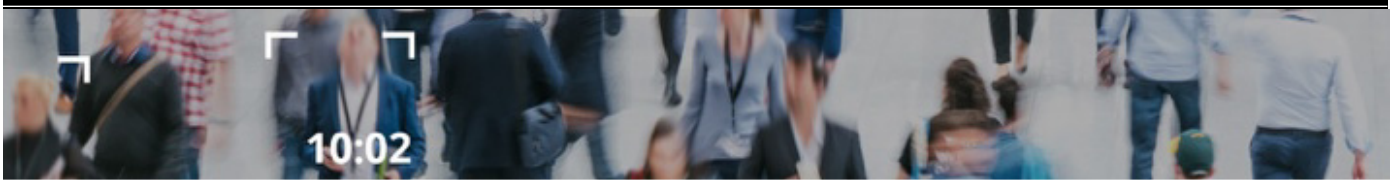
BriefCam

TRANSFORMING VIDEO SURVEILLANCE INTO ACTIONABLE INTELLIGENCE



User Data and Security

March 2020

Introduction

This document serves as a technical reference for user data storage and security within the BriefCam product line.

User and Credential Types

- BriefCam internal users – These users are created and maintained by the Administrator. They are allowed to log in and work with the web client and API.
- BriefCam Administrator user – The Administrator manages users' permissions and camera authorizations for BriefCam users and AD-imported users.
- BriefCam Active Directory (AD) users – These users are created and maintained by the AD Administrator. Users and groups are synchronized into BriefCam in order to apply permissions. Camera permissions are assigned by the BriefCam Administrator.
- BriefCam SAML users – These users are created and maintained by the SAML authentication provider.
- VMS credentials – These credentials are used for accessing the videos on a Video Management System (VMS).
- AD credentials – These credentials are used to read the list of users and groups from the AD server.

User Data Storage

BriefCam Internal Users

- User names are saved in plain text.
- Passwords hash is stored in the database.

BriefCam Administrator User

- Password hash is stored in the database.

BriefCam AD Users

- User names are saved in plain text.
- Passwords are not saved. Whenever a user enters a password it is checked against the AD server in real time.

BriefCam SAML Users

- User names are saved in plain text.
- Passwords are never exposed to BriefCam. The SAML user performs the authentication process outside of BriefCam.

VMS Credentials

- User names are saved in plain text.
- Passwords are encrypted and stored in the database.

AD Credentials

- User names are saved in plain text.
- Passwords are encrypted and stored in the database.

Database Security

- Password hashing – One-way hashing function according to RFC 2898 https://www.ietf.org/rfc/rfc2898.txt, using a standard .NET framework implementation.
- VMS and AD credentials are stored in a database in an encrypted way, using standard symmetric Rinjdael encryption implementation, provided by a .NET framework. The encryption keys are stored hard-coded.

BriefCam

www.BriefCam.com

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