

CUSTOMER:

## Government institutions

### CUSTOMER REQUIREMENT

Government institutions require the implementation of a centralized video conferencing system for state administration purposes. Whereas the provider of the central infrastructure is an external source, this party must have no access to the traversing content of the media or its metadata.

### CHALLENGE

A system needed to be designed which provides a high level of data protection according to the regulations and ensures the time-stamp service and the integrity of recording while preventing data leakage.

### SOLUTION

TC&C manages media in the system in an encrypted format 24/7, meaning that no media is ever stored unencrypted within the database. The source media is sent to CARIN encrypted by the Cisco system, then the encryption key is changed on it. Authentic time-stamp service is integrated into the system to verify the time of recording. Recordings get official time-stamps right at the moment of encryption. TC&C's solution to prevent data leakage is to encrypt the recorded material using the very own encryption key of the user who is organizing the conference – this process is executed within the system memory. Thereby, recorded materials can be decrypted and reviewed exclusively by the organizer. The integrity of the media is guaranteed by placing the official time stamp on the file at the same time as the encryption, so that any subsequent changes to the media content will be visible. CARIN receives metadata from a custom-developed conference organizing application called Conforg via API and attaches that to the media in an XML file. All aspects of the technology ensure high availability.

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