

1.

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			01.11.2018	31.12.2024
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((-)	1		" "	
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/			()																
				2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030			
	5G/IMT-2020)	2019

1. 5G/IMT- 2020. 5G/IMT-2020, 3 GPP

2. - ,

3. 21 2020 . 2192 « , 14

- « 58048-2017. 5G/IMT-2020, 5.1.2 »:

- « , 16 « » »;

- « - »; 5G/IMT-2020 17 « »

4. « »

5. « »; « »; « »;

/			()																	
				2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030				
	OpenRAN " " " " 2030																			
2023 2030				OpenRAN	" "	8	"	,						5 "	"					4G/5G c "
2	-																			
2.1		-		0,000	2019	-	13,0 000	19,0 000	16,0 000	41,0 000	16,0 000	16,0 000	-	-	-	-	-	-	()	
																				2019

/			()																
				2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030			

1. (- -)

2. (open-source), open-source / -

3. () , ,

2.2		-		0,000	2020	-	-	6,000	25,000	110,000	120,000	125,000	-	-	-	-	-	-	()	
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2019

1. 5 2019 . 1598.

2. ,

/			()																	
				2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030				
3.	()	,	,																	
4.																		()	,	
5.			()																	
2.3	()	-	100,000	2019	-	100,000 0	120,000 0	120,000 0	150,000 0	165,000 0	180,000 0	-	-	-	-	-	-	()	-	
1.																				
2.																				

30.04.2019 529.

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/			()																			
				2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030						
1.			«																» (- «)	3	. 2019 .	
2.		2020-2024 .																				
3.		8,6		2020-2024 .																		
		10		2020-2024 .																		
2.5		-		0,0000	2019	-	-	10,0 000	20,0 000	30,0 000	45,0 000	-	-	-	-	-	-	-	()			2019

/			()																		
				2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030					
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1.	«	»	,																		
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3.																					
2.7	«	-		1,0000	2020	-	-	-	1,00 00	1,00 00	1,00 00	1,00 00	-	-	-	-	-	-	-	()	2019

/			()																
				2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030			
- , ;																			
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2. , « »																			
2.8		-		0,0000	2022	-	-	-	-	14,0000	-	-	-	-	-	-	-	()	2019
1. « » (-) .2. :																			
- ; (-) ;																			
.4. , « » .3. ;																			

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				2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030				
2.9		-		0,0000	2022	-	-	-	-	10,0000	-	-	-	-	-	-	-	-	()	-

1. (- « »).

2. - ;
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		2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030						
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2.1 1	" - " ," " " "	-	0,0000	2023	-	-	-	-	-	-	4,00 00	3,00 00	-	-	-	-	-	-	()	2019
1.	« - » ,																			

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				2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030				
<p>« » « » 2030 :</p> <p>« » 2030 « »</p> <p>,-</p> <p>;</p> <p>;</p> <p>2. «</p> <p>» 2030 . 3.</p> <p>« - » ,</p>																				
3																				
3.1	" "	-		0,0000	2019	-	6,00 00	7,00 00	9,00 00	6,00 00	3,00 00	10,0 000	-	-	-	-	-	-	()	2019
1.	3 2019 . 555.																			
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3.2.	,	0,00	0,00	0,00	232 369,7 0	919585.5								
3.3.	-	0,00	0,00	18 415,00	18 415,00	18 415,00	38 934,70	38 934,70	38 934,70	59 219,70	59 219,70	59 219,70	59 219,70	239974.2

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1.1	" " " "	01.01.20 20	31.12.2024			. .		
1.1. 1	" () () - " , : 0.0000	-	30.04.20 21			. . .	-	" "
1.1. 2	" () "	-	30.06.20 21			. . .	-	" "

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1.1. 3	" () () ()"), : 0.0000	-	30.07.20 21			. . .	-	" "
1.1. 4	" ()" , : 0.0000	-	31.12.20 21			. . .	-	" "
1.1. 5	" () , , ()" , : 0.0000	-	31.12.20 21			. . .	-	" "
1.1. 6	"	-	30.03.20 22			. . .	-	

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	() " , :0.0000							" "
1.1. 7	" () " " " " " , :0.0000	-	31.03.20 22			. . .	-	" "
1.1. 8	" () () - "	-	30.04.20 22			. . .	-	" "
1.1. 9	" () (-	30.07.20 22			. . .	-	

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1.1. 10	" ()"	-	31.12.20 22			. . .	-	" "
1.1. 11	" (,) , ()"	-	31.12.20 22			. . .	-	" "
1.1. 12	" (:) 1.0000 " , ,	-	30.03.20 23			. . .	" "	
1.1.		-	31.03.20			. . .		

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	1.0000 ,)" , :		-					
1.1. 16	" ()" , (: 1.0000 ,	-	31.12.20 23			...		
1.1. 17	" (,) , (: 1.0000)" , ,	-	31.12.20 23			...	/ / ,	
1.1. 18	" (:) 1.0000 " , ,	-	30.03.20 24			...	" "	
1.1. 19	" ()	-	31.03.20 24			...	" "	

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1.1. 20	" () () - " , : 1.0000 ,	-	30.04.20 24			. . .	/ , - /	
1.1. 21	" () () () " , : 1.0000 ,	-	30.07.20 24			. . .		

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1.1.22	")" , (: 1.0000 ,	-	31.12.2024			. . .		
1.1.23	" (,) , (: 1.0000)" ,	-	31.12.2024			. . .	/ /	
1.2	" 5G/IMT-2020 "	01.01.2021	31.12.2024			. . .		
1.2.1	" () () - "	-	30.04.2021			. . .	-	" "

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1.2. 2	" () (())"	-	31.07.20 21			.	-	" "
1.2. 3	" () " , : 0.0000	-	31.12.20 21			.	-	" "
1.2. 4	" ()" , (: 0.0000	-	31.12.20 21			.	-	" "
1.2. 5	" () , ,	-	31.12.20 21			.	-	

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	(:0.0000)" ,							" "
1.2. 6	" () "	-	31.03.20 24			.		" "
1.2. 7	" () () - "	-	30.04.20 24			.	()	" "
1.2. 8	" () , ()"	-	30.04.20 24			.	() , ()	" "
1.2. 9	" "	-	31.07.20 24			.	« »	

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	" : 0.0000 "" ,		-					" "
1.2. 10	" () ())"	-	31.12.20 24			. .	()	" "
1.2. 11	" ()"	-	31.12.20 24			. .	()	" "
1.3	" " ""	01.01.20 20	31.12.2024			. .		

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1.3. 1	" () () -" "	-	30.04.20 21			.	-	" "
1.3. 2	" () () ())"	-	31.12.20 21			.	-	" "
1.3. 3	" () " , : 0.0000	-	31.12.20 21			.	-	" "
1.3. 4	" ()" , 0.0000 :	-	31.12.20 21			.	-	

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1.3. 5	" (,) , ()" : 0.0000	-	31.12.20 21			.	-	" "
1.3. 6	" () "	-	28.02.20 22			.	-	" "
1.3. 7	" () - () " : 0.0000	-	30.04.20 22			.	-	" "
1.3. 8	"	-	30.09.20 22			.	-	" "

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1.3. 12	" (:) 1.0000 " , ,"	-	28.02.20 23			.	" "	" "
1.3. 13	" () () - :" 1.0000 " , ,"	-	30.04.20 23			.	- ,	
1.3. 14	" () ())" , : 1.0000 ,	-	30.09.20 23			.		

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	(: 1.0000 " ,							
1.3.19	" () (: 1.0000 " ,	-	30.04.2024			.	-	
1.3.20	" " " " : 1.0000 ,	-	31.12.2024			.	" " " "	
1.3.21	" (: 1.0000 ,	-	31.12.2024			.		
1.3.		-	31.12.20			.		

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22	" (,) , (: 1.0000)" ,		24		.	,
1.4	" " " 4G/5G OpenRAN " " 2030 "	18.10.2023	31.12.2023		.	
1.4.1	" () () ()	-	30.11.2023		.	

/	() ,							()
) " , : 1.0000 ,		-					
1.4. 2	" () () - "	-	31.12.20 23			.	-	
1.4. 3	" () () ())"	-	31.12.20 23			.	() () ())	
1.4. 4	" () "	-	31.12.20 23			.	()	
1.4. 5	"	-	31.12.20 23			.	"	

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1.4.6	" : 1.0000 ; " "" ;	-	31.12.2023			.	"	
1.4.7	" ()"	-	31.12.2023			.	-	
1.4.8	" () , ()"	-	31.12.2023			.	-	
2	-							
2.1	"	01.01.2019	31.12.2024			.		

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	"							
2.1. 1	" (,) ,)"	-	31.07.20 19			.	-	" "
2.1. 2	" () -) "	-	31.08.20 19			.	-	" "
2.1. 3	" () (())"	-	30.09.20 19			.	-	" "
2.1. 4	" ()"	-	20.12.20 19			.	-	" "

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2.1. 5	" () "	-	31.12.20 19			.	-	" "
2.1. 6	" (,) , () "	-	31.07.20 20			.	-	" "
2.1. 7	" () () - "	-	31.08.20 20			.	-	" "
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2.1. 9	" ()"	-	20.12.20 20			.	-	" "
2.1. 10	" () "	-	31.12.20 20			.	-	" "
2.1. 11	" () () ()	-	30.03.20 21			.	-	" "

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2.1. 12	" (,))"	-	31.03.20 21			.	-	" "
2.1. 13	") () - "	-	30.04.20 21			.	-	" "
2.1. 14	" (: 0.0000)" ,	-	20.12.20 21			.	-	" "
2.1. 15	"	-	31.12.20 21			.	-	

/	() ,							()
	() " , : 0.0000		-					" "
2.1. 16	" () () ())" , : 0.0000	-	30.03.20 22			. .	-	" "
2.1. 17	" () " , : 0.0000	-	31.03.20 22			. .	-	" "
2.1. 18	" () , ())" , : 0.0000	-	31.03.20 22			. .	-	" "

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2.1. 19	" () - () , : 0.0000	-	30.04.20 22			.	-	" "
2.1. 20	" , / - (open-source) " ""	-	30.05.20 22			.		" "
2.1. 21	"	-	30.09.20 22			.	-	" "

/	() ,							()
	: 0.0000 " ,		-					
2.1. 22	")" (-	31.12.20 22			. .	-	" "
2.1. 23	" () () ()" , : 1.0000 ,	-	30.03.20 23			. .		
2.1. 24	" () " ,	-	31.03.20 23			. .	" "	

/	() ,		-					()
	: 1.0000 ,							
2.1. 25	" () , (: 1.0000)" ,	-	31.03.20 23			.	/ /	
2.1. 26	" () (: 1.0000)" ,	-	30.04.20 23			.	/ , / -	
2.1. 27	" : 1.0000 " ,	-	30.09.20 23			.		

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2.1. 28	" ()" , (: 1.0000 ,	-	31.12.20 23			.	,	
2.1. 29	" () () ()" , (: 1.0000 ,	-	31.03.20 24			.		
2.1. 30	"	-	31.03.20 24			.	"	

/	() ,					()
	(:) 1.0000 " ,		-			
2.1. 31	" () , (: 1.0000)" ,	-	31.03.20 24		. . / /	
2.1. 32	" () (: 1.0000)" ,	-	30.04.20 24		. . / , / -	
2.1. 33	"	-	30.09.20 24		. .	

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	: 1.0000 " ,		-			
2.1. 34	" (: 1.0000 ,)" ,	-	31.12.20 24		.	,
2.2	" , "	01.01.20 20	31.12.2024		.	
2.2. 1	" (,)	-	31.07.20 20		.	-

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2.2. 2	") () - "	-	31.08.20 20			. .	-	" "
2.2. 3	")" (-	20.12.20 20			. .	-	" "
2.2. 4	") ())"	-	31.12.20 20			. .	-	" "

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		-	31.12.20 20					
2.2. 5	" () "	-	31.12.20 20			.	-	" "
2.2. 6	" () , , ()"	-	31.07.20 21			.	-	" "
2.2. 7	" ()) () - "	-	31.08.20 21			.	-	" "
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	() 0.0000)" , :		-					
2.2. 9	" () " , : 0.0000	-	31.12.20 21			. .	-	" "
2.2. 10	" 0.0000)" , (: :	-	31.12.20 21			. .	-	" "
2.2. 11	" () " , : 0.0000	-	31.03.20 22			. .	-	" "
2.2. 12	"	-	30.06.20 22			. .	-	

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	: 0.0000",		-					" "
2.2. 13	" (,) ,)"	-	31.07.20 22			. .	-	" "
2.2. 14	" () () - "	-	31.08.20 22			. .	-	" "
2.2. 15	" () () ())"	-	31.12.20 22			. .	-	" "

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		-	31.12.2022					
2.2.16	")" (-	31.12.2022			.	-	" "
2.2.17	" (:) " , 1.0000 ,	-	31.03.2023			.	" "	
2.2.18	" : " , 1.0000 ,	-	30.06.2023			.		
2.2.19	" (,) , (: 1.0000)" ,	-	31.07.2023			.	,	

/	() ,							()
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2.2. 20	" () () - " , : 1.0000 ,	-	31.08.20 23			.	-	
2.2. 21	" () ())" , : 0.0000 ,	-	31.12.20 23			.		
2.2. 22	" ()" , : 1.0000 ,	-	31.12.20 23			.		
2.2. 23	"	-	31.03.20 24			.	"	

/	() ,					()
	(:) " , 1.0000 ,		-			
2.2. 24	" : " , 1.0000 ,	-	30.06.20 24		.	
2.2. 25	" (,) , (:)" , 1.0000 ,	-	31.07.20 24		. ,	
2.2. 26	" () () - " , : 1.0000 ,	-	31.08.20 24		. - ,	
2.2.		-	31.12.20		.	

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27	" () () ()" , : 1.0000 ,		24			.		
2.2. 28	" ()" , (: 1.0000 ,	-	31.12.20 24			.		
2.3	" () "	01.01.20 19	31.12.2025			.		
2.3.	"	-	07.11.20			.		"

/	() ,							()
			-					
1	"		18				-	"
2.3. 2	" "	-	12.03.20 19			. . .	-	" "
2.3. 3	" "	-	04.04.20 19			. . .	-	" "
2.3. 4	" "	-	18.04.20 19			. . .	-	" "
2.3. 5	" "	-	18.04.20 19			. . .	-	" "

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2.3. 6	"	-	23.05.20 19			.	-	" "
2.3. 7	"	-	31.05.20 19			.	-	" "
2.3. 8	" ()"	-	31.05.20 19			.	-	" "
2.3. 9	" "	-	07.06.20 19			.	-	" "
2.3. 10	" (,)	-	10.07.20 19			.	-	" "

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	,							
2.3. 11	" () () - () "	-	31.07.20 19			. . .	- "	" "
2.3. 12	" () () ())"	-	30.09.20 19			. . .	" "	-
2.3. 13	" ()"	-	30.11.20 19			. . .	-	" "
2.3. 14	"	-	31.12.20 19			. . .	-	" "

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	() "							
2.3. 15	" (,))"	-	21.02.20 20			. . .	-	" "
2.3. 16	" () () - "	-	26.02.20 20			. . .	-	" "
2.3. 17	" () () ())"	-	30.04.20 20			. . .	-	" "

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2.3. 22	" () "	-	31.03.20 21			...	-	" "
2.3. 23	" () (())"	-	30.04.20 21			...	-	" "
2.3. 24	" 0.0000)" , (:)"	-	31.12.20 21			...	-	" "
2.3. 25	"	-	31.03.20 22			...	-	

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	() : 0.0000 "		-					" "
2.3. 26	" : 0.0000 "	-	30.06.20 22			. . .		" "
2.3. 27	() "	-	30.09.20 22			. . .		" "
2.3. 28	" () () - "	-	31.12.20 22			. . .	-	" "
2.3. 29	"	-	31.12.20 22			. . .	-	

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	() () ())"		-					" "
2.3. 30	" ()"	-	31.12.20 22			. . .	-	" "
2.3. 31	" () , ()"	-	31.12.20 22			. . .	-	" "
2.3. 32	" (:) " , 1.0000 ,	-	31.03.20 23			. . .	" "	

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2.3. 33	" : 1.0000 "	-	30.06.20 23			...		
2.3. 34	" () () - : 1.0000 "	-	30.09.20 23			...	- ,	
2.3. 35	" () () ()" 1.0000 , :	-	31.12.20 23			...		
2.3. 36	" (-	31.12.20 23			...		

/	() ,							()
	1.0000 ,)" , :		-					
2.3. 37	" (,) , (: 1.0000)" , ;	-	31.12.20 23			. . .	,	
2.3. 38	" (:) 1.0000 " , ;	-	31.03.20 24			. . .	" "	
2.3. 39	" : 1.0000 " , ;	-	30.06.20 24			. . .		
2.3.		-	30.09.20			. . .		

/	() ,							()
			-					
40	" (: 1.0000 " ,		24				"	
2.3. 41	" () - (: 1.0000 " ,	-	31.12.20 24			. . .	-	
2.3. 42	" () () " , : 1.0000 ,	-	31.12.20 24			. . .		
2.3. 43	" (-	31.12.20 24			. . .		

/	() ,							()
	1.0000 ,)" , :		-					
2.3.44	" (,) , (: 1.0000)" , ;	-	31.12.2024			. . .	,	
2.4	"	01.01.2019	31.12.2024			.		
2.4.1	" (,) , ()"	-	22.11.2019			.	-	" "

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2.4. 2	" () () - () "	-	27.11.20 19			.	-	" "
2.4. 3	" ()" ()	-	20.12.20 19			.	-	" "
2.4. 4	" (,) , ()"	-	01.06.20 20			.	-	" "
2.4. 5	" () () - () "	-	01.07.20 20			.	-	" "
2.4. 6	" ()	-	20.12.20 20			.	-	

/	(),							()
	0.0000)" , :		-					" "
2.4. 7	" (,) , ()")"	-	01.06.20 21			. .	-	" "
2.4. 8	") () () - "	-	01.07.20 21			. .	-	" "
2.4. 9	") " , () : 0.0000	-	25.12.20 21			. .	-	" "
2.4. 10	" (	-	31.12.20 21			. .	-	

/	(),							()
			-					
	) " , : 0.0000							" "
2.4. 11	" " , : 0.0000	-	28.02.20 22			.	-	" "
2.4. 12	" " , : 0.0000	-	30.05.20 22			.	" "	" "
2.4. 13	" " , : 0.0000	-	30.09.20 22			.	" "	" "
2.4. 14	" " , : 0.0000	-	31.12.20 22			.	" "	" "

/	(),							()
	() - () :0.0000 "		-				() -	" "
2.4. 15	" () "	-	31.12.20 22			.	" "	" "
2.4. 16	" ()"	-	31.12.20 22			.	" "	" "
2.4. 17	" () , ()"	-	31.12.20 22			.	" "	" "

/	() ,							()
		-						
2.4. 18	" " , : 1.0000 ,	-	28.02.20 23			.	" "	
2.4. 19	" " , : 1.0000 ,	-	31.05.20 23			.	" "	
2.4. 20	" " , : 1.0000 ,	-	30.09.20 23			.	" "	
2.4. 21	" () - () " , : 1.0000 ,	-	31.12.20 23			.	" " - ()	
2.4.		-	31.12.20			.		

/	() ,							()
			-					
22	" (:) 1.0000 " ,		23			.	" "	
2.4. 23	" (: 1.0000 ,)" ,	-	31.12.20 23			.		
2.4. 24	" (,) (: 1.0000)" ,	-	31.12.20 23			.	" "	
2.4. 25	" : 1.0000 , " ,	-	29.02.20 24			.	" "	
2.4.		-	30.04.20			.		

/	() ,							()
			-					
26	" () , (: 1.0000)" ,		24			.	" "	
2.4. 27	" " , : 1.0000 ,	-	31.05.20 24			.	" "	
2.4. 28	" " , : 1.0000 ,	-	30.09.20 24			.	" "	
2.4. 29	" () " , (: 1.0000) ,	-	31.12.20 24			.	" "	
2.4.		-	31.12.20			.		

/	() ,							()
			-					
30	" ()" , (: 1.0000 ,		24			.		
2.5	" , , "	01.01.20 20	31.12.2023			. . .		
2.5. 1	" () , , ()"	-	30.12.20 19			. . .		
2.5. 2	" ( ) (	-	31.12.20 19			. . .		

/	(),		-					()
	())"							
2.5. 3	") () - " () "	-	30.08.20 20			. . .		
2.5. 4	" )" (	-	20.12.20 20			. . .		
2.5. 5	") "	-	31.12.20 20			. . .		
2.5. 6	" (,) ,	-	19.07.20 21			. . .	-	,

/	() ,		-					()
	(:0.0000)" ,						-	
2.5. 7	" () () - " , :0.0000	-	30.07.20 21			. . .		
2.5. 8	" () () ())"	-	20.08.20 21			. . .	« » () ,,	

/	(),							()
			-					
2.5. 9	" ()" , (: 0.0000	-	20.12.20 21			. . .		
2.5. 10	" () " , : 0.0000	-	24.12.20 21			. . .	,	
2.5. 11	" () , (: 0.0000)" ,	-	01.02.20 22			. . .	- ,	
2.5. 12	" : 0.0000 " ,	-	30.04.20 22			. . .	-	

/	(),							()
			-					" "+
2.5. 13	" () () ()"	-	22.08.20 22			. . .	- « » () , ,	
2.5. 14	" () -	-	31.08.20 22			. . .		

/	(),		-					()
	() "							
2.5. 15	" ()"	-	20.12.20 22			. . .		
2.5. 16	" () "	-	23.12.20 22			. . .	,	
2.5. 17	" ()"	-	28.02.20 23			. . .	/ /	
2.5. 18	" "	-	15.04.20 23			. . .		

/	(),							()
			-					
2.5. 19	" "	-	17.07.20 23			..		
2.5. 20	" "	-	17.10.20 23			..		
2.5. 21	" () "	-	29.12.20 23			..		
2.5. 22	" , "	-	29.12.20 23			..	,	
2.6	"	01.01.20 21	31.12.2024			.		

/	(),		-					()
	« »"							
2.6. 1	") () - " () "	-	30.06.20 21			.	-	" "
2.6. 2	" () () ()" 0.0000 : "	-	31.12.20 21			.	-	" "
2.6. 3	"	-	31.12.20 21			.	-	

/	() ,							()
	() " , : 0.0000		-					" "
2.6. 4	" ()" , : 0.0000	-	31.12.20 21			. .	-	" "
2.6. 5	" () , (: 0.0000)" ,	-	31.12.20 21			. .	-	" "
2.6. 6	" () " , : 0.0000	-	31.03.20 22			. .	-	" "
2.6. 7	" () -	-	30.06.20 22			. .	-	

/	() ,							()
	() "		-					" "
2.6. 8	" 0.0000 " , :	-	30.09.20 22			. .	-	" "
2.6. 9	" () () ())"	-	31.12.20 22			. .	-	" "
2.6. 10	" )" (	-	31.12.20 22			. .	-	" "
2.6.		-	31.12.20			.		

/	(),							()
			-					
11	" (,) , ()"		22			.	-	" "
2.6. 12	" (:) " , 1.0000 ,	-	31.03.20 23			.	"	
2.6. 13	" () () - " , : 1.0000 ,	-	30.06.20 23			.	-	
2.6. 14	" 1.0000 , " , :	-	30.09.20 23			.		

/	() ,							()
			-					
2.6. 15	" () () ()" 1.0000 , :	-	31.12.20 23			.		
2.6. 16	" ()" 1.0000 , :	-	31.12.20 23			.		
2.6. 17	" () , () , (: 1.0000)" , :	-	31.12.20 23			.	,	
2.6. 18	"	-	31.03.20 24			.	-	

/	() ,		-					()
	() "							" "
2.6. 19	" () () - " , : 1.0000 ;	-	30.06.20 24			. .	- ,	
2.6. 20	" 0.0000 " , :	-	30.09.20 24			. .	-	" "
2.6. 21	" () () ()	-	31.12.20 24			. .	-	" "

/	(),							()
)"		-					
2.6. 22	" ()"	-	31.12.20 24			.	-	" "
2.6. 23	" () , (: 1.0000)" ,	-	31.12.20 24			.	,	
2.7	" « »	01.01.20 21	31.12.2024			.		

/	(),							()
	"		-					
2.7. 1	" () "	-	31.03.20 21			.		" "
2.7. 2	" () () - "	-	30.04.20 21			.	-	" "
2.7. 3	" () (())"	-	30.06.20 21			.	-	" "
2.7.		-	31.12.20			.		

/	(),							()
			-					
4	" ()" , : 0.0000		21			.	-	" "
2.7. 5	" : 0.0000 "	-	31.01.20 22			.	-	" "
2.7. 6	" : 0.0000 "	-	30.04.20 22			.	-	" "
2.7. 7	" : 0.0000 "	-	31.07.20 22			.	-	" "
2.7.		-	31.10.20			.		

/	(),							()
			-					
8	" :0.0000 " ,		22			.	-	" "
2.7. 9	() () ())"	-	31.12.20 22			.	-	" "
2.7. 10	() "	-	31.12.20 22			.		" "
2.7. 11	" )" (	-	31.12.20 22			.	-	

/	() ,							()
			-					
								" "
2.7. 12	" : 1.0000 " ,	-	31.01.20 23			.		
2.7. 13	" : 1.0000 " ,	-	30.04.20 23			.		
2.7. 14	" : 1.0000 " ,	-	31.07.20 23			.		
2.7. 15	" : 1.0000 " ,	-	31.10.20 23			.		
2.7. 16		-	30.12.20 23			.		

/	(),						()	
	" () ())" , : 1.0000 ,		-			.		
2.7. 17	" (:) " , 1.0000 ,	-	31.12.20 23			.	"	
2.7. 18	")" , (: 1.0000 ,	-	31.12.20 23			.		
2.7. 19	" : 1.0000 " ,	-	31.01.20 24			.		

/	(),					()	
			-				
2.7. 20	" : 1.0000 " ,	-	30.04.20 24			.	
2.7. 21	" : 1.0000 " ,	-	31.07.20 24			.	
2.7. 22	" : 1.0000 " ,	-	31.10.20 24			.	
2.7. 23	" (:) 1.0000 " ,	-	31.12.20 24			.	" "

/	() ,							()
			-					
2.7. 24	" ()" , (: 1.0000 ,	-	31.12.20 24			.		
2.8	" - "	15.09.20 22	31.12.2022			.		" "
2.8. 1	" () , (: 1.0000)" ,	-	26.09.20 22			.	" "	
2.8. 2	" ( ) (	-	30.09.20 22			.		

/	(),							()
	() 1.0000 ,)" , :		-					" "
2.8. 3	" - () " , :	-	17.10.20 22			.	- ()	
2.8. 4	" - " , : 1.0000 ,	-	31.10.20 22			.	-	
2.8. 5	" " ,	-	15.12.20 22			.		

/	() ,							()
	: 36.0000 ,		-					
2.8. 6	")" , (: 1.0000 ,	-	31.12.20 22			.		
2.9	" " " "	30.09.20 22	31.12.2022			.		" "
2.9. 1	" () () ())" , : 1.0000 ,	-	20.09.20 22			.		" "

/	() ,							()
			-					
2.9. 2	" () , (: 1.0000)" ,	-	28.11.20 22			.	" "	
2.9. 3	" , : 1.0000 ,	-	06.12.20 22			.	" "	
2.9. 4	" , : "	-	30.12.20 22			.	" "	

/	(),		-					()
	: 1.0000 ,							
2.9. 6	" (: 1.0000 ,)" , :	-	31.12.20 22			.		
2.1 0	" "	10.12.20 22	31.12.2024			.		
2.1 0.1	" () "	-	15.02.20 23			.	,	
2.1 0.2	"	-	14.04.20 23			.		

/	(),							()
	"		-					
2.1 0.3	"	-	14.07.20 23			. . .		
2.1 0.4	"	-	16.10.20 23			. . .		
2.1 0.5	"	-	31.12.20 23			. . .		
2.1 0.6	)" (	-	31.12.20 23			. . .		
			31.01.20					

/	(),							()
			-					
2.1 0.7	" ," "	-	24			...	,	2023
2.1 0.8	" () "	-	16.02.20 24			...		
2.1 0.9	" "	-	15.04.20 24			...		
2.1 0.1 0	" "	-	15.07.20 24			...		
2.1 0.1 1	"	-	15.10.20 24			...		

/	(),							()
	"		-					
2.1 0.1 2	" )" (	-	31.12.20 24			. . .	/ /	
2.1 1	" " - " , " " " " 2030 "	28.04.20 23	31.12.2024			. . .		
2.1 1.1	" (,)	-	02.05.20 23			. . .	«	

/	(),		-					()
	, ()" ,						- » ,	
2.1 1.2	" " ,	-	30.06.20 23			.	« - »	
2.1 1.3	" () () ())" ,	-	14.10.20 23			.	« - » , « » «	

/	(),		-					()
							2030 »	
2.1 1.4	" () () - ",	-	31.12.20 23			.	« - » -	
2.1 1.5	" () ",	-	31.12.20 23			.	« - »	
2.1 1.6	" ()",	-	31.12.20 23			.	« - »	

/	() ,							()
			-					
2.1 1.7	" () , ()" ,	-	31.03.20 24			.	« »	- ,
2.1 1.8	" ,	-	30.06.20 24			.	« »	-
2.1 1.9	"	-	31.10.20 24			.	« »	-
2.1	"	-	31.12.20			.		

/	(),							()
			-					
1.1 0	() () - " ,		24			.	« - » -	
2.1 1.1 1	" () " ,	-	31.12.20 24			.	« - » .	
2.1 1.1 2	" ( )" , (	-	31.12.20 24			.	« - »	
3	,							

/	(),							()
			-					
3.1	" " "	01.01.2019	31.12.2024			.		
3.1.1	" (,)" ()"	-	31.07.2019			.	-	" "
3.1.2	" () () - "	-	31.08.2019			.	-	" "
3.1.3	" () () ()"	-	30.09.2019			.	-	" "

/	(),							()
			-					
3.1.4	" )" (	-	20.12.2019			.	-	" "
3.1.5	" () "	-	31.12.2019			.	-	" "
3.1.6	" (,) ,)" ()	-	31.07.2020			.	-	" "
3.1.7	" () () - "	-	31.08.2020			.	-	" "
3.1.8	"	-	30.09.2020			.	-	" "

/	(),							()
			-					
	() () ())"							
3.1. 9	" ()"	-	20.12.20 20			.	-	" "
3.1. 10	" () "	-	31.12.20 20			.	-	" "
3.1. 11	" () , ()"	-	31.07.20 21			.	-	" "
3.1. 12	"	-	31.08.20 21			.	-	

/	() ,							()
	() () - "		-					" "
3.1. 13	" () () ())"	-	30.09.20 21			.	-	" "
3.1. 14	" ()" , (: 0.0000	-	20.12.20 21			.	-	" "
3.1. 15	" () " ,	-	31.12.20 21			.	-	

/	(),		-					()
	: 0.0000							" "
3.1. 16	" () " , : 0.0000	-	31.03.20 22			. .	-	" "
3.1. 17	" () , , ()"	-	30.06.20 22			. .	-	" "
3.1. 18	" () () - "	-	31.08.20 22			. .	-	" "
3.1. 19	" " "	-	30.09.20 22			. .	-	

/	() ,							()
	" , : 0.0000		-					" "
3.1. 20	" () (())"	-	31.12.20 22			. .	-	" "
3.1. 21	" ()"	-	31.12.20 22			. .	-	" "
3.1. 22	" (:) " , 1.0000 ,	-	31.03.20 23			. .	" "	

/	() ,							()
			-					
3.1. 23	" () , (: 1.0000)" ,	-	30.06.20 23			.	,	
3.1. 24	" () (: 1.0000)" ,	-	31.08.20 23			.	/ -	
3.1. 25	" " " 1.0000 , :	-	30.09.20 23			.		
3.1. 26	"	-	31.12.20 23			.		

/	() ,							()
			-					
	() () ())" , :							
3.1. 27	" ()" , (: 1.0000 ,	-	31.12.20 23			.	/ ,	
3.1. 28	" (:) 1.0000 " ,	-	31.03.20 24			.	"	
3.1. 29	" (,) ,	-	30.06.20 24			.	,	

/	() ,							()
	(: 1.0000)" ,		-					
3.1.30	" () () - " , : 1.0000 ,	-	31.08.2024			. . / ,	/ -	
3.1.31	" " : 1.0000 , "" , :	-	30.09.2024			. .		
3.1.32	" () () ()	-	31.12.2024			. .		

/	() ,							()
	) " , : 1.0000 ,		-					
3.1. 33	") " , (: 1.0000 ,	-	31.12.20 24			.	/ ,	
3.2	" , "	01.01.20 19	31.12.2024			. .		
3.2. 1	" (,) , () "	-	31.07.20 19			. .	-	" "
3.2. 2	" ()	-	31.08.20 19			. .	-	" "

/	(),							()
	() - "		-					
3.2. 3	" "	-	15.12.20 19			. .	-	" "
3.2. 4	" )" (	-	31.12.20 19			. .	-	" "
3.2. 5	" (,) , ()"	-	30.06.20 20			. .	-	" "
3.2. 6	") () - "	-	31.08.20 20			. .	-	

/	(),		-					()
								" "
3.2. 7	" "	-	31.12.20 20			. .	-	" "
3.2. 8	" )" (	-	31.12.20 20			. .	-	" "
3.2. 9	" (,) , ()"	-	30.06.20 21			. .	-	" "
3.2. 10	") () - "	-	31.08.20 21			. .	-	

/	() ,							()
			-					
3.2. 11	" " , : 0.0000	-	31.12.20 21			. .	-	" "
3.2. 12	")" , : 0.0000	-	31.12.20 21			. .	-	" "
3.2. 13	" () , , ()" , : 0.0000	-	31.03.20 22			. .	-	" "
3.2. 14	" () () - "	-	30.04.20 22			. .	-	" "

/	() ,							()
			-					
3.2. 15	" " , : 0.0000	-	31.05.20 22			. .	-	" "
3.2. 16	" " , : 0.0000	-	30.09.20 22			. .	-	" "
3.2. 17	" () () ())"	-	31.12.20 22			. .	-	-

/	() ,							()
			-					
3.2. 18	" "	-	31.12.20 22			. .	-	" "
3.2. 19	" 0.0000)" , (: "	-	31.12.20 22			. .	-	" "
3.2. 20	" () , , (: 1.0000)" , ,"	-	31.03.20 23			. .		
3.2. 21	" () () - : 1.0000 " , ,"	-	30.04.20 23			. .	/ , - /	

/	() ,							()
			-					
3.2. 22	" " , : 1.0000 ,	-	31.05.20 23			. .		
3.2. 23	" : 1.0000 " , ,	-	30.09.20 23			. .		
3.2. 24	" " , : 1.0000 ,	-	31.12.20 23			. .		
3.2. 25	")" , (: 1.0000 ,	-	31.12.20 23			. .		

/	(),							()
			-					
3.2. 26	" (,) , (: 1.0000)" , ,	-	31.03.20 24			. .		
3.2. 27	" () () - "	-	30.04.20 24			. .	-	" "
3.2. 28	" : 1.0000 ,	-	31.05.20 24			. .		
3.2. 29	"	-	30.09.20 24			. .		

/	() ,							()
	: 1.0000 " ,		-					
3.2. 30	" : 1.0000 ,	-	31.12.20 24			. .		
3.2. 31	" (: 1.0000 ,)" ,	-	31.12.20 24			. .		
3.3	" - "	01.01.20 21	31.12.2024			. .		
3.3. 1	" (,) , ()"	-	31.07.20 21			. .	-	

/	(),							()
			-					
3.3. 2	" () - ()"	-	31.08.20 21			.	-	" "
3.3. 3	" () () ())"	-	31.08.20 21			.	-	" "
3.3. 4	" () : 0.0000"	-	31.12.20 21			.	-	" "
3.3. 5	" (	-	31.12.20 21			.	-	" "

/	() ,							()
	0.0000)" , :		-					" "
3.3.6	" () " , : 0.0000	-	31.03.2022			. .	-	" "
3.3.7	" , " , : 0.0000	-	30.06.2022			. .	-	" "
3.3.8	" () , ()"	-	31.07.2022			. .	-	" "
3.3.9	" "	-	31.08.2022			. .	-	

/	() ,							()
	() () - "		-					" "
3.3. 10	" () () ())"	-	31.12.20 22			. .	-	" "
3.3. 11	" ()"	-	31.12.20 22			. .	-	" "
3.3. 12	" () " ,	-	31.03.20 23			. .	" "	

/	() ,							()
	: 1.0000 ,		-					
3.3. 13	" , " ; : 1.0000 ;	-	30.06.20 23			.		
3.3. 14	" (,) , (: 1.0000)" ;	-	31.07.20 23			.	,	
3.3. 15	" () () - " ; : 1.0000 ;	-	31.08.20 23			.	/ , / -	
3.3. 16	"	-	31.12.20 23			.		

/	() ,							()
			-					
	() () ())" , :							
3.3. 17	" ()" , (: 1.0000 ,	-	31.12.20 23			.	, (, ,)	
3.3. 18	"	-	31.03.20 24			.	"	

/	() ,							()
	(: 1.0000 " ,		-					
3.3. 19	" , " : 1.0000 ,	-	30.06.20 24			.		
3.3. 20	" (,) , (: 1.0000)" ,	-	31.07.20 24			.	,	
3.3. 21	" () () - " , : 1.0000 ,	-	31.08.20 24			.	/ , / -	

/	() ,							()
		-	31.12.2024					
3.3.22	" () () ()" 1.0000 , :	-	31.12.2024			.		
3.3.23	" ()" 1.0000 , :	-	31.12.2024			.	, (, ,)	

1.

		" 5G/IMT-2020 ()", ()	" ()", ()	" ()", ()	" ()", ()	" ()", ()	()
1. 5G/IMT-2020	7 963 355,20	100,00	0,00	0,00	0,00	0,00	100,00
2. "	9 086 134,90	0,00	100,00	0,00	0,00	0,00	100,00
3. "	9 070 457,80	0,00	0,00	100,00	0,00	0,00	100,00
4. ,	11 552 159,60	0,00	0,00	0,00	55,00	0,00	55,00

		" 5G/IMT-2020 ())", ()	" ()	" ()	" , , , ", ()	" , ()	()	
5.	-	980 250,60	0,00	0,00	0,00	40,00	0,00	40,00
6.	« »	726 543,70	0,00	0,00	0,00	0,00	10,00	10,00
7.	" "	6 373 895,30	0,00	0,00	0,00	5,00	0,00	5,00

		" 5G/IMT-2020 ()" ()	" ()"	" ()"	" ()"	" ()"	()
8. " - " ' - " ' - " ' - 2030	274 380,00	0,00	0,00	0,00	0,00	1,00	1,00
9. , ,	1 110 095,60	0,00	0,00	0,00	0,00	0,00	0,00

	(.)	" 5G/IMT-2020 ()", ()	" ()	" ()	" , , , " ()	" ()	()
10. "	94 385,10	0,00	0,00	0,00	0,00	0,00	0,00
11. ()	8 669 400,80	0,00	0,00	0,00	0,00	0,00	0,00
12. " " 4G/5G OpenRAN " " " 2030	632 468,90	0,00	0,00	0,00	0,00	0,00	0,00

	(.)	" 5G/IMT-2020 ()" ()	" ()	" ()	" , , , " ()	" , ()	()
13.	56 533 527,50	100,00	100,00	100,00	100,00	11,00	411,00