

# Summary of Approvals

Train Radio Systems and Data Radio Systems  
Document No: 1561.050.00001.B.DE.4 | V 21.00 | 03.12.2021

Funkwerk Systems GmbH  
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System	Country	Software	Mode	EC Certificate Module CD valid until:	EC Certificate Module CB (unlimited valid) certified according to TSI CCS:	National Approval	Note 1:	Note 2:
Cab Radio 3U/6U	Switzerland	1M2	digital	---	---	31.12.2028		
Cab Radio 3U/6U	Switzerland	1KM3	digital	---	---	31.12.2029		
MESA 23	Austria	CR_SW 04.09.05	analogue	---	---	31.12.2019	DeBo assessment takes place at CCS On-board Subsystem level; no activity at component level	Recommendation for further use see <a href="https://infrastruktur.oebb.at/de/geschaeftpartner/schienennetz/dokumente-und-daten/gsm-r-funk">https://infrastruktur.oebb.at/de/geschaeftpartner/schienennetz/dokumente-und-daten/gsm-r-funk</a>
MESA 23	Austria	CR_SW 04.09.05	digital	30.03.2023	CR (EU) 2016/919	31.12.2019	DeBo assessment takes place at CCS On-board Subsystem level; no activity at component level	Recommendation for further use see <a href="https://infrastruktur.oebb.at/de/geschaeftpartner/schienennetz/dokumente-und-daten/gsm-r-funk">https://infrastruktur.oebb.at/de/geschaeftpartner/schienennetz/dokumente-und-daten/gsm-r-funk</a>
MESA 23	Austria	CR_SW 04.11.06	analog	---	---	---	DeBo assessment takes place at CCS On-board Subsystem level; no activity at component level	Recommendation for use see <a href="https://infrastruktur.oebb.at/de/geschaeftpartner/schienennetz/dokumente-und-daten/gsm-r-funk">https://infrastruktur.oebb.at/de/geschaeftpartner/schienennetz/dokumente-und-daten/gsm-r-funk</a>
MESA 23	Austria	CR_SW 04.11.06	digital	30.03.2023	---	---	DeBo assessment takes place at CCS On-board Subsystem level; no activity at component level	
MESA 23	Austria	CR_SW 04.11.06	digital	30.03.2023	CR (EU) 2016/919, CIR (EU) 2019/776 CIR (EU) 2020/387 CIR (EU) 2020/420	---		
MESA 23	Austria	CR_SW 04.11.06	digital	30.03.2023	CR (EU) 2016/919, CIR (EU) 2019/776 CIR (EU) 2020/387 CIR (EU) 2020/420	---	DeBo assessment takes place at CCS On-board Subsystem level; no activity at component level	Recommendation for use see <a href="https://infrastruktur.oebb.at/de/geschaeftpartner/schienennetz/dokumente-und-daten/gsm-r-funk">https://infrastruktur.oebb.at/de/geschaeftpartner/schienennetz/dokumente-und-daten/gsm-r-funk</a>
MESA 23	Belgium	CR_SW 04.09.05	digital	30.03.2023	CR (EU) 2016/919	unlimited	exclusively with radio module MT5E	
MESA 23	Czech Republic	CR_SW 04.09.05	analogue	---	---	unlimited	as from 01.09.2015 not longer compatible to SRV lines	see SŽ network statement, Annex F "Rail line radio systems"
MESA 23	Czech Republic	CR_SW 04.09.05	digital	30.03.2023	CR (EU) 2016/919	unlimited	exclusively with radio module MT5E	
MESA 23	Czech Republic	CR_SW 04.10.01	analogue	---	---	unlimited		
MESA 23	Czech Republic	CR_SW 04.10.01	digital	---	---	unlimited		
MESA 23	Germany	CR_SW 04.09.05	analogue	---	---	30.03.2023		GluV according to §27 EIGV
MESA 23	Germany	CR_SW 04.09.05	digital	30.03.2023	CR (EU) 2016/919	30.03.2023	exclusively with radio module MT5E	GluV according to §27 EIGV

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MESA 23	Hungary	CR_SW 04.09.05	analogue	---	---	31.12.2022	with radio module Funkmodul 2-70	
MESA 23	Hungary	CR_SW 04.09.05	digital	30.03.2023	CR (EU) 2016/919	31.12.2022	exclusively with radio module MT5E	
MESA 23	Italy	CR_SW 04.09.05	digital	30.03.2023	CR (EU) 2016/919	see notes	in line with a train vehicle approval, exclusively with radio module MT5E	ompatibility test report of RINA for the component available
MESA 23	Poland	CR_SW 04.07.03 CR_SW 04.08.02 CR_SW 04.09.03 CR_SW 04.09.05	analogue	---	---	unlimited	with radio module Koliber	
MESA 23	Romania	CR_SW 04.08.02 CR_SW 04.09.03 CR_SW 04.09.05	analogue	---	---	10.03.2023		
MESA 23	Serbia	from CR_SW 07.09.03	analogue	---	---	unlimited		
MESA 23	Slovakia	CR_SW 04.09.05	analogue	---	---	unlimited		
MESA 23	Slovakia	CR_SW 04.09.05	digital	30.03.2023	CR (EU) 2016/919	unlimited	exclusively with radio module MT5E	
MESA 23	Slovakia	CR_SW 04.10.01	analogue	---	---	unlimited	UIC 751-3 radio mode and 2 m band	
MESA 23	Slovakia	CR_SW 04.10.01	digital	---	---	unlimited		
MESA 23	Slovakia	CR_SW 04.11.06	analog	---	---	unlimited		
MESA 23	Slovakia	CR_SW 04.11.06	digital	30.03.2023	CR (EU) 2016/919, CIR (EU) 2019/776 CIR (EU) 2020/387 CIR (EU) 2020/420	unlimited		
MESA 23	Switzerland	CR_SW 04.09.05	digital	30.03.2023	2016/919/EU	31.12.2027	exclusively with radio module MT5E	
MESA 23	Switzerland	CR_SW 04.11.04	digital	30.03.2023	CR (EU) 2016/919, CIR (EU) 2019/776 CIR (EU) 2020/387 CIR (EU) 2020/420	31.12.2031		
MESA 24	Belgium	CR_BE 1.05.08	digital	---	2012/88/EU, 2012/696/EU, 2015/14/EU	unlimited 30.01.2018	with radio module MT5E-B with radio module MRM	
MESA 24	Belgium	CR_BE 1.05.09	digital	30.03.2023	CR (EU) 2016/919, CIR (EU) 2019/776 CIR (EU) 2020/387	unlimited		

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					CIR (EU) 2020/420			
MESA 25-01	Switzerland	CR_M25 1.06.02	digital	20.05.2021	CR (EU) 2016/919	31.12.2027		
MESA 25-01	Switzerland	CR_M25 1.07.05	digital	20.05.2021	CR (EU) 2016/919, CIR (EU) 2019/776 CIR (EU) 2020/387 CIR (EU) 2020/420	31.12.2030		
MESA 26	Austria	BASE 02.01 ATR_AT 02.00	analogue	---	---	31.12.2019	DeBo assessment takes place at CCS On-board Subsystem level; no activity at component level	Recommendation for further use see <a href="https://infrastruktur.oebb.at/de/geschaeftspartner/schienennetz/dokumente-und-daten/gsm-r-funk">https://infrastruktur.oebb.at/de/geschaeftspartner/schienennetz/dokumente-und-daten/gsm-r-funk</a>
MESA 26	Austria	BASE 02.01	digital	30.03.2023	CR (EU) 2016/919, CIR (EU) 2019/776	31.12.2019	DeBo assessment takes place at CCS On-board Subsystem level; no activity at component level	Recommendation for further use see <a href="https://infrastruktur.oebb.at/de/geschaeftspartner/schienennetz/dokumente-und-daten/gsm-r-funk">https://infrastruktur.oebb.at/de/geschaeftspartner/schienennetz/dokumente-und-daten/gsm-r-funk</a>
MESA 26	Belgium	BASE 02.00	digital	30.03.2023	CR (EU) 2016/919	unlimited	BASE 02.00 (Patch 19), exclusively with radio module MT5E	DeBo Assessment by Belgorail
MESA 26	Belgium	BASE 02.01	digital	30.03.2023	CR (EU) 2016/919, CIR (EU) 2019/776	unlimited		DeBo Assessment by Belgorail
MESA 26	Bulgaria	BASE 02.00 ATR_BG 02.00	analogue	---	---	see notes	in line with a train vehicle approval	DeBo Assessment by EL Trans Engineering (ETE)
MESA 26	Bulgaria	BASE 02.00	digital	30.03.2023	CR (EU) 2016/919	see notes	in line with a train vehicle approval	DeBo Assessment by EL Trans Engineering (ETE)
MESA 26	Bulgaria	BASE 02.01 ATR_BG 02.00	analogue	---	---	see notes	in line with a train vehicle approval	DeBo Assessment by EL Trans Engineering (ETE)
MESA 26	Bulgaria	BASE 02.01	digital	30.03.2023	CR (EU) 2016/919, CIR (EU) 2019/776	see notes	in line with a train vehicle approval	DeBo Assessment by EL Trans Engineering (ETE)
MESA 26	Czech Republic	BASE 02.00 ATR_CS 02.00	analogue	---	---	unlimited		
MESA 26	Czech Republic	BASE 02.00	digital	30.03.2023	CR (EU) 2016/919	unlimited	BASE 02.00 (Patch 19), exclusively with radio module MT5E	
MESA 26	Czech Republic	BASE 02.01 ATR_CS 02.00	analogue	---	---	unlimited		
MESA 26	Czech Republic	BASE 02.01	digital	30.03.2023	CR (EU) 2016/919	unlimited		
MESA 26	Germany	BASE 02.00.19 ATR_DE 02.00.31 ATR_DE_VZF 02.00.30	analogue	---	---	20.05.2021		GluV according to §27 EIGV, will not be extended; stock can continue to be operated

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MESA 26	Germany	BASE 02.00.19	digital	30.03.2023	CR (EU) 2016/919, CIR (EU) 2019/776	20.05.2021	exclusively with radio module MT5E	GluV according to §27 EIGV, will not be extended; stock can continue to be operated
MESA 26	Germany	BASE 02.01.19 ATR_DE 02.00.31 ATR_DE_VZF 02.00.30	analogue	---	---	30.03.2023		GluV according to §27 EIGV
MESA 26	Germany	BASE 02.01.19	digital	30.03.2023	CR (EU) 2016/919	30.03.2023	exclusively with radio module MT5E	GluV according to §27 EIGV
MESA 26	Germany	BASE 02.01.32 ATR_DE 02.01.01 ATR_DE_VZF 02.01.01	analog	---	---	30.03.2023		GluV according to §27 EIGV
MESA 26	Germany	BASE 02.01.32	digital	30.03.2023	CR (EU) 2016/919, CIR (EU) 2019/776 CIR (EU) 2020/387 CIR (EU) 2020/420	30.03.2023		GluV according to §27 EIGV
MESA 26	Hungary	BASE 02.00 ATR_HU 02.00.23	analogue	---	---	31.12.2022	BASE 02.00 (Patch 19)	
MESA 26	Hungary	BASE 02.00	digital	30.03.2023	CR (EU) 2016/919	31.12.2022	BASE 02.00 (Patch 19), exclusively with radio module MT5E	
MESA 26	Hungary	BASE 02.01 ATR_HU 02.01.07	analogue	---	---	unlimited	BASE 02.01 (Patch 19)	
MESA 26	Hungary	BASE 02.01	digital	30.03.2023	CR (EU) 2016/919, CIR (EU) 2019/776	unlimited	BASE 02.01 (Patch 19)	
MESA 26	Italy	BASE 02.00	digital	30.03.2023	CR (EU) 2016/919	see notes	BASE 02.00 (Patch 19), exclusively with radio module MT5E	compatibility test report of RINA for the component available
MESA 26	Italy	BASE 02.01	digital	30.03.2023	CR (EU) 2016/919, CIR (EU) 2019/776	see notes	BASE 02.01 (Patch 19) in line with a train vehicle approval	compatibility test report of RINA for the component available
MESA 26	Poland	BASE 02.01 ATR_PL 02.01	analog	---	---	unlimited		
MESA 26	Poland	BASE 02.01	digital	30.03.2023	CR (EU) 2016/919, CIR (EU) 2019/776 CIR (EU) 2020/387 CIR (EU) 2020/420	unlimited		
MESA 26	Romania	BASE 02.00 ATR_RO 02.00	analogue	---	---	17.12.2021		
MESA 26	Romania	BASE 02.00	digital	30.03.2023	CR (EU) 2016/919, CIR (EU) 2019/776	17.12.2021	exclusively with radio module MT5E	
MESA 26	Romania	BASE 02.01 ATR_RO 02.00	analogue	---	---	17.12.2021		

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MESA 26	Romania	BASE 02.01	digital	30.03.2023	CR (EU) 2016/919, CIR (EU) 2019/776	17.12.2021		
MESA 26	Serbia	CRA_M26 1.00.04	analogue	---	---	unlimited		
MESA 26	Slovakia	BASE 02.00 ATR_SK 02.00	analogue	---	---	unlimited	BASE 02.00 (Patch 19)	
MESA 26	Slovakia	BASE 02.00	digital	30.03.2023	CR (EU) 2016/919	unlimited	BASE 02.00 (Patch 19), exclusively with radio module MT5E	
MESA 26	Slovakia	BASE 02.01 ATR_SK 02.00	analogue	---	---	unlimited		
MESA 26	Slovakia	BASE 02.01	digital	30.03.2023	CR (EU) 2016/919, CIR (EU) 2019/776	unlimited		
MESA 26	Slovakia	BASE 02.01 ATR_SK 02.01	analog	---	---	unlimited	BASE 02.01 (Patch 32)	
MESA 26	Slovakia	BASE 02.01	digital	30.03.2023	CR (EU) 2016/919, CIR (EU) 2019/776 CIR (EU) 2020/387 CIR (EU) 2020/420	unlimited	BASE 02.01 (Patch 32)	
MESA 26	Switzerland	BASE 02.00	digital	30.03.2023	CR (EU) 2016/919	31.12.2027	BASE 02.00 (Patch 19), exclusively with radio module MT5E	
MESA 26	Switzerland	BASE 02.01	digital	30.03.2023	CR (EU) 2016/919	31.12.2029	BASE 02.01 (Patch 19) exclusively with radio module MT5E	
MESA 26	Switzerland	BASE 02.01	digital	30.03.2023	CR (EU) 2016/919, CIR (EU) 2019/776 CIR (EU) 2020/387 CIR (EU) 2020/420	31.12.2031	BASE 02.01 (Patch 32)	
MESA 26-N	Belgium	CR_M26 1.03.11	digital	30.03.2023	2012/88/EU, 2012/696/EU, 2015/14/EU	unlimited		
MESA 26-N	Belgium	CR_M26 1.04.09	digital	30.03.2023	VO (EU) 2016/919, DVO (EU) 2019/776, DVO (EU) 2020/387, DVO (EU) 2020/420	unlimited		
TRS6000	Austria	4.2.0	digital	22.06.2023	CR (EU) 2016/919	31.12.2020	Dual-Mode in combination with TFZ21 or CAB63xx and SW version 2.3.0	DeBo assessment takes place at the level of the CCS On-board Subsystem; no activity at component level; Recommendation for further use see <a href="https://infrastruktur.oebb.at/de/geschaeftspartner/schiennetz/dokumente-und-daten/gsm-r-funk">https://infrastruktur.oebb.at/de/geschaeftspartner/schiennetz/dokumente-und-daten/gsm-r-funk</a>



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TRS6000	Austria	6.0.0	digital	22.06.2023	CR (EU) 2016/919	31.12.2020	Dual-Mode in combination with TFZ21 or CAB63xx and SW version 2.3.0	DeBo assessment takes place at the level of the CCS On-board Subsystem; no activity at component level; Recommendation for further use see <a href="https://infrastruktur.oebb.at/de/geschaeftspartner/schiennetz/dokumente-und-daten/gsm-r-funk">https://infrastruktur.oebb.at/de/geschaeftspartner/schiennetz/dokumente-und-daten/gsm-r-funk</a>
TRS6000	Bulgaria	6.0.0	digital	22.06.2023	CR (EU) 2016/919	unlimited	Dual-Mode in combination with CAB63xx and SW version 2.0.0	
TRS6000	Czech Republic	4.2.0	digital	22.06.2023	CR (EU) 2016/919	31.12.2021	Dual-Mode in combination with CAB63xx	
TRS6000	Czech Republic	6.0.0	digital	22.06.2023	CR (EU) 2016/919	31.12.2021	Dual-Mode in combination with CAB63xx	
TRS6000	Germany	4.2.0	digital	22.06.2023	CR (EU) 2016/919	22.06.2021	Dual-Mode in combination with TFZ21 and SW version 2.2.1	GluV according to §27 EIGV, will not be extended; stock can continue to be operated
TRS6000	Germany	6.0.0	digital	22.06.2023	CR (EU) 2016/919	22.06.2021	Dual-Mode in combination with TFZ21 or CAB63xx and SW version 2.2.1	GluV according to §27 EIGV, will not be extended; stock can continue to be operated
TRS6000	Hungary	4.2.0	digital	22.06.2023	CR (EU) 2016/919	31.12.2022	Dual-Mode in combination with CAB63xx	
TRS6000	Hungary	6.0.0	digital	22.06.2023	CR (EU) 2016/919	31.12.2022	Dual-Mode in combination with CAB63xx	
TRS6000	Serbia	6.0.0	analog	22.06.2023	CR (EU) 2016/919	04.03.2026	Dual-Mode in combination with CAB63xx	
TRS6000	Slovakia	6.0.0	digital	22.06.2023	CR (EU) 2016/919	unlimited	Dual-Mode in combination with CAB63xx and SW version 2.0.0	
TRS6000	Switzerland	4.2.0	digital	22.06.2023	CR (EU) 2016/919	31.12.2029		
TRS6000	Switzerland	6.0.0	digital	22.06.2023	CR (EU) 2016/919	31.12.2029		
<b>EC Certification of the Interoperability Constituent EC Type Examination (Module CB)</b>								
MESA 23	EC type examination	CR_SW 04.09.05	digital	30.03.2023	CR (EU) 2016/919, CIR (EU) 2019/776 CIR (EU) 2020/387 CIR (EU) 2020/420	---		
MESA 23	EC type examination	CR_SW 04.11.06	digital	30.03.2023	CR (EU) 2016/919, CIR (EU) 2019/776 CIR (EU) 2020/387 CIR (EU) 2020/420	---		

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MESA 24	EC type examination	CR_BE 1.05.08	digital	30.03.2023	CR (EU) 2016/919, CIR (EU) 2019/776	---		
MESA 24	EC type examination	CR_BE 1.05.09	digital	30.03.2023	CR (EU) 2016/919, CIR (EU) 2019/776 CIR (EU) 2020/387 CIR (EU) 2020/420	---		
MESA 25	EC type examination	CR_M25 1.06.02	digital	20.05.2021	CR (EU) 2016/919	---		
MESA 25	EC type examination	CR_M25 1.07.05	digital	20.05.2021	CR (EU) 2016/919, CIR (EU) 2019/776 CIR (EU) 2020/387 CIR (EU) 2020/420	--		
MESA 26	EC type examination	BASE 02.00	digital	30.03.2023	CR (EU) 2016/919, CIR (EU) 2019/776	---		
MESA 26	EC type examination	BASE 02.01	digital	30.03.2023	CR (EU) 2016/919, CIR (EU) 2019/776 CIR (EU) 2020/387 CIR (EU) 2020/420	---		
MESA 26-N	EC type examination	CR_M26 1.03.11	digital	30.03.2023	2012/88/EU, 2012/696/EU, 2015/14/EU	---		
MESA 26-N	EC type examination	CR_M26 1.04.09	digital	30.03.2023	CR (EU) 2016/919, CIR (EU) 2019/776 CIR (EU) 2020/387 CIR (EU) 2020/420	---		
MT5E-xD	EC type examination	8.33.05	digital	30.03.2023	CR (EU) 2016/919, CIR (EU) 2019/776 CIR (EU) 2020/387 CIR (EU) 2020/420			
RIU-ETCS 5E	EC type examination	EDOR 1.1.1	digital	30.03.2023	CR (EU) 2016/919, CIR (EU) 2019/776 CIR (EU) 2020/387 CIR (EU) 2020/420	---		
RIU-ETCS 5E	EC type examination	EDOR 1.2.0	digital	30.03.2023	CR (EU) 2016/919, CIR (EU) 2019/776 CIR (EU) 2020/387 CIR (EU) 2020/420	---		
RIU-ETCS 5E (F)	EC type examination	EDORF 1.0.0	digital	30.03.2023	CR (EU) 2016/919, CIR (EU) 2019/776 CIR (EU) 2020/387 CIR (EU) 2020/420	---		
RIU-ETCS 800	EC type examination	REL_2.3.27	digital	30.03.2023	2012/88/EU, 2012/696/EU	---		

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TRS6000	EC type examination	4.2.0	digital	22.06.2023	CR (EU) 2016/919, CIR (EU) 2019/776 CIR (EU) 2020/387 CIR (EU) 2020/420	---		
TRS6000	EC type examination	6.0.0	digital	22.06.2023	CR (EU) 2016/919, CIR (EU) 2019/776 CIR (EU) 2020/387 CIR (EU) 2020/420	---		
<b>Quality Management System Approval (Module CD)</b>								
MESA 2x, RIU- ETCS, Radio modules	Quality Management System Approval			30.03.2023	---	---		
TRS6000	Quality Management System Approval			22.06.2023	---	---		
<b>Countries where no national approval as component is necessary / possible</b>								
	Austria		digital			---	DeBo assessment takes place at CCS On-board Subsystem level; no activity at component level	
	Croatia		analogue			---	in line with a train vehicle approval	
	Denmark		digital			---	EC certification of the component sufficient	
	Finland		digital			---	EC certification of the component sufficient	
	France		digital			---	EC certification of the component sufficient	
	Great Britain		analogue, digital			---	DeBo Assessment necessary	
	Latvia		digital			---	EC certification of the component sufficient	
	Luxembourg		digital			---	EC certification of the component sufficient	
	Netherlands		digital			---	EC certification of the component sufficient	
	Norway		digital			---	EC certification of the component sufficient	



# Summary of Approvals

Train Radio Systems and Data Radio Systems  
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System	Country	Software	Mode	EC Certificate Module CD valid until:	EC Certificate Module CB (unlimited valid) certified according to TSI CCS:	National Approval	Note 1:	Note 2:
	Slovenia		digital			---	EC certification of the component sufficient	
	Spain		digital			---	EC certification of the component sufficient	
	Sweden		digital			---	EC certification of the component sufficient	