



From

BT-VS/ETP-MKP1

Product Management

Nuremberg

19.05.2020

Release Letter

Products:	<i>Combined Signed Firmware for CPP7.3 UHD/HD/MP cameras CPP7 HD/MP cameras CPP6 UHD/MP cameras CPP4 HD cameras</i>
Version:	<i>7.61.0515</i>

This letter contains latest information about the above mentioned firmware version.

1 General

This firmware release is a combined and signed firmware package, applicable to H.264 and H.265 products based on one of the following platforms.
It can be used to upgrade firmware on cameras of the applicable platforms running firmware version 6.51 or higher.

This combined and signed firmware supports platforms only that force a two-factor authenticated release signature and accept encrypted firmware files to help increase the overall security level.



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This firmware supports:

- CPP7.3 HD and UHD cameras
 - upgrade from FW 6.51 or newer to latest [FW 7.61](#)
- CPP7 HD cameras
 - upgrade from FW 6.51 or newer to latest [FW 7.61](#)
- CPP6 HD and UHD cameras
 - upgrade from FW 6.51 or newer to latest [FW 7.61](#)
- CPP4 HD and MP cameras
 - upgrade from FW 6.51 or newer to latest FW 7.10

The combined firmware package includes the following build versions:

- [CPP7.3 FW 7.61.0026](#)
- [CPP7 H.264 7.61.0023](#)
- [CPP6E H.264 7.61.0023](#)
- [CPP6 H.264 7.61.0023](#)
- [CPP4 H.264 7.10.0076](#)

For detailed description please refer to the separate release letters.



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2 Important notes

2.1 *End of Feature for CPP4 – Maintenance mode started*

With release of FW 7.10, feature implementation for the CPP4 platform ends, and the firmware development will switch over into maintenance mode. The firmware branch for CPP4 is now treated as a **long-term supported firmware (LTSFW)**, with its code base frozen to allow bug fixing and applying security fixes where necessary.

2.2 *Two-factor authenticated firmware signature*

The security of the signature of the firmware file has been strengthened by using a two-factor authentication process for signing the final firmware file. This new process has been prepared for with firmware 6.50 and comes into effect with succeeding versions, from firmware 6.51 onwards.

The new signature protects from non-released versions being installed in productive systems. As a result, pre-release (beta) versions, required sometimes in projects, need to have a special license installed prior to the firmware update. Requests for pre-release versions need to be handled via tech support tickets in order to allow tracking and require a concession signed by the customer.

Note:

This combined firmware file is not applicable to devices running firmware older than FW 6.51 due to the two-factor authenticated release signature and firmware file encryption.

For such devices apply the unsigned combined firmware file or the platform-specific firmware up to firmware 6.51 before using this combined and signed firmware.

2.3 *Firmware file encryption*

This combined and signed firmware includes signed and encrypted firmware files only. Thus, only platforms that support firmware file decryption are applicable to this combined and signed firmware.

2.4 *Secure crypto-coprocessor (TPM)*

Some devices incorporate a secure crypto-coprocessor, which we call our Trusted Platform Module (TPM), with own firmware.

This secure crypto-coprocessor hardware and firmware have been enhanced over time to allow for additional security features.

Due to security reasons, the firmware or functionality of the secure crypto-coprocessor cannot be altered in the field.

Thus, not all new security features become available on devices with older secure crypto-coprocessor hardware or firmware revisions.



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3 Applicable products

CPP7.3

- AUTODOME IP 4000i
- AUTODOME IP 5000i
- AUTODOME IP starlight 5000i (IR)
- AUTODOME IP starlight 7000i
- DINION IP 3000i
- DINION IP bullet 4000i
- DINION IP bullet 5000
- DINION IP bullet 5000i
- DINION IP bullet 6000i
- FLEXIDOME IP 3000i
- FLEXIDOME IP 4000i
- FLEXIDOME IP 5000i
- FLEXIDOME IP starlight 8000i
- MIC IP starlight 7000i
- MIC IP starlight 7100i
- MIC IP ultra 7100i
- MIC IP fusion 9000i

CPP7

- DINION IP starlight 6000
- DINION IP starlight 7000
- DINION IP thermal 8000
- FLEXIDOME IP starlight 6000
- FLEXIDOME IP starlight 7000



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CPP6

- DINION IP starlight 8000 12MP
- DINION IP ultra 8000 12MP
- DINION IP ultra 8000 12MP with C/CS mount telephoto lens
- FLEXIDOME IP panoramic 6000 12MP 180
- FLEXIDOME IP panoramic 6000 12MP 360
- FLEXIDOME IP panoramic 6000 12MP 180 IVA
- FLEXIDOME IP panoramic 6000 12MP 360 IVA
- FLEXIDOME IP panoramic 7000 12MP 180
- FLEXIDOME IP panoramic 7000 12MP 360
- FLEXIDOME IP panoramic 7000 12MP 180 IVA
- FLEXIDOME IP panoramic 7000 12MP 360 IVA



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CPP4

- AUTODOME IP 4000 HD
- AUTODOME IP 5000 HD
- AUTODOME IP 5000 IR
- AUTODOME 7000 series
- DINION HD 1080p
- DINION HD 1080p HDR
- DINION HD 720p
- DINION imager 9000 HD
- DINION IP bullet 4000
- DINION IP bullet 5000
- DINION IP 4000 HD
- DINION IP 5000 HD
- DINION IP 5000 MP
- DINION IP starlight 7000 HD
- ~~EXTEGRA IP dynamic 9000~~
- ~~EXTEGRA IP starlight 9000~~
- FLEXIDOME corner 9000 MP
- FLEXIDOME HD 1080p
- FLEXIDOME HD 1080p HDR
- FLEXIDOME HD 720p
- Vandal-proof FLEXIDOME HD 1080p
- Vandal-proof FLEXIDOME HD 1080p HDR
- Vandal-proof FLEXIDOME HD 720p
- FLEXIDOME IP micro 2000 HD
- FLEXIDOME IP micro 2000 IP
- FLEXIDOME IP indoor 4000 HD
- FLEXIDOME IP indoor 4000 IR
- FLEXIDOME IP outdoor 4000 HD
- FLEXIDOME IP outdoor 4000 IR
- FLEXIDOME IP indoor 5000 HD
- FLEXIDOME IP indoor 5000 MP
- FLEXIDOME IP micro 5000 HD
- FLEXIDOME IP micro 5000 MP
- FLEXIDOME IP outdoor 5000 HD
- FLEXIDOME IP outdoor 5000 MP
- FLEXIDOME IP panoramic 5000
- IP bullet 4000 HD
- IP bullet 5000 HD
- IP micro 2000
- IP micro 2000 HD
- MIC IP dynamic 7000
- MIC IP starlight 7000
- TINYON IP 2000 family

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4 Changes for CPP6 and CPP7 products

- An issue with UDP multicast no longer working after upgrade to FW 7.60 is fixed.
- An issue is fixed where high-frequent motion recording with 10 seconds pre-alarm in RAM may stop sporadically.
- An issue, introduced with FW 7.60, is fixed where ANR was only doing alarm recording though being configured for continuous recording.

Please check the platform-specific [release notes of FW 7.61.0023](#) for completeness and details.

5 Changes for CPP7.3 products

- An issue with UDP multicast no longer working after upgrade to FW 7.60 is fixed.
- An issue is fixed where high-frequent motion recording with 10 seconds pre-alarm in RAM may stop sporadically.
- An issue, introduced with FW 7.60, is fixed where ANR was only doing alarm recording though being configured for continuous recording.

Note:

This version replaces build 23 which needed to have the open source license text corrected. The updated open source license text is published with this firmware. There are no functional changes and no need to update the firmware if build 23 is already installed, except when the device shall provide the corrected open source license text as well.

Please check the platform-specific [release notes of FW 7.61.0026](#) for completeness and details.



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6 Restrictions; Known Issues

- This combined firmware file is not applicable to devices running firmware older than FW 6.51 due to the two-factor authenticated release signature and firmware file encryption.
- Video authentication using SHA hashing mechanisms are not functional if no self-signed certificate has been created yet. Opening an HTTPS connection once is prerequisite.
- Cameras with security coprocessor version 3 with an externally applied certificate will fail HTTPS connections requesting SHA256. The restriction applies to all functions using the private key from the certificate, including
 - EAP-TLS with client authentication
 - TLS-Time with client authentication
 - TLS-Syslog with client authentication

With self-signed certificate, HTTPS is fully functional.

- Creating 2048 bit keys for self-signed certificates may take more than 20 seconds, extending the initial boot cycle, which may occasionally cause a timeout on the very first HTTPS connection to a camera. The next connection attempt typically is successful.
- Software sealing does not cover all static parameters of image pre-processing and moving camera control.
- If software sealing is active and SNMP is disabled in Network -> Network Services, no SNMP trap will be sent out on seal break due to the disabled service. The seal break itself is logged.
- Creating 2048 bit keys for self-signed certificates may take more than 20 seconds, extending the initial boot cycle, which may occasionally cause a timeout on the very first HTTPS connection to a camera. The next connection attempt typically is successful.
- Software sealing does not cover all static parameters of image pre-processing and moving camera control.
- If software sealing is active and SNMP is disabled in Network -> Network Services, no SNMP trap will be sent out on seal break due to the disabled service. The seal break itself is logged.
- This combined firmware file is not applicable to devices running firmware higher than FW 6.50 due to the 2-factor release signature.
- AVIOTEC firmware is not included in this combined firmware file.

Please check the respective release letter of a camera or encoder for further device-specific restrictions.



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7 System Requirements

Possible clients for configuration purposes:

- Configuration Manager 7.0 or newer
- Web Browsers:
 - Microsoft Internet Explorer 11.0 or higher
 - Mozilla Firefox

Possible clients for operation purposes:

- Bosch Video Security App 1.2 or higher
- Bosch Video Security Client 2.0 or higher
- Web Browsers:
 - Microsoft Internet Explorer 11.0 or higher
 - Mozilla Firefox
- BVC 1.7 or newer

- DirectX 11
- MPEG-ActiveX 6.34 or newer