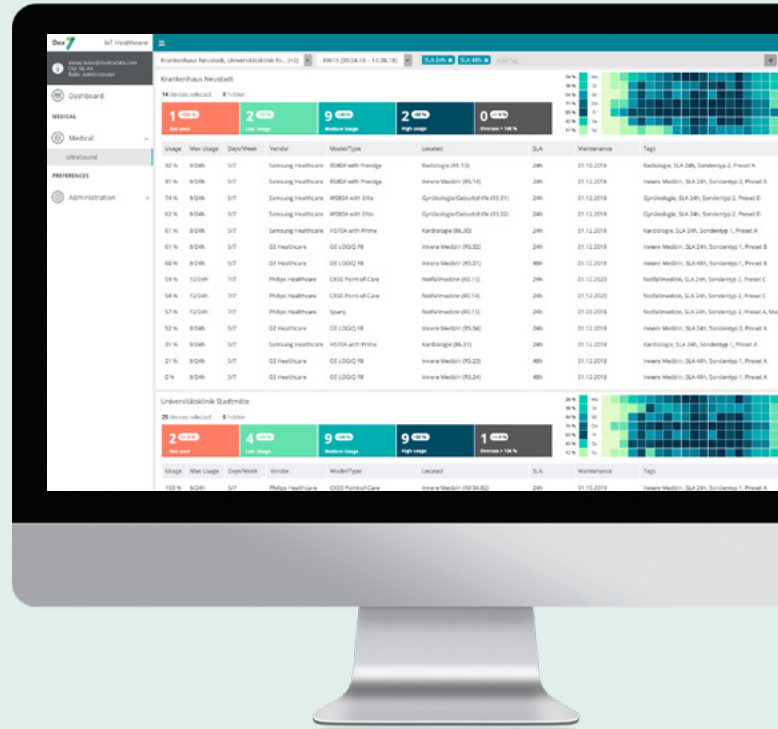


FIGURE 1 Utilization diagrams and usage data help you identify bottlenecks or potentials for optimization relating to your ultrasound equipment. Customize page filters to get targeted views for your desired set of devices.

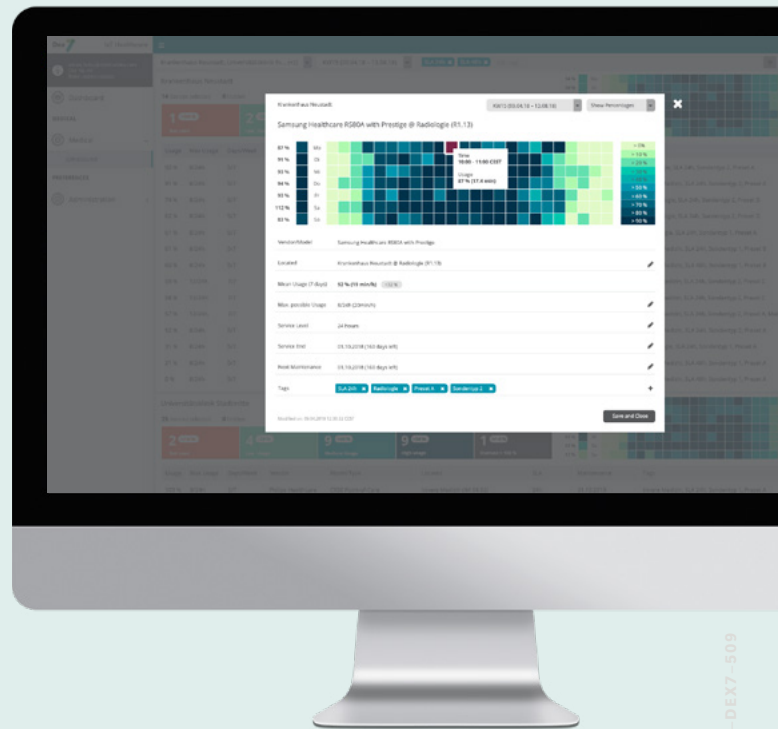


FIGURE 2 View details with KPIs such as service or maintenance times, daily usage data, and other master data for each individual ultrasound device. Add tags to your assets and use them in the dashboard to add granular filters and customize your reports.