

BVMS 10.0.1



BLUEPRINTS V1.6

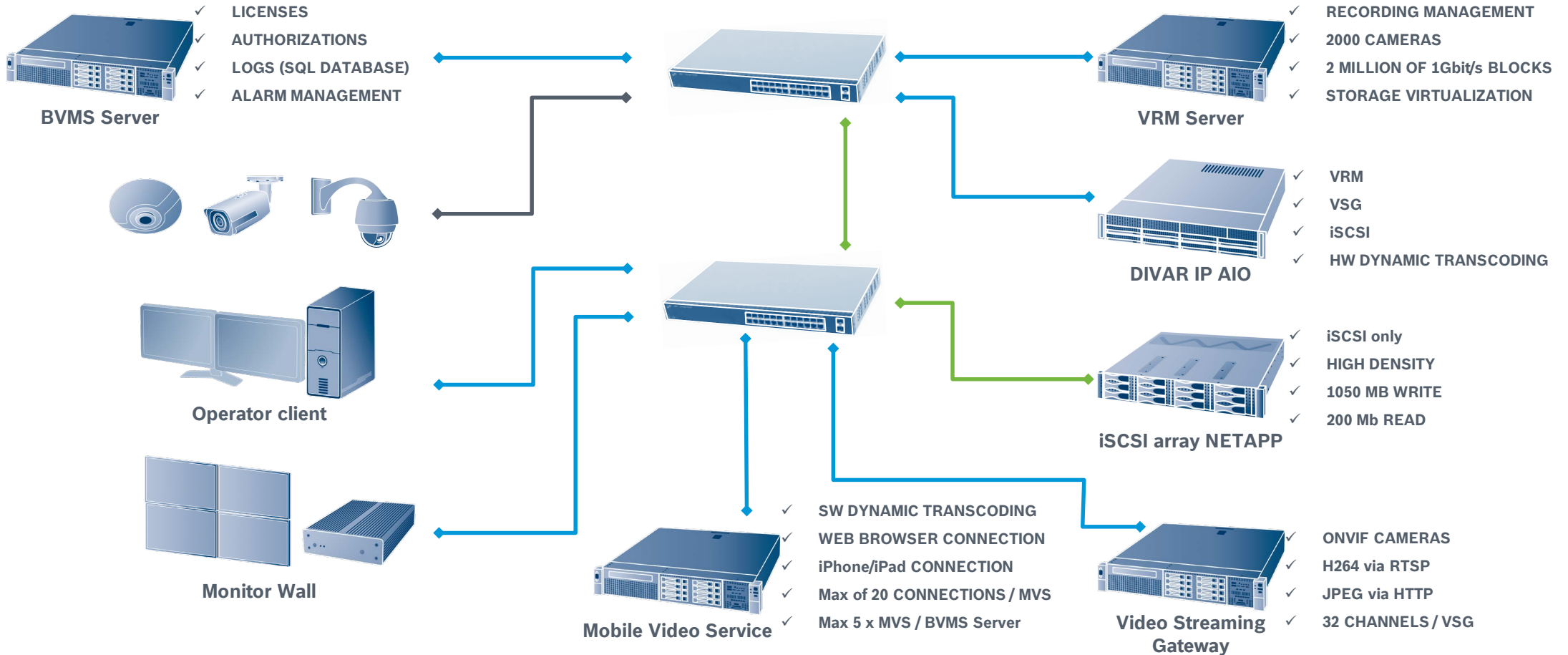
BVMS

OVERVIEW – COMPONENTS

BVMS Blueprints

Different key components

- ❖ BLACK = 100Mbit/s
- ❖ BLUE = 1Gbit/s
- ❖ GREEN = 1Gbit/s - 10Gbit/s



BVMS PROFESSIONAL PLUS LITE

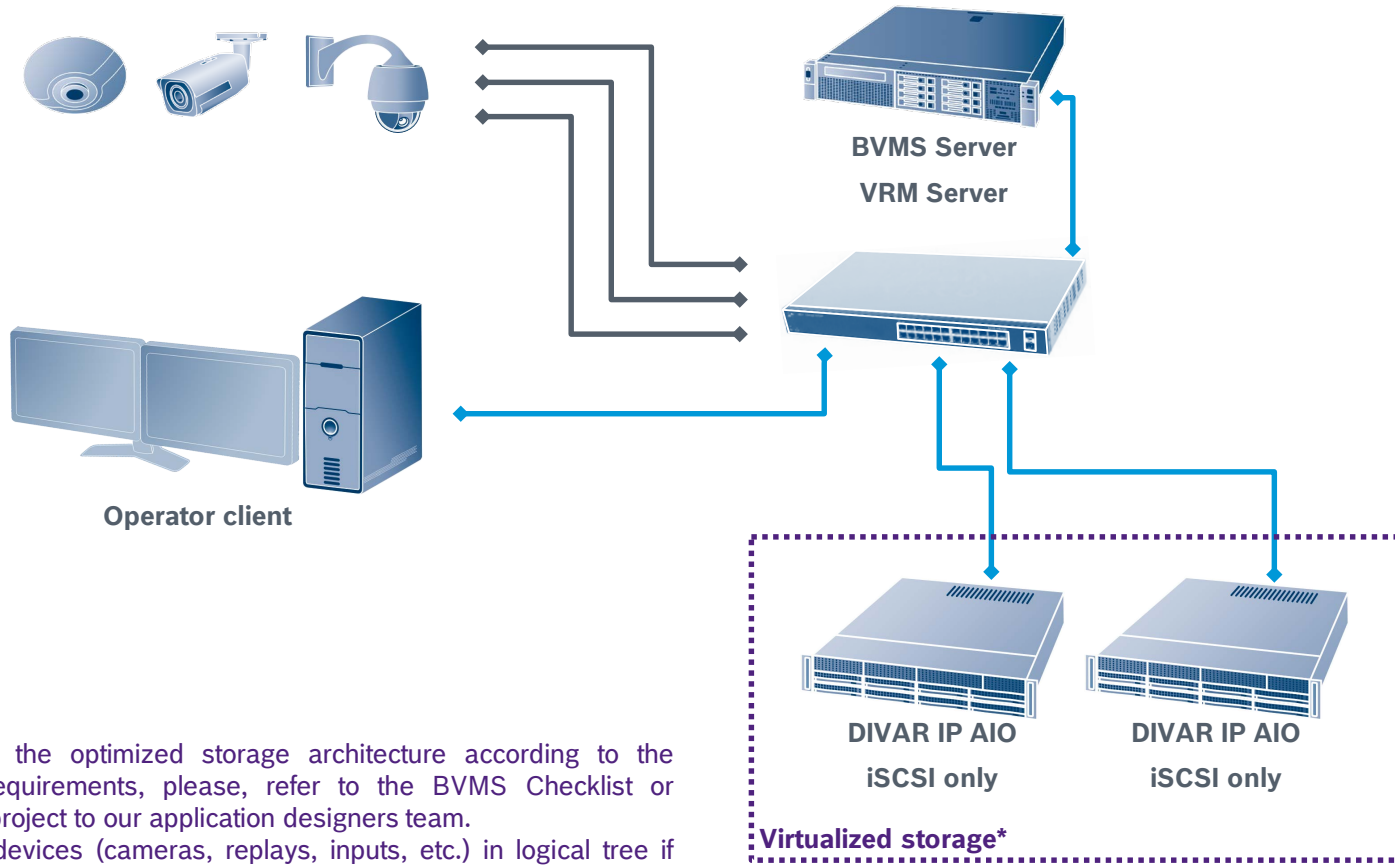
BVMS Blueprints

BVMS all in one

Cameras
500**
max

CLIENTS
10
max

- ❖ BLACK = 100Mbit/s
- ❖ BLUE = 1Gbit/s
- ❖ GREEN = 1Gbit/s - 10Gbit/s



* To design the optimized storage architecture according to the customers requirements, please, refer to the BVMS Checklist or submit your project to our application designers team.

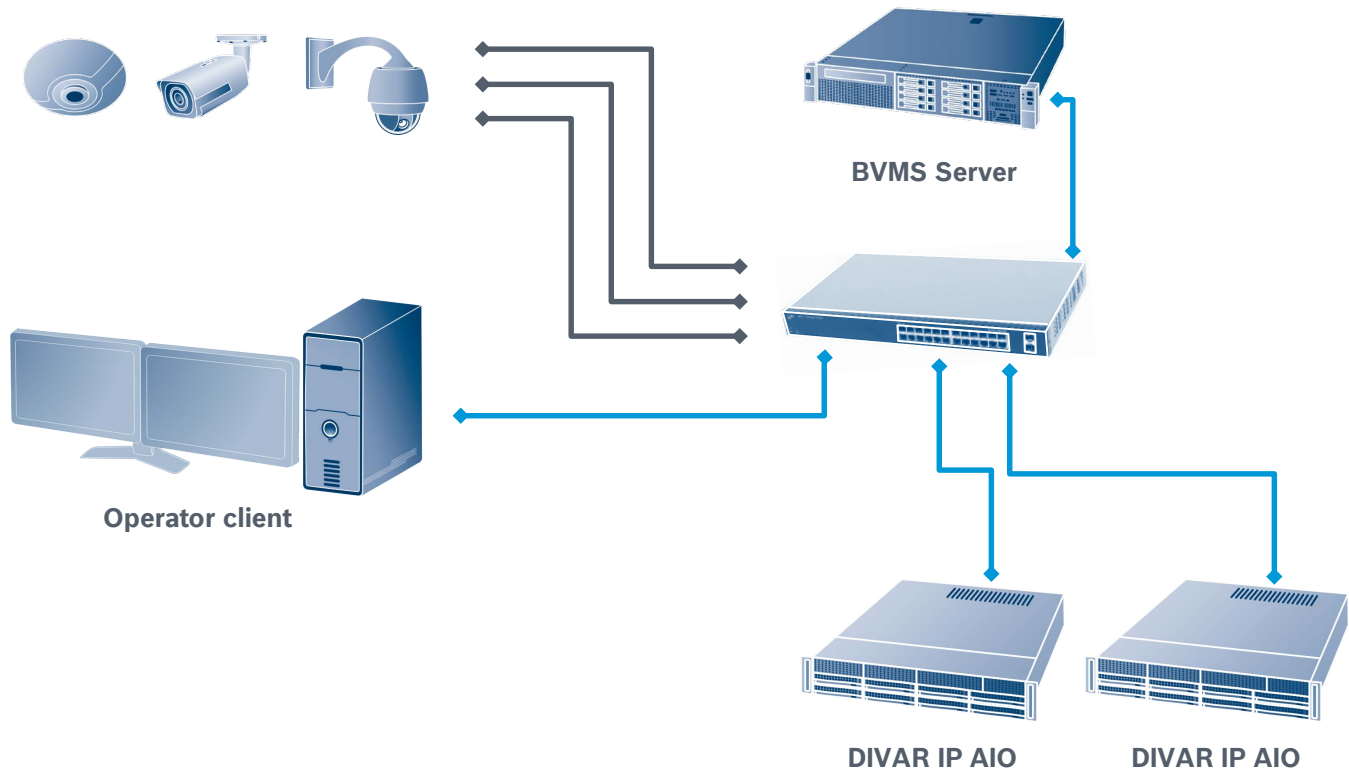
** Max 500 devices (cameras, replays, inputs, etc.) in logical tree if BVMS MS and VRM server on the same hardware

BVMS Blueprints

Embedded VRM's

CAMERAS	CLIENTS	VRM
2000	100	125
max	max	max

- ❖ BLACK = 100Mbit/s
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- ❖ GREEN = 1Gbit/s - 10Gbit/s



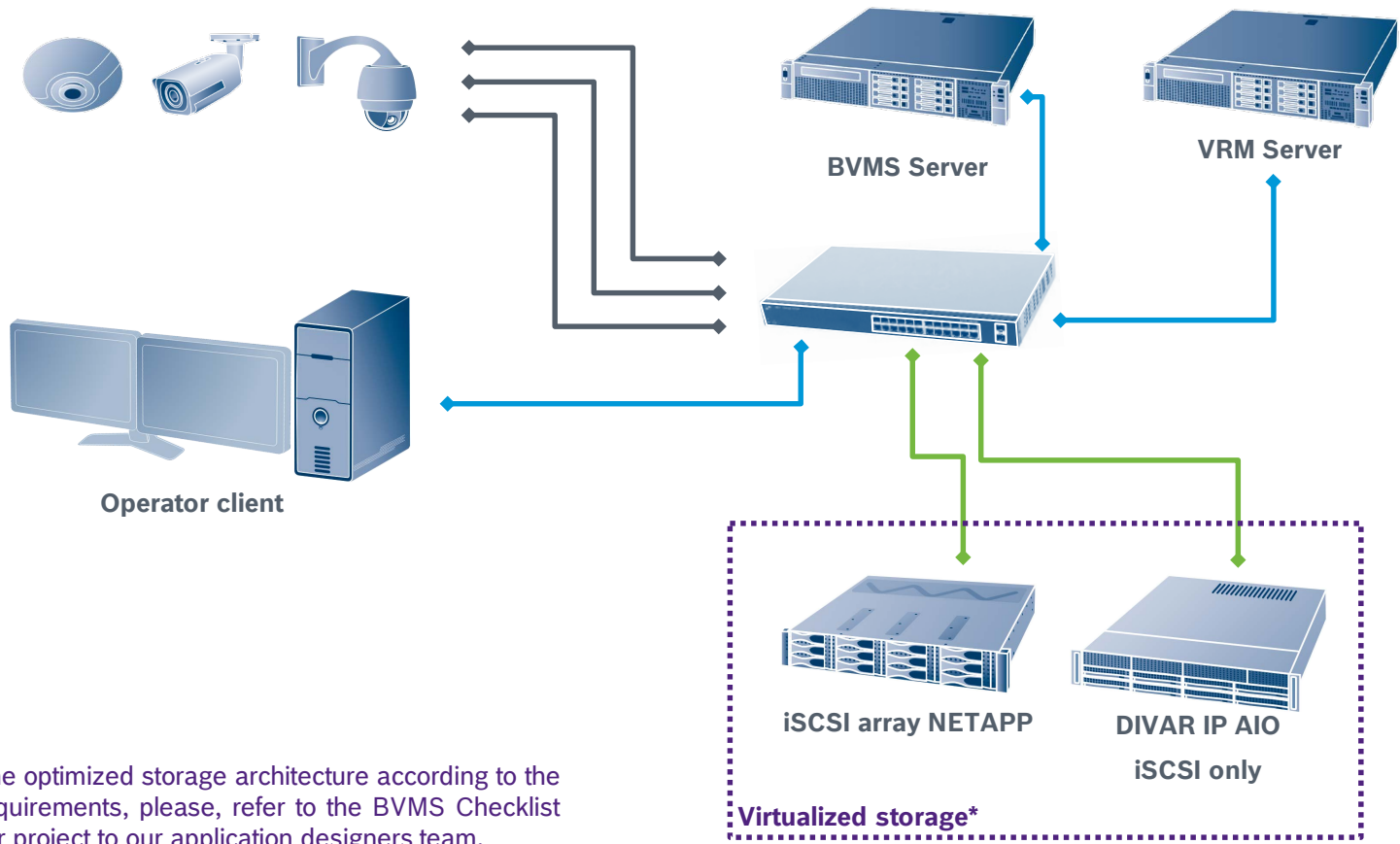
- ✓ VRM
- ✓ VSG
- ✓ iSCSI
- ✓ HW DYNAMIC TRANSCODING

BVMS Blueprints

Dedicated VRM

CAMERAS	CLIENTS	VRM
2000	100	125
max	max	max

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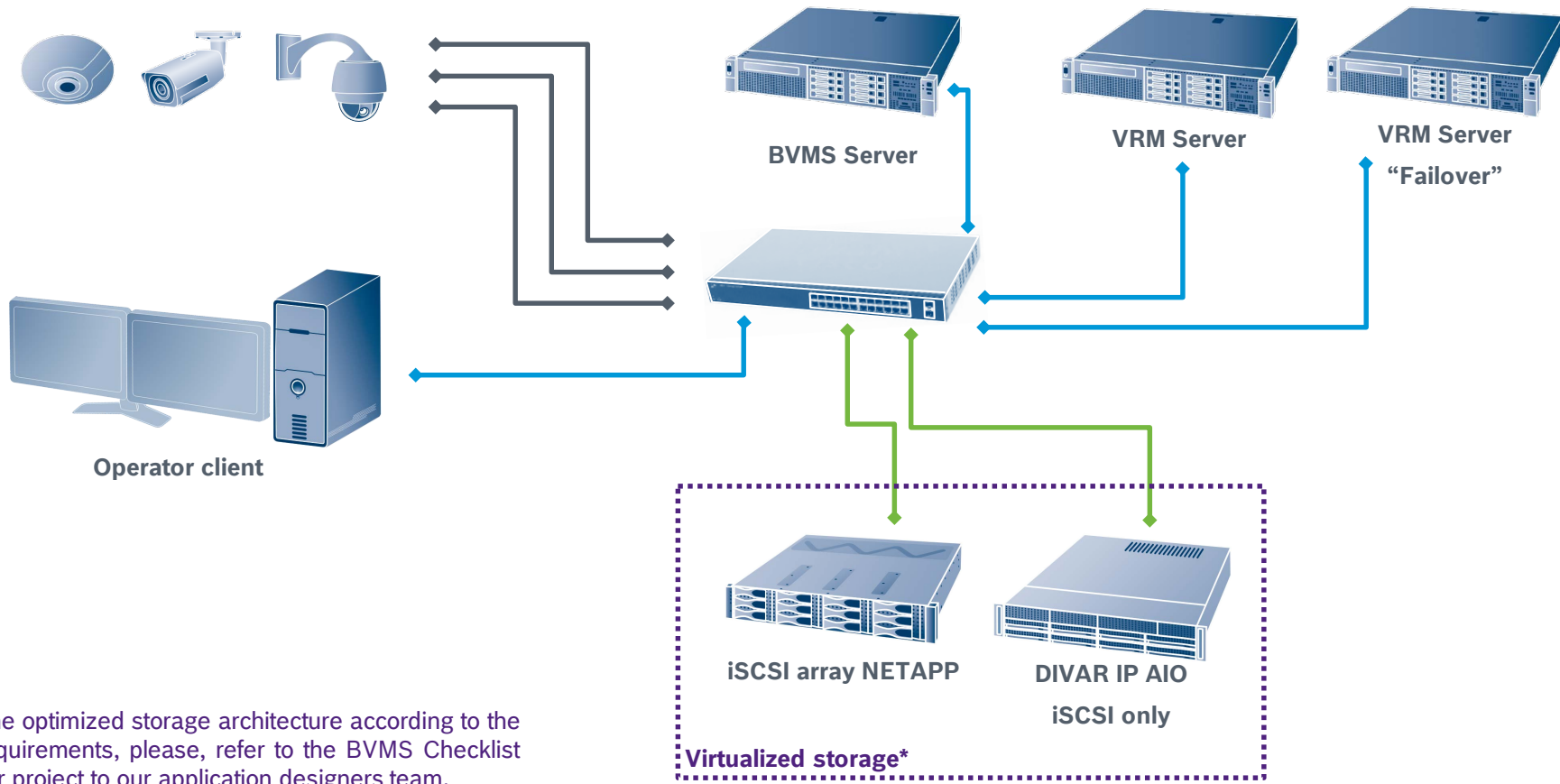
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BVMS Blueprints

Dedicated VRM & Failover

CAMERAS	CLIENTS	VRM
2000	100	125
max	max	max

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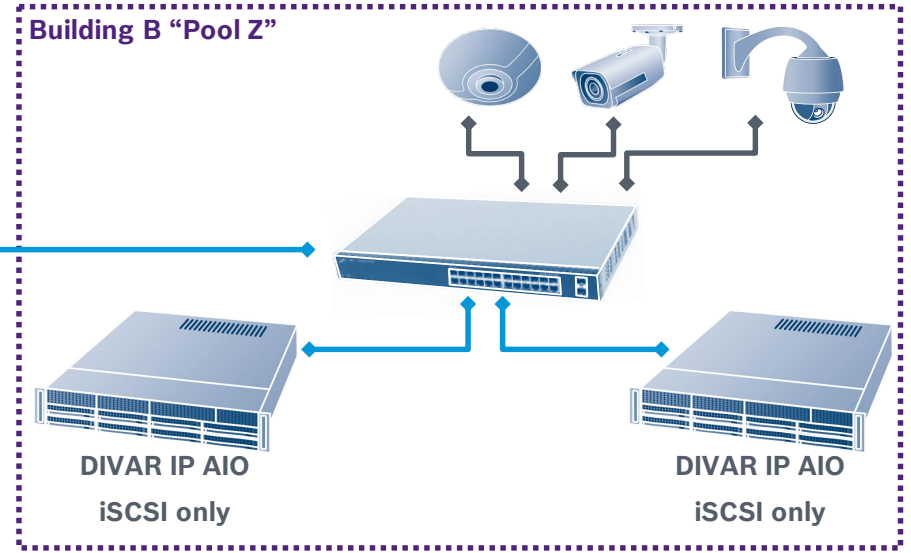
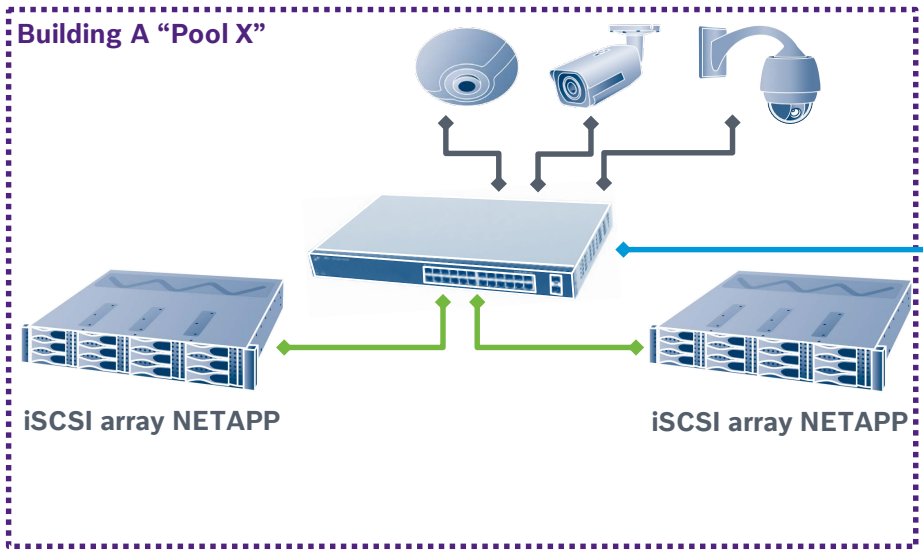
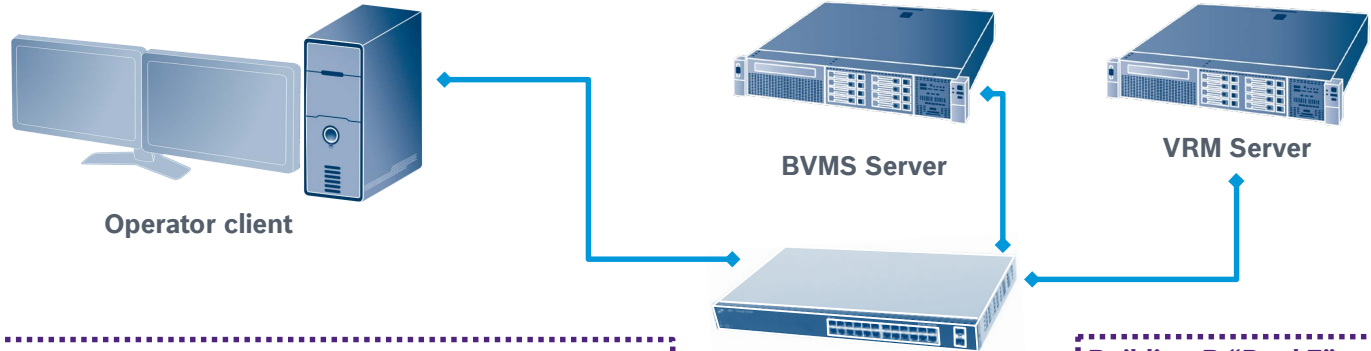
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BVMS Blueprints

Distributed storage

CAMERAS 2000 max	CLIENTS 100 max	VRM 125 max	POOL 120/VRM max
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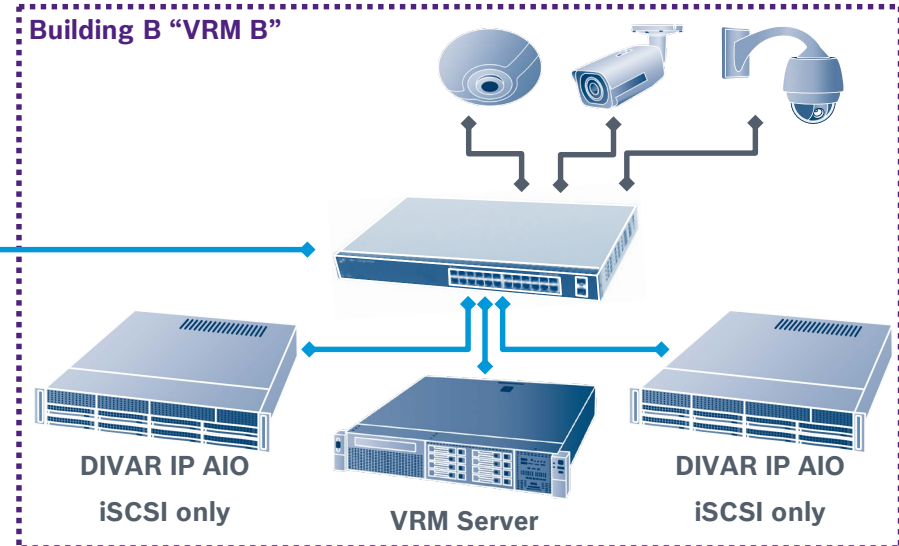
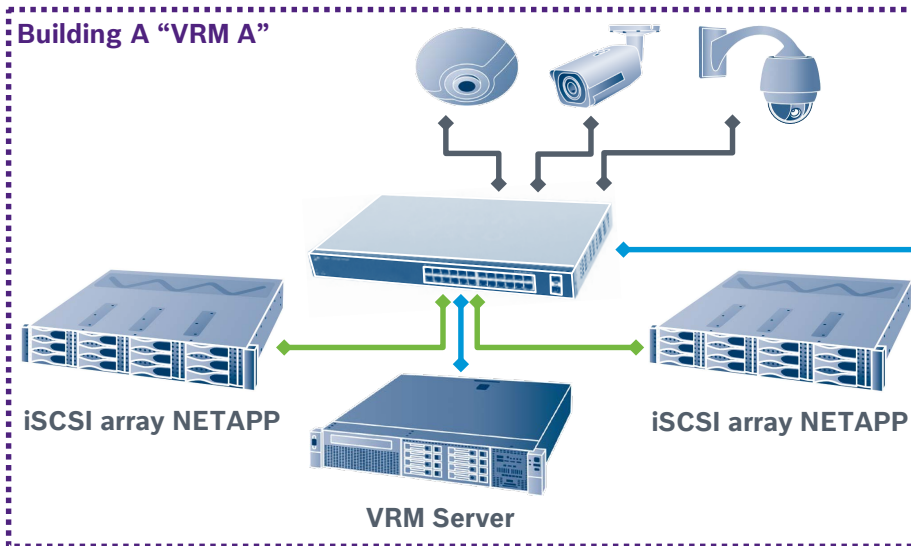
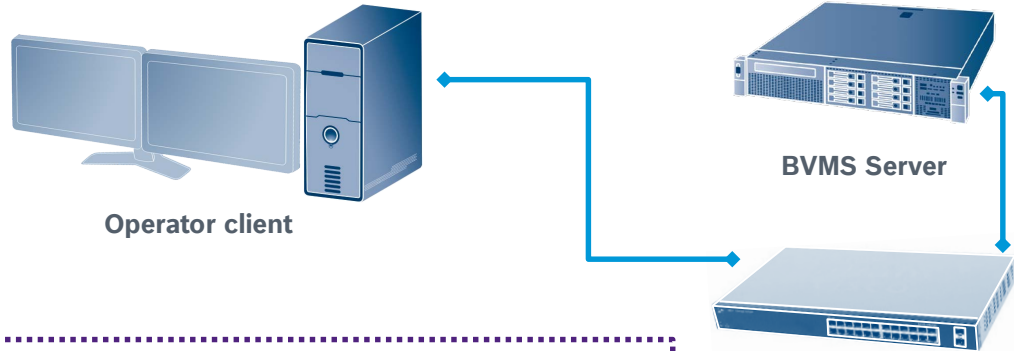


BVMS Blueprints

Distributed VRM's

CAMERAS	CLIENTS	VRM
2000	100	125
max	max	max

- ❖ BLACK = 100Mbit/s
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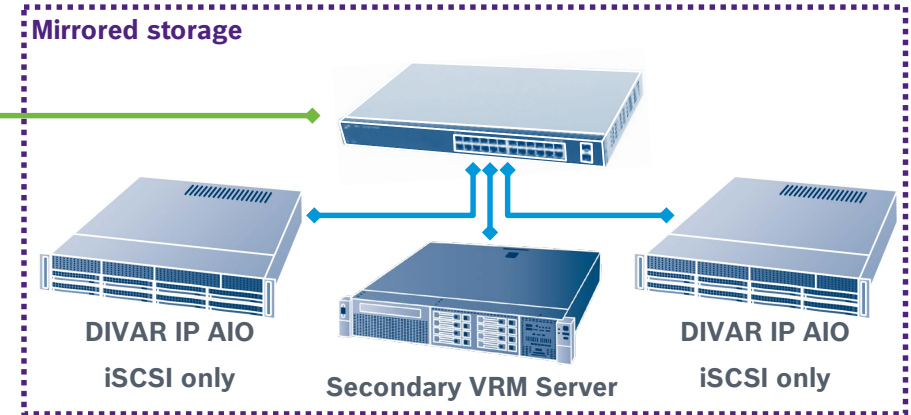
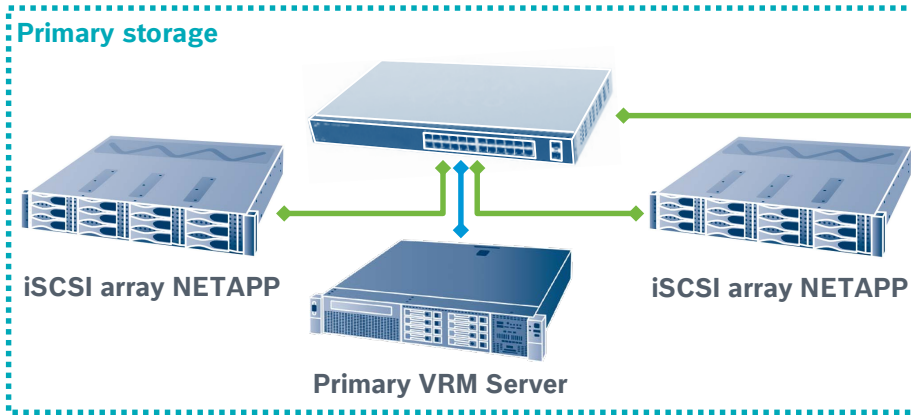
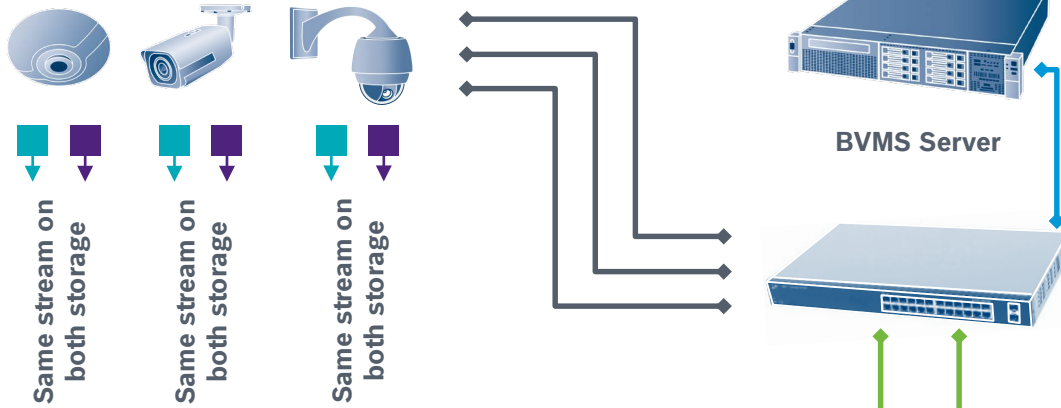
BVMS Blueprints

Mirrored recording

CAMERAS
2000
max

CLIENTS
100
max

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- ❖ GREEN = 1Gbit/s - 10Gbit/s



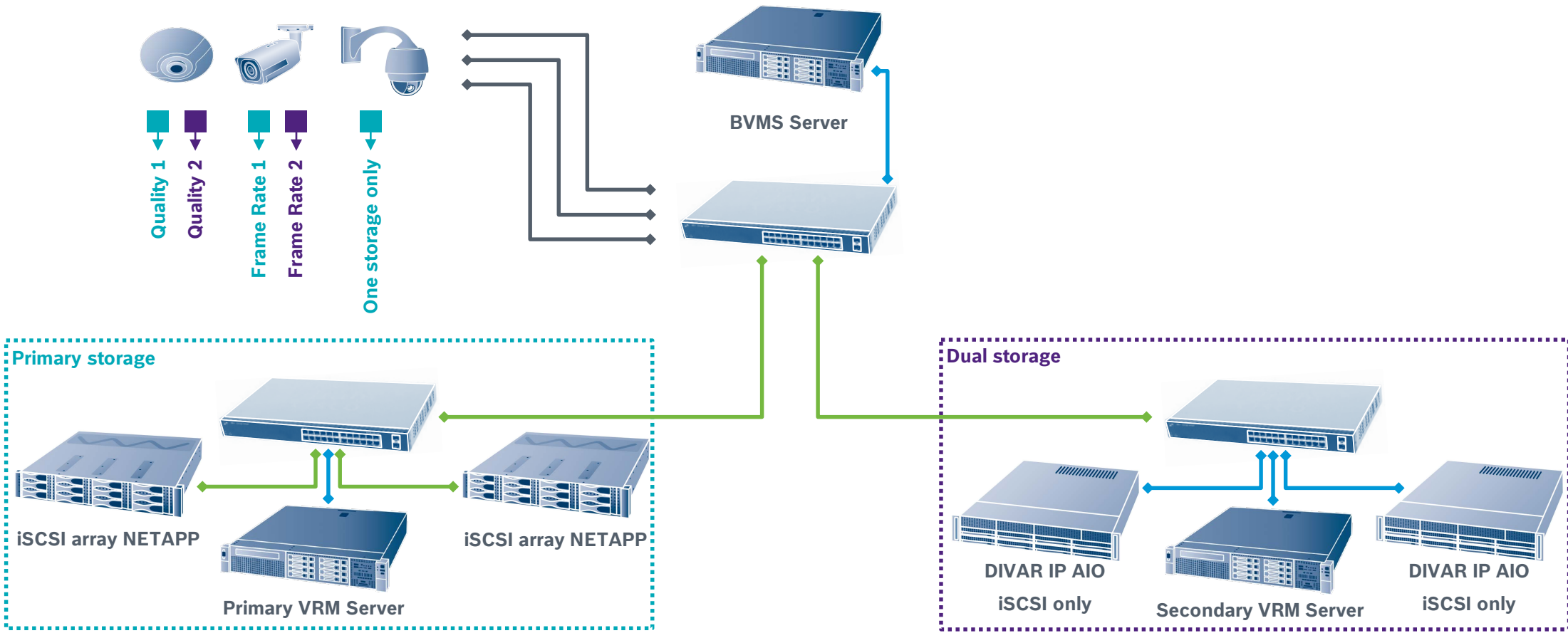
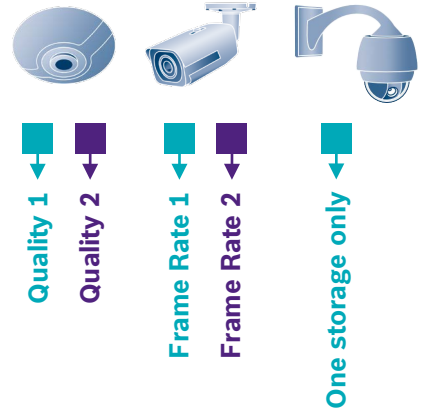
BVMS Blueprints

Dual recording

CAMERAS
2000
max

CLIENTS
100
max

- ❖ BLACK = 100Mbit/s
- ❖ BLUE = 1Gbit/s
- ❖ GREEN = 1Gbit/s - 10Gbit/s



BVMS ENTERPRISE

SCALABLE ARCHITECTURE

BVMS Blueprints

Enterprise – Multi-servers

CAMERAS
10.000
max

CLIENTS
100
max

SUBSYSTEMS
100
max

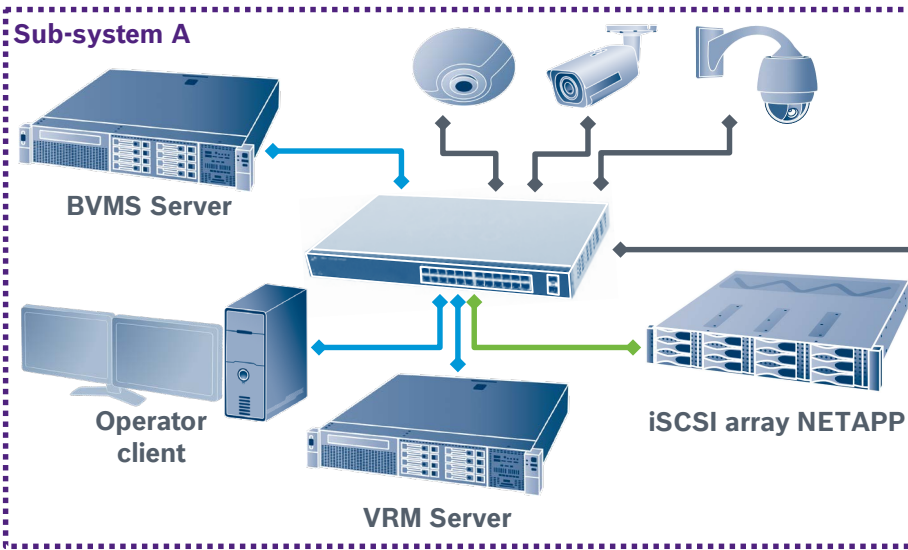
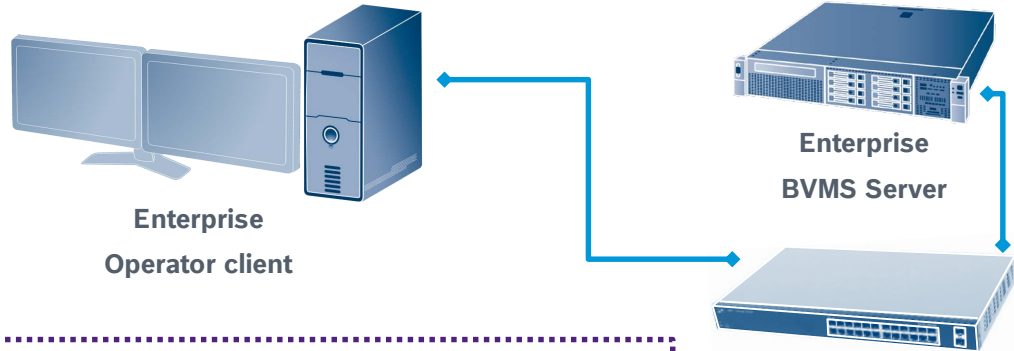
- ❖ **BLACK** = 100Mbit/s
- ❖ **BLUE** = 1Gbit/s
- ❖ **GREEN** = 1Gbit/s - 10Gbit/s

Up to 2.000 cameras per subsystem.

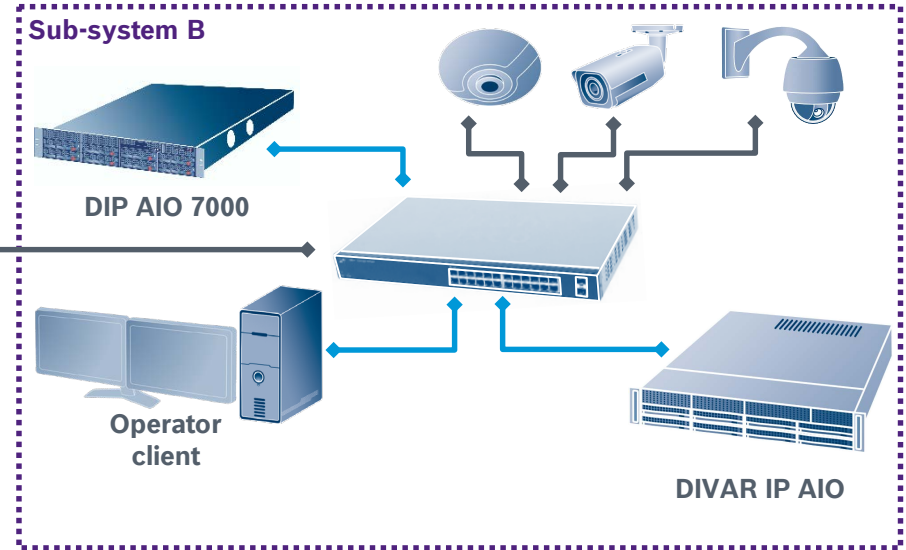
Up to 10.000 cameras per user-group.

Up to 200.000 cameras per environment, spread over 20 user-groups.

Subsystem: BVMS (Lite, Plus, Professional), DIVAR IP3000, 7000, DIVAR IP AIO 5000, 7000



100Mbit/s recommended
(depending on requirements)



BVMS APPLIANCES

DIVAR IP3000/7000
DIVAR IPAIO 5000/6000/7000

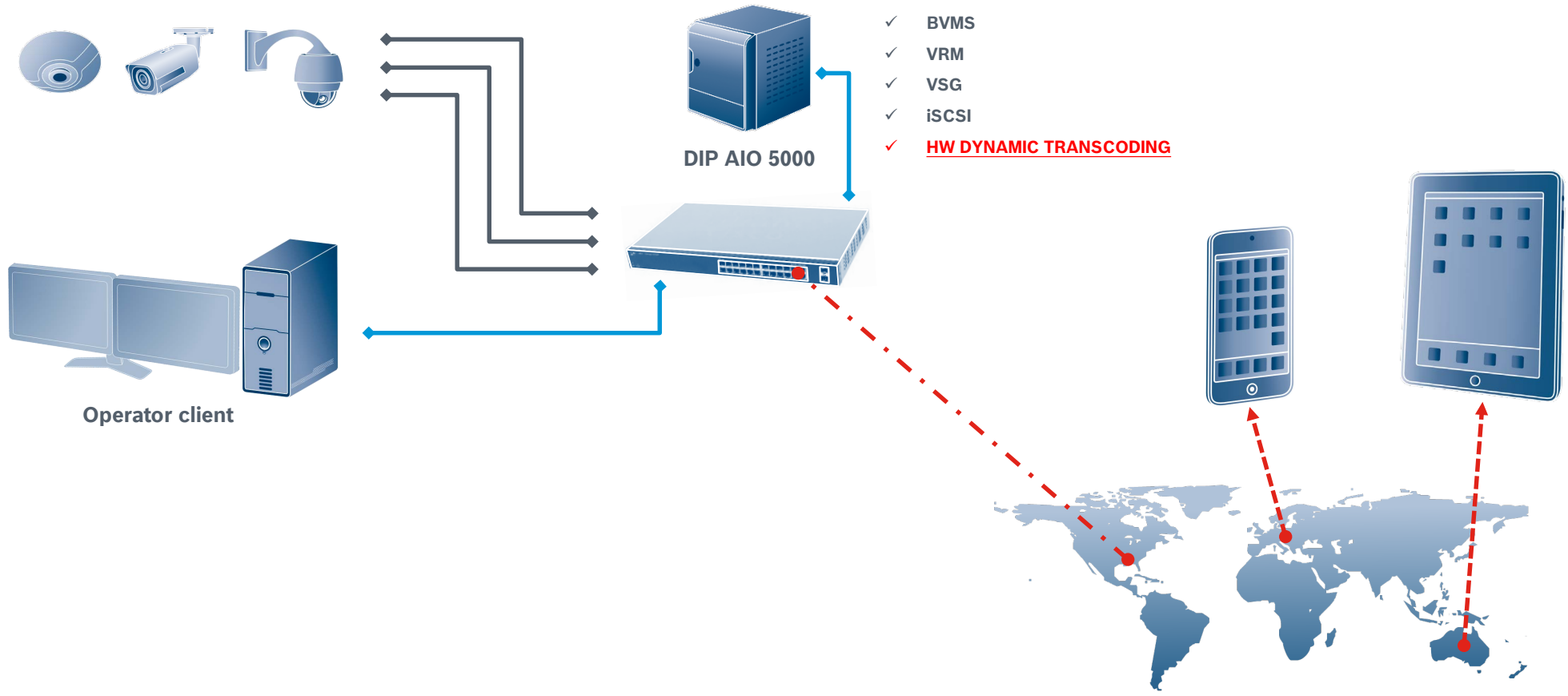
BVMS Blueprints

DIVAR IP AIO 5000

CAMERAS
42
max

CLIENTS
5
max

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- ❖ BLUE = 1Gbit/s
- ❖ GREEN = 1Gbit/s - 10Gbit/s



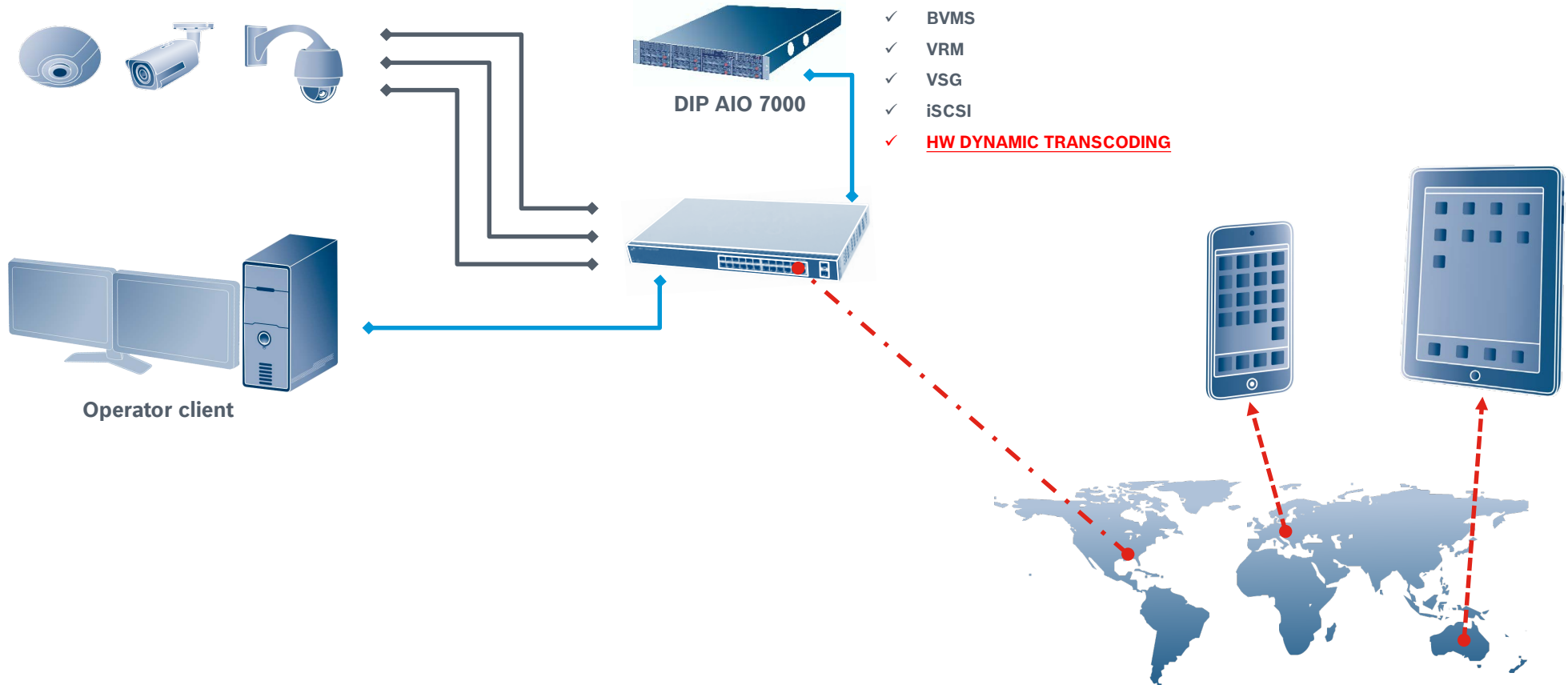
BVMS Blueprints

DIVAR IP AIO 7000

CAMERAS
256
max

CLIENTS
10
max

- ❖ BLACK = 100Mbit/s
- ❖ BLUE = 1Gbit/s
- ❖ GREEN = 1Gbit/s - 10Gbit/s

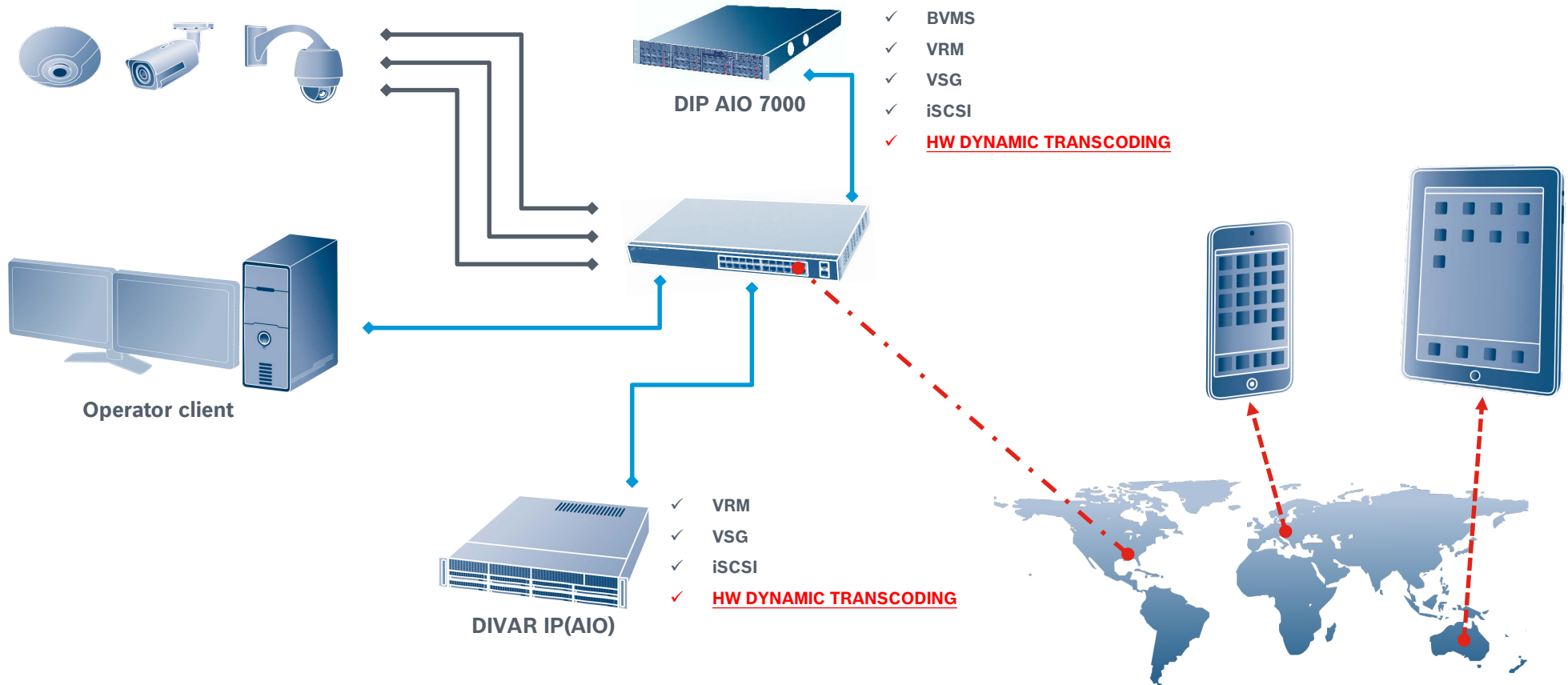


BVMS Blueprints

DIVAR IP AIO 7000 + Storage

CAMERAS	CLIENTS	DIP6000
128	10	4
max	max	max

- ❖ BLACK = 100Mbit/s
- ❖ BLUE = 1Gbit/s
- ❖ GREEN = 1Gbit/s - 10Gbit/s



BVMS

LOW BANDWIDTH CONNECTIONS

BVMS Blueprints

Unmanaged sites

SITES
9999
max

CLIENTS
100
max

DEVICES
5 max
per site

NO ALARM

NO STATUS

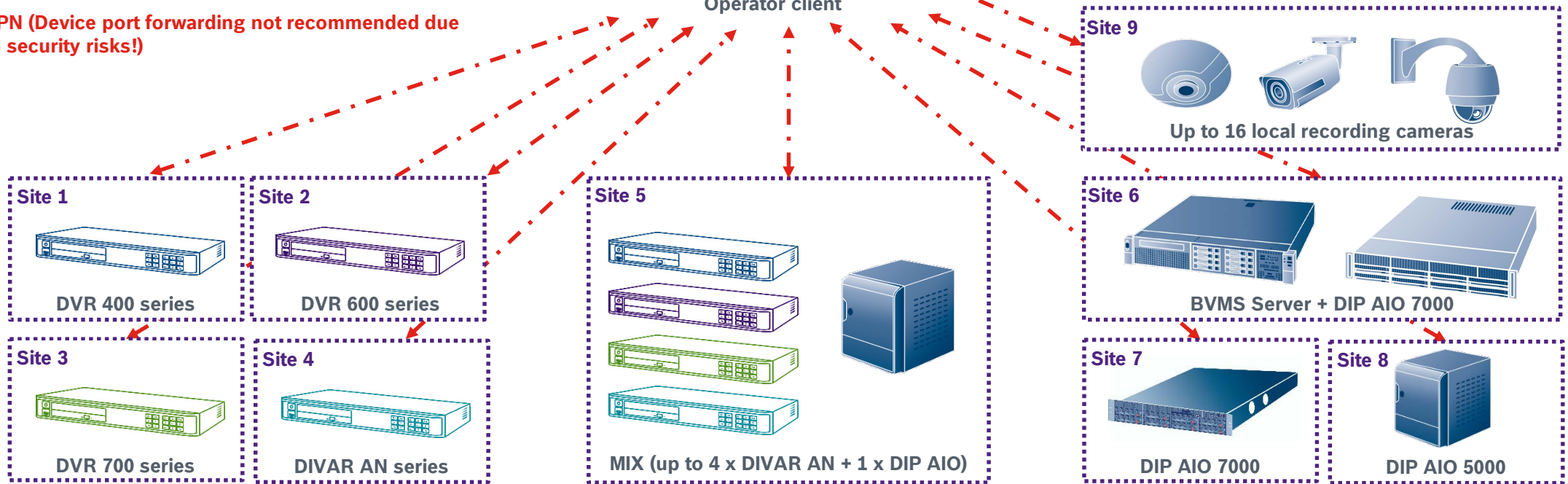
- ❖ BLACK = 100Mbit/s
- ❖ BLUE = 1Gbit/s
- ❖ GREEN = 1Gbit/s - 10Gbit/s
- ❖ RED = >1Mb



CONNECTION ON DEMAND

(max 20 simultaneous connections / client)

VPN (Device port forwarding not recommended due to security risks!)



Setup DVR cameras profile and bandwidth limits according to the available bandwidth and simultaneous video streams to be transmitted via WAN

BVMS Blueprints

Pro – Server as Lookup service

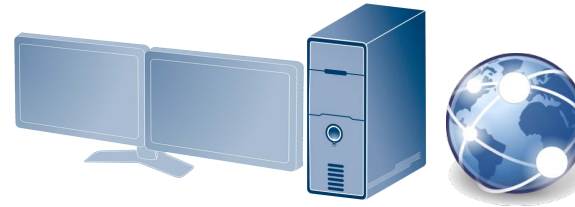
SITES
9999
max

CLIENTS
100
max

- ❖ BLACK = 100Mbit/s
- ❖ BLUE = 1Gbit/s
- ❖ GREEN = 1Gbit/s - 10Gbit/s
- ❖ RED = >1Mb



BVMS Server



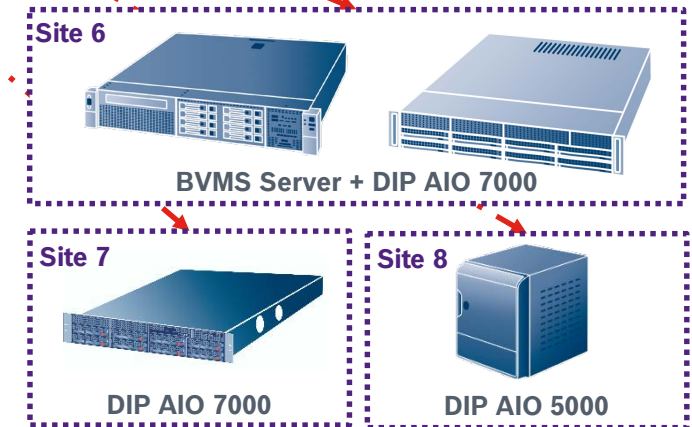
Operator client

CONNECTION ON DEMAND SITE / SITE

Operator client connects to the Server Lookup Service, finds the server he wants to connect to, then connects directly to that server.

In case there is not enough bandwidth between the local and the remote site, a transcoded session can be used for live video and replay of video on the Operator Client! Otherwise impact on connection to VRM & Devices. Overload on limited bandwidth connection causes wrong state display.

Limitations : The very first connection from Operator Client to Single server causes a higher network load. This is because configuration data needs to be synchronized between them.



BVMS OPENNESS

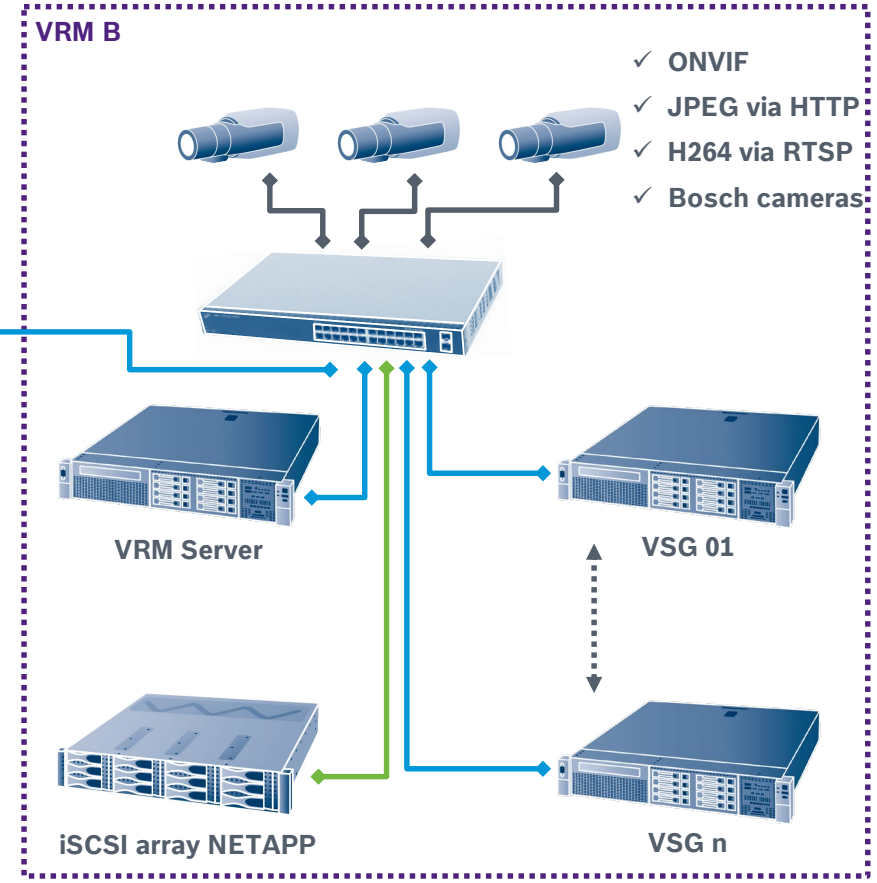
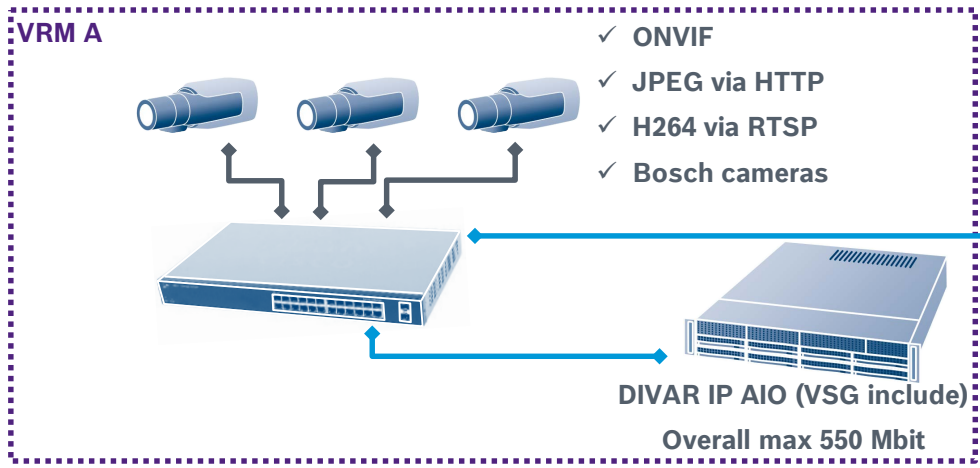
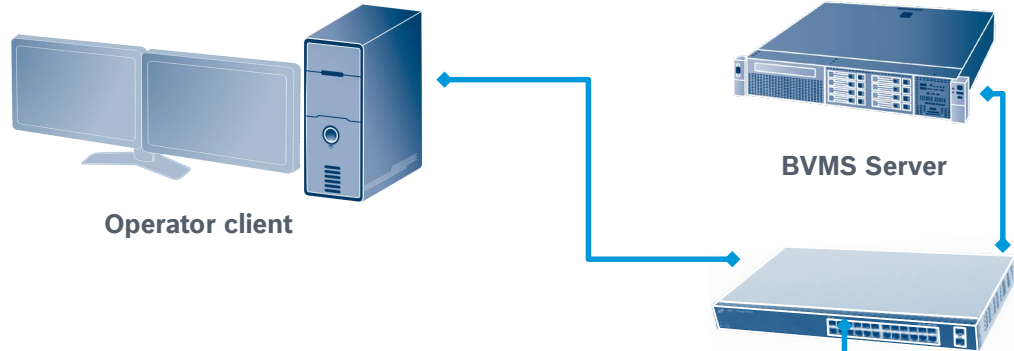
VIDEO STREAMING GATEWAY

BVMS Blueprints

Video Streaming Gateway

CHANNELS
32/VSG
max

- ❖ BLACK = 100Mbit/s
- ❖ BLUE = 1Gbit/s
- ❖ GREEN = 1Gbit/s - 10Gbit/s



BVMS VIEWER

BVMS Blueprints

BVMS Viewer

CAMERAS
500
max

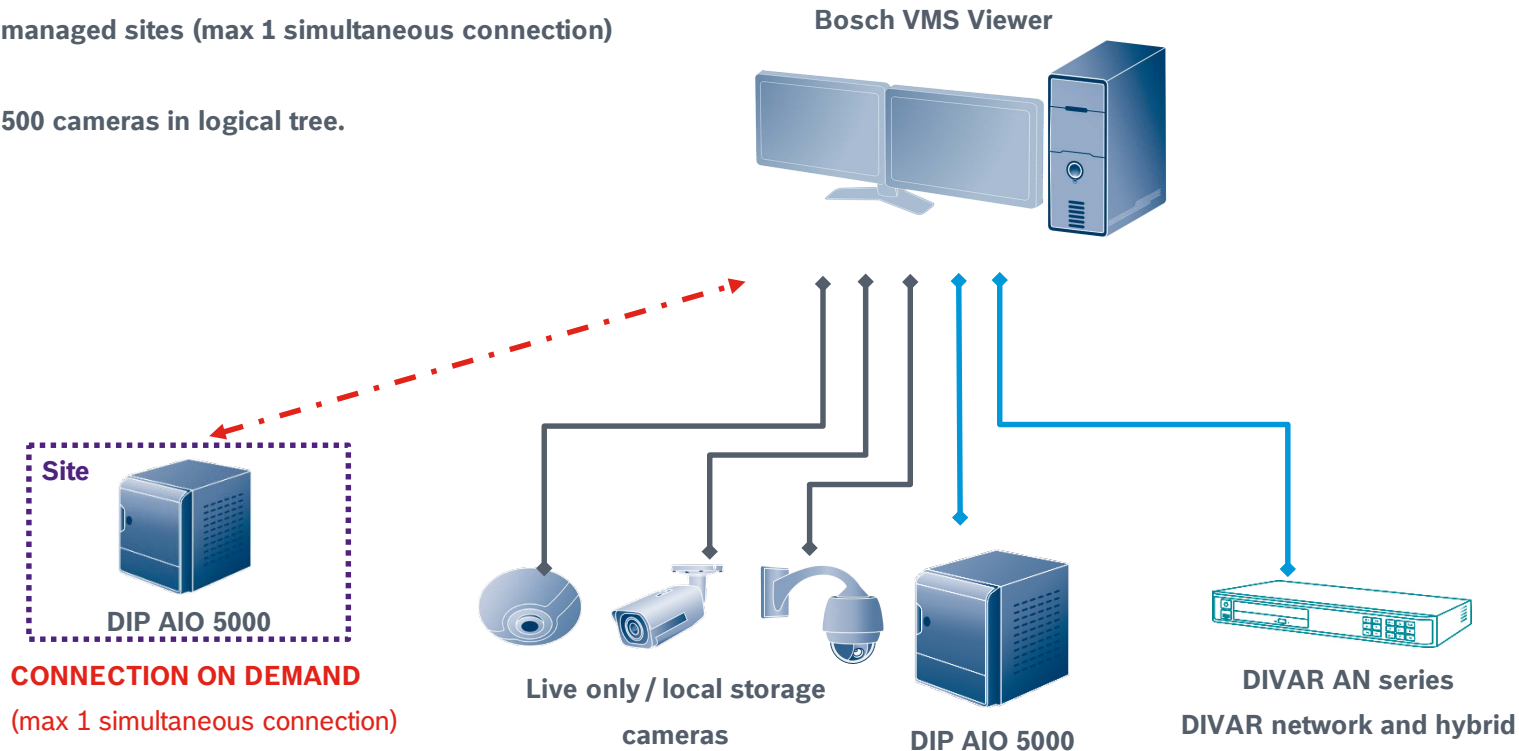
CLIENTS
1
max

- ❖ **BLACK** = 100Mbit/s
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Free of charge:

- 16 live only / local storage cameras
- 5 Recording solutions (DVR, Dibos/BRS, VRM device)
- 16 unmanaged sites (max 1 simultaneous connection)

Max limit: 500 cameras in logical tree.



BOSCH VIDEO MANAGEMENT SYSTEM

