

1	Compatibility of Hardware, S	Software and Firmware	e Versions		. 8
1.1 1.2 1.3 1.4	Structure of the version number Compatibility between DatafoxStu	udioIV – DFCom – Firmwa	re		8 9
2	Release Version 04.02.05			······································	10
2.1 2.2 2.3 2.4	Released at January 29 th 2018 Released at September 10 th 2018 Released at November 11 th 2018 Released at June 18 th 2020	Firmware 04.02.05.58 Firmware 04.02.05.59 Firmware 04.02.05.60 Firmware 04.02.05.62	DatafoxStudioIV 04.03.10.12 DatafoxStudioIV 04.03.11.11 DatafoxStudioIV 04.03.11.11 DatafoxStudioIV 04.03.15.01	DFCom 04.03.10.12 DFCom 04.03.11.11 DFCom 04.03.11.11 DFCom 04.03.15.01	10 10
3	Release Version 04.03.09				11
3.1 3.2	Released at March 16 th 2018 Released at March 22 nd 2019	Firmware 04.03.09.18 Firmware 04.03.09.20	DatafoxStudioIV 04.03.10.12 DatafoxStudioIV 04.03.12.05	DFCom 04.03.10.12 DFCom 04.03.12.05	11 13
4					
4.1 4.2 4.3 4.4 4.5 4.6 4.7 4.8 4.9 4.10 4.11	Released at March 16 th 2018 Released at April 13 th 2018 Released at May 9 th 2018 Released at May 18 th 2018 Released at June 13 th 2018 Released at August 10 th 2018 Released at August 28 th 2018 Released at October 18 th 2018 Released at November 30 th 2018 Released at January 07 th 2019 Released at March 22 nd 2019	Firmware 04.03.10.10 Firmware 04.03.10.12 Firmware 04.03.10.13 Firmware 04.03.10.14 Firmware 04.03.10.15 Firmware 04.03.10.17 Firmware 04.03.10.18 Firmware 04.03.10.20 Firmware 04.03.10.20 Firmware 04.03.10.21 Firmware 04.03.10.22	DatafoxStudioIV 04.03.10.12 DatafoxStudioIV 04.03.12.05 DatafoxStudioIV 04.03.12.05 DatafoxStudioIV 04.03.12.65	DFCom 04.03.10.12 DFCom 04.03.12.05 [PCN2018P2] DFCom 04.03.12.05	15 15 15 16 17 18 18
5					
5.1 5.2 5.3	Released at April 27 th 2018 Released at July 3 rd 2018 Released at August 14 th 2018	Firmware 04.03.11.01 Firmware 04.03.11.02 Firmware 04.03.11.03	DatafoxStudioIV 04.03.11.02 DatafoxStudioIV 04.03.11.09 DatafoxStudioIV 04.03.11.11	DFCom 04.03.11.02 DFCom 04.03.11.09 DFCom 04.03.11.11	20 20



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5.4	Released at August 30th 2018	Firmware 04.03.11.04	DatafoxStudioIV 04.03.11.11	DFCom 04.03.11.1123
5.5	Released at February 8th 2018	Firmware 04.03.11.07	DatafoxStudioIV 04.03.12.05	DFCom 04.03.12.06 [PCN2018P2]23
5.6	Released at March 22 nd 2019	Firmware 04.03.11.08	DatafoxStudioIV 04.03.12.05	DFCom 04.03.12.0524
5.7	Released at May 20th 2019	Firmware 04.03.11.09	DatafoxStudioIV 04.03.12.09	DFCom 04.03.12.09 24
5.8	Released at July 24th 2020	Firmware 04.03.11.14	DatafoxStudioIV 04.03.12.09	DFCom 04.03.12.0925
5.9	Released at July 27th 2022	Firmware 04.03.11.17	DatafoxStudioIV 04.03.12.09	DFCom 04.03.12.0925
5.10	Released at August 04th 2023	Firmware 04.03.11.19		25
6	Release Version 04.03.12			25
6.1	Released at June 27th 2019	Firmware 04.03.12.07	DatafoxStudioIV 04.03.12.11	DFCom 04.03.12.1125
6.2	Released at July 15th 2019	Firmware 04.03.12.09	DatafoxStudioIV 04.03.12.12	DFCom 04.03.12.1226
6.3	Released at August 9th 2019	Firmware 04.03.12.11	DatafoxStudioIV 04.03.12.12	DFCom 04.03.12.1226
6.4	Released at August 30th 2019	Firmware 04.03.12.12	DatafoxStudioIV 04.03.12.12	DFCom 04.03.12.1227
6.5	Released at September 27th 2019	Firmware 04.03.12.14	DatafoxStudioIV 04.03.13.04	DFCom 04.03.13.0428
7	Release Version 04.03.13			29
7.1	Released at September 27th 2019	Firmware 04.03.13.04	DatafoxStudioIV 04.03.13.04	DFCom 04.03.13.0429
7.2	Released at October 11 th 2019	Firmware 04.03.13.05	DatafoxStudioIV 04.03.13.04	DFCom 04.03.13.04
7.3	Released at October 30 th 2019	Firmware 04.03.13.08	DatafoxStudioIV 04.03.13.06	DFCom 04.03.13.06
7.4	Released at November 25 th 2019	Firmware 04.03.13.09	DatafoxStudioIV 04.03.13.06	DFCom 04.03.13.06
7. - 7.5	Released at December 11th 2019	Firmware 04.03.13.11	DatafoxStudioIV 04.03.13.06	DFCom 04.03.13.06
		1 11111Ware 04.03.13.11		
8	Release Version 04.03.14			32
8.1	Released at December 13th 2019	Firmware 04.03.14.01	DatafoxStudioIV 04.03.14.03	DFCom 04.03.14.05 32
8.2	Released at January 9th 2020	Firmware 04.03.14.02	DatafoxStudioIV 04.03.14.03	DFCom 04.03.14.05 33
8.3	Released at March 19th 2020	Firmware 04.03.14.06	DatafoxStudioIV 04.03.14.11	DFCom 04.03.14.1133
8.4	Released at March 26th 2020	Firmware 04.03.14.07	DatafoxStudioIV 04.03.14.11	DFCom 04.03.14.1135
8.5	Released at April 3 rd 2020	Firmware 04.03.14.08	DatafoxStudioIV 04.03.14.11	DFCom 04.03.14.1135
8.6	Released at May 4th 2020	Firmware 04.03.14.09	DatafoxStudioIV 04.03.14.11	DFCom 04.03.14.11 35
8.7	Released at May 28th 2020	Firmware 04.03.14.10	DatafoxStudioIV 04.03.14.12	DFCom 04.03.14.12 36
8.8	Released at July 1 st 2020	Firmware 04.03.14.12	DatafoxStudioIV 04.03.14.12	DFCom 04.03.14.12 36
8.9	Released at July 17 th 2020	Firmware 04.03.14.13	DatafoxStudioIV 04.03.14.12	DFCom 04.03.14.1237
9	Release Version 04.03.15			37



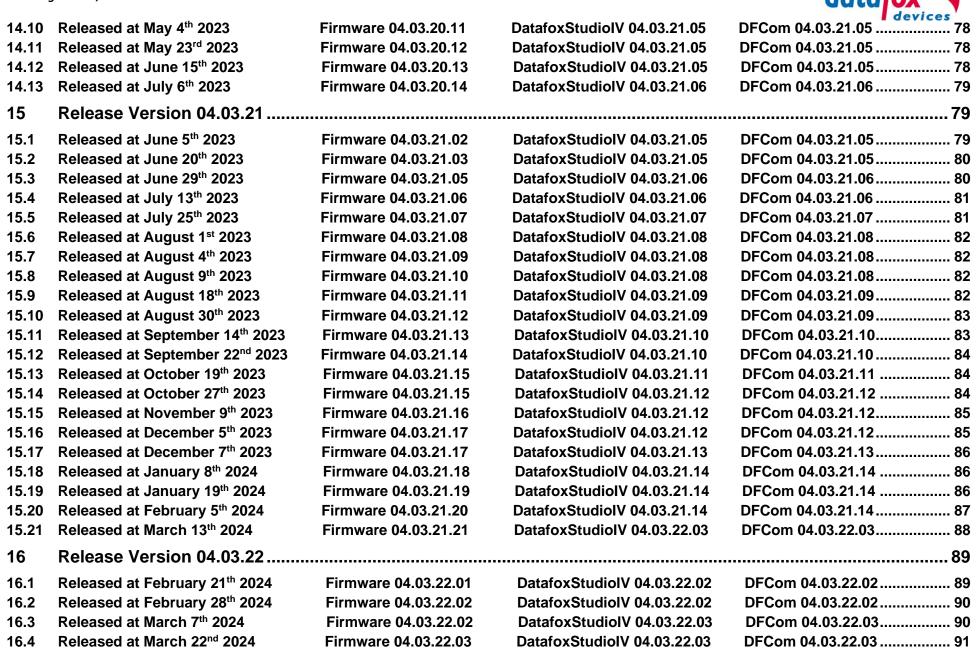
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9.1	Released at July 7 th 2020	Firmware 04.03.15.01	DatafoxStudioIV 04.03.15.01	DFCom 04.03.15.01 37
9.2	Released at July 17th 2020	Firmware 04.03.15.02	DatafoxStudioIV 04.03.15.02	DFCom 04.03.15.01 38
9.3	Released at July 27th 2020	Firmware 04.03.15.04	DatafoxStudioIV 04.03.15.03	DFCom 04.03.15.03 38
9.4	Released at August 10th 2020	Firmware 04.03.15.05	DatafoxStudioIV 04.03.15.04	DFCom 04.03.15.04 39
9.5	Released at September 11th 2020	Firmware 04.03.15.06	DatafoxStudioIV 04.03.15.05	DFCom 04.03.15.05 39
9.6	Released at September 21st 2020	Firmware 04.03.15.06	DatafoxStudioIV 04.03.15.06	DFCom 04.03.15.06 40
9.7	Released at October 7 st 2020	Firmware 04.03.15.07	DatafoxStudioIV 04.03.15.07	DFCom 04.03.15.07 41
9.8	Released at October 14st 2020	Firmware 04.03.15.08	DatafoxStudioIV 04.03.15.08	DFCom 04.03.15.08 41
9.9	Released at October 21st 2020	Firmware 04.03.15.09	DatafoxStudioIV 04.03.15.08	DFCom 04.03.15.08 42
9.10	Released at November 4th 2020	Firmware 04.03.15.10	DatafoxStudioIV 04.03.15.08	DFCom 04.03.15.08 42
9.11	Released at November 11th 2020	Firmware 04.03.15.11	DatafoxStudioIV 04.03.15.08	DFCom 04.03.15.08 43
9.12	Released at November 25th 2020	Firmware 04.03.15.12	DatafoxStudioIV 04.03.15.08	DFCom 04.03.15.08 43
9.13	Released at December 9th 2020	Firmware 04.03.15.13	DatafoxStudioIV 04.03.15.08	DFCom 04.03.15.08 43
9.14	Released at January 20th 2021	Firmware 04.03.15.15	DatafoxStudioIV 04.03.15.08	DFCom 04.03.15.08 44
9.15	Released at January 26th 2021	Firmware 04.03.15.16	DatafoxStudioIV 04.03.15.08	DFCom 04.03.15.08 44
9.16	Released at March 3 rd 2021	Firmware 04.03.15.17	DatafoxStudioIV 04.03.15.08	DFCom 04.03.15.08 44
9.17	Released at March 18th 2021	Firmware 04.03.15.18	DatafoxStudioIV 04.03.17.05	DFCom 04.03.17.05 45
10	Release Version 04.03.16			45
10.1	Released at December 23 th 2020	Firmware 04.03.16.01	DatafoxStudioIV 04.03.16.01	DFCom 04.03.16.0145
10.2	Released at January 13th 2021	Firmware 04.03.16.02	DatafoxStudioIV 04.03.16.01	DFCom 04.03.16.01 45
10.3	Released at January 26th 2021	Firmware 04.03.16.03	DatafoxStudioIV 04.03.17.03	DFCom 04.03.17.02 46
10.4	Released at February 10 th 2021	Firmware 04.03.16.04	DatafoxStudioIV 04.03.17.04	DFCom 04.03.17.02 47
10.5	Released at March 3 rd 2021	Firmware 04.03.16.05	DatafoxStudioIV 04.03.17.04	DFCom 04.03.17.02 47
10.6	Released at March 18th 2021	Firmware 04.03.16.06	DatafoxStudioIV 04.03.17.05	DFCom 04.03.17.05 47
11	Release Version 04.03.17			48
11.1	Released at March 3 rd 2021	Firmware 04.03.17.01	DatafoxStudioIV 04.03.17.05	DFCom 04.03.17.05 48
11.2	Released at March 18th 2021	Firmware 04.03.17.02	DatafoxStudioIV 04.03.17.05	DFCom 04.03.17.05 48
11.3	Released at March 24th 2021	Firmware 04.03.17.03	DatafoxStudioIV 04.03.17.05	DFCom 04.03.17.05 49
11.4	Released at March 31 st 2021	Firmware 04.03.17.04	DatafoxStudioIV 04.03.17.05	DFCom 04.03.17.05 49
11.5	Released at April 14th 2021	Firmware 04.03.17.05	DatafoxStudioIV 04.03.17.05	DFCom 04.03.17.0550
11.6	Released at April 21th 2021	Firmware 04.03.17.06	DatafoxStudioIV 04.03.17.05	DFCom 04.03.17.0550
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11.7	Released at April 28 th 2021	Firmware 04.03.17.07	DatafoxStudioIV 04.03.17.05	DFCom 04.03.17.05
11.8	Released at May 6 th 2021	Firmware 04.03.17.08	DatafoxStudioIV 04.03.17.05	DFCom 04.03.17.05 51
11.9	Released at May 19 th 2021	Firmware 04.03.17.09	DatafoxStudioIV 04.03.17.05	DFCom 04.03.17.05 51
11.10	Released at June 10th 2021	Firmware 04.03.17.10	DatafoxStudioIV 04.03.17.06	DFCom 04.03.17.06 51
11.11	Released at June 21th 2021	Firmware 04.03.17.11	DatafoxStudioIV 04.03.17.06	DFCom 04.03.17.06 52
11.12	Released at July 14th 2021	Firmware 04.03.17.12	DatafoxStudioIV 04.03.17.06	DFCom 04.03.17.06 52
11.13	Released at July 21th 2021	Firmware 04.03.17.13	DatafoxStudioIV 04.03.17.06	DFCom 04.03.17.06 53
11.14	Released at July 28th 2021	Firmware 04.03.17.14	DatafoxStudioIV 04.03.17.06	DFCom 04.03.17.06 53
11.15	Released at August 4th 2021	Firmware 04.03.17.15	DatafoxStudioIV 04.03.17.06	DFCom 04.03.17.0654
11.16	Released at August 12th 2021	Firmware 04.03.17.16	DatafoxStudioIV 04.03.17.06	DFCom 04.03.17.0654
11.17	Released at August 25th 2021	Firmware 04.03.17.17	DatafoxStudioIV 04.03.17.06	DFCom 04.03.17.0655
11.18	Released at September 16th 2021	Firmware 04.03.17.18	DatafoxStudioIV 04.03.17.06	DFCom 04.03.17.0655
11.19	Released at October 6th 2021	Firmware 04.03.17.19	DatafoxStudioIV 04.03.17.06	DFCom 04.03.17.06 55
11.20	Released at October 13th 2021	Firmware 04.03.17.20	DatafoxStudioIV 04.03.17.06	DFCom 04.03.17.06 56
11.21	Released at October 27th 2021	Firmware 04.03.17.21	DatafoxStudioIV 04.03.17.06	DFCom 04.03.17.06 56
11.22	Released at November 12th 2021	Firmware 04.03.17.22	DatafoxStudioIV 04.03.17.06	DFCom 04.03.17.0656
11.23	Released at November 17th 2021	Firmware 04.03.17.23	DatafoxStudioIV 04.03.17.06	DFCom 04.03.17.06 57
11.24	Released at December 21st 2021	Firmware 04.03.17.25	DatafoxStudioIV 04.03.17.06	DFCom 04.03.17.06 57
12	Release Version 04.03.18			58
12.1	Released at November 26 th 2021	Firmware 04.03.18.01	DatafoxStudioIV 04.03.18.02	DFCom 04.03.18.02 58
12.2	Released at December 10 th 2021	Firmware 04.03.18.01	DatafoxStudioIV 04.03.18.03	DFCom 04.03.18.03
12.3	Released at January 11 th 2022	Firmware 04.03.18.02	DatafoxStudioIV 04.03.18.04	DFCom 04.03.18.04
12.4	Released at January 24th 2022	Firmware 04.03.18.03	DatafoxStudioIV 04.03.18.05	DFCom 04.03.18.05
12.5	Released at February 10 th 2022	Firmware 04.03.18.04	DatafoxStudioIV 04.03.18.06	DFCom 04.03.18.06
12.6	Released at February 14 th 2022	Firmware 04.03.18.05	DatafoxStudioIV 04.03.18.06	DFCom 04.03.18.06
12.7	Released at February 23 th 2022	Firmware 04.03.18.06	DatafoxStudioIV 04.03.18.06	DFCom 04.03.18.06
12.7	Released at March 3 rd 2022	Firmware 04.03.18.07	DatafoxStudioIV 04.03.18.06	DFCom 04.03.18.06
12.9	Released at March 15 th 2022	Firmware 04.03.18.08	DatafoxStudioIV 04.03.18.06	DFCom 04.03.18.06 63
13	Release Version 04.03.19			64
13.1	Released at March 15th 2022	Firmware 04.03.19.01	DatafoxStudioIV 04.03.19.01	DFCom 04.03.19.01 64
13.2	Released at March 23th 2022	Firmware 04.03.19.02	DatafoxStudioIV 04.03.19.01	DFCom 04.03.19.0164



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13.3	Released at March 30 th 2022	Firmware 04.03.19.03	DatafoxStudioIV 04.03.19.01	DFCom 04.03.19.01 64
13.4	Released at April 13th 2022	Firmware 04.03.19.04	DatafoxStudioIV 04.03.19.02	DFCom 04.03.19.02 64
13.5	Released at May 25th 2022	Firmware 04.03.19.07	DatafoxStudioIV 04.03.19.03	DFCom 04.03.19.03 65
13.6	Released at May 30th 2022	Firmware 04.03.19.07	DatafoxStudioIV 04.03.19.04	DFCom 04.03.19.04 66
13.7	Released at June 3rd 2022	Firmware 04.03.19.08	DatafoxStudioIV 04.03.19.04	DFCom 04.03.19.04 66
13.8	Released at June 9th 2022	Firmware 04.03.19.09	DatafoxStudioIV 04.03.19.04	DFCom 04.03.19.04 67
13.9	Released at June 23th 2022	Firmware 04.03.19.10	DatafoxStudioIV 04.03.19.04	DFCom 04.03.19.04 67
13.10	Released at June 30th 2022	Firmware 04.03.19.11	DatafoxStudioIV 04.03.19.04	DFCom 04.03.19.04 67
13.11	Released at July 20th 2022	Firmware 04.03.19.12	DatafoxStudioIV 04.03.19.04	DFCom 04.03.19.04 68
13.12	Released at August 11th 2022	Firmware 04.03.19.13	DatafoxStudioIV 04.03.19.05	DFCom 04.03.19.05 68
13.13	Released at August 17th 2022	Firmware 04.03.19.14	DatafoxStudioIV 04.03.19.06	DFCom 04.03.19.06 69
13.14	Released at August 22 nd 2022	Firmware 04.03.19.14	DatafoxStudioIV 04.03.19.07	DFCom 04.03.19.07 69
13.15	Released at August 25th 2022	Firmware 04.03.19.14	DatafoxStudioIV 04.03.19.08	DFCom 04.03.19.08 69
13.16	Released at August 31st 2022	Firmware 04.03.19.15	DatafoxStudioIV 04.03.19.08	DFCom 04.03.19.0870
13.17	Released at September 7th 2022	Firmware 04.03.19.16	DatafoxStudioIV 04.03.19.08	DFCom 04.03.19.08 70
13.18	Released at September 15th 2022	Firmware 04.03.19.17	DatafoxStudioIV 04.03.19.08	DFCom 04.03.19.08 70
13.19	Released at September 28th 2022	Firmware 04.03.19.18	DatafoxStudioIV 04.03.19.08	DFCom 04.03.19.08 71
13.20	Released at October 13th 2022	Firmware 04.03.19.19	DatafoxStudioIV 04.03.19.09	DFCom 04.03.19.0971
13.21	Released at October 19th 2022	Firmware 04.03.19.20	DatafoxStudioIV 04.03.19.09	DFCom 04.03.19.0972
13.22	Released at November 3 rd 2022	Firmware 04.03.19.21	DatafoxStudioIV 04.03.19.10	DFCom 04.03.19.1072
13.23	Released at November 10th 2022	Firmware 04.03.19.22	DatafoxStudioIV 04.03.19.10	DFCom 04.03.19.1072
13.24	Released at November 23rd 2022	Firmware 04.03.19.23	DatafoxStudioIV 04.03.20.01	DFCom 04.03.20.0173
14	Release Version 04.03.20			73
14.1	Released at December 1st 2022	Firmware 04.03.20.01	DatafoxStudioIV 04.03.20.01	DFCom 04.03.20.01 73
14.2	Released at December 14th 2022	Firmware 04.03.20.02	DatafoxStudioIV 04.03.20.01	DFCom 04.03.20.0174
14.3	Released at December 21st 2022	Firmware 04.03.20.03	DatafoxStudioIV 04.03.20.02	DFCom 04.03.20.0274
14.4	Released at January 11th 2023	Firmware 04.03.20.04	DatafoxStudioIV 04.03.20.03	DFCom 04.03.20.03 75
14.5	Released at January 18th 2023	Firmware 04.03.20.05	DatafoxStudioIV 04.03.20.03	DFCom 04.03.20.0375
14.6	Released at January 25 th 2023	Firmware 04.03.20.06	DatafoxStudioIV 04.03.20.03	DFCom 04.03.20.03 76
14.7	Released at March 1st 2023	Firmware 04.03.20.08	DatafoxStudioIV 04.03.21.03	DFCom 04.03.21.03 76
14.8	Released at March 29th 2023	Firmware 04.03.20.09	DatafoxStudioIV 04.03.21.03	DFCom 04.03.21.0377
14.9	Released at April 21st 2023	Firmware 04.03.20.10	DatafoxStudioIV 04.03.21.05	DFCom 04.03.21.05 77
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1 Compatibility of Hardware, Software and Firmware Versions

1.1 Scheme for enumerating MasterIV versions

The configuration tool DatafoxStudioIV uses a version scheme 04.yy.zz. The system is put to use starting with the 4th software generation.

1.2 Structure of the version number

The version number is structured into the following sections:

Product name	XX.	YY.	ZZ.	Build
	Software generation	Compatibility	Release number	Patch Level
	release number			



Note:

The quadruple of software generation, compatibility, release number and patch level are identifying a unique release version number. The build- and version number may be different between Firmware, DatafoxStudioIV and DFCom – compatibility is still guaranteed. Example: Firmware 04.03.00.23 is compatible to DatafoxStudioIV 04.03.01.03 and DFCom 04.03.01.03.

- The SOFTWARE GENERATION identifies all versions of software for a specific hardware series.
- The COMPATIBILITY collects versions with equivalent features in functionality. In case of very basic hardware or software changes, this number is increased, e.g. when enhancing access control from version 1 to version 2 or when changing the hardware from V2 to V3 devices.
- The RELEASE NUMBER separates planned functionality upgrades. A feature enhancement creates a new version number, e.g. adding http Level 1 functionality changed 04.03.09.xx to 04.03.10.xx.
- A change in patch level represents an update version corresponding to a bug fix release.

Attention:



When using DatafoxStudioIV, the release number of the Studio and the DFCom must match. Using DatafoxStudioIV 04.03.01.xx requires using DFCom 04.03.01.xx as well, DatafoxStudioIV 04.03.02.xx would require DFCom 04.03.02.xx.

DatafoxStudioIV and the DFCom can be used to handle firmware version up to their release number. This means, if you are using firmware releases 04.03.01.xx, 04.03.02.xx and 04.03.03.xx you will need at least DatafoxStudioIV and DFCom 04.03.03.xx



1.3 Compatibility between DatafoxStudioIV – DFCom – Firmware

DatafoxStudioIV	DFCom	Firmware	
04.03.00	04.03.00	04.03.00	
04.03.01	04.03.01	04.03.00 - 04.03.01	
04.03.02	04.03.02	04.03.00 - 04.03.02	
04.03.03	04.03.03	04.03.00 - 04.03.03	

Please interpret the table above in the following way:

If you are using DatafoxStudioIV version 04.03.02.01 the DFCom version has to be 04.03.02.01. You may process Firmware releases 04.03.00.xx up to 04.03.02.xx.

1.4 Compatibility of Hardware versions

This section shows, which firmware versions may be used with hardware versions. The hardware version is included from software release 04.01.xx into the devices and may be accessed using the BIOS dialog from DatafoxStudioIV.

Hardwareversion	Flash Memory	Controller	Firmware version
1.1	ATMEL (AT45DB161)	ATmega128	04.00
1.2 – 1.4	ATMEL (AT45DB161)	ATmega128	04.00 - 04.01
2.0 - 2.1	ATMEL (AT45DB321C/D)	ATmega128	04.01
3.0	ATMEL (AT45DB642D)	ATmega2560	04.02
4.0		ARM Cortex M4	04.03



Attention:

For Hardware revision V4, you may only use firmware versions 04.03. Hardware revision 3.x may not use firmware release 04.03.

Note:



- If an enhancement/change affects both firmware and software, it is categorizes as a firmware topic.
- The manual is amended for enhancements and functional changes. Please note, that these changes will be described in a software amendment as well.
- With hardware revision (also called EVO-Line devices), the devices come with a vast set of functions and combinations thereof. Thus not every combination can be tested during the release test especially not all combinations used by our customers in setups, we do not know. Therefore it is required that every setup is tested prior using it with an updated version of the firmware. Downward compatibility cannot be guaranteed fully. Please inform us should you encounter any problems linked to a firmware update.



2 Release Version 04.02.05

2.1 Released at January 29th 2018 Firmware 04.02.05.58 DatafoxStudioIV 04.03.10.12 DFCom 04.03.10.12

Category	Aspect	Туре	.xx	Description of enhancement, change or bug fix
Bugfix	TimeboyIV	FW	.58	When showing a message on the Timeboy's display, the last line of the message was not displayed. This error was corrected.
Bugfix	TimeboyIV	FW	.58	Correction concerning the cyclic communication during power saving mode. Diagnosing a powered Timeboy did not work properly before this change.
Bugfix	http Proxy Server	Studio	.11	The system variables assigned to the http proxy configuration was not read correctly from the INI file. This has been corrected now.
Bugfix	Setup Editor	Studio	.10	 Copying and moving entries within the setup tree to an empty chain correct. Here, a crash could occur. When renaming entries within the setup tree, the DatafoxStudioIV could experience a crash under certain conditions. This has been corrected.
Bugfix	Communication	DFCom	.12	When setting a session timeout of 0 using DFCSetCommunicationPasswort, this lead to renegotiation of the communication channel every second. This behaviour has been corrected now.
Bugfix	Logging	DFCom	.12	Extracting data records from a DFCom log file now takes the Thread-ID and the Process-ID into account.
Enhancement	Bluetooth for Timeboy	FW	.58	Bluetooth is now available for all Timeboys that do not include a Mifare transponder reader.

2.2 Released at September 10th 2018 Firmware 04.02.05.59 DatafoxStudioIV 04.03.11.11 DFCom 04.03.11.11

Category	Aspect	Туре	.xx	Description of enhancement, change or bug fix
Bugfix	TimeboyIV	FW		Some device showed the behaviour of delayed display switch-on upon the user switch on event. This behaviour could be observed at devices having main communication set to cell phone network and having been pulled from their docking station recently. This behaviour has been corrected.
Enhancement	TimeboyIV	FW		The sys log entry when operating on cell phone network has been enriched by the reception signal strength (which is the current signal strength) and the minimally required signal strength (for a connection to the provider's network).

2.3 Released at November 11th 2018 Firmware 04.02.05.60 DatafoxStudioIV 04.03.11.11 DFCom 04.03.11.11

Category	Aspect	Туре	.XX.	Description of enhancement, change or bug fix
Enhancement	TimeboyIV	FW		Using the script function df() now allows to extract a substring from global variables. This is done by adding position information in brackets. ATTENTION: This function is NOT available for TimeboyIV devices equipped with a Mifare Desfire transponder reader.
Enhancement	TimeboyIV	FW		Using a script function, the value of a global variable my now be converted from hexadecimal representation to binary representation and vice versa (HexToBin() and BinToHex() ATTENTION: This function is NOT available for TimeboyIV devices equipped with a Mifare Desfire transponder reader.



2.4 Released at June 18th 2020 Firmware 04.02.05.62 DatafoxStudioIV 04.03.15.01 DFCom 04.03.15.01

Category	Category Aspect Type .XX		.xx	Description of enhancement, change or bug fix
Enhancement	TimeboyIV	FW	.62	Using Hitag1 transponders, the transponder's ID may now be retrieved as so-called Feig-ID.
Optimization	TimeboyIV	FW	.62	If errors with the sim card occur, the modem reboots much faster.

3 Release Version 04.03.09

3.1 Released at March 16th 2018 Firmware 04.03.09.18 DatafoxStudioIV 04.03.10.12 DFCom 04.03.10.12

Category	Aspect	Type	I.XX	Description of enhancement, change or bug fix
3. ,		71.		



	1			devices			
Bugfix	2D Barcode Reader	FW	.17	The 2D barcode reader sent sporadically 0xFC characters before the transmission of the barcode read. Such a character is being filtered now, additionally the timing when triggering the barcode reader has been optimized, so that the reader has more time for startup.			
Bugfix	EVO 3.5	FW	.17	Corrections applied to the display timing to prevent sporadic "white screen" effect.			
Bugfix	EVO ZK Leser Plus	FW	.17	The EVO ZK Leser Plus could not be set to use bus address 0. This is possible now.			
Bugfix	Flash Reorder	FW	.17	Devices with Atmel Flash (shipped roughly until March 2017) sporadically experienced startup problems after formatting the flash memory. In these conditions the device showed cyclic restarts and has been corrected with the current firmware release.			
Bugfix	Ю	FW	.17	Computing the signal processing configuration parameter (counter divider, timeout, cycle,) for inputs greater than 16 yielded wrong parameters. The firmware now ensures, that these parameters are only taken directly from the setup settings (and not from the system variable section of the flash memory)			
Bugfix	Sending SMS	FW	.17	Sending short text messages using a cell phone modem did not work for firmware release 04.03.09.xx for xx < 17 sometimes. The firmware was corrected to ensure that a short text message is being sent properly.			
Bugfix	ZK (Access Control)	FW	.17	Changing a door's mode from blocked access to standard access using a PHG RFID reader lead to this reader not being available for access control until next restart of the master. This behaviour has been corrected in this release.			
Bugfix	ZK (Access Control)	FW	.17	In rare conditions, the field function "access control with GV" using an external DataOnCard RFID reader lead to system restart. To trigger this behaviour, the master may not have an AC-bus configured and the DataOnCard RFID reader had to be the only reader in the RD485 bus. This setup handled correctly now.			
Bugfix	http Proxy Server	Studio	.11	The system variables assigned to the http proxy configuration was not read correctly from the INI file. This has been corrected now.			
Bugfix	Setup Editor	Studio	.10	 Copying and moving entries within the setup tree to an empty chain correct. Here, a crash could occur. When renaming entries within the setup tree, the DatafoxStudioIV could experience a crash under certain conditions. This has been corrected 			
Bugfix	Communication	DFCom	.12	When setting a session timeout of 0 using DFCSetCommunicationPasswort, this lead to renegotiation of the communication channel every second. This behaviour has been corrected now.			
Bugfix	Logging	DFCom	.12	Extracting data records from a DFCom log file now takes the Thread-ID and the Process-ID into account.			
Enhancement	AE-MasterIV	FW	.17	Analogue input values have not been displayed on then info page of the AE-Master. This has been corrected.			
Enhancement	Transponder	FW	.17	Support for the RFID reader PHG Relino B has been added. The Relino B does not provide DataOnCard-functionality currently.			
PCN 2017P1	Hardware	FW	.18	Support for the updated LED Backlight module (used for Transponder, Logo, etc.) and new touch screen controller for the EVO 4.3 has been added according PCN Email from September 20 th 2017.			
Bugfix	Fingerprint	Studio	.11	 The dialog for deleting fingerprint template remotely on the device did wrong error handling. This dialog now correctly displays the cause, if removing the fingerprint templates failed. Checking for fingerprints in the sensor was done wrongly during restore of a fingerprint template backup. This led to fingerprint template not b deleted in previous versions during restore. The field function "Fingerprint: Finger Administration" used the global variable selected on the last page of the editor. This has been changed global variable on the first page of the editor. 			



3.2 Released at March 22nd 2019

Firmware 04.03.09.20

DatafoxStudioIV 04.03.12.05

DFCom 04.03.12.05

Category	Aspect	Туре	.XX	Description of enhancement, change or bug fix
Bugfix	Flash Driver	FW	.09.20	Wear-Levelling for the flash memory enhanced, so that flash lifetime does not deteriorate when the device is being used in http/https mode.
Enhancement	Hardware-V4 Devices			Support for new hardware components added according to PCN 2018-P-02 excluding EVO 3.5 Universal. Please see https://www.datafox.de/dfrc/index.php?dir=pcn.2018-2&sort=Tℴ=D .

4 Release Version 04.03.10

4.1 Released at March 16th 2018 Firmware 04.03.10.10 DatafoxStudioIV 04.03.10.12 DFCom 04.03.10.12

Category	Aspect Type	e .XX	Description of enhancement, change or bug fix
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				devices			
Bugfix	2D Barcode Reader	FW	.07	The 2D barcode reader sent sporadically 0xFC characters before the transmission of the barcode read. Such a character is being filtered now, additionally the timing when triggering the barcode reader has been optimized, so that the reader has more time for startup.			
Bugfix	Active Mode Failover	FW	.09	With activated NOTIFY option active mode failover did not work properly. The device did no not reconnect to the secondary server after a fallback, provided the primary server was not reachable. This behaviour has been corrected.			
Bugfix	EVO ZK Leser Plus	FW	.07	 The EVO ZK Leser Plus could not be set to use bus address 0. This is possible now. RFID tags could not be read when a USB cable was attached to the EVO ZK Leser Plus. 			
Bugfix	Fingerprint optical sensor	FW	.07	 Backup and restore of fingerprint templates returned an unknown error in some cases. The error reporting has been corrected. Enrolling a user with PID 0 lead to all fingerprint templates on the module being erase. Using PID 0 during enrolment is prevented now. 			
Bugfix	http	FW	.08	With version 04.03.10.07 datasets were not reported correctly using http protocol, provided there were datasets present on the device during system startup. This behaviour has been corrected with 04.03.10.08.			
Bugfix	http / Service Mode	FW	.09	Provided an active mode server is configured, this server was not used as a maintenance server in http mode if the setup is erased on the device. This behaviour has been corrected.			
Bugfix	Receiving SMS	FW	.07	Short text messages triggering the service mode were not interpreted correctly if the line end style was different than expected. This was corrected.			
Bugfix	USB / LAN	FW	.08	With attached USB cable and detached LAN cable staring up USB communication took up to 20 seconds after rebooting the device. This time lag was reduced, so that a device reports quicker to a present USB connection.			
Bugfix	ZK (Access Control)	FW	.07	Changing a door's mode from blocked access to standard access using a PHG RFID reader lead to this reader not being available for access contruntil next restart of the master. This behaviour has been corrected in this release.			
Bugfix	Fingerprint	Studio	.11	 The dialog for deleting fingerprint template remotely on the device did wrong error handling. This dialog now correctly displays the cause, if removing the fingerprint templates failed. Checking for fingerprints in the sensor was done wrongly during restore of a fingerprint template backup. This led to fingerprint template not b deleted in previous versions during restore. The field function "Fingerprint: Finger Administration" used the global variable selected on the last page of the editor. This has been changed global variable on the first page of the editor. 			
Bugfix	http Proxy Server	Studio	.11	The system variables assigned to the http proxy configuration was not read correctly from the INI file. This has been corrected now.			
Bugfix	Setup Editor	Studio	.10	 Copying and moving entries within the setup tree to an empty chain correct. Here, a crash could occur. When renaming entries within the setup tree, the DatafoxStudioIV could experience a crash under certain conditions. This has been corrected. 			
Bugfix	Communication	DFCom	.12	When setting a session timeout of 0 using DFCSetCommunicationPasswort, this lead to renegotiation of the communication channel every second. This behaviour has been corrected now.			
Bugfix	Logging	DFCom	.12	Extracting data records from a DFCom log file now takes the Thread-ID and the Process-ID into account.			
Enhancement	Fahrzeugdatenlogger (Vehicle Data Logger)		.07	Correction concerning the cyclic communication during power saving mode. Diagnosing a powered Timeboy did not work properly before this change.			
Enhancement	GPS-Navi-Mouse	FW	.07	Support for GPS Navi Mouses using a LEA 7 module has been added.			
Enhancement	Logging	FW	.09	 Logging of time slices for executing an http transaction (log switch HTTP) has been added. If enabled, the starting timestamp (OPEN, ms since system startup), the time used for establishing the connection (ESTABLISHED, ms since OPEN), time used for sending the query (SEND, ms since OPEN), time when receiving the first byte of the answer (RECV, ms since OPEN) and time when closing the connection (CLOSE, ms since OPEN is logged along with the number of transmitted data PACKETS. Logging of connection parameters for http transaction (log switch TCP/IP) has been added. Here, Source-IP-Address, Source-Port, Destination-Address and Destination-Port are recorded. 			
				- Log texts up to 2000 characters are split into multiple lines in the log now.			



4.2 Released at April 13th 2018

Firmware 04.03.10.12

DatafoxStudioIV 04.03.10.12

DFCom 04.03.10.12

Category	Aspect	Туре	.xx.	Description of enhancement, change or bug fix
Bugfix	BIOS	FW	.12	 Displaying the IP-Adresse of the Active-Mode Server corrected. Instead of the primary server's IP address, the address of the secondary server was display in LAN mode. Fixes configuring the LAN parameters in the BIOS: During device startup changing of a network setting resulted in a device restart. During normal operation, changing a network setting resulted in device restart if no LAN cable was connected.
Bugfix	Fingerprint line sensor	FW	.11	Disrupting influence on the line sensor caused by RFID readers operating at 13,56 MHz (Mifare or NFC) supressed.

4.3 Released at May 9th 2018

Firmware 04.03.10.13

DatafoxStudioIV 04.03.10.12

DFCom 04.03.10.12

Category	Aspect	Туре	.xx	Description of enhancement, change or bug fix	
Bugfix	Fingerprint line sensor, Biokey	FW		In versions 04.03.10.xx, the setting of the parameters of the fingerprint line sensor by the setup file was only accepted after a restart of the device. Changes to the parameters during operation therefore had no effect. Modified parameters for the fingerprint sensor are now applied each time the setup file is loaded.	
Bugfix	EVO 4.3, Display	FW	.13	Due to pixel errors in the display of the Evo4.3, the control of the display has been further optimized.	
Enhancement	http	FW	.13	The http-accept string has been extended by "application/x-www-form-urlencoded", it is now completely: "Accept: application/x-www-form-urlencoded, text/html\r\n".	

4.4 Released at May 18th 2018

Firmware 04.03.10.14

DatafoxStudioIV 04.03.10.12

DFCom 04.03.10.12

Category	Aspect	Туре	.xx	Description of enhancement, change or bug fix
Bugfix	Fingerprint optical sensor	FW	.14	Devices using the Saturn Fingerprint sensor did not start correctly using firmware 04.03.10.13.
Enhancement	http	FW	.14	The host header now includes the server's port (see RFC2616 section 14.23)

4.5 Released at June 13th 2018

Firmware 04.03.10.15

DatafoxStudioIV 04.03.10.12

DFCom 04.03.10.12

	Category	Aspect	Туре	.xx	Description of enhancement, change or bug fix
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Bugfix	Digital inputs	FW	.15	The anti-beat threshold was roughly a factor five to large.	
Bugfix	EVO 4.3	FW	.15	Pressing a touch key repetitively (e.g. during scrolling a list) could lead to a wrong touch key being reported.	
Bugfix	EVO ZK Leser Plus	FW	.15	tering a PIN is now possible fluidly again. With previous version sometimes a key press was lost.	
Bugfix	WIFI	FW	.15	In active mode communication the other server configuration was used. This could lead to not establishing an active mode connection, e.g. if not alternate server was configured.	
Bugfix	Product/IP protection	FW	.15	If the product / IP proctection is active when a device tries to establish a connection in active mode, this is possible only when the DFCom channel was preconfigured with the password. Now the connection can be established – it is sufficient if the password is assigned after establishing the connection before the first data packet is exchanged.	
Enhancement	ZK-Knoten	FW	.15	PCB Version 1.3 is now supported. A downgrade to earlier firmware releases that 04.03.10.15 is not possible	
Enhancement	Hardware	FW	.15	CB Version 4.7 is now supported. This PCB is used for devices EVO 4.3, AE-Master, PZE-Master and FlexMaster. A downgrade to earlier firmware eleases that 04.03.10.15 is not possible.	

4.6 Released at August 10th 2018

Firmware 04.03.10.17

DatafoxStudioIV 04.03.10.12

DFCom 04.03.10.12

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Category	Aspect	Type	.xx	Description of enhancement, change or bug fix
3		71.		



				devices	
Bugfix	Communication	FW	.17	A query for devices in the access control bus resulted in an error, if devices were connected that had not been configured as readers with the access control lists. Now the status is being reported correctly.	
Bugfix	Docking V2	FW	.17	If the docking station V2 is operated in "V1 compatibility mode", main communication RS232 or RS485 was not possible. This is now possible with 04.03.10.17.	
Bugfix	WIFI	FW	.17	A safe-guard function for restarting the WIFI communication could be triggered by day light saving and clock adjustments over the network. Now, a monolithic clock is used, so that adjustments to the clock will not trigger the safe-guard any more, which could lead to tearing down the WIFI communication temporarily.	
Bugfix	EVO ZK-Leser Plus	FW	.17	The warning message shown when the transponder configuration mismatches the built-in transponder reader was truncated and only partly readable. The text has now been adjusted for the display.	
Bugfix	EVO ZK-Leser Plus	FW	.17	If the BIOS was entered while a warning message was being displayed, this message was not displayed after leaving the BIOS. The device thus suggested to be operative, although the warning's reason was not seen to. Now, the warning message is reissued, should to condition still be presupen leaving the BIOS menu.	
Bugfix	Fingerprint optical sensor	FW	.17	Sensors running the new firmware "DG_DF_06" had problems when providing data for the fingerprint template backup operation. The issue is now corrected.	
Bugfix	Systemvariables	FW	.17	Changes to system variables are now logged into the system logfile.	
Enhancement	LAN	FW	.17	Upon transfer of the network configuration settings, the settings are now applied without a reboot. Previously, the device had to be restarted in order to apply the changes to the network configuration.	
Bugfix	WIFI	FW	.17	The DNS query buffer could be overrun when querying long hostnames, which lead to a reboot of the device. The buffer has now been adjusted to match the hostname's length correctly.	
Bugfix	IO-Modul	FW	.17	The communication with Datafox IO modules was possible only for devices, which had internal digital inputs. With this fix, no internal IOs are required to operate the IO module.	
Bugfix	Touch	FW	.17	While collecting data for the touch screen statistics, the presence of the touch screen configuration was not checked. This is now checked, so that a missing touch screen configuration will not lead to a device reboot.	
Bugfix	LAN	FW	.17	If the LAN cable was unplugged during a data transaction, the connection was closed after the TCP timeout only. With release 04.03.10.17, pending connections are terminated immediately uptime removing the LAN cable.	

4.7 Released at August 28th 2018 Firm

Firmware 04.03.10.18

DatafoxStudioIV 04.03.10.12

DFCom 04.03.10.12

Category	Aspect	Туре	.xx	Description of enhancement, change or bug fix
Bugfix	BIOS	FW	.18	When leaving the BIOS menu the device restarts, provided the communication method was set to http / WIFI and these settings have not been changed.
Bugfix	Fingerprint line sensor	FW		When verifying against fingerprint templates stored on an RFID transponder, the verification did not identify the first finger if two finger templates were stored on the transponder. This behaviour has now been corrected.
Bugfix	Show a message at device	FW		A device with activated screen blanker did not activate the display to show a message received through SendMessage. Now the screen is activated in order to display the message.



4.8 Released at October 18th 2018

Firmware 04.03.10.19

DatafoxStudioIV 04.03.10.12

DFCom 04.03.10.12

Category	Aspect	Туре	.xx	Description of enhancement, change or bug fix
Enhancement	EVO IPC Startup Behaviour	FW	.19	The start-up behaviour of the IPC is now configurable by a system variable. To change the start-up behaviour, please use the BIOS dialog of a DatafoxStudioIV 04.03.12.02 or newer. This version is available for download at https://www.datafox.de/dfrc/index.php?dir=studio&sort=Tℴ=D .
Enhancement	Logging Cell phone network	FW	.19	When activated, the log switch "communication / mobile phone parameters" adds the state changed of the cell phone modem to the system log.
Enhancement	Logging Access Control	FW	.19	When activated, the log switch "Application / Access control" adds state changed of the access control module to the system log.
Bugfix	EVO 4.3 / Display	FW	.19	We have received isolated observations of an EVO 4.3 showing orange areas on the screen, typically when activating a touch key. These case have been corrected by adjusting the display timing.
Bugfix	EVO Agera (former EVO ZK Leser Plus)	FW	.19	An EVO Agera access control RFID reader reading a sector from a Mifare RFID transponder returned the transponder's serial number. This behaviour has been corrected.
Bugfix	Fingerprint line sensor	FW	.19	The fingerprint implementation could leak memory, provided the sensor did store finger templates of a different size than configured in the setup. This leak has been fixed. Please remind the warning issued by the DatafoxStudioIV when changing the fingerprint template format!
Bugfix	EVO IPC	FW	.19	Sending values of global variables from the embedded processor to the PC component resulted in no data being sent. This has been corrected.
Bugfix	LAN	FW	.19	An error in the network stack could lead to a memory leak – provided DHCP was activated. This leak occurred when either unplugging the network cable or plugging the USB cable. Especially unstable network connection thus lead to loosing small portions of memory repetitively, resulting in display errors or a rebooting device. This memory leak has been corrected.
Bugfix	Cell phone network	FW	.19	The timing for accessing the SIM card has been adjusted, since we observed, that there is an increasing amount of "slow" SIM cards appearing in the market. These card need more time for starting the authentication application than specified.
Bugfix	Access control	FW	.19	 The timing for accessing access control (AC) readers on the AC bus has been adjusted. This change resulted from an increasing amount of "autobaud" readers appearing in the field, that try to guess the busses baud rate rather than having switches to set it. The observation was readers creating an AC state 18 when guessing the wrong baud rate and being reconfigured. The timing for cyclically accessing the AC readers in the bus has been adjusted. The timing problem was the root cause for readers disconnecting from the AC bus and blinked for roughly a minute after that. This problem was observed mainly when Legic RFID readers were attached to the bus.

4.9 Released at November 30th 2018 Firmware 04.03.10.20 DatafoxStudioIV 04.03.12.05 DFCom 04.03.12.05 [PCN2018P2]

Category	.XX.XX	Aspect	Oescription of enhancement, change or bug fix
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				devices
Change	Device names	Studio	.12.00	The access control devices have been rebranded as the KYO family.
Change	Initialisation	DFCom	.12.05	The order in which the DFCom.ini is located by the DFCom has been changed. Please see DFCom documentation for details.
Change	Windows Support	Studio	.12.02	Support for Windows XP has been dropped.
Enhancement	Hardware-V4 Devices	FW Studio	.10.20 .12.05	Support for new hardware components added according to PCN 2018-P-02 . Please see https://www.datafox.de/dfrc/index.php?dir=pcn.2018-2&sort=Tℴ=D .
Enhancement	EVO 4.3	FW	.10.20	A vertical offset for the touch screen can now be configured. This offset applies to the keyboard area of the touchscreen only. To change this offset, please use the BIOS dialog at User Settings -> Touch -> Layout -> Offset. With this option a translation resulting from operating the device at an angle different than 90° can be compensated.
Enhancement	НТТР	Studio	.12.05	The maximum length of the HTTP send string has been increased from 39 to 63 characters.
Enhancement	IPC Fingerprint	FW Studio	.10.20 .12.02	Support for the optical fingerprint sensor has been added. Configuration and field functions for using the fingerprint sensor has been added for ICPs.
Enhancement	IPC Startup Behaviour	FW Studio	.10.20 .12.02	Power-On behaviour of the IPC may now be configured.
Enhancement	2D barcode scanner	FW	.10.20	Added support for replacement type EM3296 of the 2D barcode scanner.
Bugfix	KYO Oneloc (former ZK Knoten)	FW	.10.20	When being restarted the KYO Oneloc could interfere with the bus communication during start up. This behaviour has been corrected.
Bugfix	LAN	FW	.10.20	The LAN stack is being restarted when no communication was observed for a substantial time. This mechanism did observe ARP, UDP and TCP/IPv4 traffic but did not take ICMP traffic into account. ICMP traffic was added now and will thus prevent the automatic LAN restart.
Bugfix	RFID	FW	.10.20	There was a timeout included into the restart of the transponder module. This restart could block the user's flow of operation, so that the device reacted slowly. This timeout has been corrected.
Bugfix	Setup	Studio	.12.04	The Datafox Studio allowed to branch to 13 of the 15 possible input chains only. This has now been corrected.

4.10 Released at January 07th 2019 Firmware 04.03.10.21 DatafoxStudioIV 04.03.12.05 DFCom 04.03.12.05

Category	Aspect	Туре	.xx.xx	Description of enhancement, change or bug fix
Bugfix	Barcode scanner	FW	.10.21	When integrating the EM3296 barcode scanner in 04.03.10.20, the support for 1D barcode scanners was broken. This has been corrected.
Bugfix	http	FW	.10.21	 The computation of checksums used in http API Level 0 had a defect that could lead to computation of wrong checksums. This bas neem corrected. Setting up a service mode connection with activated communication encryption did not work – this problem has been corrected.



4.11 Released at March 22nd 2019

Firmware 04.03.10.22

DatafoxStudioIV 04.03.12.ß5

DFCom 04.03.12.05

Category	Aspect	Туре	.XX	Description of enhancement, change or bug fix
Bugfix	Flash Driver	FW	.10.22	Wear-Levelling for the flash memory enhanced, so that flash lifetime does not deteriorate when the device is being used in http/https mode.

5 Release Version 04.03.11

5.1 Released at April 27th 2018

Firmware 04.03.11.01

DatafoxStudioIV 04.03.11.02

DFCom 04.03.11.02

Туре	Aspect	Comp.	.xx.	Description of Change or Bugfix
Enhancement	Communication	FW	.01	TLS is now available for mobile communication using GRPS (LAN was available with 04.03.11.00, WIFI is still pending)
Bugfix	Communication	FW	.01	chunked-encoding in http/https communication is now processed correctly
Bugfix	Communication	FW	.01	Main communication using WIFI and RS485 is available again. This has been disabled with 04.03.11.00.

5.2 Released at July 3rd 2018

Firmware 04.03.11.02

DatafoxStudioIV 04.03.11.09

DFCom 04.03.11.09

Туре	Aspect	Comp.	.xx	Description of Change or Bugfix
Bugfix	Communication	FW	.02	Http-Request-Headers for HTTPS-Exchanges now contain "GET https://" instead of "GET http://".
Enhancement	Communication	FW	.02	HTTPS using WIFI is now available.
Enhancement	Communication	FW	.02	The http communication mode ("com.http") allows now the follow settings: 0=off, 1=http und 2=https. This mode may now be changed directly using the devices' BIOS.
Enhancement	Communication	FW	.02	To support reverse proxies using SNI, the system variables "com.http_mode[0:1].tls.sni_mode" have been added.
Enhancement	Communication	FW	.02	The system variable "http.flags" has been added. The decimal number stored here is interpreted bitwise: - Bit 0: Suppress sending the Port along with the HOST-Header. If this bit is not set, the server's destination port is sent. - Bit 1: Actively close a http/1.1 session for a requested service mode connection.
Enhancement	Communication	FW		Support for sending POST requests alternatively for GET requests has been added. This can be activated by starting the "com.http_mode[0:1].send" system variable with POST as prefix instead of GET.
Enhancement	Communication	FW	.02	Experimental support for validating a certificated validity-period added.
Enhancement	WIFI	FW	.02	The WPA-PSK2 can now be supplied directly in the BIOS using the touch screen virtual keyboard (requires a touchscreen device with HardwareIV)



5.3 Released at August 14th 2018

Firmware 04.03.11.03

DatafoxStudioIV 04.03.11.11

DFCom 04.03.11.11

Туре	Aspect	Comp.	.xx.	Description of Change or Bugfix
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Bugfix	BIOS	FW	.03	The server port is now correctly displayed in the user section of the BIOS menu.
Bugfix	EVO 4.3 / AE Master	FW	.03	A message sent though SendMessage (or http) was shown in the wrong layout. This led to not all text lines being readable by the user.
Bugfix	Fingerprint line sensor	FW	.03	Verification with two fingers stored on an RFID tag now works correctly. Matching of the first finger templated yielded an error internally, which has been corrected.
Bugfix	Optical fingerprint sensor	FW	.03	Support for new firmware DG_DF_06 on the optical fingerprint sensor has been added. Additionally the fingerprint module firmware release DG_DF_04 was obsolete for the optical fingerprint sensor, since creating a backup of the fingerprint template data would not work reliably on sensors running this firmware. The firmware will generate a warning message if you have such a sensor in your devices at startup time and prompt you for updating the firmware on the sensor module.
Bugfix	Send-Message Delay	FW	.03	Sending a message to device (either by SendMessage (DFCom) or df_message (http)) resulted in showing the message for a duration longer than specified. It could happen, that the message was removed from the screen only by a user interaction. This behaviour has been corrected.
Bugfix	WIFI	FW	.03	Checks for buffer overruns during list data download in http mode have been added. These could occur during periods with high system load and lead to incorrect list data being available at the device – typically the list then was rejected. Should a buffer overrun happen now, the WIFI receive bandwidth is reduced for list data transfer. The WIFI processing task then is restarted and an entry (WIFI: RECEIVE BUFFER OVERFLOW) is added to the system log.
Change	Display	FW	.03	The display did not light up again on an incoming SendMessage command, should the energy settings have activated the screen blanker before.
Enhancement	BIOS (WIFI)	FW	.03	The BIOS menu now allows entering the PSK for a WPA2 connection – a device with a touch screen is required for this. Upon successfully establishing a connection to the access point, the WIFI configuration on the device may be updated according to the connection's parameters.
Enhancement	Hardware support	FW	.03	Support for EVO 3.5 Universal has been added.
				According to PCN 2018-01 support for ZK Knoten V1.3 and Kombi-PCB V4.7 (affecting the devices PZE Master, AE Master and EVO 4.3) was added.
Enhancement	List processing	FW	.03	A processing error of list data is now written to the device's system log as "LINE <line-number, content="" read="">" always</line-number,>
Enhancement	Passive mode	FW	.03	In passive mode, a service mode connection can now be established as it was possible while GRPS (Service-SMS) or http (df_service) communication only in previous firmware versions. For this, you may set the system variable com.passive_mode.service to "1[, <host>[,<port>]]". Should you omit host and/or Port in this process, the settings associated to the primary active mode server are being used.</port></host>
Enhancement	System variables	FW	.03	Changes to system variables are now recording and added to the device's system log.
Enhancement	Updates for WIFI module and optical fingerprint sensor module	FW	.03	Datafox devices contain modules, which typically run a special firmware version for themselves. For the WIFI module (RS9110) and the optical fingerprint sensor this firmware can now be exchanged. Datafox Studio provides the menu entry "Configuration -> Update for module (*.iff)" for this purpose – which requires at least firmware version 04.03.11.03. Should you require to use a specific firmware release on the device but want to change a module's firmware, you may downgrade the device firmware after having programmed the modules using the firmware 04.03.11.03. The module firmware is not affected by the downgrade. However, please keep in mind that we cannot guarantee that every old device firmware release works properly with every combination of module firmware. A change of (parts of) software on the device always requires your test of the system.
				The following firmware module updates are available: - Optical fingerprint sensor - DG_DF_06 (this firmware replaces DG_DF_04 and should be used instead of the older firmware) - WIFI Module RS9110 - Firmware 4.5.5 (supports 802.11 b, g and 802.11n in single stream mode) - Firmware 4.5.6 (supports 802.11 b, g – 802.11n is not supported by this firmware release)
Enhancement	HTTPS	FW	.03	Experimental support for client certificates. You may use client certificates with firmware version 04.03.11.03. To enable this function, you have to upload the client's certificate as "client_cert" and the corresponding private key as "client_key.cert" into the device. The device's system logfile may include a new entry "SECURE, NO CLIENT-CERTIFICATE AVAILABLE:", that will inform you on the client certificate being available or not:
DP = only for De	elopment Partner			- If the entry is present in your devices being available of not If the entry is not present, the device uses the client certificate. Note: We will rename the "client_key.cert" to "client.key" with the final, non-experimental version.



5.4 Released at August 30th 2018 Firmware 04.03.11.04 DatafoxStudioIV 04.03.11.11 DFCom 04.03.11.11

Туре	Aspect	Comp.	.xx	Description of Change or Bugfix
Bugfix	http Service Mode	FW		Initiating a service mode connection during communication using the cell phone network and http only work, if the device's main communication has been changed temporarily to USB or active mode.
Bugfix	http / Cell phone network	FW		If the cell network modem was actively sending a dataset using http and being reset simultaneously, there have been spurious constellation when the modem did not return to service properly afterwards. A workaround for this behaviour has been added.

5.5 Released at February 8th 2018 Firmware 04.03.11.07 DatafoxStudioIV 04.03.12.05 DFCom 04.03.12.06 [PCN2018P2]

Туре	Aspect	Comp.	.XX.XX	Description of Change or Bugfix
Bugfix	http	FW	.11.07	 The computation of checksums used in http API Level 0 had a defect that could lead to wrong checksums. This has been corrected. Setting up a service mode connection with activated communication encryption did not work – this problem has been corrected.
Bugfix	List data handling	FW	.11.07	Adding lines to an empty, sorted list caused the device to restart, or an inconsistent list, so that list lines were 'lost'. This has been corrected.
Bugfix	KYO Oneloc	FW		Using the KYO Oneloc as a door module could lead to blocking the access control bus temporarily during a restart. This behaviour has now been corrected.
Bugfix	EVO ZK Leser Plus (EVO Agera) / Legic	FW		If the EVO Agera was equipped with a Legic RFID reader, only the transponder's serial number could be read. Applying the configuration sent for reading and writing different transponder sections has been corrected now.
Bugfix	EVO 4.3 / Display	FW	.11.07	The headline of a SendMessage() command was displayed twice. This behaviour has been corrected, so that the headline is only show once.
Bugfix	LAN	FW	.11.07	The LAN stack is being restarted when no communication was observed for a substantial time. This mechanism did observe ARP, UDP and TCP/IPv4 traffic but did not take ICMP traffic into account. ICMP traffic was added now and will thus prevent the automatic LAN restart.
Bugfix	RFID	FW		There was a timeout included into the restart of the transponder module. This restart could block the user's flow of operation, so that the device reacted slowly. This timeout has been corrected.
Enhancement	Barcode scanner	FW	.11.07	Integration of new 2D barcode scanner module EM3296
Enhancement	IPC Startup Behaviour	FW	.11.07	Power-On behaviour of the IPC may now be configured.
Enhancement	IPC Fingerprint	FW		The IPCs may now be equipped with an optical fingerprint sensor. Since Datafox is currently not providing a software for enrolling fingers directly on the IPC, the template have to be created externally and then be transferred to the fingerprint sensor through the embedded device. This can be done using the DatafoxStudioIV or the communication DFCom.
Enhancement	Hardware-V4 Devices			Support for new hardware components added according to PCN 2018-P-02. Please see https://www.datafox.de/dfrc/index.php?dir=pcn.2018-2&sort=Tℴ=D .



5.6 Released at March 22nd 2019

Firmware 04.03.11.08

DatafoxStudioIV 04.03.12.05

DFCom 04.03.12.05

Category	Aspect	Туре	.xx.	Description of enhancement, change or bug fix
Bugfix	Flash Driver	FW	.11.08	Wear-Levelling for the flash memory enhanced, so that flash lifetime does not deteriorate when the device is being used in http/https mode.

5.7 Released at May 20th 2019

Firmware 04.03.11.09

DatafoxStudioIV 04.03.12.09

DFCom 04.03.12.09

Category	Aspect	Туре	.xx	Description of enhancement, change or bug fix
Bugfix	Access Control / Mifare DESFire	FW	.11.09	Configuring transponder reader for using a public key to access a DESFire RFID transponder did not work correctly. You may access data from public applications correctly now.
Bugfix	USB Host	FW	.11.09	Reading data from some USB disc in USB host mode did not work. The implementation was enhanced accordingly.
Bugfix	IPC / Buzzer	FW	.11.09	Adjusting the buzzer volume did not work for IPC devices. This has been corrected.
Bugfix	IPC / UBS-HID	FW	.11.09	The # character was transmitted as a § character. This has been corrected.
Bugfix	Localisation	FW	.11.09	The text "Finger unbekannt" (used in the fingerprint submenu) can now be localized.
Bugfix	EVO 2.8 Pure / SendMessage	FW	.11.09	The 7th text line supplied by SendMessage to an EVO 2.8 Pure was not displayed correctly as skipped when scrolling through the message text.
Bugfix	EVO 4.3 / Access Control in the Main Menu	FW	.11.09	The information "Access granted" or "Access rejected" is now displayed again.
Bugfix	Transponder MifarePlus in combination with Access Control using the Main Menu	FW	.11.09	Using the option "Access Check in the Main Menu" or the field function "Make access check with GV" allowed accessing the serial number of a "MifarePlus (also Classic)" transponder only. Now segment data may be accessed as well.
Bugfix	Transponder / Hitag 1	FW	.11.09	When the transponder reader was inactive for a longer period of time, the RFID reader sporadically claims having detected an RFID tag with serial number "0". These sporadic "Ghostreads" are now being filtered.
Bugfix	KYO Oneloc	FW	.11.09	An additional relay fit to the expansion board may now be controlled.
Bugfix	Display devices with WIFI	FW	.11.09	Accessing the BIOS menu during boot using the Enter key resulted in a restart of the device. Access to the WIFI section has now been removed from the BIOS menu for the duration of the start process.
Enhancement	Optical fingerprint sensor	FW Studio	.11.09 .12.09	Support for storing fingerprint template data onto a Mifare Classic RFID transponder has been added. A 1k transponder can accommodate one fingerprint template, when storing two fingerprint templates a 4k transponder has to be used. Mifare Classic transponders may thus be used for verification with the line sensor as well as the optical sensor now.



5.8 Released at July 24th 2020

Firmware 04.03.11.14

DatafoxStudioIV 04.03.12.09

DFCom 04.03.12.09

Category	Aspect	Туре	.XX	Description of enhancement, change or bug fix
Enhancement	Dockingstation	FW		The Dockingstation performs scans for and reboots with its additional slots frequently. This should help to avoid internal problems in the additional slots, so that the Timeboys are available all of the time.

5.9 Released at July 27th 2022

Firmware 04.03.11.17

DatafoxStudioIV 04.03.12.09

DFCom 04.03.12.09

Category	Aspect	Туре	.xx.	Description of enhancement, change or bug fix
Optimization	Dockingstation	FW		Restarting the connected additional slots did not work optimally in some constellations, as the slots were not completely de-energised before the power supply was switched on again. This problem has now been solved.

5.10 Released at August 04th 2023

Firmware 04.03.11.19

Category	Aspect	Туре	.xx.	Description of enhancement, change or bug fix
Optimization	Dockingstation	FW		While transferring data to the Timeboy, pinging the Timeboy from the docking is suspended if the Timeboy was detected as being pulled by the charging circuit. Under certain circumstances this caused problems with the communication between docking station and Timeboy.
Optimization	Dockingstation	FW		When transferring the lists from the docking station to the Timeboy, there were sporadic transfer problems, which first led to an abort and then to a renewed transfer. This had the consequence that some lists took a very long time until they were transferred. By adding additional read commands, a faster transfer of the lists could be achieved.

6 Release Version 04.03.12

6.1 Released at June 27th 2019

Firmware 04.03.12.07

DatafoxStudioIV 04.03.12.11

DFCom 04.03.12.11

	Туре	Aspect	Comp.	.xx.xx	Description of Change or Bugfix
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				devices
Bugfix	Access Control / GIS	FW	.12.07	Communication with GIS RFID readers was broken with previous firmware version. This error has been corrected.
Bugfix	Wifi	FW	.12.06	Using server hostnames longer that 48 characters leads to a buffer overrun and a subsequent reboot. This problem has been corrected.
Bugfix	Data records	DFCom	.12.09	The functions for reading data records (DFCGetDatensatz, DFCReadRecord) did not handle the parameter on the input buffer length correctly. This could lead to a segmentation fault when providing a smaller buffer that required by the data record.
Enhancement	PHG RFID Readers	FW	.12.06	Support for new PHG Reader VOXIO-T-1570-Z-advant has been added. These RFID readers can be fit into a door frame.
Enhancement	KYO Cenloc	FW Studio	.12.06 .12.11	Support for our new access controller KYO Cenloc has been added.
Enhancement	Access Control	FW	.12.06	Assisted online/offline access control has been added.
Enhancement	Proximity Sensor / EVO 3.5 Pure	FW Studio	.12.06 .12.11	EVO 3.5 Pure devices shipped after June 24th 2019 are equipped with a proximity sensor unit. This sensor is supported by current firmware.
Enhancement	Camera / EVO 4.3	FW Studio	.12.06 .12.11	The EVO 4.3 can now use an integrated camera inside the device. This camera may be used to take sample images / snapshots of the device's operator while at the device. The images may be retrieved from the device using the Datafox Studio IV (or DFCom)
Enhancement	Signature / EVO 4.3	FW Studio	.12.07 .12.11	The EVO 4.3's touch screen can now be used to record the operator's signature. These signatures are stored as images by the device and may be transferred the same way as camera images can be retrieved.

Please consult the Datafox Companion Software Version 04.03.12 as well, which is available in English for the first time.

6.2 Released at July 15th 2019

Firmware 04.03.12.09

DatafoxStudioIV 04.03.12.12

DFCom 04.03.12.12

Туре	Aspect	Comp.	.xx.xx	Description of Change or Bugfix
Bugfix	Touch / EVO 4.3	FW	.12.09	A computation error lead to the touch sensor used since 08/2017 being not usable. This error has been corrected.

6.3 Released at August 9th 2019

Firmware 04.03.12.11

DatafoxStudioIV 04.03.12.12

DFCom 04.03.12.12

Type	Aspect	Comp.	.XX.XX	Description of Change or Bugfix
- 71	1			



				devices
Bugfix	WIFI	FW	.12.10	WIFI configurations can be deleted again in the BIOS menu
Bugfix	WIFI	FW	.12.10	If no valid and at least one invalid configuration was stored on the device, a new connection to a previously selected network could not be created in the Bios menu.
Bugfix	WIFI	FW	.12.10	Update of the WIFI module via IFF file is possible again
Bugfix	Access Control	FW	.12.10	The command "read status messages from access control" shows readers with status 4 again.
Bugfix	Legic	FW	.12.10	Reading Legic badges for access control in the main menu is now possible again. The output format "rotated decimal" now returns the values rotated. Previously, the outputs of decimal and decimal rotated were identical.
Bugfix	Camera	FW	.12.10	Test image in the BIOS menu is no longer rotated.
Bugfix	Access Control	FW	.12.11	The RelinoB was configured as a legic reader when "mifare Classsic/Puls" was selected in the setup. This is the default for the RelinoB. Now the RelinoB is reading Mifare.
Bugfix	Access Control	FW	.12.11	When using Gis or Idtronic as Access Control Bus, a memory loss may occur if the Reader is configured in the reader list, but not available in the bus.
Bugfix	Fingerprint	FW	.12.11	Error during initial startup of the Biokey 4000 fingerprint module fixed. Previously a second attempt was needed.
Bugfix	Systemstate	FW	.12.11	Reading system state when analogue input moduls are present on the device no longer causes a restart of the device.
Bugfix	Access control	FW	.12.11	The RelinoB (Mifare-Legic combination reader) was not configured as a Mifare reader in the setup transponder setting "Mifare Classic/Plus", but as a Legic reader. This corresponds to the standard setting for the reader. With "Mifare Classic/Plus" the reader is now configured as Mifare reader.
Bugfix	Display Notification	FW	.12.11	Notification on missing bootloader or missing MAC-Address will be displayed after communication is initialized
Enhancement	EVO Agera	FW	.12.11	Support for board revision 2.3 added

6.4 Released at August 30th 2019 Firmware 04.03.12.12 DatafoxStudioIV 04.03.12.12 DFCom 04.03.12.12

Туре	Aspect	Comp.	.xx.xx	Description of Change or Bugfix
Bugfix	List data	FW	.12.12	When appending row to a sorted list a computation error could occur, that resulted in not all rows being available for subsequent access or selection.
Bugfux	Field Function "Server State"	FW		The field function did not work properly in active mode. It only returned the server state (offline/online) correctly, if at least one data set was present on the device. If no data set was present on the device, the server state always was returned as online in active mode.
Bugfix	WIFI DNS	FW	.12.12	Potential memory leak during DNS Name Resolution fixed. Additionally a memory corruption could occur for very long DNS Names.
Bugfix	HTTP Alive	FW	.12.12	When returning from an operation stop the http alive was not sent any more. This has been corrected.
Bugfix	KYO Cenloc	FW	.12.12	A part of the system variable was sporadically overwritten when the device started. This has been corrected.
Enhancement	Backlights	FW	.12.12	A new backlight module is now supported.



6.5 Released at September 27th 2019 Firmware 04.03.12.14

DatafoxStudioIV 04.03.13.04

DFCom 04.03.13.04

Туре	Aspect	Comp.	.xx.xx	Description of Change or Bugfix
Bugfix	U&Z Radio Locks	FW		Depending on the knob active time it could happen that the radio lock signaled green (for permitted entry) but opening the door did not open. This was due to the radio communication being cut of before the radio lock received the command to engage the lock. This behavior was corrected.
Bugfix	U&Z Radio Locks	FW		During the configuration of a radio lock, the firmware now provides firmware version, signal quality, RFID reader type and seial number of the radio lock. These properties are now shown in the Datafox Studio IV dialog "Configuration – Access Control – Configure Lock Cylinder U&Z".
Bugfix	IPC	FW	.12.13	When the IPC was cold-stated, the Windows PC did not start even if configured to. This has been corrected.
Bugfix	Fingerprint line sensor	FW	.12.14	Temperature management of the fingerprint line sensor corrected.
Enhancement	U&Z Radio Locks	FW		A new mode for continuous opening has been introduced for the locking units - the classic mode. In classic mode, the lock of the radio escutcheon engages permanently so that the escutcheon functions as a normal door knob or door latch during the continuous opening period. Details on this can be found in the "Access control" section of the manual.



- 7 Release Version 04.03.13
- 7.1 Released at September 27th 2019 Firmware 04.03.13.04 DatafoxStudioIV 04.03.13.04 DFCom 04.03.13.04

Туре	Aspect	Comp.	.xx.xx	Description of Change or Bugfix
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				devices'
Change	Qt	Studio	.13.04	The Qt Framework has been update to 5.12.4 LTS. This change may result in minor changes to the windows displayed by Datafox Studio IV.
Enhancement	Transponder reader	FW	.13.03	The new transponder reader TWN4 has been added to the firmware. It replaces the TWN3 transponder reader in its variants "Multi-ISO" and "Mifare NFC" and provides the transponder IO methods for Mifare Classic, Mifare DESFire, Mifare Plus S / X, Mifare Ultralight / Ultralight C, ICode, MyD and ISO-Tags.
Enhancement	Transponder / Barcode	FW Studio DFCom	.13.03 .13.04 .13.04	A new file type "Data" has been added for data records. Fields of this type may be filled by the field function "Normal" only and may contain up to 240 bytes (ASCII or binary) of data originating from a barcode or an RFID transponder. If "Normal" is used to fill a "data" type field, the data read from barcode or transponder cannot be altered by setup mechanisms and cannot be stored into a global variable.
Enhancement	Access Control	FW	.13.03	The access control module can now react to an opened door and lock the door again immediately.
Enhancement	Communication	FW	.13.03	A device being operated in main communication RS485 may now notify that data records present. This mechanism way available previously only for devices run in active mode.
Enhancement	Device Support	Studio DFCom	.13.04	Support for detecting and firmware-update of the following devices has been added: Vario / EVO IPCs, EVO Intera II and EVO 4.6 FlexKey.
Enhancement	Mifare Desfire	Studio	.13.04	The maximum number of byte that can be read from or written to transponders has been increased from 220 to 240 bytes. This became necessary due to the new "Data" field type.
Enhancement	System variables	Studio	.13.04	System variables dealing with the cell phone modem's user name and password have been increased in length to take up to 32 characters.
Bugfix	Fingerprint / EVO 3.5 Universal	FW	.13.03	The EVO 3.5 Universal device currently does not offer functionality for accessing fingerprint template data from an RFID transponder. The functionality for writing fingerprint template data to an RFID transponder has been deactivated in the Fingerprint Administrator menu.
Bugfix	Fingerprint / line sensor	FW	.13.03	Scanning a finger resulted in wrong values for minutae and finger quality being computed. This problem has been corrected.
Bugfix	Transponder	FW	.13.03	Writing to a Mifare Ultralight RFID transponder could result in wrong data being computed by the setup and being written to the transponder. This has been corrected.
Bugfix	Fingerprint	FW	.13.03	Reading fingerprint data though DFCom or HTTP communication while the device was BIOS mode resulted in the device not be usable until having rebooted. Access to fingerprint data is not rejected while the device is in BIOS mode.
Bugfix	Windows	Studio	.13.04	When using multiple monitors and a virtual desktop, dialogs could appear on the main screen instead of the one containing the application window.
Bugfix	Data record export	Studio	.13.04	When extracting data records from a log file the inclusion of process id and thread id causes the extraction to fail. This function is part of the setup editor.
Bugfix	Data records	DFCom	.13.04	Reading data record field descriptions aborted after the 20th (maximum is 25 data record fields).
Bugfix	Format string	Studio	.13.04	The length of the format string is restricted to 16 characters. An info button explaining this has been added.
Bugfix	Connection error message	Studio	.13.04	In case of an unsuccessful connection attempt the Datafox Studio IV always assumed, that it had been a serial connection that could not established. This resulted in wrong error messages when failing to create a connection to a device using TCP/IP.
Bugfix	Global Variables	Studio	.13.04	A gap in the definition of global variables could lead to wrong association of global variables when a global variable in the gap was activated. Having a setup with GV1, GV2 and GV8 lead to references of GV8 pointing to GV7 when activating GV7. This has been corrected.
Bugfix	Camera resolution	Studio	.13.04	Changing the camera's resolution lead to an error message being displayed despite the camera resolution having changed successfully.
Enhancement	Memory enhancement	FW	.13.04	With this version KYO Oneloc supports the bigger Flash-Memory as an option too. Also the memory enhancement is now available for EVO3.5-Universal.



7.2 Released at October 11th 2019 Firmware 04.03.13.05 DatafoxStudiolV 04.03.13.04 DFCom 04.03.13.04

Туре	Aspect	Comp.	.XX.XX	Description of Change or Bugfix
Bugfix	List	FW	.13.05	Adding a row of data to a list with a sort field resulted the filter functionality not being able to select this row.
Bugfix	Backlight	FW		If the setup was used to both activate a backlight for the duration of a field function and have a colour code assigned for the outcome of the field function, the colour code for the outcome was not shown.
Enhancement	Headerline Display / EVO 4.3	FW		The EVO 4.3 displayed a logo icon instead of the header 2. To enable showing the header 2 on a EVO 4.3, it may now be displayed in combination with header 1. The function may be activated in the device's Display BIOS settings (User settings – Display / Signals – Display-Layout – Combine Header 1+2). If activated, the content of header 1 and header 2 are displayed together as header 1.

7.3 Released at October 30th 2019 Firmware 04.03.13.08 DatafoxStudioIV 04.03.13.06 DFCom 04.03.13.06

Туре	Aspect	Comp.	.xx.xx	Description of Change or Bugfix
Bugfix	TWN4	FW	.13.06	Using the options "(read UID) Also from other Mifare ID card" and "UID with 4 byte length" together was not processed correctly. This combination is now handled correctly for Mifare DESfire configurations.
Bugfix	TWN4	FW	.13.06	Mifare DESfire transponders containing no application could not be read. This has been corrected.
Enhancement	DataOnCard	FW	.13.06	When using DataOnCard two beeps were generated – first when having checked the transponder, second when having written to the transponder. This was confusing for the operator – the first beep could be taken as confirmation to the writing process. Thus the first beep was removed.
Bugfix	EVO Agera	FW	.13.06	Error when checking encrypted PHG packets corrected.
Bugfix	Access Control	FW	.13.06	When sending a single "0" as PIN the reader status changed to status "3" (Module Found but not in list. Now the reader signals access denied (Bad Pin).
Bugfix	Field type "Data"	FW		A buffer overflow could occur when reading more than 60 bytes of data. This has been corrected, so that the device does not restart in response to the buffer overflow.
Enhancement	IPC	FW	.13.08	A new version of our IPC board is supported now.

7.4 Released at November 25th 2019 Firmware 04.03.13.09 DatafoxStudioIV 04.03.13.06 DFCom 04.03.13.06

Topos Topos State	Туре	Aspect	Comp.	.xx.xx	Description of Change or Bugfix
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Enhancement	DataOnCard	FW	.13.09	Additional credential checks improve the security level when using DataOnCard.
	Mifare- Classic/DESFire transponder	FW	.13.09	Only the UID of the Mifare classic chip was read if a combined Mifare-classic/DESFire transponder was held in front of a reader. If you uncheck the setup option "Also from other Mifare ID cards" within the Mifare DESFire configuration, the reader goes ahead searching for a Mifare DESFire transponders after reading a Mifare Classic chip now. This enables handling Mifare-Classic/DESFire transponders.
Bugfix	KYO Oneloc	FW	.13.09	If module 5 is connected, only one of both relays was operable. This is fixed now.
Bugfix	Systemlog	FW	.13.09	When editing a list, an error was written into the system log although the changes were correctly performed.

7.5 Released at December 11th 2019 Firmware 04.03.13.11 DatafoxStudioIV 04.03.13.06 DFCom 04.03.13.06

Туре	Aspect	Comp.	.XX.XX	Description of Change or Bugfix
Bugfix	KYO Cenloc	FW	.13.11	A bug within the firmware lead to the potentially relays changing their state when restarting the device.
Bugfix	EVO 3.5 Universal	FW	.13.11	The RS485 bus for access control was not activated correctly – the readers attached to the access control bus did not work accordingly.

8 Release Version 04.03.14

8.1 Released at December 13th 2019 Firmware 04.03.14.01 DatafoxStudioIV 04.03.14.03 DFCom 04.03.14.05

Туре	Aspect	Comp.	.xx.xx	Description of Change or Bugfix
Bugfix	Data records	DFCom	.14.01	The functions for reading data records (DFCGetDatensatz, DFCReadRecord) did not handle the parameter on the input buffer length correctly. This could lead to a segmentation fault when providing a smaller buffer that required by the data record.
Change	Filesystem	FW	.14.01	The image partition and user partition are now combined.
Change	Restore Fingerprint Templates	DFCom		When restoring fingerprint template data from a backup file, the first fingerprint template reporting an error on import aborted the import process. The errors while restoring are now being counted and reported through error code 110.
Enhancement	Radio network modems	FW		The new mobile modules BG96 and EG95 are now supported. Both modules can use 4G Networks, and increase speed for data transmission, compared to the MC55. GMS is no longer available for the new modules
Enhancement	Fingerprint	FW		The number of scan repetition prior rejecting an identification / verification may now be set configured. Finger-Templates stored on a transponder for verification are not read again if the same transponder is used as for previous verification. In order to make templates comparable between different devices, an optimisation step has been added when leaving either the fingerprint administration menu or after an identification yielded new information – this is indicated by a message at the display. Support for sensor firmware versions DG_DF_08 / DG_DF_09.



8.2 Released at January 9th 2020

Firmware 04.03.14.02

DatafoxStudioIV 04.03.14.03

DFCom 04.03.14.05

Туре	Aspect	Comp.	.XX.XX	Description of Change or Bugfix
Bugfix	List handing	FW	.14.02	Rows just added to a list could be shown twice. This has been corrected.
Bugfix	Main communication	FW	.14.02	When updating from firmware version 04.03.11.08 to 04.03.12 or newer it could happen that the device's main communication changed. This problem has been corrected.
Bugfix	IPC CDC/HID	FW	.14.02	In release 04.03.14.01 the transport of transponder data to the PC using CDC/HID did not work correctly. This has been corrected.
Bugfix	Flash	FW	.14.02	Finding no free flash page could result in a device reboot. This has been corrected.
Bugfix	EVO Agera / Transponder	FW	.14.02	If a transponder was presented rather long to an EVO Agera equipped with a 125 kHz RFID reader, this could lead to the reader not properly reading transponders afterwards.
Bugfix	KYO Cenloc / Relais	FW	.14.02	Relay modules attached the access control bus did work only for the first four busses reliably. Relays at the other busses did not work properly – this has been corrected.
Bugfix	KYO Cenloc / U&Z	FW	.14.02	Scanning for and reading from FSM modules did not work reliably for all 16 busses. This has been corrected.
Enhancement	EVO 4.3	FW	.14.02	The headline displayed by the EVO 4.3 has been made wider.
Enhancement	EVO 3.5 Universal	FW	.14.02	Support for new PCB version 2.0

8.3 Released at March 19th 2020

Firmware 04.03.14.06

DatafoxStudioIV 04.03.14.11

DFCom 04.03.14.11

Type	Aspect	Comp.	XX XX	Description of Change or Bugfix
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				devices
Bugfix	EVO 3.5 Universal	FW	.14.04	Wrong transponder inputs might occur, if a tag or card was present in the field, while no input chain was active
Bugfix	Radio network modems	FW	.14.04	Devices with the old MC55 module no longer stay in mobile status 4.
Bugfix	Evo 4.3 mobile	FW	.14.04	Instead of the gprs icon the gps icon was shown in the state bar.
Bugfix	Access Control	FW	.14.04	Records for relay action triggered by the time control are now generated correctly. Previously only the first action lead to a record generation.
Bugfix	Online AC	FW	.14.04	The PIN Input parameter was not present in the online access control.
Bugfix	Transponder	FW	.14.04	Devices using the TWN3 transponder module return the UID with 7 bytes, even if the option "UID as 4 Byte Value" was checked.
Bugfix	Transponder	FW	.14.04	Terminals using the TWN3 transponder module returned a different Value when using it as an access control Terminal
Bugfix	KYO Cenloc	FW	.14.04	The correct room-id will be displayed.
Bugfix	AE, list display	FW	.14.04	If only 3 (font size: large) or 4 (font size: medium) lines were displayed in a two-column list display, display errors occurred in the right column. Some entries were missing or displayed twice. Now the correct display is shown again.
Bugfix	AE and PZE	FW	.14.04	The field function "Display message or wait" did not display any text in the AE- and PZE-Master IV. This error has been corrected.
Bugfix	internal barcode	FW	.14.04	After scanning a barcode with an internal barcode reader, reading the next Legic transponder took about 10 seconds. Now the Legic reader can be used again immediately.
Bugfix	fingerprint	FW	.14.04	After reading an ID card and before scanning a finger, the switch-over to the default position did not work in both PZE modes. Now, after the timeout period has elapsed, automatic changeover is performed again.
Bugfix	analog inputs	FW	.14.04	Devices with analog inputs that were not defined in the setup constantly made a reboot during the startup process of the setup. This problem has been fixed.
Bugfix	Transponder configuration	Studio	.14.09	When using several transponder configurations and switching the transponder procedure or even deleting configurations, the already established references to the configurations e.g. in the input chain fields were not reset to the standard configuration.
Bugfix	DataOnCard	Studio	.14.09	When reading lists with binary column (for DataOnCard), only up to 125 bytes of the possible 220 were correctly transferred to the export file as hexadecimal character string due to a too small export buffer selected for the column.
Change	Read record	DFCom	.14.09	When reading data records, additional checks on the content are carried out in exceptional cases and in case of discrepancies, these are logged in a log file with the name "_DFCom_records.log". If necessary, data records that cannot be processed are automatically acknowledged in the read operation so as not to block further reading.
Enhancement	Additional modules	Studio	.14.10	Now the firmware supports module 88 (4 analogue current inputs, 0-20 mA), 65 (1 monitored input, 1 output) and 51 (4 outputs).
Bugfix	Images	FW	.14.05	Removing and restoring images can be done over Studio again successfully.
Bugfix	Access control	FW	.14.05	Sometimes access readers gave the last credential instead of the current one. Now because of another control sequence, the access readers give the current credential.
Bugfix	Display	FW	.14.06	 After entering the wifi bios menu some unwanted letters appeared on the display. If there was no active wifi connection to the access point, an invalid IP was shown in entry menu.
Bugfix	Transponder	FW	.14.06	There was a delay after using legic reader. After some time legic readers weren't usable anymore. This problem has been fixed.
Bugfix	Changing lists	FW	.14.06	The terminal did not operate anymore after removing and adding rows in a list. This problem has been fixed.
Optimization DP = only for Dev	JPC (Q7) velopment Partner	FW	.14.06	Since tolerances on the Intel Atom® E39xx board could lead to the IPCs sometimes not being able to be switched on, the switch-on behaviour was optimized.
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8.4 Released at March 26th 2020

Firmware 04.03.14.07

DatafoxStudioIV 04.03.14.11

DFCom 04.03.14.11

Туре	Aspect	Comp.	.xx.xx	Description of Change or Bugfix
Enhancement	PHG VOXIO Touch Zarge	FW	.14.07	Legic prime and advant credentials are supported by PHG VOXIO Touch Zarge. Now mifare credentials are processed in access control too.

8.5 Released at April 3rd 2020

Firmware 04.03.14.08

DatafoxStudioIV 04.03.14.11

DFCom 04.03.14.11

Туре	Aspect	Comp.	.xx.xx	Description of Change or Bugfix
Bugfix	Radio network modems	FW		VPN-password: If the password contained % characters, no VPN connection was established. The correction also evaluates and passes on % characters correctly so that a connection can be established.
Optimization	LAN, Passive mode	FW		After a connection loss, it could possibly happen that no connection could be established to the terminal. The software change means that a new connection can be established from the server even after a connection has been lost.
Bugfix	IPC (Q7)	FW		With some IPCs it could happen that after booting the PC a built-in Mifare reader (TWN3) did not react anymore. Now the transponder readers work perfectly again.
Optimization	Optical fingerprint sensor	FW	.14.08	If an attempt was made to perform a verification with an unknown template ID, the device did not respond to any further input. Only a restart of the device brought relief. Now an error message is shown on the display in case of unknown IDs.
Enhancement	DataOnCard	FW		DataOnCard lists can now also be transferred via http. Since this is binary data, all characters in the DataOnCard columns must be transmitted in HEX ASCII format.
Bugfix	Selection from lists	FW	.14.08	Manual entries of values in a list selection that are not contained in the list can be transferred again.

8.6 Released at May 4th 2020

Firmware 04.03.14.09

DatafoxStudioIV 04.03.14.11

DFCom 04.03.14.11

	Туре	Aspect	Comp.	.xx.xx	Description of Change or Bugfix
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Bugfix	LTE Module	FW	.14.09	If an error occurred during the parsing of the LTE module's response, the connection to the internet sometimes could not be established.	
Optimization	Access Control	FW	.14.09	If lists for access control are transferred at different times with a restart between the transfers, it could occur that entries from Action2 were not executed.	
Enhancement	http Service Mode	FW	.14.09	Using a password for communication in Service mode is now available in http. The password can be selected by a parameter in the http response. The activation of the service mode required sending the following parameters df_service= <flag>, <host>, <port>, <key> The <key> parameter defines, if the service mode connection is - Unencrypted (parameter omitted or empty) - Encrypted with the first active mode server's key ("key0") - Encrypted with the second active mode server's key ("key1")</key></key></port></host></flag>	

8.7 Released at May 28th 2020

Firmware 04.03.14.10

DatafoxStudioIV 04.03.14.12

DFCom 04.03.14.12

Туре	Aspect	Comp.	.xx.xx	Description of Change or Bugfix
Optimization	Transponder	FW	.14.10	Now TWN4 reader also supports mifare desfire transponders using 3DES-/TDES-authentication mode.
Bugfix	Setup	Studio	.14.12	The field functions for copying the Timeboy variables did not correctly retain the variable reference used.
Bugfix	Setup	Studio		When using digital inputs as counters, the values for timeout, counter divider, cycle, cavity and stroke number can be used as headers of an input chain field as well as write target of a value assignment. In both cases, the assigned variable reference was not correctly retained.
Enhancement	Setup	Studio	.14.12	The number of usable inputs of the signal processing for the system variables of the counters was increased from maximum 8 to 32.

8.8 Released at July 1st 2020

Firmware 04.03.14.12

DatafoxStudioIV 04.03.14.12

DFCom 04.03.14.12

Туре	Aspect	Comp.	.xx.xx	Description of Change or Bugfix
Bugfix	Design	FW		EVO 2.8 and EVO 3.5: If no icon but only text was displayed when labelling the F keys, the text was erroneously left-aligned. Now the output is centered again.
Bugfix	Fingerprint line sensor	FW		With repeated stop of operations, it could happen, that accessing the fingerprint sensor's template data resulted in a timeout. Thus the data transfer to the Datafox Studio timed out as well. This problem has been corrected.
Bugfix	Memory Management	FW	.14.12	Potential Buffer Overflow during a typically deactivated log function corrected.



8.9 Released at July 17th 2020

Firmware 04.03.14.13

DatafoxStudioIV 04.03.14.12

DFCom 04.03.14.12

Туре	Aspect	Comp.	.xx.xx	Description of Change or Bugfix
Optimization	SD Card	FW		While checking the existence of entries with a large list it could occur that some entries were not located correctly. An optimization during writing data to the SD card now ensures that all entries can be located later.
Bugfix	Erase Setup	FW		In certain circumstances erasing a setup from the device resulted that uploading a new setup to the device did not work properly. This bug has been corrected.
Bugfix	HTTPS	FW	.14.13	In certain circumstances the device could reboot when trying to establish an HTTPS connection. This problem has been corrected.

9 Release Version 04.03.15

9.1 Released at July 7th 2020

Firmware 04.03.15.01

DatafoxStudioIV 04.03.15.01

Туре	Aspect	Comp.	.xx.xx	Description of Change or Bugfix
Enhancement	EVO 4.6 FlexKey	FW + Studio	.15.01	Starting with this Firmware- and Studio-Version the new device EVO 4.6 FlexKey is supported. With its configurable virtual keyboard the EVO 4.6 FlexKey is an alternative to the EVO 4.3. The keyboard is represented by an image, which may be modified individually.
Enhancement	EVO IPC - Optical fingerprint sensor	FW	.15.01	A new tool for fingerprint sensor administration (enrol, train, remove) is now available as a Microsoft Windows application. With it it's possible to manage fingerprint data on IPC devices in a convenient way.
Enhancement	Optical fingerprint sensor	FW	.15.01	The optical finger sensor option is now available for PZE- and AE-MasterIV devices as well. Managing fingerprint data with the administration menu is possible too.
Enhancement	KYO Oneloc as wiegand interface	FW	.15.01	 Datafox KYO Oneloc comes with two new features. KYO Oneloc CWC enables connecting an access reader (with phg-crypt protocol) with a wiegand controller. KYO Oneloc CWR can be used as door module or controller and enables connecting a wiegand reader with a Datafox access controller. Phg-crypt readers can be used next to them. In general wiegand readers cannot be configured through Datafox access controllers. Consequently, tag values supplied by different wiegand readers may be different too. Therefore, multiple entries may have to be added to the identification list.
Enhancement	Firmware- Requirement	FW + Studio	.15.01	The conditions affecting firmware up- or downgrade have been refined. Consequently, transferring an unsuitable firmware to Datafox devices is less probable.
Enhancement	New setup format (XML)	Studio	.15.01	The DFCom now provides functionality to store and load the device setup to/from an XML encoded file. With this format it's possible to edit the configuration files easier. It's also possible to merge configuration aspects from different files and to perform faster enhancements (record tables, input sequences,) because of copy & paste. Only setup files, which are created by DatafoxStudio 04.01.07.00 or newer, are supported.
Enhancement	List data manipulation using http(s)	FW	.15.01	Tables/Lists stored on the device may now be modified by http commands. Thus entries may be added or removed. Please consider that the lists must be sorted, if they are configured with sort column. An unsorted list may leads to long search times.
Enhancement	Faster analogue	FW	.15.01	Analogue inputs may now be sampled and recorded with up to 5 Hz. Value changes can be recognized much faster than before. However no more



Туре	Aspect	Comp.	.xx.xx	Description of Change or Bugfix
	inputs			than ten records per second should be created, because servers may struggle with retrieving data quickly enough.
Enhancement	Transponder	FW	.15.01	Using Hitag1 transponders, the transponder's ID may now be retrieved as so-called Feig-ID. A 125kHz access reader or transponder reader is necessary (Attention: U&Z devices do not support this feature yet). This function is available for TimeboyIV starting with firmware release 04.03.05.62 as well.
Enhancement	Scan for Datafox device in the LAN	Studio	.15.01	Datafox Studio supports scanning the local area network for Datafox devices. Please consider that devices have to use LAN as main communication source and that there's no router between pc and Datafox device.
Enhancement	KYO Cenloc	FW	.15.01	The SRAM module is supported now. It serves to outsource internal data during operation.
Enhancement	Memory Management	FW	.15.01	Since it could happen in very rare cases that invalid data was stored in the data record memory, additional security mechanisms were integrated into the memory management.

9.2 Released at July 17th 2020

Firmware 04.03.15.02

DatafoxStudioIV 04.03.15.02

DFCom 04.03.15.01

Туре	Aspect	Comp.	.XX.XX	Description of Change or Bugfix
Optimization	SD Card	FW		While checking the existence of entries with a large list it could occur that some entries were not located correctly. An optimization during writing data to the SD card now ensures that all entries can be located later.
Bugfix	Erase Setup	FW		In certain circumstances erasing a setup from the device resulted that uploading a new setup to the device did not work properly. This bug has been corrected.
Bugfix	HTTPS	FW	.15.02	In certain circumstances the device could reboot when trying to establish an HTTPS connection. This problem has been corrected.
Bugfix	Touchkey configuration	Studio		A touch key's functionality may be assigned either from the context menu or the table view of all touch keys. In certain circumstances assigning the touch key from the table view did not work correctly. This has been corrected.

9.3 Released at July 27th 2020

Firmware 04.03.15.04

DatafoxStudioIV 04.03.15.03

Туре	Aspect	Comp.	.xx.xx	Description of Change or Bugfix
Bugfix	Display / EVO 4.6 FlexKey	FW	.15.03	Display refreshes on the EVO 4.6 FlexKey could render the device not responding to touch events, so that the device had to be restarted. This has been corrected.
Bugfix	WIFI	FW	.15.04	Modifying a WIFI configuration directly on the device did not result in the stored configurations to be updated. This has been corrected.
Optimization	Device Log	FW	.15.04	Intentional removing the setup from the device is now reported as an event rather than an error.
Bugfix	Touchkey Configuration	Studio	.15.03	Handling touch key configuration for EVO 4.3 devices has been corrected,



9.4 Released at August 10th 2020

Firmware 04.03.15.05

DatafoxStudioIV 04.03.15.04

DFCom 04.03.15.04

Туре	Aspect	Comp.	.xx.xx	Description of Change or Bugfix
Bugfix	RFID Configuration	FW	.15.05	A Configuration with selected RFID reader type "Mifare Classic/Plus" was not applied correctly to access control readers. This has been corrected
Bugfix	RFID reader	FW	.15.05	Reading application data from Mifare Desfire transponders could result in the transponder's serial number being return instead – if certain hybrid transponders were present when reading.
Optimization	RFID reader	FW	.15.05	With some readers which are connected to the MasterIV devices using the Wiegand interface it could happen that the processing of the received data was accompanied by a short delay. This delay could be eliminated.
Bugfix	Touchkey Configuration	Studio	.15.04	When transferring the touch key area image without first loading it in the editor, the image was not correctly written to the device.
Enhancement	PZE-MasterIV AE-MasterIV	Studio	.15.04	Field function 'Switch backlight' for PZE-MasterIV and AE-MasterIV added.
Optimization	Export of list data	Studio	.15.04	With incorrectly supplied structure data, the export of list data in text format could lead to a buffer overflow.

9.5 Released at September 11th 2020 Firmware 04.03.15.06 DatafoxStudioIV 04.03.15.05 DFCom 04.03.15.05

Туре	Aspect	Comp.	CX.XX Description of Change or Bugfix
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				devices
Optimisation	Flash	FW	.15.06	Preventive measures concerning the flash communication Due to shortages when sourcing electronic components and fluctuation in the market – especially since the economical cooldown in 2018 – we saw us forced to qualify different flash memory chips to ensure our ability to deliver. In addition to this we observed batch dependent behaviour of flash memory chips. To deal with these challenges we have included enhancements and preventive measures into the new firmware release. It is important to update installations in the field in order to apply these enhancements. We recommend updating all devices of type EVO 4.3, EVO 4.6, PZE-MasterIV or AE-MasterIV delivered since February 2019 at short notice.
Bugfix	EVO 2.8, Touch screen calibration	FW	.15.06	The Calibration of the touch screen using the BIOS could not be executed. This has been corrected.
Bugfix	Proximity sensor	FW	.15.06	The Display doesn't switch on by proximity sensor. The display off timer was set at a cold start of the device if the parameter "display off after" was not zero. So the display switched off once after the configured time and did not switch on again when detecting proximity. Now the behaviour is correct.
Bugfix	Fingerprint	FW	.15.06	Store a second fingerprint template at a Mifare transponder with the RFID-Reader DF-R44 Multi-HF had a bug and has been corrected.
Enhancement	Display	FW	.15.06	If problems during data acquisition are detected by the device, the user is informed of a processing error and is asked to perform the operation once again. To do so, the device presents a red error dialog for five seconds at terminal devices.
Optimisation	RTC	FW	.15.06	Additional preventive measures were taken to ensure the plausibility of the internally processed values of the real time clock.
Optimisation	Flash	FW	.15.06	Performance enhancements when accessing data records or log data at the device have been integrated.
Bugfix	IO module	FW	.15.06	Information presented on a connected "IO module" by the device's system state reflect the actual communication state now.
Bugfix	Fingerprint	FW	.15.06	Queries for fingerprint sensor hardware to a device that can't implement this sensor (e.g. Intera II or KYO Inloc) returned a misleading value to the command. The command now returns a protocol-confirming error code.
Enhancement	Firmware Update	Studio	.15.05	The Datafox Studio is able now to transfer firmware to many devices by a single user interaction. So the effort to install an update to several devices is significantly reduced. Using this new feature is described by a separated document: https://www.datafox.de/download/Datafox Studio-Enhancements-Firmwareupdate 04.03.15.06.pdf
Bugfix	Firmware Update / Hardware II and III	DFCom	.15.05	With DFCom version 04.03.15 the computation of the minimum required firmware version did not work for devices with Hardware II and III so far. This lead to the firmware upload to these devices not being possible. The problem has been corrected.
Optimisation	Firmware Update	DFCom	.15.05	The firmware update has been optimized for concurrent usage on multiple devices.

9.6 Released at September 21st 2020 Firmware 04.03.15.06 DatafoxStudioIV 04.03.15.06 DFCom 04.03.15.06

Туре	Aspect	Comp.	.xx.xx	Description of Change or Bugfix
Bugfix	Description of data record or list entry	Studio, DFCom		With version 04.03.15.04 a consistency check has been introduced that enforced data record descriptions and list entry description at least having a single field storing content. This requirement has not been enforced previously and lead to not being able to access the data record description for some setups. The consistency check now allows data record/list entry description to have no content again.



9.7 Released at October 7st 2020

Firmware 04.03.15.07

DatafoxStudioIV 04.03.15.07

DFCom 04.03.15.07

Туре	Aspect	Comp.	.XX.XX	Description of Change or Bugfix
Enhancement	Radio communication	FW	.15.07	Improved monitoring on data connections to a server, to prevent connection losses.
Bugfix	Access Control	FW	.15.07	The KYO Oneloc is now able to configure 32 bus participants again.
Bugifx	Access Control	FW	.15.07	Error initialising TSR Readers on a second RS485 bus is now fixed.
Optimisation	Access Control	FW	.15.07	The alternative office mode used the relais' switch time from the lists to switch it on, although a time model was in use. As a result the office mode could still have been active after the time model was finished. In this situation the office mode couldn't be deactivated and ended after the relais' switch time. Now the duration of the office mode will be restricted to the time model, if a time model is active.
Enhancement	Transponder	FW	.15.07	Writing data in backup files of a Mifare DESFire credential is possible now with TWN4.
Bugfix	Optical fingerprint sensor	FW	.15.07	Under certain circumstances it may happen that after an update to version 04.03.15 the optical sensor does not work anymore. This bugfix solves the problem.
Bugfix	http list transfer	FW	.15.07	Too long comment lines in the list data during HTTP transmission resulted in error code 1004. The list was rejected by the device. Now the device can cope with longer comment lines.
Bugfix	Setup	Studio, DFCom	.15.07	Converted XML setup configuration created with version ≤ 04.03.15.06 may not be transferred. Reconverting with the current version solves the problem.
Optimisation	Setup	Studio	.15.07	The password for the encrypted value store is now stored as a HEX dump and no longer as a string in the XML.
Bugfix	Setup	Studio	.15.07	Names and identifiers from the setup configuration are now correctly transferred to the XML configuration file.
Bugfix	Active-Mode	Studio	.15.07	Changing the configuration parameters for the active mode caused the application to crash.
Optimisation	Update-Manager	Studio	.15.07	Improved detection and management of USB connections.

9.8 Released at October 14st 2020

Firmware 04.03.15.08

DatafoxStudioIV 04.03.15.08

Туре



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Optimisation	FW-Update	Studio, DFCom	.15.08	Prevents the download of FW versions < 04.03.15.06 on certain not fully supported hardware devices.
Change	Display-Designer	Studio	.15.08	In the design for the EVO 4.6 FlexKey, a png is now used for the keyboard area instead of a bmp, and the selected button color is now used for the transparent areas.
Bugfix	FW-Update	FW	.15.08	During an update to version 04.03.15.06 or 04.03.15.07 the device could possibly get stuck during the boot process. Only a change into the bootloader and installing a version < 04.03.15.06 could help. This problem is solved now.
Bugfix	Access Control	FW	.15.08	The communication between a KYO Oneloc (used as door module) and an access reader could sporadically break down. Only a restart of the KYO Onloc could fix the error condition. Now the communication does not break off anymore.
Bugfix	Module update	FW	.15.08	Reading the system variable "system.updatestate" led to a reboot of the device if there were too many access modules in the bus. Now there is no more reboot and the status is displayed correctly.
Bugfix	Module update	FW	.15.08	Updating phg devices via bus communication failed in version 04.03.15.
Enhancement	Bios	FW	.15.08	In the device bios, IP and port of the 1st DNS server can now be adjusted in the "Communication" section.
Optimisation	Device log	FW	.15.08	The log output for not found list entries (selection in list) has been extended by the searched value.
Bugfix	Display	FW	.15.08	The display of the entered value may have been overwritten with 'dirty' characters when exiting the 'Normal' field function. Now this behavior has been prevented.

9.9 Released at October 21st 2020 Firmware 04.03.15.09 DatafoxStudioIV 04.03.15.08 DFCom 04.03.15.08

Туре	Aspect	Comp.	.xx.xx	Description of Change or Bugfix
Bugfix	Access Control	FW		Deactivating the access control when changing to the operating stop took too long for many bus participants, so that the communication to the master was interrupted with an error. Now the shutdown is done within a few seconds.
Bugfix	EVO 4.6 FlexKey Menu and list view	FW		The position bar of the last menu or list page was calculated incorrectly, so that the display of the touch keyboard was partially removed. Now this error has been corrected and the keyboard display is no longer removed.
Enhancement	Transponder	FW	.15.09	Now TWN4 supports mifare classic 4K tags with a 7 byte uid.
Enhancement	Access Control	FW	.15.09	Improvements in the search for new GIS Devices

9.10 Released at November 4th 2020 Firmware 04.03.15.10 DatafoxStudioIV 04.03.15.08 DFCom 04.03.15.08

Туре



Bugfix	Access Control KYO Oneloc	FW	.15.10	If the baud rate of a KYO Intera, which is operated as a stitch reader on a KEY Oneloc, was not set to 19200, the change of the baud rate did not work and the reader could not be used for the access control. Now the change works and the reader can be used for access control again.
Bugfix	Access Control KYO Cenloc	FW	.15.10	The assignment of the access readers to the individual buses was faulty, so that modules stored in the reader list were not found and reported with status "3". Now the assignment is corrected and the control system is working properly again.
Bugfix	Access Control	FW	.15.10	Transactions with virtual badges via DFCom / via HTTP were always rejected with the access control status "101". Now virtual bookings are possible again without problems.
Bugfix	WIFI	FW	.15.10	Sporadically it can happen that a connection setup to the device is rejected by the WIFI module, although the device is working in passive mode and no further connection exists. This problem has been fixed.

9.11 Released at November 11th 2020 Firmware 04.03.15.11 DatafoxStudioIV 04.03.15.08 DFCom 04.03.15.08

Туре	Aspect	Comp.	.xx.xx	Description of Change or Bugfix
	Access Control KYO Cenloc	FW	.15.11	When using online access control with KYO Cenloc, it was not yet possible to control the leds and buzzer on the readers.
	Radio Communication	FW	.15.11	Increase robustness of SIM verification.

9.12 Released at November 25th 2020 Firmware 04.03.15.12 DatafoxStudioIV 04.03.15.08 DFCom 04.03.15.08

Туре	Aspect	Comp.	.XX.XX	Description of Change or Bugfix
Enhancement	Access Control	FW	.15.12	In access control the interface to MegaAU was integrated.
Bugfix	Display design	FW		After uploading a setup for devices with SD extension, existing images may have been deleted and the standard icons were displayed. The problem no longer exists.
Enhancement	Setup	FW	.15.12	With EVO 3.5, an image can now also be displayed instead of the text in the two field functions "Confirmation" and "Show message".

9.13 Released at December 9th 2020 Firmware 04.03.15.13 DatafoxStudioIV 04.03.15.08 DFCom 04.03.15.08

Туре	Aspect	Comp.	.xx.xx	Description of Change or Bugfix
Bugfix	EVO Agera	FW		If activation or deactivation of the BDS requires a PIN in addition to the transponder, the EVO Agera displayed an error screen instead of the PIN enter screen. This has been corrected.



9.14 Released at January 20th 2021

Firmware 04.03.15.15

DatafoxStudioIV 04.03.15.08

DFCom 04.03.15.08

Туре	Aspect	Comp.	.xx.xx	Description of Change or Bugfix
Enhancement	Cellular	FW		An error during startup of the module could cause the module to remain in state 5 for up to 30 seconds before the module was restarted. The error condition is now detected and a module restart is performed.
Enhancement	Bios	FW	.15.15	Entering a password inside the BIOS is automatically aborted after 10 seconds idleness now.
Bugfix	Fingerprint, optical sensor	FW	.15.15	After an incorrect teach-in attempt, the sensor LED may not have been activated during the next scan or the next teach-in.
Bugfix	IPC (Q7)	FW	.15.15	Sporadically it could happen that an IPC did not start automatically after a power failure, although its power-on mode was set to "last state".
Change	Transponder	FW		With the transponder methods ICode, MyD and the ISO tags, the UID length was previously used for formatting the transponder value and not the output length set in the Datafox Studio. Therefore it could happen with some settings that the front digits of the transponder values were cut off and thus were not available in the data set. This misbehaviour has now been corrected.

9.15 Released at January 26th 2021

Firmware 04.03.15.16

DatafoxStudioIV 04.03.15.08

DFCom 04.03.15.08

Туре	Aspect	Comp.	.xx.xx	Description of Change or Bugfix
Optimisation	Transponder	FW	.15.16	In rare cases, it could happen with the EVO 3.5 Universal that presented badges were not read. Only after removing the badge from the reading field of the transponder reader the badge was read again. This behaviour could be optimized so that the badges can now be read reliably.
Optimisation	http, list transfer	FW		In the case of mixed transmission of setup and access lists, the transmission process was previously terminated and no list was transferred if access control was deactivated in the device. Now both types of lists can be transferred together. If the access control is deactivated, the access lists are 'ignored' with the possibly activated system message 1037 and the setup lists are accepted.

9.16 Released at March 3rd 2021

Firmware 04.03.15.17

DatafoxStudioIV 04.03.15.08

Туре	Aspect	Comp.	.xx.xx	Description of Change or Bugfix
Bugfix	Data on Card	FW		Input chains with the "Data on Card" field function caused the input chain to crash. The calculation of the checksum of the data set failed and the RFID card was not written. Data on Card now works again.



9.17 Released at March 18th 2021

Firmware 04.03.15.18

DatafoxStudioIV 04.03.17.05

DFCom 04.03.17.05

Туре	Aspect	Comp.	.xx.xx	Description of Change or Bugfix
Bugfix	Cellular	FW	.15.18	When entering the PIN in the BIOS menu, a password was requested. Now the PIN is requested directly.
Bugfix	Access Control	FW	.15.18	When reading 125 kHz RFID cards, a problem with data processing could occur in the access controller. The reader was still reported correctly in the Access Control Overview, but no tag was reported.
Bugfix	Access Control	FW	.15.18	When displaying access control in the main menu, the message was displayed too briefly. The display duration has now been increased to 2 seconds again.
Bugfix	EVO 4.3	FW	.15.18	The display of lists and menus was faulty in the EVO 4.3 when the display of the "MasterIV layout" was enabled in the bios. Now the display errors have been fixed.

10 Release Version 04.03.16

10.1 Released at December 23th 2020 Firmware 04.03.16.01 DatafoxStudioIV 04.03.16.01 DFCom 04.03.16.01

Туре	Aspect	Comp.	.XX.XX	Description of Change or Bugfix
Enhancement	HTTP(S)	FW / Studio		The http(s) workflow "Basic Authentication" is supported, Realm, User and Password are configured as system variables. Detail concerning the workflow are described in the "Data protocol http(s)" Version 1.11, section 1.6.
Enhancement	HTTP(S)	FW / Studio	.16.01	The http(s) workflow was extended by an info telegram that may be used to see to initial device configuration as well as to check the device configuration during operation. Details on the info workflow are described in the "Data protocol http(s)" Version 1.11, appendix C.
Enhancement	Access Control	Studio	.16.01	If the KYO Oneloc is used as a door module, the access bus number used can now be assigned in the range 0 - 15 via the BIOS dialog.
Enhancement	Setup, Fever check	FW / Studio	.16.01	Support for the "Perform fever check" field function
Enhancement	Display Designer	FW / Studio	.16.01	Support of the images for the "Perform fever check" field function
Enhancement	EVO 3.5 Pure / New Display	FW	.16.01	A new replacement display is being prepared for the EVO 3.5 Pure. This display is supported starting with version 04.03.16.01.

10.2 Released at January 13th 2021 Firmware 04.03.16.02 DatafoxStudioIV 04.03.16.01 DFCom 04.03.16.01

Туре	Aspect	Comp.	.xx.xx	Description of Change or Bugfix
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				devices
Bugfix	Fever check	FW	.16.02	The two PZE modes were not supported when performing the fever check function, so that the device did not automatically return to the default position after the configured timeout. This error has been corrected. After the configured timeout, the device automatically returns to default position in PZE mode.
Bugfix	HTTP(S)	FW	.16.02	If a server failure occurred on devices that need to authenticate to the server using Basic Authentication, the connection to the server was lost. This problem has been fixed. Now after a server failure a connection to the server will be established again in conjunction with Basic Authentication.
Bugfix	EVO Intera II	FW	.16.02	When reading unique tags, the option to read 40 bits was ignored and only 32 bits were reported. Now 40 bits are reported
Optimisation	EVO Intera II	FW	.16.02	LED and Buzzer Feedback might have been misleading or out of sync when switching cards quickly.
Optimisation	EVO Intera II	FW	.16.02	The processing of touch events has been optimized.

10.3 Released at January 26th 2021

Firmware 04.03.16.03

DatafoxStudioIV 04.03.17.03

Туре	Aspect	Comp.	.XX.XX	Description of Change or Bugfix
Optimisation	Transponder	FW	.16.03	In rare cases, it could happen with the EVO 3.5 Universal that presented badges were not read. Only after removing the badge from the reading field of the transponder reader the badge was read again. This behaviour could be optimized so that the badges can now be read reliably.
Optimisation	http, list transfer	FW	.16.03	In the case of mixed transmission of setup and access lists, the transmission process was previously terminated and no list was transferred if access control was deactivated in the device. Now both types of lists can be transferred together. If the access control is deactivated, the access lists are 'ignored' with the possibly activated system message 1037 and the setup lists are accepted.
Optimisation	Fever check	FW	.16.03	The measuring process has been optimized, so that the resulting measuring value is more stable and more precise. Moreover after an invalid measurement and the result "fever" a protruding error tone is used, to also acoustically alert the user to the (invalid) measurement result.
Enhancement	Fever check	FW	.16.03	Now the firmware also supports fever check with PZE-Master IV.
Bugfix	Fever check	FW	.16.03	When activating the status icons by pressing the logo, all images (note, arrows and thermometer) were replaced by the status icons when the fever check function was displayed at the same time. This misbehavior has been corrected in this version.
Change	EVO 4.6 Flexkey Display	FW	.16.03	In EVO 4.6 Flexkey, the background image in the main menu is only displayed with the "big clock" if the "Add main menu page 'big clock" checkmark is also activated in the display designer. Otherwise, the image is displayed without the "big clock" and a separate page with the "big clock" is omitted. The display of date and time in the second line is unaffected.
Optimisation	Common	Studio	.17.01	Update of the used Qt version (5.15.2).
Bugfix	Firmware Update	Studio / DFCom	.17.02	In rare cases, the minimum FW version may be determined incorrectly. The query of the minimum FW version has been corrected in this version.
Bugfix	BIOS Dialog	Studio	.17.03	Extension of the interface definition in the BIOS dialog by the WIFI module Ti - CC3135.
Bugfix	Transponder Configuration Mifare/Legic	Studio / DFCom	.17.03	The RFID methods Mifare and Legic allow access to different sections of the RFID transponders using multiple configuration definitions. The configuration definition to be used for accessing data is chosen when configuring the field function "normal". An error in the Datafox Studio could lead to resetting the chosen configurations in the field functions due to editing the configuration definition. This problem has been corrected – in addition Datafox Studio will inform on usage of a configuration definition should you chose to delete it.



10.4 Released at February 10th 2021

Firmware 04.03.16.04

DatafoxStudioIV 04.03.17.04

DFCom 04.03.17.02

Туре	Aspect	Comp.	.xx.xx	Description of Change or Bugfix
Optimisation	Fever check	FW		If the operating sequence was executing the field function for fever control it could happen that – after the display was switched off – a measurement was performed without switching on the display first. Now the display is switched on first before the measurement.
Bugfix	Fever check	Studio	.17.04	The Datafox Studio could crash when a field function with deactivated fever check was being copied. This problem has been corrected.

10.5 Released at March 3rd 2021

Firmware 04.03.16.05

DatafoxStudioIV 04.03.17.04

DFCom 04.03.17.02

Туре	Aspect	Comp.	.xx.xx	Description of Change or Bugfix
Optimisation	Fever check	FW		After the integration of the fever control for the PZE-MasterIV into the Display Designer, a few optimizations regarding the display were carried out, so that the settings in the Display Designer are now also correctly displayed by the PZE-MasterIV.
Bugfix	Data on Card	FW		Input chains with the "Data on Card" field function caused the input chain to crash. The calculation of the checksum of the data set failed and the RFID card was not written. Data on Card now works again.

10.6 Released at March 18th 2021

Firmware 04.03.16.06

DatafoxStudioIV 04.03.17.05

Туре	Aspect	Comp.	.xx.xx	Description of Change or Bugfix
8	Cellular	FW	.16.06	When entering the PIN in the BIOS menu, a password was requested. Now the PIN is requested directly.
Bugfix	Access Control	FW		When reading 125 kHz RFID cards, a problem with data processing could occur in the access controller. The reader was still reported correctly in the Access Control Overview, but no tag was reported.
Bugfix	Access Control	FW		When displaying access control in the main menu, the message was displayed too briefly. The display duration has now been increased to 2 seconds again.
Bugfix	EVO 4.3	FW		The display of lists and menus was faulty in the EVO 4.3 when the display of the "MasterIV layout" was enabled in the bios. Now the display errors have been fixed.
Optimisation	KYO Oneloc	FW	.16.06	Optimizations for the KYO Oneloc regarding HTTPS communication. The time required for establishing the secure channel has been decreased.



11 Release Version 04.03.17

11.1 Released at March 3rd 2021 Firmware

Firmware 04.03.17.01

DatafoxStudioIV 04.03.17.05

DFCom 04.03.17.05

Туре	Aspect	Comp.	.xx.xx	Description of Change or Bugfix
Enhancement	Fever check	FW		The new WIFI module now supports 5 GHz WIFI networks in addition to the 2.4 GHz. It is available in the devices currently supplied by us, with the exception of the EVO 3.5 Universal and the Timeboy IV. The implementation for these devices is in preparation. The module supports the 802.11 a/b/g/n standards.
Enhancement	RFID reader EVO Intera II with PIN function	FW	.17.01	The PIN keypad for the EVO Intera II is now available. This can be used in all variants:
Enhancement	HTTP(S) data communication - BA	FW	.17.01	The HTTP(S) communication interface has been extended by Basic Authentication as well as functions for initial parameterization (bootstrapping) of devices.
Enhancement	Barcode reader	FW	.17.01	Datafox devices can use both internal and externally connected barcode readers. However, both variants could not be used simultaneously in one device until now. This restriction no longer applies as of the new firmware version 04.03.17. As of version 04.03.17, both the internally installed and the externally connected barcode reader can be used by the user as desired.
Enhancement	Setup	Studio	.17.05	The field function for "fever control" has been made available for the PZE-MasterIV.
Enhancement	Display designer	Studio	.17.05	The images for "fever control" are supported for the PZE-MasterIV.
Enhancement	Display designer	Studio	.17.05	With the EVO 4.6 FlexKey, the main menu image can be activated in the layout as a main page, in addition, the large clock can optionally be displayed in the main menu image.
Change	Timer	FW	.17.01	The timers have been changed to 64 bit structures.

11.2 Released at March 18th 2021

Firmware 04.03.17.02

DatafoxStudioIV 04.03.17.05

Туре	Aspect	Comp.	.xx.xx	Description of Change or Bugfix
Bugfix	Cellular	FW	.17.02	When entering the PIN in the BIOS menu, a password was requested. Now the PIN is requested directly.
Bugfix	Access Control	FW	.17.02	When reading 125 kHz RFID cards, a problem with data processing could occur in the access controller. The reader was still reported correctly in the Access Control Overview, but no tag was reported.
Bugfix	Access Control	FW	.17.02	When displaying access control in the main menu, the message was displayed too briefly. The display duration has now been increased to 2 seconds again.
Bugfix	EVO 4.3	FW	.17.02	The display of lists and menus was faulty in the EVO 4.3 when the display of the "MasterIV layout" was enabled in the bios. Now the display errors have been fixed.



Enhancement	EVO Intera II	FW		When reading Hitag badge, multiple bookings could occur even though the card was still in the field. Now a timeout of 3 seconds has to pass before a new card in the field is reported to the controller.
Optimisation	KYO Oneloc	FW	.17.02	Optimizations for the KYO Oneloc regarding HTTPS communication. The time required for establishing the secure channel has been decreased.

11.3 Released at March 24th 2021

Firmware 04.03.17.03

DatafoxStudioIV 04.03.17.05

DFCom 04.03.17.05

Туре	Aspect	Comp.	.xx.xx	Description of Change or Bugfix
Enhancement	Display-Designer	FW	.17.03	EVO 4.6 FlexKey as well as EVO 4.3 can now display the main screen with or without the "big clock".
Bugfix	Network	FW	.17.03	The network mask was not set correctly when DHCP was disabled, so that the devices possibly did not integrate correctly into the LAN/WIFI.
Enhancement	WIFI	FW	.17.03	The input of SSID and passphrase is now also enabled for devices without touch (AE- and PZE-MasterIV).
Optimisation	WIFI	FW	.17.03	General stability improvements with the new WIFI module.
Change	EVO Intera II	FW		Due to not yet solved sporadic communication problems in the access control bus with version 04.03.17, this firmware release contains revision 04.03.16.03 for the EVO Intera II. This version does not show the communication problems.

11.4 Released at March 31st 2021

Firmware 04.03.17.04

DatafoxStudioIV 04.03.17.05

Туре	Aspect	Comp.	.xx.xx	Description of Change or Bugfix
Bugfix	EVO 2.8 operation	FW	.17.04	The EVO 2.8 no longer responded to keystrokes in certain circumstances. This misbehavior has been corrected.
Bugfix	KYO Oneloc, Data On Card	FW		In previous revisions of 04.03.17, errors could occur when writing RFID-Tags using the field function "Data On Card". This only affected the KYO Oneloc. The error has been corrected and the KYO Oneloc writes correctly to the tag again.
Bugfix	Legic	FW		An error in the configuration of the Legic badges was reported when the device was started. A new configuration was not accepted in this state. With the update, the configuration is executed correctly again.
Bugfix	EVO Intera II	FW		Due to an error in the packet evaluation, the EVO Intera II did not answer all requests from the access controller. As a result, the reader could be marked as "not available on the bus" (status 4). With version 04.03.17.04 this error has been fixed.
Bugfix	Door Module	FW		With previous revisions of 04.03.17, the KYO Oneloc did not forward data correctly to a detached reader. With this version, the communication between door module and detached reader is fixed.
Enhancement	Access Control	FW		The controller recognizes the EVO Intera II as a Datafox Device on the bus. Therefore a Firmware Update can be disturbed using the bus by the controller.
Bugfix	Access Control	FW	.17.04	The Controller might reboot when updating Access Lists. This is now fixed.



11.5 Released at April 14th 2021

Firmware 04.03.17.05

DatafoxStudioIV 04.03.17.05

DFCom 04.03.17.05

Туре	Aspect	Comp.	.XX.XX	Description of Change or Bugfix
Bugfix	Proximity sensor	FW		The parameter "Display off after" could no longer be changed in the BIOS menu. The proximity sensor was deactivated when selecting it. Now the value can also be changed via the device bios again.
Bugfix	IPC – Q7	FW		Under certain circumstances, when starting the setup, it could happen that the adapter board permanently restarted and no more transponders could be processed.
Bugfix	Legic	FW		In rare cases, the device restarted when reading Legic badges. This could only occur when quickly switching between two input chains that were both supposed to read a badge. The restart is now prevented.
Bugfix	EVO Intera II Data on Card	FW		When using the EVO Intera II as an internal transponder reader, the reader could get stuck when writing to badges if the badge to be written to was removed from the reader during the writing process. Only a restart of the EVO Intera II could solve the problem. This error has been corrected.

11.6 Released at April 21th 2021

Firmware 04.03.17.06

DatafoxStudioIV 04.03.17.05

DFCom 04.03.17.05

Туре	Aspect	Comp.	.xx.xx	Description of Change or Bugfix
Bugfix	HID or SimonsVoss	FW		Depending on the device equipment, it could happen that after an update to version 04.03.17 the HID or SimonsVoss transponder reader did not work anymore. The following devices may be affected: EVO 4.3, EVO 4.6, AE- and PZE-MasterIV. The problem has been fixed and the transponders can now be read again.
Optimisation	Fever check	FW		During fever control, after a measurement in which the repeat question was displayed, there was a permanent wait for the user's input. If this did not occur before the display was automatically switched off, the device was in a state that could not be recognized by the user. To achieve a defined state, the query is automatically ended after the repetition after approx. one minute and the measured temperature value is transferred to the data record.
Enhancement	TWN4	FW		SmartMX badges emulating a Mifare Classic chip can now also be processed with the TWN4. These badge types are now accepted in the transponder setup for Mifare Classic.

11.7 Released at April 28th 2021

Firmware 04.03.17.07

DatafoxStudioIV 04.03.17.05

Туре	Aspect	Comp.	.xx.xx	Description of Change or Bugfix
Bugfix	Salto transponder reader	FW	.17.07	The terminal did not correctly process the data received via the clock data interface. This misbehavior has been corrected.
Optimization	Mobile (MC55i-W)	FW	.17.07	Optimisations when restarting the mobile modem and display of the mobile status icon.



11.8 Released at May 6th 2021

Firmware 04.03.17.08

DatafoxStudioIV 04.03.17.05

DFCom 04.03.17.05

Туре	Aspect	Comp.	.xx.xx	Description of Change or Bugfix
Bugfix	Access Control	FW		If the EVO Intera II is used as a pure PIN reader without built-in transponder method, this was reported in the access control with status "7" (Module RFID reader type is wrong). The reader is now correctly recognized and pin entries are evaluated.
Bugfix	EVO Intera II	FW		When initializing the touch controller for the EVO Intera II, an error could occur during startup, which meant that touch inputs could no longer be evaluated. The startup process has been adjusted so that the touch controller is now initialized correctly.
Enhancement	Systemlog	FW	.17.08	The output of the regular twelve-hour system log was expanded to include the access control statistics.

11.9 Released at May 19th 2021

Firmware 04.03.17.09

DatafoxStudioIV 04.03.17.05

DFCom 04.03.17.05

Туре	Aspect	Comp.	.xx.xx	Description of Change or Bugfix
Enhancement	KYO Cenloc	FW	.17.09	Support for board revision 1.2 added.
Bugfix	KYO Cenloc	FW	.17.09	In the bios menu of the KYO Cenloc, the menu for setting the display orientation was no longer displayed. This has been corrected.
Bugfix	EVO 3.5 Universal	FW		After a setup was transferred to the EVO 3.5 Universal, no RFID tag value could be read. After a restart, the correct value was then read. This has been corrected.
Change	Access Control	FW		EVO Intera II access readers signaled the detection of a card in the field by flashing of the white backlight. In case of a successful clocking, the flashing was still displayed after the clocking. Since the status LED already signaled the card's presence, the flashing of the backlight was removed.

11.10 Released at June 10th 2021

Firmware 04.03.17.10

DatafoxStudioIV 04.03.17.06

Type	Aspect	Comp.	XX XX	Description of Change or Bugfix
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				devices
Optimization	KYO Cenloc	FW	.17.10	By optimizing the processing of data from the access control, the response time of the KYO Cenloc could be improved.
Bugfix	KYO Cenloc	FW	.17.10	When using radio locking cylinders on buses 5 to 16, it could happen that readers were lost in all buses if bookings were made at the radio locking cylinders by badge. The reaction time of the KYO Cenloc was very long in this case for a short time, because the affected readers had to be searched and configured again. This problem could be solved.
Bugfix	KYO Cenloc	FW	.17.10	In some cases it could happen that the KYO Cenloc performed a restart if several signalizations were to be performed by a ZK reader. This misbehavior has been corrected.
Optimization	Access Control	FW	.17.10	In rare cases, the evaluation of incorrect received data caused an invalid assignment to be assumed in an access bus (PHG together with U&Z). The check for the received data was made more robust to eliminate this problem.
Bugfix	Access Control	FW	.17.10	When reading out the status of the access modules, modules were not displayed that were in the list and were not found in the bus. Now the devices are reported correctly with status 4 again.
Enhancement	Access Control	FW	.17.10	The baud rate of the EVO Intera II can be changed by the system variable "com.access_control.baudrate".
Bugfix	LAN, Passive- Mode	FW	.17.10	Under certain circumstances, the devices are no longer accessible from the server. This error behavior has been corrected.
Bugfix	HID in EVO2.8 / EVO3.5	FW	.17.10	Depending on the device equipment it could happen that after an update to version 04.03.17 the HID transponder reader did not work anymore. The problem has been fixed and the transponders can now be read again.
Enhancement	Firmware	Studio / DFCom	.17.06	Support of firmware version 04.02.06 (specifically TimeboyIV).

11.11 Released at June 21th 2021

Firmware 04.03.17.11

DatafoxStudioIV 04.03.17.06

DFCom 04.03.17.06

Туре	Aspect	Comp.	.xx.xx	Description of Change or Bugfix
Bugfix	New WiFi module	FW	.17.11	After manually entering the passphrase in the device bios, the new WiFi module may not connect to the network. This error has been corrected.
Bugfix	LAN (device bios)	FW	.17.11	The listen port associated the LAN configuration could not be changed in the device bios. Despite entering a different value, it ended up back at 8000.
Bugfix	Fingerprint	FW	.17.11	Under certain circumstances the fingerprint module could no longer function in the EVO 2.8 or EVO 3.5. This error has been corrected.
Change	LAN (device bios)	FW		If a device was set to a LAN communication, used a static IP address and no LAN cable was plugged or no link was present, IP address, netmask and gateway were not displayed in the device BIOS – the link status was displayed as "no link" instead. The link state is shown as a separate entry in the BIOS menu now not hiding the static network configuration anymore. In addition, the activate transmission mode (full or half duplex) as well as the active transmission speed (10 or 100 Mbit) are shown.

11.12 Released at July 14th 2021

Firmware 04.03.17.12

DatafoxStudioIV 04.03.17.06

Туре	Aspect	Comp.	.xx.xx	Description of Change or Bugfix
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Bugfix	Access Control	FW	.17.12	After a data check in the access control, the memory required for the comparison was not released again under certain circumstances. This resulted in the internal memory running out with increasing operating time and the device no longer being accessible via communication and access bookings also being rejected. This is now corrected.
Bugfix	Access Control	FW	.17.12	If more than one bus was connected to the controller. An Update might abort, before every reader was updated. This is now fixed.
Bugfix	Access Control	FW	.17.12	During the search for new readers, a bad Packet might be returned on the bus by a reader attached to a KYO Oneloc. This can lead to communication errors on the bus.
Bugfix	Access Control	FW	.17.12	The http command "df_trigger_ac2" did not work and sporadically caused the device to restart. Now the virtual booking is executed correctly.
Bugfix	Fingerprint line sensor	FW	.17.12	When reading a finger template from an RFID card with subsequent verification, the scan of the finger was sporadically skipped. The comparison was then made with the last finger scanned. This error has now been corrected.
Bugfix	http file upload	FW	.17.12	Due to a processing error, a device restart occurred after a file upload via HTTP. The error has now been corrected and the unit no longer restarts.
Optimization	New WiFi module	FW	.17.12	Optimizations in the WIFI area to maintain a more stable connection to the access point.

11.13 Released at July 21th 2021

Firmware 04.03.17.13

DatafoxStudioIV 04.03.17.06

DFCom 04.03.17.06

Туре	Aspect	Comp.	.xx.xx	Description of Change or Bugfix
Bugfix	Fingerprint, optical sensor	FW		Reading finger templates from a badge, as well as writing finger templates to a badge could fail in some constellations. The problem has been fixed and the templates are now reliably read and written.
Change	Bios, lan parameters	FW		Since the LAN must be active to configure the LAN parameters, settings could not be adjusted in the Start BIOS menu. The option has now been removed from the Start BIOS. This safely avoids operating errors.
Bugfix	EVO 3.5 Universal	FW	.17.13	With the EVO 3.5 Universal, connection problems could occur when using the WIFI interface. This is now corrected.
Optimization	EVO Intera II	FW		Switching the baud rate in EVO Intera II by means of DFCom could fail with non-configured readers. This has been improved so that switching the baud rate works reliably regardless of the state of the readers.
Bugfix	http	FW	.17.13	When sending http messages, an error could occur when checking the configured timeout. If this occurred, a timeout error was reported immediatly and the message was resent. This version fixes this behavior.

11.14 Released at July 28th 2021

Firmware 04.03.17.14

DatafoxStudioIV 04.03.17.06

	Туре	Aspect	Comp.	.xx.xx	Description of Change or Bugfix
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Enhancement	Bootloader-Update	FW		The Datafox devices have a bootloader, which can run as a separate firmware on the device. With this extension it is now possible to update the bootloader via the release firmware with a special update file, which can be requested via Datafox support. However, this update is only really necessary in individual cases where there are, for example, problems in connection with the startup behavior of the device. Updating the bootloader is not always necessary.
Bugfix	WIFI	FW		When switching the main communication to WIFI via the BIOS Menu on the Device, a reboot could occur. This only affected the WIFI Module RS9110. This version corrects the behavior and no reboot occurs.
Optimization	Cellular (BG96)	FW	.17.14	When using data-only SIM cards, errors could occur when connecting to 4G networks. With this version the connection is established correctly.

11.15 Released at August 4th 2021

Firmware 04.03.17.15

DatafoxStudioIV 04.03.17.06

DFCom 04.03.17.06

Туре	Aspect	Comp.	.xx.xx	Description of Change or Bugfix
Optimization	Image storage	FW		In some cases, it could happen that camera images could not be read out from the device when they were searched for by their names. The readout of all images was not affected by this. In this case, optimizations were made when searching for the images, so that all existing images in the image memory can now also be found.
Optimization	List processing	FW		In long, sorted lists, the search for an entry could take different lengths of time when a sort column was applied to the list - depending on the position of the entry in the list. With the help of the implemented optimizations, the times for searching for entries could be reduced, in some cases significantly.
Optimization	Access Control	FW	.17.15	The communication of the readers or door modules with the controller has been optimized. The sporadic errors during transmission no longer occur.
Bugfix	Fingerprint	FW		The Saturn fingerprint module could sporadically cause communication errors, so that fingers could no longer be identified. With the version 04.03.17.15 this is now fixed.

11.16 Released at August 12th 2021

Firmware 04.03.17.16

DatafoxStudioIV 04.03.17.06

Туре	Aspect	Comp.	.xx.xx	Description of Change or Bugfix
Optimization	Access Control	FW	.17.16	During communication with a detached reader, individual data was sporadically lost and then resent. These losses no longer occur.
Optimization	Cellular (BG96)	FW	.17.16	In rare instances, there could be a delay in the startup phase when restarting with the BG96 mobile radio module. Adjustments to the restart procedure ensure a faster restart.
Bugfix	Setup	FW	.17.16	Setting the clock could in some cases cause timers not to trigger correctly. This has now been fixed.
Bugfix	Setup	FW	.17.16	With the PZE and AE MasterIV, the stored confirmation field texts were not displayed. The problem has been solved, the texts are displayed again.
Enhancement	Lists	FW	.17.16	The list functions could previously handle a maximum of 65535 list lines. This limit no longer exists. Larger lists, provided they fit in the memory, could now also be processed.
Bugfix	Fever control	FW		After starting a device with the fever control option, it could happen that the sensor for fever control could not be found and therefore could not be used. The search for the sensor for fever control has been improved so that it is now always found.



11.17 Released at August 25th 2021

Firmware 04.03.17.17

DatafoxStudioIV 04.03.17.06

DFCom 04.03.17.06

Туре	Aspect	Comp.	.xx.xx	Description of Change or Bugfix
Bugfix	Timeboy- Processing	FW	.17.17	With devices to which an external docking station may be attached, it could happen that the docking station was not found using the RS232 interface. Accordingly, the Timeboys in the slots could not be accessed. With this bugfix finding the externally connected docking station was corrected.
Optimization	Cellular (BG96)	FW	.17.17	The network registration behavior with SIM cards supporting multiple operators has been improved.
Bugfix	Fingerprint/http	FW		When transmitting fingerprint templates using http, errors could occur, which resulted in the cancellation of the data transfer. With this version, the errors are fixed.
Optimization	Fingerprint	FW		When performing the first fingerprint identification after a reboot, there could be a delay of a few seconds. With this release, this delay no longer occurs.

11.18 Released at September 16th 2021

Firmware 04.03.17.18

DatafoxStudioIV 04.03.17.06

DFCom 04.03.17.06

Туре	Aspect	Comp.	.xx.xx	Description of Change or Bugfix
Bugfix	WIFI BIOS Menu	FW		Under certain circumstances devices with built-in RS9110 module could restart when searching for WIFI networks in the BIOS menu. These restarts don't occur anymore with this version.
Bugfix	LAN	FW	.17.18	After 50 days of operation it could occur that commands being sent using the Ethernet interface were not processed by the device any more. This behavior was corrected.
Bugfix	Access Control	FW		Errors during the communication between a door module and its detached RFID reader could result in transponder data not being transferred to the access controller correctly. This has been corrected.
Optimization	Proximity sensor	FW	.17.18	Interaction with the touch screen could lead to delayed operation on devices with proximity sensor. This behavior has been optimized.
Bugfix	Access Control	FW		With the KYO Oneloc – if operating as a door module – the assignment of the access control status codes to level changes of digital inputs was not correct. The assignment has been corrected so that the appropriate status messages are now created.

11.19 Released at October 6th 2021

Firmware 04.03.17.19

DatafoxStudioIV 04.03.17.06

1	Гуре	Aspect	Comp.	.xx.xx	Description of Change or Bugfix
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Enhancement	Fingerprint	FW	.17.19	The administration menu for the Saturn fingerprint is now also available for the AE-Master (colour display only).
Optimization	Transponder reader	FW	.17.19	Sensitivity against external interference while using the TS-R32 has been increased so that incorrectly recognized badges are no longer evaluated.
Bugfix	Cellular, BG96	FW	.17.19	With certain SIM cards it could happen that the device stopped while querying the PIN code. With this version this was corrected.
Bugfix	USB	FW	.17.19	During communication via USB, transmission errors could occur. Only a restart of the device fixed this error. This has now been corrected.
Enhancement	Setup	FW	.17.19	The script function "Reverse" has been added. This rotates a string, e.g. calling Reverse ("%V1") rotates the content of the global variable 1 ("1234" -> "4321").

11.20 Released at October 13th 2021 Firmware 04.03.17.20 DatafoxStudioIV 04.03.17.06 DFCom 04.03.17.06

Туре	Aspect	Comp.	.XX.XX	Description of Change or Bugfix
Bugfix	KYO Cenloc	FW		With the KYO Cenloc, a device restart could occur under certain circumstances if a door module was removed from a bus. The cause for the device restart could be eliminated.
Bugfix	Cellular, BG96	FW	.17.20	With certain SIM cards with deactivated PIN it could happen that the device stopped in status 8. With this version, this is now fixed.
Optimization	WIFI	FW		The device was very slow when switching the main communication from WIFI to another communication method. Touch inputs were sometimes not processed. This slow behavior no longer occurs with this version.
Enhancement	Cellular	FW		The system variable "mobile.rssi" has been added. This can be used to query the signal quality of the device. The value is given in decibel milliwatts (dBm). If the value cannot be determined, "unknown" is returned.

11.21 Released at October 27th 2021 Firmware 04.03.17.21 DatafoxStudioIV 04.03.17.06 DFCom 04.03.17.06

Туре	Aspect	Comp.	.xx.xx	Description of Change or Bugfix
Enhancement	KYO Cenloc	FW	.17.21	Support for hardware revision 1.2.
	Hitag 1 - Feig transponder method	FW		The Hitag 1 - Feig transponder method has been added to the two access variants "Access check possible in the main menu" and "Perform access check before processing the input sequence", which enable access checking via the terminal.

11.22 Released at November 12th 2021 Firmware 04.03.17.22 DatafoxStudioIV 04.03.17.06 DFCom 04.03.17.06

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Optimization	U&Z locking units	FW		Optimization of the control of U&Z locking units in the event of a badge not being authorized for access. In this specific case, the radio connection was terminated automatically by the locking unit if it did not receive the corresponding command to terminate the connection via the radio module.
Bugfix	Setup	FW	.17.22	In the script function "BinToHex", errors could occur when converting strings with more than 32 characters. This error is now corrected.
Bugfix	Access Control	FW	.17.22	In the PHG bus transmission errors could occur trigger a reboot of the controller. These communication errors have now been fixed.

11.23 Released at November 17th 2021

Firmware 04.03.17.23

DatafoxStudioIV 04.03.17.06

DFCom 04.03.17.06

Туре	Aspect	Comp.	.xx.xx	Description of Change or Bugfix
Bugfix	Access Control	FW		In the access control, errors could occur in the bus communication in the controller, as a result of which the readers no longer responded to badge data. The behavior could be corrected by a restart only prior this version. With this version, this error is now corrected.
Bugfix	RFID	FW		An error could occur during the processing of the internal transponder reader, as a consequence transponder data was no longer read. The problem could only be solved by a restart. With this version this is fixed.
Enhancement	Access Control	FW	.17.23	When the Controller in an access bus is rebooted, a restart command is sent to all devices defined in the reader list.
Enhancement	Access Control	FW	.17.23	When connected in an access bus, the EVO Intera II restarts if the data are not retrieved by the controller within 15 seconds in access control mode.
Optimization	Access Control	FW		Under certain circumstances it could happen that the internal memory used by the access controllers ran out and thus the device executed a deliberate restart. This problem could be eliminated.

11.24 Released at December 21st 2021

Firmware 04.03.17.25

DatafoxStudioIV 04.03.17.06

Туре	Aspect	Comp.	.xx.xx	Description of Change or Bugfix
Bugfix	KYO Cenloc	FW		Under certain circumstances, it could occur with the KYO Cenloc that its door module was specified instead of the stitch reader in status data records that referred to the inputs. This incorrect information could be corrected.
Enhancement	Access Control	FW		The access control settings can be used to define a time from which an alarm status record is triggered if a door is open for longer than specified. This feature has previously only been used with ZK bus participants. With this version, alarm status data records are also generated when the inputs are located at the ZK controller.
Bugfix	Access Control	FW		Reverting "Blocked Access (BLA)" was – despite a privileged RFID card – not possible. This has been corrected and the RFID card is not rejected with reason 19 anymore.
Enhancement	Main communication	FW	.17.25	Extensions to the device log were made in order to have the changeover of the main communication on the devices traceable.
Enhancement	Transponder method Hitag1 - Feig	FW		When checking for the company code, until now only those badges were supported whose company code was located from the first position of the Feig data. With this extension it is now possible that the company code can also be in the middle of the Feig data.
Bugfix	Access Control	FW	.17.25	With the GIS readers, authentication with an ID card and an additional pin entry was no longer possible. This error has been corrected.



12 Release Version 04.03.18

12.1 Released at November 26th 2021 Firmware 04.03.18.01 DatafoxStudiolV 04.03.18.02 DFCom 04.03.18.02

A detailed description of the functional enhancements can be found in our <u>software companion booklet</u>.

Туре	Aspect	Comp.	.xx.xx	Description of Change or Bugfix
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				devices
Enhancement	Transponder reader	FW / Studio	.18.01	RFID combination reader with Mifare + Legic + 125 kHz, which supports very many RFID processes (also simultaneously). This is preconfigured to the RFID processes to be read and represented in DatafoxStudioIV by the transponder type "Preconfigured reader". Further information can be taken from the associated info sheet.
Enhancement	Multi-Input	FW / Studio	.18.01	Input possibility of personalized data via different sources / methods (keyboard, transponder reader, fingerprint and barcode) enabled. This enables the simultaneous use of different input and identification methods via the "Multi-Input" field function, without selecting the method via a keystroke.
Enhancement	Booking possible at any time	FW	.18.01	Fixed waiting times often lead to a message being shown on the display longer than the user of the terminal is present. The next user either had to wait until the message disappeared from the display or "push it away". With the extension "Booking possible at any time", the terminal accepts an identification even if the feedback for the previous user is still shown on the display. This significantly speeds up the booking process at the terminal, especially at peak times. The prerequisite here is the use of a single input chain that enables fast booking at the device.
Enhancement	Large barcode data	FW / Studio	.18.01	In order to be able to capture larger barcode data, such as the current corona vaccination certificate, the new "Read long barcode" option and field function have been added. These allow barcodes with a maximum size of 1000 characters to be read and saved in the device as a data file.
Enhancement	Permanent opening for U&Z components	FW	.18.01	When using U&Z radio door components, two options are now available for the (time-limited) permanent opening of doors - this is typically used during office hours to realize a familiar, transponder less opening behavior with the door fitting. You can now choose between the "online" mode, in which the permanent opening is first checked online when the door fitting is actuated, or the "locked" mode, in which the door fitting opens immediately like a mechanical fitting.
Enhancement	KYO Inloc as door module	FW	.18.01	The KYO Inloc can now also be used in the access bus as a door module - like the KYO Oneloc. Door module means that the KYO Inloc is used as a slave in the access bus. By the possibility to select the modules freely, the user can determine the number of inputs and outputs, as well as a possible stub reader. Details can be found in the corresponding <u>info sheet</u> . New application scenarios, such as the control of locker locks, can thus be realized.
Enhancement	Proximity and ambient light sensor	FW	.18.01	Proximity and ambient light sensor support on the EVO 4.3 and EVO 4.6. The extension serves to protect the display and save power at the same time.
Enhancement	Datafox-Active- Light (DAL)	FW / Studio	.18.01	Firmware support for lighting settings and Datafox-Active-Light on EVO Intera II. The DatafoxStudioIV offers a configurator to define the device behavior and the lighting settings for the EVO Intera II. This allows the customer-specific parameterization of the access reader.
Enhancement	EVO Intera II with integrated barcode scanner	FW	.18.01	The EVO Intera II with integrated barcode scanner for scanning 2D barcodes (maximum 20 characters) for access control is now supported.
Enhancement	Digital output modules (4x)	FW / Studio	.18.01	Two digital output modules are now supported. One allows switching its four outputs to GND (module 105) and the other to +12V (module 51) - e.g. for connecting electric locks or a signal lamp.
Enhancement	Datafox-specific phg_crypt protocol extensions	FW	.18.01	This extension serves our customers who use their own ZK controllers and have implemented the phg_crypt protocol themselves. The extensions offer the possibility to control e.g. significantly more outputs or the Datafox-Active-Light (DAL).
Enhancement	EVO 5.0 Pure	FW / Studio	.18.01	Support for the new EVO 5.0 Pure device.
Bugfix	WIFI-Config	Studio	.18.02	Loading faulty WIFI configuration files could cause the application to crash.
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12.2 Released at December 10th 2021

Firmware 04.03.18.01

DatafoxStudioIV 04.03.18.03

DFCom 04.03.18.03

Туре	Aspect	Comp.	.xx.xx	Description of Change or Bugfix
Bugfix	Setup	Studio	.18.03	When changing the configuration pages of the field functions, a changed ESC jump marker of the extension page was reset.
Bugfix	Setup	Studio		A cropping function that was set, led to the file name being cropped, when the field function was changed to "Read long barcode". As the extension page is not available for this field function, the cropping function cannot be deactivated and is now automatically reset.

12.3 Released at January 11th 2022

Firmware 04.03.18.02

DatafoxStudioIV 04.03.18.04

Туре	Aspect	Comp	XX.XX	Description of Change or Bugfix
Bugfix	KYO Cenloc	FW	.18.02	Under certain circumstances, it could occur with the KYO Cenloc that its door module was specified instead of the attached reader in status data records that referred to the inputs. This incorrect information could be corrected.
Enhancement	Access Control	FW	.18.02	The access control settings can specify a duration for creating an alarm status record if a door's opening period exceeded the duration. This feature could be used only with access control bus participants previously. With this version, alarm status records are also generated when the inputs are located at the access controller.
Bugfix	Access Control	FW	.18.02	Reverting "Blocked Access (BLA)" was – despite a privileged RFID card – not possible. This has been corrected and the RFID card is not rejected with reason 19 anymore.
Enhancement	Main communication	FW	.18.02	Extensions to the device log were made in order to document changes to the main communication.
Enhancement	Transponder method Hitag1 - Feig	FW	.18.02	When checking for the company code, until now only those badges were supported whose company code was located from the first position of the Feig data. With this extension it is now possible that the company code can also be in the middle of the Feig data.
Bugfix	Access Control	FW	.18.02	With the GIS readers, authentication with an ID card and an additional pin was no longer possible. This error has been corrected.
Bugfix	Barcode	FW	.18.02	When reading barcodes with the internally installed barcode reader EM3296, delays could occur when starting the reading process. This is now fixed.
Bugfix	Communication Cellular BG96	FW	.18.02	When opening a socket in mobile communications, an error could occur so that no connection could be established. The problem could only be solved by restarting. In this version the problem has been fixed.
Bugfix	Legic	FW	.18.02	Reading Legic badges could cause the device to crash in rare cases. With this version, the behavior is now fixed.
Optimization	Setup	Studio	.18.04	In the setup dialogue the segment with the UID is marked with a corresponding label for the 125 kHz transponders.
Bugfix	Device update	DFCom	.18.04	When updating the docking station / vehicle data logger, a wrong firmware version was transferred for older circuit boards, which led to a non-functional device.



12.4 Released at January 24th 2022

Firmware 04.03.18.03

DatafoxStudioIV 04.03.18.05

DFCom 04.03.18.05

Туре	Aspect	Comp.	.xx.xx	Description of Change or Bugfix
Change	Main communication	FW	.18.03	In case of an incorrect configuration of the devices regarding the main communication, this was previously reset to USB. Now the device is scanned for other communication options. The priorities are as follows: LAN, WIFI, mobile radio, RS485, USB.
Bugfix	Cellular	FW	.18.03	When connecting in active mode, mobile devices could be disconnected. With this version these aborts have been fixed.
Bugfix	Cellular, MC55	FW		Problems could occur with the MC55 cellular module when dialing into the cellular network. In this case, the device could not connect to the Internet and then stopped in status 41. With this version, the misbehavior has been corrected.
Change	Access control	FW		When reading the serial number of a Mifare Ultralight badge, the value was reported in rotated order. With this version, the reported barcode matches that of the terminal.
Enhancement	Barcode	FW	.18.03	During barcode reading, delays occurred when starting the internal barcode reader. This delay time has now been reduced.
Bugfix	Access control	Studio	.18.05	The setting of the master ID via the access control settings dialogue was not carried out correctly.
Enhancement	Communication	Studio	.18.05	The system variables COM.HTTP_MODE[0:1].SEND_IFF for determining the storage location of data files have been included in the dialogue of the communication variables.

12.5 Released at February 10th 2022

Firmware 04.03.18.04

DatafoxStudioIV 04.03.18.06

		Туре	Aspect	Comp.	.xx.xx	Description of Change or Bugfix
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Bugfix	KYO Cenloc	FW	.18.04	For the devices with access control, statistics on RS485 bus communication is gathered by the device. With the KYO Cenloc these statistics were not computed correctly. The problem has been solved with this version.
Optimization	Access control	FW	.18.04	By optimizing the data management during the execution of a ZK-Bus update, a more stable and faster update behavior could be achieved. This is particularly noticeable in the KYO Cenloc.
Enhancement	EVO3.5-Universal	FW Studio	.18.04 .18.06	The functionality of the EVO3.5-Universal has been extended to read the serial number of HitagS badges. For security reasons, reading of additional segments is not permitted.
Enhancement	Transponder reader	FW Studio	.18.04 .18.06	For the RFID combination reader with Mifare + Legic + 125 kHz, which must be set in DatafoxStudioIV as transponder type "Preconfigured reader", access control was provided to a minor extent. Further information can be found in the associated info sheet.
Enhancement	http	FW	.18.04	Data from the file memory can now be sent automatically to a WEB server - analogously to the data records. Here, the system variable "com.http_mode[n].send_iff" specifies the path at the server where the files are to be sent. Please refer to the http_documentation for more details.
Change	http	FW	18.04	Change in the http flags: The value of the flag 0x04 is ignored from now on.
Enhancement	http	FW	18.04	New http flag 0x10. If the flag is set to '1', the http requests are generated in the "absoluteURI" form. If this flag is not set, "absoluteURI" is used when communicating with an proxy server, otherwise "abs_path" is used.
Enhancement	https	FW	18.04	If no host is entered for the SNI in the configuration, the 'normal' host is automatically stored for it.
Enhancement	http	FW	18.04	Basic Authentication" was previously only possible when sending data records. Now this type of authentication can also be used when updating, if necessary.
Enhancement	Barcode reader	FW	18.04	Reading XL barcodes is now also possible for EVO 4.6 FlexKey and EVO 3.5-Universal with integrated 2D barcode scanner.
Enhancement	http	FW	18.04	The http header has been extended by the entry "User-Agent". This is now delivered with the following content: "User-Agent: Datafox/ <firmware-version> <device-type-id>.<serial-number>".</serial-number></device-type-id></firmware-version>
Bugfix	Proximity sensor	FW	18.04	In connection with the 125kHz reader (Unique, Hitag, etc.) it could happen that after switching off the display by the proximity sensor the transponder reader did not read any more badges. This problem has been solved.
Enhancement	WIFI	FW	18.04	If the "Automatic selection of configuration" mode is active, a network change in the WIFI bios is only possible on a test basis, as the device then automatically reconnects to the network with the greatest signal strength. To make this clearer to the user, an "a" is now displayed in front of the SSID in the list before the automatically selected network.
Enhancement	Touch	FW	18.04	Another status icon has been added for devices with touch. Either a "c" for capacitive or an "r" for resistive touch. When touching the touch, the icon is displayed inverted. This makes it easier to see whether the touch has detected a touch or not.

12.6 Released at February 14th 2022

Firmware 04.03.18.05

DatafoxStudioIV 04.03.18.06

7	Гуре	Aspect	Comp.	.xx.xx	Description of Change or Bugfix
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Bugfix	http	FW	.18.05	Due to an error in http communication, there was a high probability of device restart when sending records to the server. This problem has been fixed.
Bugfix	https	FW		If no SNI was specified for https and an IP was stored for the server instead of a host name, a certificate error occurred when establishing a connection to the server. The connection was therefore not established. This error has been fixed.
Bugfix	http	FW	.18.05	If the key-value pair "kvp=relais" was specified in the http response without further parameters and at least one additional KVP followed, both value pairs were returned with "unknown". This problem has been corrected.

12.7 Released at February 23th 2022

Firmware 04.03.18.06

DatafoxStudioIV 04.03.18.06

DFCom 04.03.18.06

Туре	Aspect	Comp.	.XX.XX	Description of Change or Bugfix
Bugfix	https, cellular	FW	.18.06	The negotiation of an https connection via mobile could fail. As a result, data records were not sent. The connection will now be established correctly.
Bugfix	Access control	FW		Barcodes read by the EVO Intera II were evaluated incorrectly by the controller starting at version 04.03.18.01. This resulted in interfering characters. With this version, the behavior is now corrected.

12.8 Released at March 3rd 2022

Firmware 04.03.18.07

DatafoxStudioIV 04.03.18.06

DFCom 04.03.18.06

Туре	Aspect	Comp.	.xx.xx	Description of Change or Bugfix
Bugfix	Access control	FW	.18.07	The teach-in of U&Z locking units was no longer possible due to a communication problem with the radio module. This problem could be solved.
Bugfix	System messages	FW		When sending finger templates to a web server, system messages were no longer generated. The problem is fixed and the messages are generated again.

12.9 Released at March 15th 2022

Firmware 04.03.18.08

DatafoxStudioIV 04.03.18.06

Туре	Aspect	Comp.	.xx.xx	Description of Change or Bugfix
Bugfix	AE-, PZE-MasterIV	FW		Under certain circumstances, PZE and AE masters with integrated USB host interface could no longer start after the firmware update. The problem has been solved and the devices are working properly again.
Bugfix	Setup, Write list field	FW		When appending a record to an existing list, the content of the GV was not copied into the new entry. With this version the content of the GV is now correctly copied into the new list entry.
Bugfix	Online AC	FW		If the command to switch the relay in the EVO Intera II was sent by the online Access Control, the relay did not switch in the reader. With this version the relay is switched correctly again.



13 Release Version 04.03.19

13.1 Released at March 15th 2022

Firmware 04.03.19.01

DatafoxStudioIV 04.03.19.01

DFCom 04.03.19.01

Туре	Aspect	Comp.	.xx.xx	Description of Change or Bugfix
Enhancement		FW Studio	.19.01 .19.01	The new backlight module 107 is now supported by the firmware.
Bugfix	Setup	Studio	.19.01	When copying input chains via drag&drop, the program could crash. This bug has been corrected.
Bugfix	Touchkey	Studio	.19.01	When editing a touch configuration of the EVO 5.0 Pure, no keyboard image could be selected. Choosing a keyboard image is now possible.

13.2 Released at March 23th 2022

Firmware 04.03.19.02

DatafoxStudioIV 04.03.19.01

DFCom 04.03.19.01

Туре	Aspect	Comp.	.xx.xx	Description of Change or Bugfix
Enhancement	EVO 3.5-Universal	FW	.19.02	In EVO 3.5-Universal, a bitmap can now be displayed instead of text in the "Confirmation" and "Show message" field functions.

13.3 Released at March 30th 2022

Firmware 04.03.19.03

DatafoxStudioIV 04.03.19.01

DFCom 04.03.19.01

Туре	Aspect	Comp.	.xx.xx	Description of Change or Bugfix
Enhancement	http	FW		If the system variable "com.http_mode[].send_iff" is configured incorrectly, a system message is now being created and reported to the server. In addition, an entry is written to the device's system log.
Bugfix	Access Control	FW		In some cases, the backlight of the reader was switched off when resetting the "always open" signaling on the reader. The functionality of the reader was not affected. The backlight of the reader is now set to white again.

13.4 Released at April 13th 2022

Firmware 04.03.19.04

DatafoxStudioIV 04.03.19.02

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T	vpe	Aspect	Comp.	.XX.XX	Description of Change or Bugfix
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				devices
Enhancement	Touch	Studio	.19.02	In the future EVO 3.5 Pure devices may be ordered with capacitive or resistive touch screens. Both options are now supported by Datafox Studio.
Bugfix	Setup	Studio	.19.02	Opening and converting an old setup (04.01.07) could lead to problems under certain conditions.
Optimization	Access control	Studio	.19.02	The configuration dialog for the KYO Oneloc has been optimized in its appearance; it now provides the configuration options depending on the installed modules.
Optimization	Bios-Dialog	Studio	.19.02	Reading the system variables via the Bios dialog can now be triggered directly with the Enter key.
Bugfix	KYO Oneloc	FW	.19.04	In order to make e.g. the DataOnCard-Option accessible again, the KYO Oneloc may now be configured to be a "transponder reader for the device control".
Bugifx	Barcode	FW	.19.04	The use of the barcode reader in the KYO Oneloc (module no. 52) resulted in an error during initialization. As a result, barcodes could not be read. With this release this is fixed.
Bugfix	Q7 Android	FW	.19.04	When using the COM bridge on an Android IPC, communication errors with the embedded module could occur under certain circumstances. This is corrected with this release.
Bugfix	Access control	FW	.19.04	When undoing a booking using the time model, the elpase time "-1" was ignored - only "STD" was accepted. "-1" and "STD" are both handled again with this release.
Optimization	Fingerprint	FW	.19.04	PZE Master IV devices with optical fingerprint sensor could sporadically report communication errors with the fingerprint module during startup, even though it was working correctly afterwards. With this version, the error message is no longer displayed when the fingerprint is working.

13.5 Released at May 25th 2022

Firmware 04.03.19.07

DatafoxStudioIV 04.03.19.03

Туре	Aspect	Comp.	.xx.xx	Description of Change or Bugfix
Optimization	CWC / CWR	Studio	.19.03	During transfer of Wiegand configuration data to a KYO Oneloc device the Datafox Studio now checks, if the configuration is consistent with the Wiegand hardware modules in the device.
Bugfix	Active-Mode	DFCom	.19.03	With the function DFCBindDeviceToChannel, binding a device of type EVO 5.0 Pure was not possible. This has been corrected.
Enhancement	Touch	FW	.19.05	Few EVO 4.3 devices showed touch interaction problem after few days of operation time. Starting with this version, the touch controller is being restarted at 01:01 during the night.
Enhancement	IPC – Q7	FW	.19.05	IPCs support two new digital output modules. Module 105 allows switching the output to Ground, Module 51 switches the output to +12V, e.g. for connecting electronic locks or a signaling light.
Enhancement	http	FW	.19.05	If an http record could not be delivered for a duration longer than configured by <com.idle> system variable, the LAN or WLAN interface is reinitialized to prevent possible communication problems.</com.idle>
Enhancement	EVO Intera II	FW	.19.05	The blue status LED may now be used to signal the touch detection for analysis purposes. The LED makes all recognized touches traceable - this makes touch inputs with the EVO Intera II observable.
Bugifx	List selection	FW	.19.06	If a selection was made with the key field and another field in a list table, it could happen that valid entries were not found. With this version, all valid entries are now selected.



Туре	Aspect	Comp.	.xx.xx	Description of Change or Bugfix
Optimization	Access control	FW	.19.05	Optimizations have been introduced for the transfer of updates to bus devices via the access bus. This means that updates can now also be transferred more reliably to bus devices with firmware versions lower than 04.03.17.21.
Enhancement	Access control	FW	.19.05	The status output of the access control (system variable "access.state") has been extended. In addition, the states of the inputs and outputs as well as sabotage are displayed now. It is also shown whether "free access" or "blocked access" is signaled at a reader.
Bugfix	Access control	FW	.19.06	Using time automation, it was only possible to control up to 2 relays per bus device. With respect to e.g. the KYO Inloc's door module operation mode, this behaviour has been corrected so that all relays of the bus device may be controlled now.
Enhancement	EVO Intera II / PIN	FW	.19.06	In rare cases, faults in the installation environment could cause the touch screen to operate less precise during pin entry. As a preventive measure, the touch is reinitialized when no person is detected in front of the access reader.
Optimization	Access Control	FW	.19.06	The behaviour of access readers and the access controller is being monitored closely now. Should system inconsistencies be detected, e.g. due to an external disturbance, parts of the system are restarted automatically now.
Bugfix	Access Control	FW	.19.06	A safety measure led to restarting of the access control system with U&Z radio locks when information on sabotage was stored wrongly by the controller. This typically happened directly after starting the access control subsystem. The information on radio lock sabotage is being stored correctly now so that the restarts do not occur any more.
Enhancement	EVO Intera II	FW	.19.07	Support of the new hardware revision 1.5 of the EVO Intera II.

13.6 Released at May 30th 2022

Firmware 04.03.19.07

DatafoxStudioIV 04.03.19.04

DFCom 04.03.19.04

Туре	Aspect	Comp.	.xx.xx	Description of Change or Bugfix
Enhancement	Firmware update	Studio	.19.04	The firmware update manager now offers transferring a firmware update using the bootloader mode.

13.7 Released at June 3rd 2022

Firmware 04.03.19.08

DatafoxStudioIV 04.03.19.04

Туре	Aspect	Comp.	.xx.xx	Description of Change or Bugfix
Bugfix	KYO Cenloc	FW	.19.08	The wrong ID for the access master (ZM) was stored in the data record for ZK status messages that were triggered by the ZK controller. This has been corrected.
Optimization	Data on Card	FW	.19.08	The processing time of the field function "Data on Card" could be significantly reduced for Legic transponders.
Enhancement	http	FW	.19.08	This version supports the token "finger2" for the http command "df_send_file".
Enhancement	Cellular	FW	.19.08	Support for the Cellular Modem BG95 was added.
Enhancement	IPC – Q7	FW	.19.08	The USB hubs integrated in the IPC can be restarted by writing the system variable "usbhub.restart". In order to perform this reset, write the power-off duration in seconds (115) as string to the system variable.
Bugfix	KYO Oneloc	FW	.19.08	Since firmware version 04.03.19.01 Output 2 was switched logically inverted for KYO Oneloc and EVO 3.5 Universal. Output 2 became active



Туре	Aspect	Comp.	.xx.xx	Description of Change or Bugfix
	EVO 3.5 Universal			when being set to "0" logically. With version 04.03.19.08 the Output becomes active when being set to "1" logically again.

13.8 Released at June 9th 2022

Firmware 04.03.19.09

DatafoxStudioIV 04.03.19.04

DFCom 04.03.19.04

Туре	Aspect	Comp.	.xx.xx	Description of Change or Bugfix
Bugfix	Access control	FW		In special cases restarting the access control subsystem led to an error when negotiating the encryption key between the RFID readers and the access controller. This resulted in the controller reporting status code "5" for each connected reader. With the new firmware release, this problem has been corrected at the controller side – updating the readers is not required.

13.9 Released at June 23th 2022

Firmware 04.03.19.10

DatafoxStudioIV 04.03.19.04

DFCom 04.03.19.04

Туре	Aspect	Comp.	.xx.xx	Description of Change or Bugfix
Bugfix	https	FW		For HTTP requests, the server path was always loaded from profile "0" even if profile "1" was active. This problem has been corrected. Now -depending on the active profile - the corresponding stored path is taken for the request.
Bugfix	EVO 3.5 Universal	FW	.19.10	When using the old transponder setting for Mifare Classic, errors could occur while reading after having just uploaded the setup. This could be solved by restarting the device or using the new configuration. With this version, the reading errors no longer occur.
Change	https	FW		The "Configuration request" initiated from the device BIOS in the "Communication" area was previously always sent using http, even if the device was set to https. Starting from this version, if https is configured in the device, the request is also sent via https.
Bugfix	Access control	FW	.19.10	In rare cases, memory leaks could occur during the synchronisation of various firmware components. This problem could be eliminated.

13.10 Released at June 30th 2022

Firmware 04.03.19.11

DatafoxStudioIV 04.03.19.04

Туре	Aspect	Comp.	.xx.xx	Description of Change or Bugfix
Bugfix	Setup	FW		When selecting the option "For read also use the default passwords." in the transponder configuration for "Mifare Classic/Plus", reading errors could occur in EVO 3.5 Universal and in Access Control. This has been fixed in this version.
Bugfix	EVO 3.5 Universal	FW	.19.11	When reading multiple Desfire configurations in EVO 3.5 Universal, the value of the wrong configuration could be reported due to a switch of configurations in an input chain.
Bugfix	EVO 3.5 Universal	FW	.19.11	Due to a configuration error in the EVO 3.5 Universal's transponder module, Hitag1-Feig1-Id badges could no longer be read. This problem could be solved.

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13.11 Released at July 20th 2022 Firmware 04.03.19.12 DatafoxStudioIV 04.03.19.04 DFCom 04.03.19.04

Туре	Aspect	Comp.	.xx.xx	Description of Change or Bugfix
Bugfix	EVO 3.5 Universal	FW	.19.12	When aborting an input chain before having read the transponder, there could be short delays when switching an input chain or reading a badge. This issue has been corrected.
Bugfix	Display	FW	.19.12	When displaying the large clock in combination with a background image, a reboot could occur when the background image was not wide enough. The problem has been fixed - the device reboot no longer occurs.

13.12 Released at August 11th 2022

Firmware 04.03.19.13

DatafoxStudioIV 04.03.19.05

Туре	Aspect	Comp.	.xx.xx	Description of Change or Bugfix
Bugfix	Access control	FW	.19.13	There was a circumstance, in which deactivating "free access (FRA)" failed at a reader when using a badge: If the free access was activated at the same reader using a badge, it was no longer possible to revoke the free access using a badge at the same reader. This problem has been fixed. The free access function can now be revoked again.
Bugfix	http	FW	.19.13	The device was reset to an outdated LAN/WLAN configuration under the following circumstances: - The network configuration was transferred via Datafox Studio and changed afterwards in though the BIOS menu of the device or by setting system variables. - Data records stored in the device could not be sent to an HTTP/HTTPS server for the "COM.IDLE" time (8 hours by default), or the server did not acknowledge data records. In this case, the parameters adjusted in the device were replaced by those in the network configuration file transmitted by Datafox Studio.
Bugfix	http	FW	.19.13	The User-Agent header was not delivered consistently with the protocol description. A single dot was appended to the firmware version, so that e.g., "User-Agent: Datafox/04.03.19.12. 11.1234" was reported. The dot following the firmware version is not present anymore, so that "User-Agent: Datafox/04.03.19.12 11.1234" is sent.
Enhancement	https	FW	.19.13	Provided that all acceptable server certificates are invalid, a device configured to use HTTPS communication method could not establish a connection to its server. Should a device detect this situation, it tries to establish a service mode connection now – provided an active mode server was configured at the device.
Bugfix	EVO 5.0 Pure	FW	.19.13	Due to a problem when the display was turned off by the proximity sensor, the available memory was successively used up. As a result, there was a regular reboot every 1-2 days, depending on the device's use. The problem has been solved and the device no longer restarts because of this.
Enhancement	Display	FW	.19.13	The firmware is capable of displaying bitmap graphics with 1, 4 or 8 bit per pixel.
Enhancement	Cellular	Studio, DFCom	.19.05	Support for the Cellular Modem BG95 was added.



13.13 Released at August 17th 2022

Firmware 04.03.19.14

DatafoxStudioIV 04.03.19.06

DFCom 04.03.19.06

Туре	Aspect	Comp.	.xx.xx	Description of Change or Bugfix
Bugfix	Setup	Studio	.19.06	Under special circumstances, it could happen that setup files could not be transferred to the target device at the first attempt.
Enhancement	Lists	DFCom	.19.06	Support for transmission of lists with more than 65535 data rows.
Bugfix	Bios-Dialog	Studio	.19.06	Only USB was offered as selectable main communication in the bios dialogue if the password of the setup was active. The password query did not take place and only by entering the password beforehand or loading the associated setup file could this problem be circumvented.
Bugfix	RFID	FW	.19.14	When using an EVO 3.5 universal, the reader could fail when reading transponder values. This could lead to delayed switching of function chains. With this version this is corrected.
Change	RFID	FW	.19.14	The KYO Oneloc configured to use the "transponder reader for the device control" (see BIOS-Settings in Datafox Studio) always reported the serial number of ID cards in hexadecimal reversed orientation. This has been adjusted so that the serial number is now supplied in the same format as on other terminals. The reading of data segments is not affected.

13.14 Released at August 22nd 2022

Firmware 04.03.19.14

DatafoxStudioIV 04.03.19.07

DFCom 04.03.19.07

Туре	Aspect	Comp.	.xx.xx	Description of Change or Bugfix
Bugfix	Setup password	Studio		The bugfix in Studio version 04.03.19.06 concerning the setup password and the BIOS menu led to problems in device communication in different places. With version 04.03.19.07 the setup password – if not provided by an opened setup file – is queried from the user again.

13.15 Released at August 25th 2022

Firmware 04.03.19.14

DatafoxStudioIV 04.03.19.08

Туре	Aspect	Comp.	.xx.xx	Description of Change or Bugfix
Enhancement	HTTP-Mode	Studio	.19.08	System variables http.update were added for the configuration of a request to an update server.



13.16 Released at August 31st 2022

Firmware 04.03.19.15

DatafoxStudioIV 04.03.19.08

DFCom 04.03.19.08

Туре	Aspect	Comp.	.xx.xx	Description of Change or Bugfix
Bugfix	RFID	Firmware	.19.15	When reading legic prime badges, an error could occur reporting the badge value with a bad length
Bugfix	Access Control	Firmware	.19.15	Since firmware version 04.03.19.09, configurations for Action/Action2 entries in the Holiday list were not regarded. Now these are applied correctly again.
Bugfix	KYO Cenloc	Firmware	.19.15	The automatic time control for the Action table did not switch the relays 10 to 16 of the KYO Cenloc. This problem could be eliminated.
Bugfix	Access control	Firmware	.19.15	Under certain circumstances the (de)activation of the safe office mode with the U&Z components could not be carried out. In some cases, this may have resulted in a restart of the AC controller. This misbehaviour has been eliminated.

13.17 Released at September 7th 2022

Firmware 04.03.19.16

DatafoxStudioIV 04.03.19.08

DFCom 04.03.19.08

Туре	Aspect	Comp.	.xx.xx	Description of Change or Bugfix
Bugfix	RFID	Firmware		When reading data from a Ledgic Advant or Prime badge, the data was reported in reverse Order since FW Version 04.03.19.14. Serial numbers and access control were not affected. This is now fixed
Enhancement	Camera	Firmware		A new type of camera has been integrated for the EVO 4.3 / EVO 4.6, which only supports the resolution 320 x 240 pixels. The camera is used for in-process, random sampling of operator images.

13.18 Released at September 15th 2022

Firmware 04.03.19.17

DatafoxStudioIV 04.03.19.08

Туре	Aspect	Comp.	.xx.xx	Description of Change or Bugfix
Bugfix	Access control	Firmware		If access control is activated via the main menu on the terminals and no devices were connected to the access bus, data formatting in the access control's result data record was not carried out correctly. This error has now been corrected.
Bugfix	Biokey	Firmware		If externally saved finger templates were to be transferred back to the Biokey module in the device, it could happen that the transfer was aborted. In this case, the error message was output in DatafoxStudio that the available data did not match the requested data. This transmission problem could be eliminated.
Bugfix	RFID	Firmware	.19.17	When reading the serial number of Legic badges, the value was read shifted. This does not affect acces control. This is now fixed.



13.19 Released at September 28th 2022

Firmware 04.03.19.18

DatafoxStudioIV 04.03.19.08

DFCom 04.03.19.08

Туре	Aspect	Comp.	.xx.xx	Description of Change or Bugfix
Bugfix	IPC	Firmware	.19.18	A restart of an IPC is signaled by flashing the Logo backlight. After the start phase the backlight could be turned off permanently. This error has been corrected and the Logo backlight is switched on after a restart.
Bugfix	Access control	Firmware	.19.18	When booking at an access reader, in rare cases an error in the controller could occur, causing the reader to no longer signal any feedback. This is corrected in this version.
Optimization	RFID	Firmware	.19.18	An optimization of transponder processing leads to shortening processing time by up to 500 ms. This affects The EVO 3.5 Universal device disregarding the transponder method Other Terminals if they were using Legic transponder method.

13.20 Released at October 13th 2022

Firmware 04.03.19.19

DatafoxStudioIV 04.03.19.09

Туре	Aspect	Comp.	.xx.xx	Description of Change or Bugfix
Enhancement	Display-Designer	Studio	.19.09	Support of 8-bit bitmaps added. These are transferred to the device without prior conversion if no scaling is necessary.
Enhancement	WIFI	Studio DFCom	.19.09	Support of the WIFI module (Art. xxx112B) in the Bios-Dialog and configuration.
Bugfix	WIFI	Firmware	.19.19	A device reboot could occur when showing available networks in the BIOS menu. This is now fixed.
Bugfix	IFF	Firmware	.19.19	IFF files created by the device had a bad length information within the "DCOL" chunk.
Bugfix	http	Firmware	.19.19	When requesting fingerprint templates via http with the parameter "df_send_file=finger2,". The parameter for the format was ignored. Now the device responds according to the documentation.
Enhancement	Cellular	Firmware	.19.19	When switching to cellular communication a restart of the internal module could occur, leading to a delay when opening a connection.



13.21 Released at October 19th 2022

Firmware 04.03.19.20

DatafoxStudioIV 04.03.19.09

DFCom 04.03.19.09

Туре	Aspect	Comp.	.xx.xx	Description of Change or Bugfix
Bugfix	KYO Oneloc	Firmware	.19.20	Errors could occur when using an EVO Intera I as "transponder reader for the device control" (see BIOS-Settings in Datafox Studio). The reader would not stop blinking. This error has been corrected.
Bugfix	KYO Oneloc	Firmware	.19.20	If a KYO Oneloc controlled its relays by setup rather than access control, uploading a new setup to the KYO Oneloc could lead to unintended switching of these outputs. This behavior has been corrected.
Bugfix	EVO 5.0 – Display	Firmware	.19.20	The initialization of the display in the EVO 5.0 has been optimized. This prevents the "flickering" of the display that used to occur sporadically.
Enhancement	Access control	Firmware	.19.20	Support for U&Z's BLE radio locks units has been added.

13.22 Released at November 3rd 2022

Firmware 04.03.19.21

DatafoxStudioIV 04.03.19.10

DFCom 04.03.19.10

Туре	Aspect	Comp.	.xx.xx	Description of Change or Bugfix
Bugfix	System variables	Studio	.19.10	System variables could not be assigned negative values via the editing dialogue, this format check was added.
Bugfix	EVO 5.0 – Display	Firmware	.19.21	The initialization of the display in the EVO 5.0 has been optimized. This prevents the "flickering" of the display that used to occur sporadically.
Bugfix	Biokey	Firmware		Under certain circumstances, the device did not respond to keyboard events while processing the "Scan finger" input field. This problem has been fixed. Keyboard/touch events are evaluated correctly again.

13.23 Released at November 10th 2022

Firmware 04.03.19.22

DatafoxStudioIV 04.03.19.10

Туре	Aspect	Comp.	.xx.xx	Description of Change or Bugfix
Bugfix	EVO 5.0 – Display	Firmware		To prevent the sporadic "flickering" of the display, the configuration of the graphics controller has been revised. This could lead to a "white" display during the startup phase on certain devices. This problem has been fixed. The displays start correctly again.
Bugfix	Access Control	Firmware		When frequently transferring setup and access lists to a device with activated access control, the device could restart. This is fixed with this release.



13.24 Released at November 23rd 2022

Firmware 04.03.19.23

DatafoxStudioIV 04.03.20.01

DFCom 04.03.20.01

Туре	Aspect	Comp.	.xx.xx	Description of Change or Bugfix
Enhancement	Firmware support	Studio DFCom	.20.01	Support for upcoming firmware release 04.03.20 added for Datafox Studio and the Datafox Communication library.
Bugfix	KYO Cenloc	Firmware		When withdrawing the permanent opening, it could happen that the access reader did not react to the presented ID card – thus the withdrawal of the permanent opening was not possible. This problem has been eliminated.
Bugfix	Cellular	Firmware	.19.23	Devices with the BG95 module could, under certain circumstances, not select cellular as the main communication. With this version this is fixed.

14 Release Version 04.03.20

14.1 Released at December 1st 2022

Firmware 04.03.20.01

DatafoxStudioIV 04.03.20.01

DFCom 04.03.20.01

A detailed description of the functional enhancements can be found in our software companion booklet.

Туре	Aspect	Comp.	.xx.xx	Description of Change or Bugfix
Enhancement	НТТР	Firmware	.20.01	The Firmware is now supporting Firmware Update via http. Also, Action Ids are now part of the firmware, allowing the user to link http commands with the corresponding system message.
Enhancement	WIFI	Firmware	.20.01	Support for the new WIFI Modul (Art. xxx112B).
Enhancement	Barcode	Firmware	.20.01	Support for the new 1D Laser Scanner.
Bugfix	Firmware	Firmware	.20.01	The Option "Advant format at PrimeID card Type" had no effect, badges were reported in Prime Format. With this Version the correct format is applied. Furthermore, the options "Hex rotated" and "Decimal rotated" are now implemented correctly. In the previous version the setting was ignored.



14.2 Released at December 14th 2022

Firmware 04.03.20.02

DatafoxStudioIV 04.03.20.01

DFCom 04.03.20.01

Туре	Aspect	Comp.	.XX.XX	Description of Change or Bugfix
Bugfix	LAN	Firmware	.20.02	As of version 04.03.20.01, errors could occur during LAN connection in passive mode. The prerequisite was that there was no traffic in the network for more than 5 minutes. The device then did not accept connections anymore. This has been fixed with this version.
Bugfix	Setup	Firmware	.20.02	If a device was configured to operation mode "PZE mode" and an input sequence that was not defined within the setup was configured to be run, the device was neither reachable by network not could be operated by the user. This version corrects this behaviour.
Enhancement	Memory	Firmware	.20.02	If the working memory in the device is no longer sufficient for running the tasks to be executed, e.g. due to fragmentation, the device is now restarted intentionally. This happens no earlier than 10 minutes after start-up of the device.
Bugfix	http encryption	Firmware	.20.02	Due to a conversion error, the HEX values generated during stream ciphering were calculated incorrectly. As a result, the data records could not be decrypted by the WEB server. The calculation has been corrected; encrypted communication is possible again.
Bugfix	Power button IPC	Firmware	.20.02	Previously it was not possible to deactivate the power touch key. The value "zero" was ignored and the IPC was switched off immediately after the key was released. A "workaround" up to now was to deactivate the power key in the IPC's operating system.

14.3 Released at December 21st 2022

Firmware 04.03.20.03

DatafoxStudioIV 04.03.20.02

Туре	Aspect	Comp.	.xx.xx	Description of Change or Bugfix
Bugfix	EVO Intera II	Firmware	.20.03	When resetting free or blocked access in the access control subsystem, the white backlight of the EVO Intera II was not reactivated. The backlight only switches on again after a new booking. This had no impact on the overall functionality of the EVO Intera II and has been corrected with this version.
Bugfix	НТТР	Firmware	.20.03	Since version 04.03.20.01 there were problems with Basic Authentication, so no connection with the server could be established. With this version this is corrected.
Enhancement	Access control	Firmware	.20.03	Enhancements in PHG protocol support: - Changing the baud rate of the reader temporarily Support of Desfire special commands (Card-Select, Deselect, T=CL Command Sequence, Desfire Command Sequence) Reading using the Desfire multisequence access mode.
Change	PoE	Firmware	.20.03	The overall power consumption during the boot process was so small that some PoE Injectors chose to discontinue power supply for the port after some seconds. This behaviour affected devices of type PZE-MasterIV, EVO 2.8 Pure, EVO 3.5 Pure as well as IO-Box, KYO Inloc and Mobil-Box. To correct this, the display is now switched on immediately after the boot sequence for display devices, box devices activate all LEDs at boot time.
Bugfix	Setup	Studio	.20.02	Writing an XML setup file failed since version 04.03.19.06 of the Datafox Studio when access control was activated. This problem has been corrected.
Bugfix	Update	Studio DFCom	.20.02	With version 04.03.20.01 of Datafox Studio or DFCom Library writing a device firmware from a DFZ-Container less than 04.03.15.01 failed. This behaviour has been corrected.



14.4 Released at January 11th 2023

Firmware 04.03.20.04

DatafoxStudioIV 04.03.20.03

DFCom 04.03.20.03

Туре	Aspect	Comp.	.xx.xx	Description of Change or Bugfix
Bugfix	Multi-Input	Firmware	.20.04	The EVO 3.5 Pure could restart when entering a pin in the multi-input field. If a character was deleted, the device did not accept any further inputs and rebooted. Single characters may now be deleted.
Bugfix	Legic	Firmware	.20.04	When reading Legic Advant badges, the decimal and decimal rotated settings were swapped since version 04.03.20.01. The evaluation of transponder data now follows the settings from the setup.
Bugfix	EVO Intera II	Firmware	.20.04	The PHG Crypt commands for directly reading Mifare Classic badges were partially answered with an error message. The transponder reader now honours optional command bytes.
Bugfix	Messages	Firmware	.20.04	When displaying messages on a device using the DFCom, errors could occur if http formatting was used in the message. With this version, HTTP messages are handled correctly.
Enhancement	http/Action ID	Firmware	.20.04	System messages when editing fingerprint templates are now reported with action IDs.
Optimization	Fingerprint, Writing templates on a badge	Firmware	.20.04	The display of the badge assignment in the administration menu was poorly readable. The formatting was revised.
Bugfix	Write setup	Studio, DFCom	.20.03	The transfer of setup files created with a studio version less than 04.03.19.05 may not have been executed. It was aborted with the error message "The setup file requires a minimum version of DFComDLL that has not been reached." This behaviour has been corrected.

14.5 Released at January 18th 2023

Firmware 04.03.20.05

DatafoxStudioIV 04.03.20.03

Туре	Aspect	Comp.	.xx.xx	Description of Change or Bugfix
Bugfix	Touch	Firmware		Memory loss occurred in display devices with configurable touch areas (EVO 4.3 / EVO 4.6 FlexKey and EVO 5.0 Pure). This could lead to a reboot of the device. In this version this is corrected.
Bugfix	http	Firmware		Since version 04.03.20.01 the command to download data from the web server to the device (df_load_file) could create invalid download requests. This problem has been corrected.



14.6 Released at January 25th 2023

Firmware 04.03.20.06

DatafoxStudioIV 04.03.20.03

DFCom 04.03.20.03

Туре	Aspect	Comp.	.xx.xx	Description of Change or Bugfix
Bugfix	Access control	Firmware	.20.06	When communicating to a MegaAU device, communication errors could occur, resulting in data not being retrieved from the device. This has been corrected.
Bugfix	Barcode	Firmware		If a barcode in an input chain could not be saved, the barcode reader was not turned on again. This had to be done by the user manually. As of this version, the barcode reader now continues to scan for data.
Change	http	Firmware		After an http upload from the device to the server has been completed, the alive chain is now executed directly. This allows, for example, an action to be performed directly on the device after uploading a signature.

14.7 Released at March 1st 2023

Firmware 04.03.20.08

DatafoxStudioIV 04.03.21.03

Туре	Aspect	Comp.	.xx.xx	Description of Change or Bugfix
Bugfix	WIFI	Firmware	.20.07	Connections to open WIFI network could not be established with WIFI module art.no. xxx112B. Now it is also possible.
Bugfix	KYO Cenloc	Firmware	.20.07	When showing messages on the display, it could happen that the KYO Cenloc restarted. The reason for this was an incorrect allocation of the display objects, which could be corrected.
Enhancement	Access control, modification of list data using single commands	Firmware	.20.07	1. When writing to the Reader or Reader-Props table, the access control is restarted when the respective table is closed 2. When writing to the Action/Action2, Time or Holiday list, the time control of the relays is reinitialised when the respective list is closed. => The changes can be made via DFCom/http or also via setup functions. However, it is still recommended to transfer the lists as a whole, because if changes are made in several lists, the access control might work with inconsistent data!
Enhancement	Communication	Firmware	.20.07	Communication can be restarted with the help of another parameter. This enables, for example, a change from http mode to passive mode without a device restart. Either send the DFCReset command (DFCom) with the value "8" or write the system variable "system.reset" with the value "8".
Change	Device-OS	Firmware	.20.07	The extended memory monitoring, which was integrated from version 04.03.20.03, has been deactivated again in order to consume less RAM in the devices. Memory-intensive operations, such as HTTPS connection negotiation, should thus be possible again without any problems.
Bugfix	EVO 3.5 Universal	Firmware	.20.08	With the EVO 3.5 Universal, the Feig transponder data was not processed correctly and thus incorrect data was supplied. This problem could be fixed.
Enhancement	KYO Oneloc	Firmware	.21.01	Support for a new CPU in the KYO Oneloc
Enhancement	Firmware-Update	Studio, DFCom	.21.03	Support of new hardware Firmware update support for new CPU of the KYO Oneloc
Enhancement	Firmware-Update	HTTP µSvc		Firmware update support for new CPU of the KYO Oneloc



14.8 Released at March 29th 2023

Firmware 04.03.20.09

DatafoxStudioIV 04.03.21.03

DFCom 04.03.21.03

Туре	Aspect	Comp.	.xx.xx	Description of Change or Bugfix
Bugfix	Access control	Firmware	.20.09	Due to an error in the transfer of amount of the bytes read, no access booking could be performed with Mifare DESFire via the main menu of the MasterIV terminal. This problem could be solved.
Bugfix	EVO Intera II Barcode	Firmware	.20.09	Under certain circumstances, it could happen that the barcode scanner was not switched on again after a read operation. This misbehaviour could be corrected.
Bugfix	WLAN DF-WL03 (Art.No. xxx112B)	Firmware	.20.09	In a WLAN network in "Mixed Mode WPA2/WPA3", no passphrase entry was possible in the device's bios. The problem has now been fixed.
Bugfix	WLAN DF-WL02 (Art.Np. xxx112A)	Firmware	.20.09	No data records could be sent in http mode because no connection could be established to the Web server. The error has been corrected and the records are being sent correctly again.
Bugfix	Fingerprint area sensor, verification with ID card	Firmware	.20.09	Reading finger templates from a badge takes a relatively long time. Therefore, templates are not read in again if the same ID card is used for verification several times in succession. Previously, however, the deletion of templates in the device was not taken into account, since in this case the template was no longer available. This behaviour has now been changed. After deleting templates, they are always read in again.
Bugfix	Cellular 4G / LTE	Firmware	.20.09	When transferring a firmware update using Datafox Studio, transmission errors could occur. The behaviour only affected mobile devices and is corrected with this version.
Change	Active-Mode	Firmware	.20.09	If there are problems with negotiating the connection parameters when establishing an active-mode connection, the device will be restarted.

14.9 Released at April 21st 2023

Firmware 04.03.20.10

DatafoxStudioIV 04.03.21.05

Туре	Aspect	Comp.	.xx.xx	Description of Change or Bugfix
Change	http	Firmware	.20.10	The system message issued for an invalid parameter in the http response (1013) now also sends the corresponding action ID.
Bugfix	LAN	Firmware	.20.10	Seldomly it could occur that a device using http or active mode communication failed to create a connection using the LAN interface. This condition persisted until the device was restarted. With this version, this has been corrected.
Bugfix	KYO Cenloc	Firmware	.20.10	The inputs and outputs of the burglar alarm system interface (BAS) is done using the ReaderProps list. As described in the documentation, letters (A for 10, B for 11, C for 12,) are used after the range from 1 to 9 for further specification. The conversion of the letters into numerical values was not performed properly in previous versions; this has been corrected with this version.
Bugfix	Transponder reader	Firmware	.20.10	Under certain circumstances it could happen that the 125kHz transponder reader in the terminals was not switched on by the proximity sensor. This problem could be solved.
Bugfix	Setup	Studio	.21.04	When loading a setup with the operating mode set to a mode different from "Normal", an additional check now ensures that the selected main menu or function chains items are existing; if this is not the case, the operating mode is set to "Normal". When using the operating mode "PZE2", the selected function chain items are checked for existence at the switching times and, if necessary, changed to "Not selected" if they are not present.
Enhancement	Transponder	Studio	.21.05	A note has been added on the use of the Kaba Group Header (KGH) with Legic Prime badges.



14.10 Released at May 4th 2023

Firmware 04.03.20.11

DatafoxStudioIV 04.03.21.05

DFCom 04.03.21.05

Туре	Aspect	Comp.	.xx.xx	Description of Change or Bugfix
Bugfix	Cellular	Firmware	.20.11	With certain service providers, problems when establishing the cellular network connection could occur. With this version we corrected this problem.
Bugfix	Lists	Firmware	.20.11	When writing data to a list column, one byte more than the column's width defined could be stored. This is now fixed.
Bugfix	http	Firmware	.20.11	Showing a message on the device via http resulted in an error when value "0" was used for the parameters "font" and "buzzer". The value "0" is now accepted.
Change	http	Firmware	.20.11	http responses with http status codes between 201 and 299 are now accepted and the instructions passed are being processed by the firmware. For acknowledging datasets, it is still necessary to send http status 200.

14.11 Released at May 23rd 2023

Firmware 04.03.20.12

DatafoxStudioIV 04.03.21.05

DFCom 04.03.21.05

Туре	Aspect	Comp.	.xx.xx	Description of Change or Bugfix
Bugfix	DataOnCard	Firmware	.20.12	In the field function "Data on Card" a memory error could occur if no field name was assigned. With this version this is fixed.
Bugfix	LAN	Firmware	.20.12	A problem with closing a socket in the LAN networking could result in the device not being able to open new network connections actively. This problem has been corrected.
Enhancement	Access control	Firmware	.20.12	The access.reader[<readerid>].badge system variable has been added. This variable allows access to the value most recently retrieved from an RFID reader – as long as the RFID tag is still present. The readerID is defined by the reader list. This makes it possible to detect a card that is permanently held in front of a reader.</readerid>

14.12 Released at June 15th 2023

Firmware 04.03.20.13

DatafoxStudioIV 04.03.21.05

Туре	Aspect	Comp.	.xx.xx	Description of Change or Bugfix
Bugfix	EVO Intera II	Firmware	.20.13	If the buzzer was switched off several times when controlled using PHG protocol, the next buzzer command could be ignored under certain circumstances. This does not affect the EVO Intera II in combination with a Datafox controller and has been corrected for non-Datafox controllers now.
Bugfix	LAN - Passiv mode	Firmware	.20.13	In rare cases, a device that was operated in passive mode and had not been communicated with for a long time was no longer accessible. The problem occurred more frequently in VPNs or with "managed switches". The problem has now been fixed.



14.13 Released at July 6th 2023

Firmware 04.03.20.14

DatafoxStudioIV 04.03.21.06

DFCom 04.03.21.06

Туре	Aspect	Comp.	.XX.XX	Description of Change or Bugfix
Enhancement	http	Firmware	.20.14	The IFF list update in the http response has been extended. Previously, all lists to be loaded had to be provided in a single IFF container. Now it is also possible to store each list in a separate IFF file and have it updated by the device using a single response with multiple download instructions.
Bugfix	http	Firmware	.20.14	The command "df_table_select" causes list data to be sent to the web server. This command caused an internal error during data preparation, so that no list data was transferred. The error has been fixed.
Bugfix	EVO 4.3, Touch	Firmware	.20.14	EVO 4.3 devices that were manufactured until 2016 had a touch controller with adjustable sensitivity. This controller can be identified as "SMT-C-T10I" in the BIOS dialog. With firmware version 04.03.20.x, the touch sensitivity supplied by the device configuration was no longer applied correctly at the touch controller. This behavior is now corrected.
Bugfix	Timeboy	Firmware	04.02.06.1 0	If no SIM card was detected by the device, the Timeboy stopped with a white screen when exiting the menu item "Mobile" in the BIOS menu for communication. Only a restart helped here. With this version, the behavior is corrected.

15 Release Version 04.03.21

15.1 Released at June 5th 2023

Firmware 04.03.21.02

DatafoxStudioIV 04.03.21.05

DFCom 04.03.21.05

A detailed description of the functional enhancements can be found in our software companion booklet.



Туре	Aspect	Comp.	.xx.xx	Description of Change or Bugfix
Enhancement	Devices	Firmware	.21.02	Due to ongoing supply chain problems, the following devices are available with an alternative CPU as of 04.03.21.02: EVO 2.8 Pure, EVO 3.5 Pure, EVO 5.0 Pure, EVO Intera II and KYO Oneloc. We have taken precautions to ensure that this change does not affect you when using current versions of Datafox Studio, the DFCom library or the HTTP(S) update scripts. Please note that a downgrade of the device firmware to a version older than 04.03.21.02 is no longer possible.
Bugfix	Fingerprint	Firmware	.21.02	When reading template data from the Saturn Fingerprint Module, sporadic errors could occur. The reading was then aborted and had to be restarted. With this version this is now corrected.
Bugfix	RFID	Firmware	.21.02	The transfer of the configuration file for the Multi-Tech RFID reader (DF-R45) failed most of the time starting with firmware version 04.03.19. With this version, the configuration can be transferred and applied correctly again.
Bugfix	KYO Oneloc	Firmware	.21.02	With version 04.03.21.01 a restart of the device software could occur when using expansion modules for the KYO Oneloc. In this version the expansion boards are recognized correctly. Attention: This does not apply to the Wiegand modules CWC and CWR!
Enhancement	EVO Intera II MB	Firmware	.21.02	Support of the new device variant EVO Intera II MB.
Enhancement	Device Update	Studio	.21.06	The update manager can be used to update readers in the access control bus.

15.2 Released at June 20th 2023

Firmware 04.03.21.03

DatafoxStudioIV 04.03.21.05

DFCom 04.03.21.05

Туре	Aspect	Comp.	.xx.xx	Description of Change or Bugfix
Enhancement	Devices	Firmware	.21.03	Hardware-support for alternate CPU extended.

15.3 Released at June 29th 2023

Firmware 04.03.21.05

DatafoxStudioIV 04.03.21.06

Туре	Aspect	Comp.	.xx.xx	Description of Change or Bugfix
Enhancement	Devices	Firmware DFCom Studio	.21.04 .21.06 .21.06	Support for firmware update of devices attached to the access control bus added. Please check the software companion booklet on details.
Bugfix	RS485 main communication	Firmware	.21.04	Since version 04.03.21, the RS485 interface could not be used for the main communication. The communication in the access bus was not affected. With this version this is now fixed.
Bugfix	Fingerprint area sensor	Firmware	.21.05	Display errors could occur in the admin menu of the fingerprint. The function of the sensor was not affected. As of this version, the presentations on the display are correct again.
Bugfix	Touch – bios test menu	Firmware	.21.05	Fragments of the test remained on the display after or during the touch test in the BIOS menu. The display errors were fixed with this version.



15.4 Released at July 13th 2023

Firmware 04.03.21.06

DatafoxStudioIV 04.03.21.06

DFCom 04.03.21.06

Туре	Aspect	Comp.	.xx.xx	Description of Change or Bugfix
Bugfix	KYO Oneloc	Firmware	.21.06	The digital output of the KYO Oneloc was not switched in earlier versions of the 04.03.21. With this version, the output is now being switched according to the setting.
Bugfix	Fingerprint	Firmware	.21.06	The export of fingerprint templates from the Saturn module failed. The error occurred since version 04.03.21.03 and is now corrected.
Bugfix	KYO Oneloc	Firmware	.21.06	The main communication via RS485 at the KYO Oneloc did not work. This affected only the KYO Oneloc as a controller. The use as a door module was not affected by this. With this version the communication via RS485 works again.
Enhancement	http	Firmware	.21.06	The IFF list update in the http response has been extended. Previously, all lists to be loaded had to be provided in a single IFF container. Now it is also possible to store each list in a separate IFF file and have it updated by the device using a single response with multiple download instructions.
Bugfix	http	Firmware	.21.06	The command "df_table_select" causes list data to be sent to the web server. This command caused an internal error during data preparation, so that no list data was transferred. The error has been fixed.
Bugfix	EVO 4.3, Touch	Firmware	.21.06	EVO 4.3 devices that were manufactured until 2016 had a touch controller with adjustable sensitivity. This controller can be identified as "SMT-C-T10l" in the BIOS dialog. With firmware version 04.03.20.x, the touch sensitivity supplied by the device configuration was no longer applied correctly at the touch controller. This behavior is now corrected.

15.5 Released at July 25th 2023

Firmware 04.03.21.07

DatafoxStudioIV 04.03.21.07

Туре	Aspect	Comp.	.xx.xx	Description of Change or Bugfix
Bugfix	Digital Input	Firmware	.21.07	A counter defined in the setup for digital inputs was not incremented after an input change if the debounce time was configured to "0". With this version this is fixed.
Bugfix	RFID	Firmware	.21.07	When uploading a setup, errors could sporadically occur during the configuration of the transponder reader. Subsequently, no transponders were read by the device. After a restart, RFID tags were read again. With this version this is now fixed.
Bugfix	EVO 3.5 Universal Fingerprint sensor	Firmware	.21.07	On an EVO 3.5 Universal with integrated fingerprint area sensor, the corresponding status LED was not activated. As of this version, the problem has been fixed.
Chance	Access control	Studio	.21.07	The default access control mode of KYO Oneloc and KYO Inloc has been changed from access reader to access controller.
Bugfix	Communication	Studio	.21.07	During an update performed by the update manage, it is not possible to execute different commands for a device being update. Doing so blocks the Studio until the pending update process finishes. As of this studio version, a user notification is shown rather than blocking the Studio.
Bugfix	Update	DFCom Studio	.21.07	Due to the integration of alternative CPUs because of supply chain shortages, it can happen that current firmware archives are not evaluated correctly with older versions of the DFCom library and thus no firmware can be transferred to a device. Please use the DatafoxStudioIV or the DFCom library from version 04.03.21.07.



15.6 Released at August 1st 2023

Firmware 04.03.21.08

DatafoxStudioIV 04.03.21.08

DFCom 04.03.21.08

Туре	Aspect	Comp.	.xx.xx	Description of Change or Bugfix
Bugfix	EVO 3.5 Universal	Firmware	.21.08	Using RS485 as main communication did not work properly in previous version 04.03.21. This problem has been corrected.
Bugfix	Backlight	Firmware	.21.08	Backlight modules of older revisions would display wrong colors, e.g. yellow instead of green. This has been fixed.
Bugfix	Update	Studio	.21.08	Under certain circumstances, the firmware update dialog would block when being opened. This issue is now resolved.

15.7 Released at August 4th 2023

Firmware 04.03.21.09

DatafoxStudioIV 04.03.21.08

DFCom 04.03.21.08

Туре	Aspect	Comp.	.xx.xx	Description of Change or Bugfix
Bugfix	EVO 3.5 Universal	Firmware		Due to an error in firmware release 04.03.21.08 it could occur, that the EVO 3.5 Universal addressed devices in the access bus wrongly. This problem has been corrected.
Enhancement	EVO Intera II MB	Firmware	.21.09	The following additions have been implemented: Reading the "real" Chip Serial Number is now possible when using RFID transponders with the security feature "Random UID" The command to retrieve previously read transponder data from the RFID reader (0x47 0xff) has been implemented.

15.8 Released at August 9th 2023

Firmware 04.03.21.10

DatafoxStudioIV 04.03.21.08

DFCom 04.03.21.08

Туре	Aspect	Comp.	.xx.xx.	Description of Change or Bugfix
Bugfix	EVO 3.5 Universal	Firmware		The internal digital output was inactive in firmware release 04.03.21and it was not possible to configure it. With this version, the digital output can be configured to work as open collector or provide 12V.

15.9 Released at August 18th 2023

Firmware 04.03.21.11

DatafoxStudioIV 04.03.21.09

Туре	Aspect	Comp.	.xx.xx	Description of Change or Bugfix
Bugfix	IPC	Firmware	.21.11	Setting the backlights by an DFCom-based Host application was not possible. This affects all IPC devices starting with firmware version 04.03.20.01. With this release the backlights can be switched again.
Bugfix	Firmware update	DFCom Studio	.21.09	Processing a firmware update using DFCom/Studio 04.03.21.08 caused a memory leak. This has been corrected.



15.10 Released at August 30th 2023

Firmware 04.03.21.12

DatafoxStudioIV 04.03.21.09

DFCom 04.03.21.09

Туре	Aspect	Comp.	.xx.xx	Description of Change or Bugfix
Bugfix	RFID	Firmware	.21.12	Reading segments on Mifare Classic/Plus cards could fail. The error occurred starting with firmware 04.03.21.11 and affected the EVO 3.5 Universal as well as connected EVO Intera or EVO Intera II. A firmware update of the readers is not necessary.
Bugfix	Digital Output/Relay	Firmware	.21.12	When a device is restarted, the installed outputs are switched to the status before the restart.
Change	http	Firmware	.21.12	The system message (1500) after applying a new setup via http now also contains the action id of the http command.
Enhancement	http	Firmware	.21.12	A system message (3006) is generated if an unsorted list is transferred to the device, although the list was defined with a sort column in the setup.
Enhancement	http	Firmware	.21.12	The http header now contains the value "data-records-in-device". This indicates the number of data records in the device that have not been acknowledged yet.

15.11 Released at September 14th 2023

Firmware 04.03.21.13

DatafoxStudioIV 04.03.21.10

Туре	Aspect	Comp.	.xx.xx	Description of Change or Bugfix
Bugfix	Transponder	Firmware	.21.13	The execution of the software update on the DF-R44 Multi-HF was no longer given due to an insufficient information query. This problem could be corrected.
Change	Display	Firmware	.21.13	The display design and the touch configuration of the devices can now additionally be transferred as a single IFF file.
Enhancement	http	Firmware	.21.13	The system messages (1004,1032-1036) when transferring lists in IFF format now also contain the action id of the http command.
Change	Access Control	Firmware	.21.13	Datafox bus devices now send the phg status code for a RESET after a restart.
Bugfix	KYO Oneloc CWR	Firmware	.21.13	Due to time-critical executions, errors could occur in the CWR module when reading data on the Wiegand interface. With this version this is fixed and the CWR reads reliably again.
Bugfix	Camera	Firmware	.21.13	Due to an internal firmware error, the camera did not start and could not be used. This problem has been corrected.
Enhancement	Studio	Studio	.21.10	The display design (definition, images and if necessary touch configuration) can be exported as a single file (*.dfui).
Change	Firmware update	DFCom	.21.10	The transfer of firmware in IFF format is now also possible under Linux.



15.12 Released at September 22nd 2023

Firmware 04.03.21.14

DatafoxStudioIV 04.03.21.10

DFCom 04.03.21.10

Туре	Aspect	Comp.	.XX.XX	Description of Change or Bugfix
Bugfix	Fingerprint	Firmware	.21.14	The backlight of the fingerprint area sensor was not activated anymore. The error has existed since version 04.03.21.01 and affects fingerprint modules of version 1.0c and earlier. With this version this is fixed.
Bugfix	RFID	Firmware	.21.14	The configuration of an RS485 interface as internal reader was not possible since version 04.03.21.01 for devices different from the KYO Oneloc. With this version the configuration is possible again.
Change	RFID	Firmware	.21.14	When reading HID proxy cards, reading errors could occur, resulting in the card not being reported. With this version the reading behavior has been adjusted - the cards are now reported correctly.
Bugfix	Barcode	Firmware	.21.14	Starting an input chain by scanning a barcode in the main menu no longer worked. The behavior has been corrected and the device now switches back to the correspondingly selected input chain.

15.13 Released at October 19th 2023

Firmware 04.03.21.15

DatafoxStudioIV 04.03.21.11

DFCom 04.03.21.11

Туре	Aspect	Comp.	.xx.xx	Description of Change or Bugfix
Bugfix	KYO Oneloc, Option CWR	Firmware	.21.15	The transponder format of the KYO Oneloc CWR could not be changed. It was fixed to "26 bit". Furthermore, the data was evaluated incorrectly, so that the expected values were not supplied. These problems have been corrected.
Bugfix	"booking every time possible"	Firmware	.21.15	The option "booking every time possible" was not yet usable in combination with the field function "Multi-Input". Now this function can be used as well.
Bugfix	IPC – Optical Fingerprint sensor	Firmware	.21.15	In the IPC EVO 7.0 web terminal, the fingerprint module did not work. Neither could templates be sent to the module, nor was identification/verification possible. The problem has been fixed so that the optical sensor now works correctly again.
Bugfix	System messages	Studio	.21.11	The setup page for the system messages has been enabled for the KYO Cenloc.
Enhancement	System variables	Firmware	.21.15	Provided a module is put into the device, the system variables "lan.mac" and "wifi.mac" may now be used to determine the device's corresponding MAC address.

15.14 Released at October 27th 2023

Firmware 04.03.21.15

DatafoxStudioIV 04.03.21.12

Туре	Aspect	Comp.	.xx.xx.	Description of Change or Bugfix
Bugfix	HTTPS Certificates	Studio	.21.12	The Datafox Studio dialog for removing or reading HTTPS certificates from a device did not handle filename with blank (space) characters correctly. This problem has been corrected.



15.15 Released at November 9th 2023

Firmware 04.03.21.16

DatafoxStudioIV 04.03.21.12

DFCom 04.03.21.12

Туре	Aspect	Comp.	.XX.XX	Description of Change or Bugfix
Bugfix	Time switch	Firmware	.21.16	The functionality of the time switch was deactivated from the beginning with the major version 04.03.21. This functionality is enabled again.
Bugfix	Transponder	Firmware		Due to a faulty configuration, reading Smart MX badges in access control was no longer possible with the release of the 04.03.21 major version. Reading of this badge type by an access reader is now possible again.
Bugfix	EVO Intera II MB	Firmware	.21.16	Due to a timing problem, the direct read and write commands for Mifare DESFire badges were no longer possible. This problem could be eliminated.

15.16 Released at December 5th 2023

Firmware 04.03.21.17

DatafoxStudioIV 04.03.21.12

Туре	Aspect	Comp.	.xx.xx	Description of Change or Bugfix
Bugfix	RFID, TWN3	Firmware	.21.17	Due to an internal error in firmware version 04.03.21.15, the reader did not detect RFID transponders. This problem has been corrected.
Bugfix	Messages	Firmware	.21.17	Devices waiting in the main menu for being operated did show a server message when starting a chain, not immediately when receiving it. Now, the incoming message is shown immediately.
Enhancement	HTTP	Firmware	.21.17	In case the http list data is detected to be unsorted during the transfer, the system log now points out to the problematic line. This allows easier analysis of the problem.
Bugfix	PZE Master IV PZE Master Basic	Firmware	.21.17	When updating the firmware using Datafox Studio, the transfer of the update could fail. This has been corrected with this firmware.
Bugfix	KYO Cenloc	Firmware	.21.17	In rare cases, it could happen that the KYO Cenloc switched to operating stop due to voltage fluctuations and therefore access control was no longer active. This problem has been eliminated by increasing the tolerance regarding fluctuations in the supply voltage.
Bugfix	KYO Oneloc	Firmware	.21.17	Since version 04.03.21.01 initiating an HTTPS communication had stability issues resulting in either negotiation errors and/or device reboots. This problem has been corrected with this version.
Change	EVO Intera II	Firmware	.21.17	Standby mode is not activated any more if a transponder remains in the field. Previously, this was activated and the status was no longer signaled via a status LED.
Enhancement	EVO Intera II	Firmware	.21.17	The implementation of command 0x54 was extended and offers all features described in pgh_crypt Dokumentation Rev 3.46.
Bugfix	Dockingstation	Firmware	.21.17	Due to an internal error when determining the externally connected docking station (e.g. in the Mobil-Box V4), the docking station could no longer be addressed and the data records of the Timeboys were not read out. This problem has been corrected.
Bugfix	IPC	Firmware	.21.17	The control of the backlights in the IPC via DFCom is now working again.



15.17 Released at December 7th 2023

Firmware 04.03.21.17

DatafoxStudioIV 04.03.21.13

DFCom 04.03.21.13

Туре	Aspect	Comp.	.xx.xx	Description of Change or Bugfix
Optimization	Firmware update	DFCom		Automatic correction of an incorrectly supplied module identifier during a firmware update in the range of firmware versions 04.03.21.01 up to and including 04.03.21.16.
Change	User Interface	Studio	.21.13	The setup type selection dialog has been reworked. It now offers direct access to device manuals.

15.18 Released at January 8th 2024

Firmware 04.03.21.18

DatafoxStudioIV 04.03.21.14

DFCom 04.03.21.14

Туре	Aspect	Comp.	.xx.xx	Description of Change or Bugfix
Enhancement	EVO Intera II MB	Firmware	.21.18	The EVO Intera II MB can now also read UIDs from ISO15693 badges.
Enhancement	Fingerprint line sensor	Firmware	.21.18	The sensor interface was optimized to enable using alternate CPU.
Bugfix	WIFI	Firmware	.21.18	Devices with integrated DF-WL02 WLAN module could reboot. The error could occur from version 04.03.21.15 and is fixed with this version.
Bugfix	Access Control	Firmware	.21.18	When reading several segments from a Hitag badge, reading errors could occur. The reader flashed red accordingly. With this version, the badge is now read correctly.
Bugfix	Setup Editor	Studio	.21.14	If the setup editor is used to open the display designer, the Datafox Studio crashed when closing both editors. This bug has been fixed.

15.19 Released at January 19th 2024

Firmware 04.03.21.19

DatafoxStudioIV 04.03.21.14

Туре	Aspect	Comp.	.XX.XX	Description of Change or Bugfix
Bugfix	http	Firmware	.21.19	The command "df_table_delete" previously reported an error if only the name of the list and no additional parameter was passed. With this version, the command is executed according to the documentation.
Bugfix	WIFI	Firmware	.21.19	When changing the main communication, a restart could occur sporadically. This only affected devices with a DF-WL02 module installed. The error has been fixed in this version.
Bugfix	Mobilbox	Fimrware	.21.19	Corrections have been made in the "Energy saving" area so that the mobile box can now reliably switch back to energy saving mode.
Enhancement	Access Control	Firmware	.21.19	The VOXIO-T-1570-Z could previously only be used with a Legic configuration despite the hardware being able to read Mifare transponders as well. With this version, the reader can also be used with a Mifare configuration.
Change	http	Firmware	.21.19	The command "df_ac2" used for online access controller scenarios now generates feedback in the form of a system message.



15.20 Released at February 5th 2024

Firmware 04.03.21.20

DatafoxStudioIV 04.03.21.14

Туре	Aspect	Comp.	.XX.XX	Description of Change or Bugfix
Enhancement	Access Control	Firmware	.21.19	The system variable "access.reader[].state" has been added. This reports information for a single device in the access control bus.
Bugfix	RFID	Firmware	.21.20	If several valid badges were in the field during a read action in the EVO 3.5 Universal, an error could occur. So far, we only observed this behaviour with 125 kHz base transponder methods but cannot rule out, that it might occur at 13.56 MHz as well. As a result, no more badges were recognized by the terminal. This has now been fixed.
Bugfix	Log	Firmware	.21.20	Under certain circumstances, a buffer overrun during logging could occur, which lead to an immediate restart of the device. This has been fixed with this version.
Optimization	EVO Intera II	Firmware	.21.20	Improvements to the robustness of touch input in the EVO Intera II.
Bugfix	TCP/IP Failover	Firmware	.21.20	In combination with the active mode, the "failover mode" does not work. Although the main server was not available, no connection to the second server was established. Now the switch to the second server works again.



15.21 Released at March 13th 2024

Firmware 04.03.21.21

DatafoxStudioIV 04.03.22.03

Туре	Aspect	Comp.	.xx.xx	Description of Change or Bugfix
Bugfix	Transponder	Firmware	.21.21	When reading the UID of Mifare DESFire badges, if the option "UID as 4 Byte Value" was activated and a fixed length was set for the output format, the 7-byte UID was used instead of retaining the UID shortened to four digits. This has been corrected.
Bugfix	Fingerprint area sensor	Firmware	.21.21	Sporadically, the identification/verification of fingers could take longer than usual, or the process was aborted with "Finger unknown". As of this version, this behavior no longer occurs.
Bugfix	Fingerprint area sensor	Firmware	.21.21	When teaching in fingers, the fingerprint module could occasionally stop working correctly. This was only remedied by restarting the device. This behavior has been corrected. The module works again without any problems.
Bugfix	Fingerprint area sensor	Firmware	.21.21	It was not possible to update the software of the fingerprint module. The device restarted while the new software was being installed. The update is now working properly again.
Bugfix	Fingerprint line sensor, templates on RFID card	Firmware	.21.21	RFID cards with templates without an ID (ID equal to zero) were not accepted and rejected by the system. This security measure has now been deactivated again, as there are RFID cards in the field for which the ID has not been set.
Bugfix	MDE	Firmware	.21.21	Due to an error during initialization of the MDE, the start/stop inputs were not activated. The problem has been rectified and the MDE is running correctly again.
Bugfix	http	Firmware	.21.21	After a setup was transferred via the http interface, the AC lists could no longer be transferred. The device reported that the lists were not known. This has been rectified with this version.
Enhancement	http / https proxy server	Firmware	.21.21	The device configuration has been extended to allow communication via an explicit TCP proxy. An additional flag has been added to the http configuration to activate the proxy mode (see also the Datafox data protocol for HTTP(S) communication)
Enhancement	AE-MasterIV	Firmware	.21.21	In contrast to the MasterIV design, the EVO design displayed the logo instead of the time. The time is now displayed as standard. If the logo is required, you must switch to Logo once in the device's Bios menu under "Display / Signal volume".



16 Release Version 04.03.22

16.1 Released at February 21th 2024 Firmware 04.03.22.01 DatafoxStudioIV 04.03.22.02 DFCom 04.03.22.02

A detailed description of the functional enhancements can be found in our software companion booklet.

Туре	Aspect	Comp.	.xx.xx	Description of Change or Bugfix
Enhancement	Configuration	Firmware Studio DFCom	.22.01 .22.02 .22.02	A new "multi-configuration" transponder method is now available in the firmware and DatafoxStudioIV. With the help of this transponder method, accessing Mifare/Legic-transponders (optionally with different keys) from a single field function of an input chain or in access control is possible.
Enhancement	RFID Hardware	Firmware	.22.01	Support of the new Datafox transponder module "DF-R46 MB". Details can be found in both the manuals and the software manual for version 04.03.22.
Enhancement	EVO Intera II, Phg Crypt	Firmware	.22.01	Support of the SET_UI_EXT (0x85) command for extended UI control was added. This command can also be used to control the status LEDs, provided the EVO Intera II configuration maps the LEDs to be controlled "By access controller".
Enhancement	EVO Intera II MB, Phg Crypt	Firmware	.22.01	The EVO Intera II MB supports multi-sequence access to DESFire badges for both reading and writing.
Change	U&Z Radio Locks	Firmware	.22.01	Extended check of the ID card data reported by the radio components.
Change	Display Design	Studio	.22.02	The display designer allowed setting the option "Show header to switch between main menu pages" for the AE-MasterIV, which is not reasonable for this device type. This option is not offered any more for the AE-MasterIV.



16.2 Released at February 28th 2024

Firmware 04.03.22.02

DatafoxStudioIV 04.03.22.02

DFCom 04.03.22.02

Туре	Aspect	Comp.	.XX.XX	Description of Change or Bugfix
Enhancement	EVO Intera II MB	Firmware	.22.02	The distinction between Mifare DESFire and Legic Advant ID cards, which share common properties, has been improved by an additional evaluation step.
Bugfix	Transponder method multi configuration	Firmware	.22.02	In rare cases, data could be written to badges with incorrect formatting. Furthermore, under certain conditions, it could happen that the selected configurations were not applied correctly in access control. In addition, when writing data to Legic Advant badges via DataOnCard, there was an error when converting the data. These problems have been resolved.
Change	Transponder method multi configuration	Firmware	.22.02	The data length is cut to the set length for this transponder type if hexadecimal formatting is selected.
Optimization	DF-R46 in MasterIV device	Firmware	.22.02	The routines for processing the DF-R46 have been made more robust regarding messages concerning field faults in order to eliminate side effects such as the incorrect evaluation of a failed configuration or incorrectly read badges.
Bugfix	Device reboot	Firmware	.22.02	In very rare cases, the watchdog could cause display devices to restart unintentionally. This problem no longer exists.
Bugfix	Access control	Firmware	.22.02	When using the Office mode of a U&Z radio component, a restart could occur. This has been fixed with this version.
Bugfix	EVO Intera II	Firmware	.22.02	When using a Datafox specific commands to control the LEDs incorrect displays could occur. This is now fixed.
Bugfix	EVO Intera II	Firmware	.22.02	Datafox Active Light configuration was not applied correctly. This version fixes this.

16.3 Released at March 7th 2024

Firmware 04.03.22.02

DatafoxStudioIV 04.03.22.03

Туре	Aspect	Comp.	.xx.xx.	Description of Change or Bugfix
Bugfix	Active Mode Binding	DFCom	.22.03	The DFCom library did not allow binding an active mode device of type KYO Fourloc to a specific channel. This has been corrected.



16.4 Released at March 22nd 2024

Firmware 04.03.22.03

DatafoxStudioIV 04.03.22.03

Туре	Aspect	Comp.	.xx.xx	Description of Change or Bugfix
Bugfix	Transponder	Firmware	.22.03	When reading the UID of Mifare DESFire badges, if the option "UID as 4 Byte Value" was activated and a fixed length was set for the output format, the 7-byte UID was used instead of retaining the UID shortened to four digits. This has been corrected.
Bugfix	Fingerprint area sensor	Firmware	.22.03	Sporadically, the identification/verification of fingers could take longer than usual, or the process was aborted with "Finger unknown". As of this version, this behavior no longer occurs.
Bugfix	Fingerprint area sensor	Firmware	.22.03	When teaching in fingers, the fingerprint module could occasionally stop working correctly. This was only remedied by restarting the device. This behavior has been corrected. The module works again without any problems.
Bugfix	Fingerprint area sensor	Firmware	.22.03	It was not possible to update the software of the fingerprint module. The device restarted while the new software was being installed. The update is now working properly again.
Bugfix	Fingerprint line sensor, templates on RFID card	Firmware	.22.03	RFID cards with templates without an ID (ID equal to zero) were not accepted and rejected by the system. This security measure has now been deactivated, as there are RFID cards in the field for which the ID has not been set.
Bugfix	MDE	Firmware	.22.03	Due to an error during initialization of the MDE, the start/stop inputs were not activated. The problem has been rectified and the MDE is running correctly again.
Bugfix	http	Firmware	.22.03	After a setup was transferred via the http interface, the AC lists could no longer be transferred. The device reported that the lists were not known. This has been rectified with this version.
Bugfix	Multi-Input	Firmware	.22.03	If a device has both a transponder reader and a barcode reader installed and was booked using a transponder, it could happen that there was a short delay when exiting the "Multi-input" field function. This was caused by switching off the barcode reader and could be corrected.
Bugfix	EVO Intera II	Firmware	.22.03	If no user-specific configuration file was stored in the EVO Intera II, the reader no longer switched to standby mode. The problem has been corrected, now the reader also switches back to standby mode in standard mode.
Enhancement	http / https proxy server	Firmware	.22.03	The device configuration has been extended to allow communication via an explicit TCP proxy. An additional flag has been added to the http configuration to activate the proxy mode (see also the Datafox data protocol for HTTP(S) communication)
Enhancement	AE-MasterIV	Firmware	.22.03	In contrast to the MasterIV design, the EVO design displayed the logo instead of the time. The time is now displayed as standard. If the logo is required, you must switch to Logo once in the device's Bios menu under "Display / Signal volume".
Optimization	DF-R44 Multi-HF	Firmware	.22.03	The distinction between Mifare DESFire and Legic Advant ID cards, which share common properties, has been improved by an additional evaluation step.
Optimization	EVO Intera II MB	Firmware	.22.03	Performance improvements have been achieved when reading and writing data with Mifare DESFire badges. These improvements are particularly evident when key tables are used.



16.5 Released at May 6th 2024

Firmware 04.03.22.04

DatafoxStudioIV 04.03.22.03

Туре	Aspect	Comp.	.xx.xx	Description of Change or Bugfix
Bugfix	Multi Configuration	Firmware	.22.04	Configurations with which the UID of a badge was to be read had to be in front of all others in access control in order to be applied. This could be corrected so that the read configurations for the UID can now also be behind those for data.
Bugfix	EVO Intera II (MB)	Firmware	.22.04	In the keyboard command (phg_crypt protocol: 0x54), which triggers a keyboard entry on an access reader, there was an error in the interpretation of a configuration byte. This sometimes led to incorrect behavior in the way the keystrokes were reported. This has been rectified with this version.
Bugfix	U&Z cylinder	Firmware	.22.04	It was not possible to teach-in and teach-out U&Z locking cylinders because no cylinders were displayed in the Datafox Studio configuration dialog. The problem has been fixed.
Bugfix	AE-MasterIV, Status LEDs	Firmware	.22.04	The on/offline LEDs for the machine status were not activated. The error was found, the LEDs light up again as expected.
Bugfix	EVO 3.5 Pure, GPS	Firmware	.22.04	The GPS module was not recognized by the EVO 3.5 Pure, GPS coordinates were not recorded. The problem has been solved and the GPS module is now working correctly again.
Bugfix	Display, 180°	Firmware	.22.04	The touch evaluation was sporadically faulty on devices that were operated with the display rotated by 180°. The problem has been rectified. The touch evaluation is now working properly again.
Optimization	Transponder reader	Firmware	.22.04	Optimizations have been made to the processing of fingerprint templates with the DF-R43 and DF-R46 MB transponder readers.
Enhancement	Multi Configuration	Firmware	.22.04	Under certain circumstances, certain DESFire and emulated Classic badges could not be read when using the "multi-configuration" transponder type. This problem was resolved by adjusting the read settings.
Enhancement	EVO Intera II MB	Firmware	.22.04	The processing of the DESFire and emulated Classic ID cards described above was made possible with the EVO Intera II MB.
Enhancement	http, Info-Telegram	Firmware	.22.04	The http info telegram has been extended so that the CRC of the setup transmitted via http is also included.



16.6 Released at June 6th 2024

Firmware 04.03.22.05

DatafoxStudioIV 04.03.22.04

Туре	Aspect	Comp.	.xx.xx	Description of Change or Bugfix
Enhancement	Hardware Support	Studio	.22.04	Support for new device types AIO Onetex, AIO Intex, AIO Railtex and EVO Agera II added.
Enhancement	Data on Card / Legic Advant	Studio	.22.04	A note has been added, that "Data On Card" for Legic Advand transponders is available using transponder method "Multi-Config", but is not available when using transponder method "Legic Advant (also Prime)".
Optimization	Security	Studio	.22.04	The OpenSSL library has been update to version 1.1.1w.
Bugfix	IPC	Firmware	.22.05	Under certain circumstances it could happen that characters were sent multiple times when sending characters via HID to the IPC. This bug has been fixed with this version.
Enhancement	Multi-Configuration	Firmware	.22.05	The incompatibility of the new "multi-configuration" transponder method regarding EVO Agera and U&Z locking units has been partially resolved. The EVO Agera and U&Z locking units now always use the first transponder configuration. When creating the setup, care should therefore be taken to ensure that the desired configuration for these two access control device types is always at the top of the list of transponder configurations.
Bugfix	Transponder reader	Firmware	.22.05	In rare cases it could happen that the DF-R43 Legic performed an unexpected restart and therefore did not deliver data requested but the UID of the badge. A suitable bugfix has been implemented for this.
Bugfix	Transponder reader	Firmware	.22.05	In some cases, the message "Error initializing transponder reader" could appear after starting devices with DF-R46 MB installed. This problem has been resolved.
Enhancement	DF-R44	Firmware	.22.05	In order to be able to update the firmware on the DF-R44, extensions were necessary in the firmware of MasterIV devices due to the current firmware version of the DF-R44.
Bugfix	Access control	Firmware	.22.05	If access to a unit was active via time control with the U&Z locking units, the relay could not be switched when a badge was held on another unit that was connected to the same radio module. This problem has been solved.
Bugfix	Access control	Firmware	.22.05	If a badge was removed too early from the field of a U&Z component, an incorrect badge could be reported. This has been corrected with this version.
Bugfix	IPC	Firmware	.22.05	After switching on the IPC via the touch button, there were problems with the DF-R43 Legic with reading the badges in version 04.03.22. This problem has been solved.
Bugfix	Memory	Firmware	.22.05	The safeguard implementation for detecting low memory reserves did not always detect this condition correctly. The logic has been adjusted.



16.7 Released at June 13th 2024

Firmware 04.03.22.06

DatafoxStudioIV 04.03.22.04

DFCom 04.03.22.04

Туре	Aspect	Comp.	.XX.XX	Description of Change or Bugfix
Bugfix	Multi-Configuration	Firmware		The setting "Advant format for Prime card type" for the transponder type "Legic Advant (also Prime)" was not yet evaluated for multi-configuration. This has been corrected.
Bugfix	Access control	Firmware	.22.06	In version 04.03.22.05, U&Z locking units no longer reported badge data. This has now been corrected.
Extension	EVO Intera II	Firmware Studio		The EVO Intera II MB reported interferences in the field via an acoustic signal. This can now be activated or deactivated using the "Activate foreign RFID field detection" option from the Datafox Studio's EVO Intera II configuration dialog.

16.8 Released at July 3rd 2024

Firmware 04.03.22.07

DatafoxStudioIV 04.03.22.04

Туре	Aspect	Comp.	.xx.xx	Description of Change or Bugfix
Bugfix	Access control	Firmware	.22.07	When using access readers with Legic modules, Mifare badges were no longer processed if a Mifare transponder method was configured in the setup. This problem has been resolved.
Bugfix	EVO Intera II Barcode	Firmware	.22.07	In rare cases, it could happen that the EVO Intera II barcode restarted on its own. This problem has been resolved.
Bugfix	Transponder	Firmware	.22.07	In very rare cases, the internal processing of the UID of Mifare Classic ID cards with the DF-R42 or DF-R44 could be misinterpreted, so that the ID cards were not processed further. This problem has been resolved.
Bugfix	Active mode failover	Firmware	.22.07	The timing until the device switches to the 2nd server in active mode has been shortened. There is no longer a pause (com.active_mode.timeout) between server changes. The pause is still performed if only one server is specified and has not responded after com.active_mode.retry attempts.
Bugfix	Fingerprint line sensor, 2 templates on RFID card	Firmware	.22.07	For badges containing two fingerprint templates that were created with a version between 04.03.22.03 and 04.03.22.06, the templates can no longer be read. The only remedy is to recreate the badge with the current version.
Change	http(s)	Firmware	.22.07	Basic authentication is now also supported when transferring files to a server via HTTP(S).
Bugfix	Timeboy	Firmware	.06.12	When sending data via http, the mobile connection could be closed too early, as a result of which the record in the device was not deleted. This only affects devices with the DF-MR04 cellular module installed. The problem has been resolved with this version.



16.9 Released at July 10th 2024

Firmware 04.03.22.08

DatafoxStudioIV 04.03.22.05

DFCom 04.03.22.05

Туре	Aspect	Comp.	.xx.xx	Description of Change or Bugfix
Bugfix	Proximity sensor	Firmware	.22.08	Sensitivity is now setup up depending on the device type.
Bugfix	Hardware support	Studio	.22.05	Detection of the EVO Intera II updated.
Enhancement	Hardware support	Studio	.22.05	Support for Railcon controllers added.

16.10 Released at July 19th 2024

Firmware 04.03.22.09

DatafoxStudioIV 04.03.22.06

Туре	Aspect	Comp.	.xx.xx	Description of Change or Bugfix
Optimization	Proximity sensor	Firmware	.22.09	Optimizations for devices with newer proximity sensors (version 2.2).
Bugfix	http	Firmware	.22.09	When uploading a single fingerprint template using the http command "df_send_file= <path>,finger2", the mode parameter was ignored. The data was always reported in format 1 (0xDF0E) – this has been corrected now.</path>
Bugfix	EVO Intera II	Firmware	.22.09	In order to be able to observe switching times in the RS485 bus, the waiting time of at least 3 ms was activated for the response packets in accordance with the phg_crypt specification. If required, this waiting time can be extended using the setting option in the general parameters.
Optimization	EVO Intera II	Firmware	.22.09	Optimization carried out with regard to tamper detection.
Enhancement	Access control	Firmware	.22.09	Support of the PHG Motio-A (RFID card reader with motorized insertion and retention function).
Enhancement	EVO Intera II MB	Firmware	.22.09	Reading the UID for LEGIC Advant CTC cards extended.
Change	iCode Transponder	Studio	.22.06	Datafox Studio allowed accessing the data blocks 1 to 64 or iCode transponders. The block range has been extended to 0 to 79.



16.11 Released at August 14th 2024

Firmware 04.03.22.10

DatafoxStudioIV 04.03.22.07

Туре	Aspect	Comp.	.XX.XX	Description of Change or Bugfix
Bugfix	KYO Fourloc / U&Z	Studio	.22.07	Associating U&Z radio locks was only possible if the U&Z base station was connected to access bus 1 at the KYO Fourloc. The new Studio version allows this operation for busses 2, 3 and 4 also.
Bugfix	Transponder method Wiegand	Studio	.22.07	The setup editor used to configure the Wiegand transponder method showed unreasonable values starting with version 04.03.22.01. These values had to be corrected before the editor was usable. This problem has been fixed.
Change	Passwords inside the setup	Studio	.22.07	If the setup editor uses a master password, the password values are shown as "***" currently. With this version the editor fields are disabled as well, so that not values can be entered by mistake – which lead to erasing the password with previous versions.
Bugfix	EVO Intera II	Firmware	.22.10	In the response to the PHG command "READ_INPUT (0x49)", the information on the sabotage status was missing. This has been corrected.
Bugfix	Access control	Firmware	.22.10	In rare cases, problems could occur with card processing when using the U&Z locking units in conjunction with Legic Prime. This problem has been resolved.
Extension	Fingerprint	Firmware	.22.10	If fingerprint data is transferred via IFF, any existing header in the binary data is checked. If this differs from the information in the IFF file, the template is not accepted and a system message is generated.