

# The 10 rules of revision safety... ...and how DIMATE easily fulfils them

Digital business data must be archived in an audit-proof manner. This also applies to non-destructive testing data, such as test images and reports of components or systems. Manufacturers, plant operators or testing service providers who want to digitise NDT should pay attention to the auditability of the data right from the start.

## What does revision safety mean?

Roughly speaking, an audit is the objective review of economic processes in day-to-day business. In order for such a review to take place with digital data, it must fulfil certain requirements. Essential characteristics of revision-safe archiving in material testing, inspection and maintenance are the traceability, comprehensibility, immutability and revision safety of the digital data. Revision safety is very important because only revision-safe archived digital documents are court-proof and will stand up in court in the event of damage/accident.

## Easily revision-safe with DIMATE

The Association for Organisation and Information Systems ([www.voi.de](http://www.voi.de)) lists 10 principles that make up revision safety. DIMATE fulfils every single principle – without you having to do anything.



- 1 No document may be lost on the way to the archive or in the archive itself.**  
DIMATE solution: archiving functions, consistency check and replication
- 2 Each document must be archived unchangeably.**  
DIMATE solution: archiving function and storage management on WORM media
- 3 Each document must be retrievable using suitable retrieval techniques.**  
DIMATE solution: categorisation and search functions in the database
- 4 Exactly the document that has been searched for must be retrieved.**  
DIMATE solution: search functions, dedicated client integration calls
- 5 No document shall be capable of being destroyed during its intended lifetime.**  
DIMATE solution: data replication, long-term archiving procedures
- 6 Each document must be able to be displayed and printed again in exactly the same form as it was captured.**  
DIMATE solution: storage of images and reports in DICONDE & PDF-A format. For all other documents, the original version is saved as well.
- 7 All content must be retrievable in a timely manner.**  
DIMATE solution: search functions, dedicated client integration calls
- 8 All actions in the archive that cause changes in the organisation and structure must be logged in such a way that it is possible to restore the original state.**  
DIMATE solution: all versions of a document in the archive with presentation and search functions are preserved.
- 9 Electronic archives must be designed in such a way that migration to new platforms, media, software versions and components is possible without loss of information.**  
DIMATE solution: full support of the DICONDE IT-standard ASTM E2339
- 10 The system must offer the user the possibility to ensure that the legal requirements as well as the user's operational requirements with regard to data security and data protection are met over the lifetime of the archive.**  
DIMATE solution: authorisation and authentication via client integration