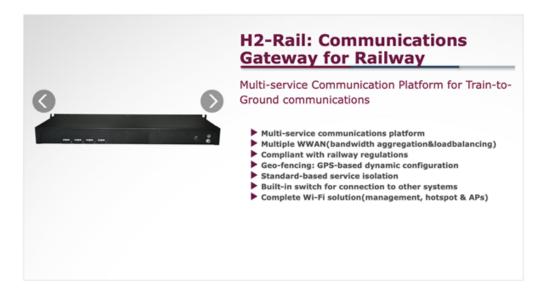
1	STEVEN A. NIELSEN, CALIFORNIA STATE BAR NO. 133864					
2	(STEVE@NIELSENPATENTS.COM) 100 LARKSPUR LANDING CIRCLE, SUITE 216					
3	LARKSPUR, CA 94939-1743					
4	TELEPHONE:(415) 272-8210					
5	Attorneys for Plaintiff MENTONE SOLUTIONS LLC, a Texas limited liability corporation					
6	MENTONE SOLO HONG BLO, a Toxas mine	a mainty corporation				
7		DISTRICT COURT				
8		ICT OF CALIFORNIA SCO DIVISION				
9		PATENT				
10	MENTONE SOLUTIONS LLC,					
11	Plaintiff,	Case No				
12	v.	ORIGINAL COMPLAINT FOR PATENT INFRINGEMENT				
	TELDAT CORPORATION,	AGAINST TELDAT				
13	Defendant.	CORPORATION				
14		DEMAND FOR JURY TRIAL				
15	Plaintiff Mentone Solutions LL	C ("Plaintiff" or "Mentone") files this Original				
16 17	Complaint for Patent Infringement against Te	eldat Corporation ("Defendant" or "Teldat") for				
18	infringement of United States Patent No. 6,952,413 (hereinafter "the '413 Patent") and would					
19	respectfully show the Court as follows:					
20	PARTIES AND	JURISDICTION				
21	1. This is an action for patent infringement under Title 35 of the United States Code.					
22	Plaintiff is seeking injunctive relief as well as damages.					
<ul><li>23</li><li>24</li></ul>	2. Jurisdiction is proper in this Court pursuant to 28 U.S.C. §§ 1331 (Federal					
25	Question) and 1338(a) (Patents) because this is a civil action for patent infringement arising					
26	under the United States patent statutes.					
27	3. Plaintiff is a Texas limited liability company with its office address at 15922					
28	Eldorado Pkwy, Suite 500-1534, Frisco, Texas 75035.					
	- 1 - ORIGINAL COMPLAINT FOR PATENT INFRINGEMENT					

AGAINST TELDAT CORPORATION AND JURY DEMAND

or more claims, including at least Claim 5, of the '413 Patent by making, using (at least during internal testing and maintenance), importing, selling, and/or offering computer devices which are covered by at least Claim 5 of the '413 Patent. Defendant has infringed and continues to infringe the '413 patent directly in violation of 35 U.S.C. § 271.

14. Regarding Claim 5, Defendant sells, offers to sell, and/or uses computing devices including, without limitation, GE MDS Orbit Industrial Cellular Routers, and any similar devices ("Product"), which infringe at least Claim 5 of the '413 Patent. The Product is a mobile station that practices a multiple access communication method (e.g., time division multiple access). The Product has Dual Carrier HSPA+ (also referred to as DC-HSPA+) capability. Certain aspects of these elements are illustrated in the screen shots below and/or in screen shots provided in connection with other allegations herein.



 $\underline{https://www.teldat.com/telecommunications/transport-routers/teldat-h2-rail-railway-train-metro-router-1te-4g-3g-\underline{wifi/}$ 

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http://www.3gpp.org/DynaReport/45002-CRs.htm

Release-8, 8.1.0: <a href="http://www.3gpp.org/ftp/tsg">http://www.3gpp.org/ftp/tsg</a> geran/TSG GERAN/GERAN 49 Chengdu/Docs/GP-110464.zip ETSI Source: <a href="https://www.etsi.org/deliver/etsi">https://www.etsi.org/deliver/etsi</a> ts/145000 145099/145002/08.01.00 60/ts 145002v080100p.pdf

ETSI TS 145 002 V8.1.0 (2011-04)

Technical Specification

## Digital cellular telecommunications system (Phase 2+); Multiplexing and multiple access on the radio path (3GPP TS 45.002 version 8.1.0 Release 8)

https://www.etsi.org/deliver/etsi\_ts/145000\_145099/145002/08.01.00\_60/ts\_145002v080100p.pdf

3GPP TS 45.002 version 8.1.0 Release 8

8

ETSI TS 145 002 V8.1.0 (2011-04)

## 1 Scope

The present document defines the physical channels of the radio sub-system required to support the logical channels. For the Flexible Layer One, it defines the physical channels of the radio sub-system required to support the transport channels. It includes a description of the logical channels, transport channels and the definition of frequency hopping, TDMA frames, timeslots and bursts.

https://www.etsi.org/deliver/etsi\_ts/145000\_145099/145002/08.01.00\_60/ts\_145002v080100p.pdf

0151	1	Α [	Rel-8	8.0.0	8.1.0	Clarification of Shifted USF operation in combination with Dual Carrier DL	GP-49	GP-110464	approved	G1	G1-49	GP-110464	agreed	2011-03-03	TEI7	-	2011-03-14
0152	-		Rel-9			Clarification of receiver characteristics for multicarrier BTS equipped with multicarrier receiver	-		-	-	G1-49	GP-110193	revised	2011-03-03			2011-03-14
0152	1	A	Rel-9	9.4.0	9.5.0	Clarification of Shifted USF operation in combination with Dual Carrier DL	3P-49	GP-110465	approved	G1	G1-49	GP-110465	agreed	2011-03-03	TEI7	-	2011-03-14
0153	-		Rel-9			Clarification of Shifted USF in combination with EFTA	-	-			G1-49	GP-110194	revised	2011-03-03			2011-03-14
0153	1	F	Rel-9	9.4.0	9.5.0	Clarification of Shifted USF in combination with EFTA	GP-49	GP-110454	approved	G1	G1-49	GP-110454	agreed	2011-03-03	TEI9		2011-03-14

- 5 -

3GPP TS	45.002 version 8.1.0 Release 8	48	ETSI TS 145 002 V8.1.0 (2011-04)
Note:			apport USF monitoring on the downlink er as) all assigned uplink PDCHs as defined in
window o size "u" w depends o	of size "d" and all the uplink timeslots where "d" and "u" are defined in Table	on both radio frequency of 6.4.2.2.1. The maximum	requency channels shall be assigned within a channels shall be assigned within a window of number of timeslots that may be assigned s if different from the Signalled multislot class
	carrier configuration, Shifted USF oper and uplink timeslots assigned on each		d per carrier according to the number of
Release TS 4 Source: https:		s/144000 144099/1	44060/08.07.00 60/ts 144060v080700p.pdf
, , , , , , , , , , , , , , , , , , ,		3,11,1000 1,11033,1	
16.	The Product practices	receiving an as	ssignment of at least a first PDCH
e.g., first	assigned uplink PDCH)	and a second	PDCH (e.g., second assigned uplink
PDCH). The	ese elements are illustrated	d in the screen sho	ots below and/or in screen shots provided
n connectio	on with other allegations he	erein.	
corresponding downlink PD PDCH. If the the first assig	g to (i.e. with the same timeslot nu CH for the USF corresponding to USF corresponding to the first ass	mber as) the second ass both the first assigned u signed uplink PDCH is	ink PDCH shall be sent on the downlink PDCH signed uplink PDCH. The MS shall monitor this plink PDCH and the second assigned uplink detected then the mobile station shall transmit on k PDCHs. Otherwise, operation shall be as
	ue corresponding to the first assign signed uplink PDCH.	ed uplink PDCH shall b	be different from the USF value corresponding to
network shall lowest number	transmit all PACCH messages on	the PDCH carried on the	scribed in sub-clause 8.1.1.2.2 except that the he downlink timeslot corresponding to the second tion shall attempt to decode every downlink
			DCH in the current timeslot configuration of a
	in in the new timeslot configuration		ot shall also be considered released. If any ration shall continue starting on the lowest
		00 144099/144060/	/08.07.00_60/ts_144060v080700p.pdf
	iotonorg, donvol/otor_ts/11100	00_111000/	00.07.00 00.05 17700070007009.541

1	8.1.1.2.1 Uplink PDCH Allocation
2	The PACKET UPLINK ASSIGNMENT and MULTIPLE TBF UPLINK ASSIGNMENT messages assign to the mobile station a subset of 1 to N uplink PDCHs (when the uplink TBF operates in BTTI configuration) or uplink PDCH-pairs
3	(when the uplink TBF operates in RTTI configuration), where N depends on the mobile station multislot class.
4	An uplink TBF that operates in RTTI configuration may receive the assigned USFs either in BTTI USF mode or in RTTI USF mode. The indication of whether BTTI USF mode or RTTI USF mode is to be used is provided during the assignment of the corresponding uplink TBF.
5	The state of the s
6	https://www.etsi.org/deliver/etsi_ts/144000_144099/144060/06.20.00_60/ts_144060v062000p.pdf
7	17. The Product practices monitoring (e.g., reading the header of each RLC/MAC
8	block on a downlink PDCH) an assigned PDCH to detect a USF (uplink state flag)
9	This is illustrated in in the screen shot below and/or in screen shots provided in connection with
0	other allegations herein.
.1	5.2.3 Uplink State Flag
2	An Uplink State Flag (USF) is included in the header of each RLC/MAC block on a downlink PDCH, as specified in
3	clause 10. It may be used by the network to control the multiplexing of different mobile stations and TBFs on an uplink PDCH. The use of USF is further specified in 3GPP TS 45.002.
4	https://www.etsi.org/deliver/etsi_ts/144000_144099/144060/08.07.00_60/ts_144060v080700p.pdf
5	18. The Product practices monitoring a first assigned PDCH to detect a USF
16 17	corresponding to the first assigned PDCH and transmitting on the assigned PDCH
8	corresponding to the USF if shifted USF operation is not used. The Product wil
9	monitor the USF of the downlink PDCH corresponding to the assigned PDCH having the
20	same slot number because there is no shifting operation. This is illustrated in in the screen
21	shots below and/or in screen shots provided in connection with other allegations herein.
22	5.2.3 Uplink State Flag
23	An Uplink State Flag (USF) is included in the header of each RLC/MAC block on a downlink PDCH, as specified in
24	clause 10. It may be used by the network to control the multiplexing of different mobile stations and TBFs on an uplink PDCH. The use of USF is further specified in 3GPP TS 45.002.
25	https://www.etsi.org/deliver/etsi_ts/144000_144099/144060/08.07.00_60/ts_144060v080700p.pdf
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1 3GPP TS 45,002 version 8,1,0 Release 8 ETSI TS 145 002 V8.1.0 (2011-04) 2 Note 0 If the downlink timeslots assigned (allocated) to the mobile station are not contiguous, d shall also include the number of downlink timeslots not assigned (allocated) to the mobile 3 station that are located between assigned (allocated) downlink timeslots. Similarly, if the uplink timeslots assigned (allocated) to the mobile station are not contiguous, u shall also 4 include the number of uplink timeslots not assigned (allocated) to the mobile station that are located between assigned (allocated) uplink timeslots. Note 1 Normal measurements are not possible (see 3GPP TS 45.008). 5 Note 2 Normal BSIC decoding is not possible (see 3GPP TS 45.008) except e.g. in case of a downlink dual carrier capable MS operating in single carrier mode using its second receiver 6 for BSIC decoding. Note 3 TA offset required for multislot classes 35-39. 7 Note 4 TA offset required for multislot classes 40-45. Shifted USF operation shall apply (see 3GPP TS 44.060). Note 5 The network may fallback to a lower multislot class and may not apply Tra. A multislot class Note 6 8 38 or 39 MS shall in this case use T<sub>ta</sub> for timing advance values below 31. Note 7 For dual carrier operation the Applicable Multislot class is the Signalled multislot class or 9 the Equivalent multislot class (if different from the Signalled multislot class) as defined in Table B.2. Note 8 These configurations can only be used for assignment to an MS supporting Flexible 10 Timeslot Assignment (see 3GPP TS 24.008). For allocation additional restrictions apply. Note 9 These configurations can be used only in RTTI configuration. 11 These configurations can be used in RTTI configurations only when the timeslots of the Note 10 corresponding downlink PDCH-pair are contiguous. These configurations can be used only in RTTI configurations when the timeslots of the 12 corresponding downlink PDCH-pair are not contiguous. 13 https://www.etsi.org/deliver/etsi\_ts/145000\_145099/145002/08.01.00\_60/ts\_145002v080100p.pdf 14 8.1.1.2.4 Shifted USF operation 15 In some instances (see 3GPP TS 45.002), Shifted USF operation shall apply. 16 When Shifted USF operation is used, the USF for the first assigned uplink PDCH shall be sent on the downlink PDCH corresponding to (i.e. with the same timeslot number as) the second assigned uplink PDCH. The MS shall monitor this downlink PDCH for the USF corresponding to both the first assigned uplink PDCH and the second assigned uplink 17 PDCH. If the USF corresponding to the first assigned uplink PDCH is detected then the mobile station shall transmit on the first assigned uplink PDCH and all higher numbered assigned uplink PDCHs. Otherwise, operation shall be as 18 described in sub-clause 8.1.1.2.1. 19 The USF value corresponding to the first assigned uplink PDCH shall be different from the USF value corresponding to the second assigned uplink PDCH. 20 When Shifted USF operation is used, PACCH operation shall be as described in sub-clause 8.1.1.2.2 except that the network shall transmit all PACCH messages on the PDCH carried on the downlink timeslot corresponding to the second 21 lowest numbered timeslot in the uplink assignment, and the mobile station shall attempt to decode every downlink RLC/MAC block on that downlink PDCH. 22 If a PACKET PDCH RELEASE message releases the second uplink PDCH in the current timeslot configuration of a mobile station using Shifted USF operation then the first uplink timeslot shall also be considered released. If any 23 PDCHs remain in the new timeslot configuration then normal USF operation shall continue starting on the lowest available timeslot. 24 https://www.etsi.org/deliver/etsi\_ts/144000\_144099/144060/08.07.00\_60/ts\_144060v080700p.pdf 25 26 27 28

3GPP TS	45.002 version 8.1.0 Release 8 48 ETSI TS 145 002 V8.1.0 (2011-04)
Note:	In case of extended dynamic allocation, the MS needs to support USF monitoring on the downlink PDCHs corresponding to (i.e. with the same timeslot number as) all assigned uplink PDCHs as defined in 3GPP TS 44.060.
window of size "u" w	arrier configuration, all the downlink timeslots on both radio frequency channels shall be assigned within a fixe "d" and all the uplink timeslots on both radio frequency channels shall be assigned within a window of here "d" and "u" are defined in Table 6.4.2.2.1. The maximum number of timeslots that may be assigned in the multislot class of the MS (or the Equivalent multislot class if different from the Signalled multislot class and in B.4).
	arrier configuration, Shifted USF operation shall be determined per carrier according to the number of and uplink timeslots assigned on each carrier.
https://www.e	etsi.org/deliver/etsi_ts/145000_145099/145002/08.01.00_60/ts_145002v080100p.pdf
20.	Defendant's actions complained of herein will continue unless Defendant is
enjoined by the	his court.
21.	Defendant's actions complained of herein are causing irreparable harm and
monetary dar	mage to Plaintiff and will continue to do so unless and until Defendant is enjoined
and restrained	d by this Court.
22.	Plaintiff is in compliance with 35 U.S.C. § 287.
	JURY DEMAND
Plaint	iff, under Rule 38 of the Federal Rules of Civil Procedure, requests a trial by jury
of any issues	so triable by right.
	PRAYER FOR RELIEF
WHE	REFORE, Plaintiff asks the Court to:
(a)	Enter judgment for Plaintiff on this Complaint on all causes of action asserted
herein;	
(b)	Enter an Order enjoining Defendant, its agents, officers, servants, employees
attorneys, and	d all persons in active concert or participation with Defendant who receive notice or
the order from	m further infringement of United States Patent No. 6,952,413 (or, in the alternative
	10
	- 10 -

## Case 3:19-cv-00553-JSC Document 1 Filed 01/31/19 Page 11 of 11

1	awarding Plaintiff a running royalty from the ti	me of	judgment going forward);
2	(c) Award Plaintiff damages resulti	ng fro	om Defendant's infringement in accordance
3	with 35 U.S.C. § 284;  (d) Award Plaintiff pre-judgment an	d pos	t-judgment interest and costs; and
<ul><li>5</li><li>6</li><li>7</li></ul>			o which the Court finds Plaintiff entitled
8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27		Ву	Steven A. Nielsen 100 Larkspur Landing Circle, Suite 216 Larkspur, CA 94939 PHONE 415 272 8210 E-MAIL: Steve@NielsenPatents.com Attorneys for Plaintiff Mentone Solutions LLC
28	_	11 -	