Pediatrician Dr. Susan Davidson relieves backup headache with RDX® QuikStor®

For backup, archive and disaster recovery of sensitive medical data

Challenges

- After deleting an important file by accident, Dr. Susan Davidson started to think about a backup and recovery implementation in her pediatrician office.
- In addition, Dr. Davidson has to archive patient data and results of medical examinations as well as X-rays and ultrasound scans for regulatory compliance reasons.

Solution Overview

rdx® QUIKSTOR®

- The durable RDX QuikStor backup system is a solution that provides cost effective, secure, reliable and convenient removable storage for backup, archive, data exchange and disaster recovery.

rdx® WORM

- RDX WORM media meets an expanded set of regulatory compliance requirements and is ideal for use with a large number of archiving applications, where data must not be deleted or overwritten.
- RDX WORM has been assessed by KPMG AG Wirtschaftsprüfungsgesellschaft, Frankfurt am Main, to numerous regulations.

Dr. Susan Davidson is a pediatrician who used to work in a hospital until she opened her own medical office. Besides common medical treatments and examinations, Dr. Davidson is proud of her modern X-ray and ultrasonic devices. Therefore, she gets a lot of patients who are referred from other offices.

Generating huge amounts of data

Dr. Susan Davidson performs 20 x-ray and ultrasonic exams on average per day. This generates a huge amount of data which needs to be stored. In addition, these pictures and scans are sent out to other medical offices by email which often generates a duplicate in the sent items mailbox.

At the same time as the opening of her medical office, Dr. Davidson purchased an IT infrastructure from her retailer which included three desktop PCs, a NAS storage system and a PACS software package. The retailer also installed a network to connect her office, all treatment rooms and her x-ray and ultrasound devices. These devices send pictures and scans directly to the PACS system where they are automatically stored on the NAS storage. The pictures and scans can be accessed from any of the three desktop PCs for analysis.

RAID 1 and USB sticks aren't sufficient

Generating all this data, Dr. Susan Davidson never thought about backup and archiving her sensitive information, until she deleted an important file by accident. A short time after that, she read an article in a technology magazine which looked at the responsibility of business owners to ensure the protection of their office and business data.

As her NAS system is configured with RAID 1 protection, she thought, she was protected against data loss, but this didn't bring the deleted file back. She started to copy all important data to a USB stick. But this was an unsatisfactory solution. First, the capacity of the stick wasn't large enough to store all necessary files, which forced Dr. Davidson to use multiple sticks. Second, this was a manual task which was done infrequently. Third, it didn't protect her data against a system failure and fourth, a USB stick is not a reliable device. So, Dr. Susan Davidson called her retailer to discuss her problems and to find an automated, secure and reliable solution.

Pediatrician with modern equipment

When Dr. Davidson talked to her retailer, he also mentioned that in addition to a reliable backup strategy, she also needs to archive patient data and X-ray scans for several years in a compliant manner. This means, that data must not be deleted or overwritten.

The retailer recommended RDX QuikStor, a removable disk system from Overland-Tandberg which consists of a QuikStor system and media. This easy-to-use system plugs into a PC via USB3.0 and needs no further drivers and installation routines.
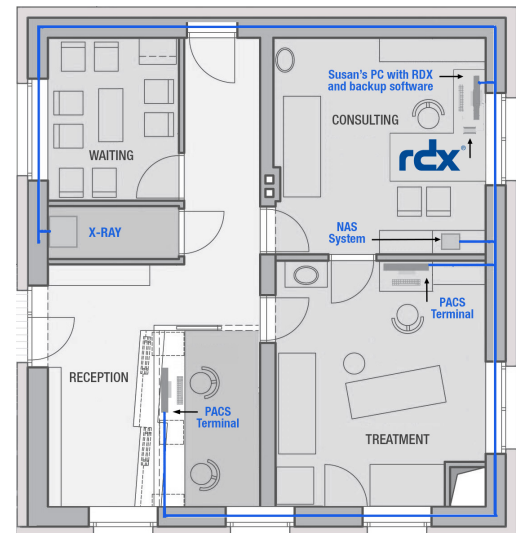
In addition to the RDX system, Dr. Davidson purchased a third-party backup software. This backup software provides multiple backup jobs to RDX QuikStor, so Dr. Davidson is able to create dedicated jobs to protect her NAS System, her personal computer and X-ray scans with individual schedules.

The backup software has a built-in de-duplication engine, which ensures that data is just backed up once regardless of the number of instances. This saves backup space on the RDX media and shortens backup windows. With media rotation capability of the backup software, Dr. Davidson can keep one media at home for full disaster protection, while a second media resides in the QuikStor system for the upcoming backup.

For compliant archiving, Dr. Susan Davidson benefits from RDX WORM (write once read many) media. This special RDX media type can be utilized within the same RDX system and ensures that data cannot be deleted and overwritten. Data which needs to be archived can be automatically copied from the PACS system to RDX WORM as this functionality is fully transparent to any application.

The IT infrastructure:
- **2 PACS terminals (reception and treatment room)**
- **1 NAS System (consulting office)**
- **X-ray system (X-ray room)**
- **1 PC with RDX QuikStor attached and third-party backup software (consulting office)**

> **"** I started copying files from my NAS System to a USB stick, but the stick was getting full pretty fast. I do a lot of X-rays and ultrasound scans which can create quite large files.
>
> RDX eliminated my backup headache. It's really easy to use and with the conjunction of backup software I have a professional and affordable backup solution. With media rotation I'm on the safe side as I can take one backup media with me at home. The additionally available WORM media enables me to archive my patient data and X-ray scans. RDX really is an all-round solution! **"**

Dr. Susan Davidson, MD

RDX QuikStor from Overland-Tandberg is a removable disk storage system that provides robust, reliable and convenient data storage for backup, archiving and data exchange for small and medium enterprises.

RDX WORM (write once read many) media compliant archiving as files cannot be deleted or overwritten.