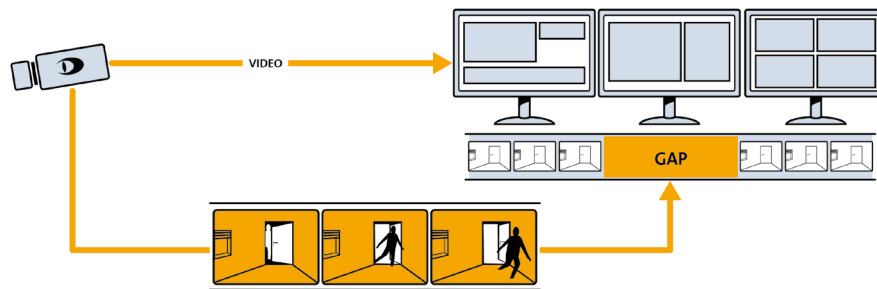


The current versions of the Dallmeier IP cameras and SMAVIA appliances are equipped with the **EdgeStorage for Emergency Recording with SmartBackfill** function. It allows for the loss-free recording of a Dallmeier VideoIP system in case of a temporary failure of the IT infrastructure or the recording system.

Dallmeier IP cameras are equipped with a **RAM**. **EdgeStorage** uses this internal storage in order to save the recordings and compensate for a network failure without losing data.

i If long network failures are to be expected, the internal storage of Dallmeier IP cameras can be expanded with a built-in **SDHC or USB interface** (see table).

As soon as the network is restored, **SmartBackfill** ensures a fast transmission of the stored recordings to the SMAVIA appliance. The appliance saves the data with high speed and, subsequently, continues to record the stream seamlessly and without loss.



EdgeStorage

Process for normal operation:

- Constant transmission of the stream (encoder 1)
- Constant monitoring of the network connection

Process for faulty operation:

- Detection of the network failure
- Recordings saved to internal storage (circular buffer)

Available for

- IP cameras as of version 9.0.0.11
- IP cameras as of version 8.2.0.12
- IP cameras as of version 7.1.2.7
- IP cameras as of version 6.4.x.x
- SMAVIA appliances as of version 8.x.6

SmartBackfill

Process for compensational operation:

- Detection of the network recovery
- Transmission of the saved recordings
- Recovery takes approx. twice as long as the downtime
- Switchover to recording the stream

Compensation for

- Network failure
- Network congestion
- Reboot of the recording system

Internal Storage¹⁾

Camera Series	RAM Size	Expansion Type	Expansion Size
DDZ41xx / 42xx	50 MByte / approx. 400 s.	microSDXC UHS II	max. 32 GByte / approx. 70 hrs
D(D)F5x00 ²⁾	50 MByte / approx. 400 s	microSDHC Class 10 UHS I	max. 32 GByte / approx. 70 hrs
MDF5200	50 MByte / approx. 400 s	microSDHC Class 10 UHS I	max. 32 GByte / approx. 70 hrs
D(D)F4920 ²⁾	50 MByte / approx. 400 s.	SDHC Class 10	max. 32 GByte / approx. 70 hrs
D(D)F4820	50 MByte / approx. 400 s	SDHC Class 10	max. 32 GByte / approx. 70 hrs
D(D)F4910 ²⁾ / 4510	50 MByte / approx. 400 s	SDHC Class 10	max. 32 GByte / approx. 70 hrs
DDZ4010 / 4020	64 MByte / approx. 500 s	USB	max. 32 GByte / approx. 70 hrs
DDF4010	64 MByte / approx. 500 s	USB	max. 32 GByte / approx. 70 hrs
D(D)F4620	50 MByte / approx. 400 s	microSDHC Class 10	max. 32 GByte / approx. 70 hrs
DDF4220, 4320, 4520	50 MByte / approx. 400 s	--	--
MDF4220	50 MByte / approx. 400 s	--	--

1) The table shows approximate values for storing a video stream of 1 Mbps. A storage duration variability of +/- 10% must be considered.

2) IR models: The installation of the memory card should be done by a certified Dallmeier service partner.