



Online-Appendix

„Understanding Participation Trends in the Avani 5G Patent Pool: A Descriptive Analysis “

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Appendix

Appendix 1: List of participating licensors- and licensees joining dates

Appendix 1.1: List of licensors joining dates

Licensor name	Date
5G IP Holdings	16.08.23
Acer	16.08.23
ASUSTeK	16.08.23
BlackBerry	16.08.23
BT Group	16.08.23
China Mobile	16.08.23
China Telecom	16.08.23
Coolpad	16.08.23
DTmobile	16.08.23
Emergent Mobile	16.08.23
EQUO Innovative Partner	16.08.23
Ericsson	16.08.23
Fujitsu	16.08.23
Harfang IP	16.08.23
Huawei	16.08.23
Innovative Sonic	16.08.23
Intellectual Discovery	16.08.23
Interdigital	16.08.23
IP Bridge	16.08.23
IP Innovation	16.08.23
JVCKENWOOD	16.08.23
KDDI	16.08.23
KPN	16.08.23
Korea Telecom	16.08.23
Kyocera	16.08.23
LG Electronics	16.08.23
Longhorn IP	16.08.23
MediaTek	16.08.23
MiiCs	16.08.23
Mitsubishi Electric	16.08.23
NEC Corporation	16.08.23
Nokia	16.08.23
Nippon Telegraph and Telephone (NTT)	16.08.23
NTT DOCOMO	16.08.23

Ofinno	16.08.23
Orange	16.08.23
Panasonic	16.08.23
PanOptis	16.08.23
Pantech	16.08.23
Philips	16.08.23
Qualcomm	16.08.23
Samsung	16.08.23
Sharp	16.08.23
Siemens	16.08.23
Sisvel	16.08.23
SK Telecom	16.08.23
Sol IP	16.08.23
Sony	16.08.23
Sun Patent Trust	16.08.23
TCL Technology	16.08.23
Technology In Ariscale	16.08.23
Telecom Italia	16.08.23
TNO	16.08.23
Unisoc	16.08.23
UU Ventures	16.08.23
Vodafone	16.08.23
Wilus	16.08.23
ZTE Corporation	16.08.23
Crystal Clear Codec	27.09.23
Deutsche Telekom	27.09.23
Top Quality Telephony	27.09.23
Intel	07.11.23
Oswego	25.03.24
Unwired Planet	25.03.24
New Radio	18.05.24
Hewlett-Packard Enterprise	11.06.24
IPCom	13.06.24
China Unicom	25.07.24
OPPO	31.07.24

Appendix 1.2: List of licensees joining dates

Group	Licensee name	Date
Mercedes-Benz Group	Mercedes-Benz	16.08.23
BMW Group	BMW	08.09.23
	Mini	08.09.23
	Rolls-Royce	08.09.23
Hyundai Motor Group	Genesis	07.11.23
	Hyundai	07.11.23
	Kia	07.11.23
General Motors Company	Buick	13.02.24
	Cadillac	13.02.24
	Chevrolet	13.02.24
	GMC	13.02.24
VW Group	Audi	20.02.24
	Bentley	20.02.24
	Cupra	20.02.24
	Lamborghini	20.02.24
	MAN	20.02.24
	Navistar	20.02.24
	Porsche	20.02.24
	Scania	20.02.24
	Scout	20.02.24
	Seat	20.02.24
	Skoda	20.02.24
	Volkswagen	20.02.24
	VW Truck & Bus	20.02.24
Ford Motor Company	Ford	25.03.24
YANMAR	YANMAR	25.03.24
Saab	Saab	31.03.24
Iseki	Iseki	28.04.24
Geely	Polestar	18.05.24
	Volvo	18.05.24
Kobe Steel Group	Kobelco	05.08.24
Vingroup	VinFast	22.08.24
Renault Group	Renault	26.08.24

Appendix 2: SEP coverage calculation

Appendix 2.1: Licensor consolidation

Name	ETSI name	# Patent level	#Patent family level
5G IP Holdings		0	0
Acer	Acer Incorporated	118	35
ASUSTeK	ASUSTeK Computer Inc.	1,230	357
BlackBerry	BlackBerry LTD	6	6
	BLACKBERRY LTD.	5	1
	BlackBerry UK Limited	943	174
	Research in Motion Limited	805	192
BT Group	BT Group Plc	22	0
China Mobile		0	0
China Telecom		0	0
Coolpad		0	0
Crystal Clear Codec		0	0
Deutsche Telekom	Deutsche Telekom AG	139	40
DT Mobile	CATT(Datang)	2,988	2,260
	China Academy of Telecommunications Technology (CATT)	1,274	1,215
Emergent Mobile		0	0
EQUO Innovative Partner		0	0
Ericsson	Ericsson Telefonaktiebolaget LM	2	2
	Telefonaktiebolaget LM Ericsson	5,588	3,052
Fujitsu	Fujitsu Limited	1,736	300
Harfang IP		0	0
Hewlett-Packard Enterprise	Hewlett-Packard Enterprise	8	2
Huawei	Huawei Technologies Co., Ltd.	18,700	9,014
Intel	Intel Corporation	2,191	1,147
Intellectual Discovery		0	0
InterDigital	InterDigital CE Intermediate, SAS	2	2
	InterDigital Holdings, Inc.	1,374	596
	InterDigital Patent Holdings Inc.	359	176
	InterDigital Patent Holdings, Inc.	176	165
	InterDigital Technology Corp.	3,120	932
	InterDigital Technology Corporation	104	76
	IDAC Holdings, Inc.	33	28
	IDPA Holdings, Inc.	1	1

	IDTP Holdings, Inc.	2	1
	IPR Licensing Inc.	41	33
	IPR Licensing, Inc.	25	24
	Tantivy Communications Inc.	52	16
	VID SCALE, INC.	1	1
IP Bridge	Godo Kaisha IP Bridge 1	94	44
IPCom	IPCom GmbH & Co.KG	25	25
IP Innovation		0	0
Innovative Sonic	Innovative Sonic Corporation	184	56
	Innovative Sonic Limited	26	6
	Innovative Sonic Ltd.	267	112
JVCKENWOOD		0	0
KDDI		0	0
KPN	Koninklijke KPN N.V.	306	49
Korea Telecom	KT Corporation	1,135	653
Kyocera	Kyocera Corporation	812	325
LG Electronics	LG Electronics Inc.	20,202	5,943
Longhorn IP	Shanghai Langbo Communication Technology Co., Ltd.	785	359
MediaTek	MediaTek Incorporated	1,875	769
MiiCs		0	0
Mitsubishi Electric	Mitsubishi Electric Corp	557	97
	Mitsubishi Electric Information Technology Centre Europe B.V.	6	6
	Mitsubishi Electric R&D Centre Europe	102	30
	Mitsubishi Electric Telecom Europe, S.A	6	2
NEC Corporation	NEC Corporation	2,117	887
New Radio		0	0
Nokia	Nokia Corporation	4,451	1,218
	NOKIA MOBILE PHONES	84	36
	Nokia Networks Oy	542	397
	Nokia of America Corporation	194	49
	Nokia Shanghai Bell Co., Ltd	48	48
	Nokia Solutions and Networks GmbH & Co. KG	289	181
	Nokia Solutions and Networks Oy	1,979	484
	Nokia Technologies Oy	9,284	2,268
	Alcatel	157	65

	Alcatel Lucent	1,960	441
	Alcatel Lucent and Alcatel-Lucent Shanghai Bell Co., Ltd.	73	19
	Alcatel Lucent Worldwide except Alcatel Lucent and Alcatel Lucent Shanghai Bell Co. Ltd in China	12	1
	ALCATEL-LUCENT	305	99
	Alcatel-Lucent Deutschland AG	57	10
	Alcatel-Lucent Shanghai Bell Co., Ltd	4	3
	Alcatel-Lucent USA Inc.	63	11
	Evolium S.A.S	40	13
Nippon Telegraph and Telephone (NTT)	NTT DOCOMO INC.	6	1
	NTT DOCOMO, INC.	8,390	2,568
Ofinno		0	0
OPPO	Guangdong OPPO Mobile Telecommunications Corp., Ltd	11,583	5,204
Orange	Orange	423	58
Oswego		0	0
Panasonic	Panasonic Corporation	506	92
	Panasonic Holdings Corporation	2,842	457
	Panasonic Mobile Communications	1	1
Panoptis	PanOptis Patent Management LLC	67	5
	Optis Cellular Technology, LLC	224	9
	Optis Wireless Technology, LLC	683	45
Pantech	Pantech Co., Ltd	137	49
Philips	Koninklijke Philips Electronics N.V.	400	82
	Koninklijke Philips N.V.	333	118
Qualcomm	QUALCOMM Inc	825	392
	Qualcomm Incorporated	13,470	5,020
Samsung	Samsung Electronics Co, LTD	11,291	6,087
Sharp	Sharp Corporation	6,783	1,961
Siemens	Siemens AG	1,239	281
	Siemens Aktiengesellschaft	40	9
Sisvel	Sisvel International S.A.	70	11
	Sisvel International SA	1	1
	3G Licensing S.A.	5	2
	3G Licensing SA	9	9
SK Telecom	SK Telecom Co., LTD.	46	21

Sol IP	Electronics & Telecommunications Research Institute	18	13
	Electronics and Telecommunications Research Institute	650	372
	ETRI	323	175
Sony	Sony Corporation	457	285
	Sony Group Corporation	427	407
Sun Patent Trust	Sun Patent Trust	1,498	62
TCL Technology	TCL Communication Technology Holdings Limited	4	3
	TCT Mobile Limited	61	61
Technology In Ariscale		0	0
Telecom Italia	Telecom Italia S.p.A.	18	5
TNO		0	0
Top Quality Telephony		0	0
Unisoc	Spreadtrum Communications (Shanghai) Co., Ltd.	213	213
Unwired Planet	Unwired Planet International Ltd	50	5
	Unwired Planet, LLC	102	16
UU Ventures		0	0
Vodafone	Vodafone Group Plc	49	9
	Vodafone IP Licensing Limited	11	6
	Vodafone Libertel BV	1	0
	VODAFONE LTD	1	1
Wilus	WILUS INSTITUTE OF STANDARDS AND TECHNOLOGY INC.	383	133
ZTE Corporation	ZTE Corporation	4,290	2,180
	ZTE Corporation.	8,412	3,576

Appendix 2.2: SEP analysis at patent level (monthly)

Licensor	Accession date	Aug 23	Sep 23	Oct 23	Nov 23	Dec 23	Jan 24	Feb 24	Mar 24	Apr 24	May 24	Jun 24	Jul 24	Aug 24
SG IP Holdings	16.08.23	0	0	0	0	0	0	0	0	0	0	0	0	0
Acer	16.08.23	118	118	118	118	118	118	118	118	118	118	118	118	118
ASUSTeK	16.08.23	1230	1230	1230	1230	1230	1230	1230	1230	1230	1230	1230	1230	1230
BlackBerry	16.08.23	1759	1759	1759	1759	1759	1759	1759	1759	1759	1759	1759	1759	1759
BT Group	16.08.23	22	22	22	22	22	22	22	22	22	22	22	22	22
China Mobile	16.08.23	0	0	0	0	0	0	0	0	0	0	0	0	0
China Telecom	16.08.23	0	0	0	0	0	0	0	0	0	0	0	0	0
Coolpad	16.08.23	0	0	0	0	0	0	0	0	0	0	0	0	0
DT Mobile	16.08.23	4262	4262	4262	4262	4262	4262	4262	4262	4262	4262	4262	4262	4262
Emergent Mobile	16.08.23	0	0	0	0	0	0	0	0	0	0	0	0	0
EQUO Innovative Partner	16.08.23	0	0	0	0	0	0	0	0	0	0	0	0	0
Ericsson	16.08.23	5590	5590	5590	5590	5590	5590	5590	5590	5590	5590	5590	5590	5590
Fujitsu	16.08.23	1736	1736	1736	1736	1736	1736	1736	1736	1736	1736	1736	1736	1736
Harfang IP	16.08.23	0	0	0	0	0	0	0	0	0	0	0	0	0
Huawei	16.08.23	18700	18700	18700	18700	18700	18700	18700	18700	18700	18700	18700	18700	18700
Intellectual Discovery	16.08.23	0	0	0	0	0	0	0	0	0	0	0	0	0
Interdigital	16.08.23	5290	5290	5290	5290	5290	5290	5290	5290	5290	5290	5290	5290	5290
IP Bridge	16.08.23	94	94	94	94	94	94	94	94	94	94	94	94	94
IP Innovation	16.08.23	0	0	0	0	0	0	0	0	0	0	0	0	0
Innovative Sonic	16.08.23	477	477	477	477	477	477	477	477	477	477	477	477	477
JVCKENWOOD	16.08.23	0	0	0	0	0	0	0	0	0	0	0	0	0
KDDI	16.08.23	0	0	0	0	0	0	0	0	0	0	0	0	0
KPN	16.08.23	306	306	306	306	306	306	306	306	306	306	306	306	306
Korea Telecom	16.08.23	1135	1135	1135	1135	1135	1135	1135	1135	1135	1135	1135	1135	1135
Kyocera	16.08.23	812	812	812	812	812	812	812	812	812	812	812	812	812
LG Electronics	16.08.23	20202	20202	20202	20202	20202	20202	20202	20202	20202	20202	20202	20202	20202
Longhorn IP	16.08.23	785	785	785	785	785	785	785	785	785	785	785	785	785
MediaTek	16.08.23	1875	1875	1875	1875	1875	1875	1875	1875	1875	1875	1875	1875	1875
MiCs	16.08.23	0	0	0	0	0	0	0	0	0	0	0	0	0
Mitsubishi Electric	16.08.23	671	671	671	671	671	671	671	671	671	671	671	671	671
NEC Corporation	16.08.23	2117	2117	2117	2117	2117	2117	2117	2117	2117	2117	2117	2117	2117
Nokia	16.08.23	19542	19542	19542	19542	19542	19542	19542	19542	19542	19542	19542	19542	19542
Nippon Telegraph and Telephone (NTT)	16.08.23	8396	8396	8396	8396	8396	8396	8396	8396	8396	8396	8396	8396	8396
Ofirno	16.08.23	0	0	0	0	0	0	0	0	0	0	0	0	0
Orange	16.08.23	423	423	423	423	423	423	423	423	423	423	423	423	423
Panasonic	16.08.23	3349	3349	3349	3349	3349	3349	3349	3349	3349	3349	3349	3349	3349
PanOptis	16.08.23	974	974	974	974	974	974	974	974	974	974	974	974	974
Pantech	16.08.23	137	137	137	137	137	137	137	137	137	137	137	137	137
Philips	16.08.23	733	733	733	733	733	733	733	733	733	733	733	733	733
Qualcomm	16.08.23	14295	14295	14295	14295	14295	14295	14295	14295	14295	14295	14295	14295	14295
Samsung	16.08.23	11291	11291	11291	11291	11291	11291	11291	11291	11291	11291	11291	11291	11291
Sharp	16.08.23	6783	6783	6783	6783	6783	6783	6783	6783	6783	6783	6783	6783	6783
Siemens	16.08.23	1279	1279	1279	1279	1279	1279	1279	1279	1279	1279	1279	1279	1279
Sisvel	16.08.23	85	85	85	85	85	85	85	85	85	85	85	85	85
SK Telecom	16.08.23	46	46	46	46	46	46	46	46	46	46	46	46	46
Sol IP	16.08.23	991	991	991	991	991	991	991	991	991	991	991	991	991
Sony	16.08.23	884	884	884	884	884	884	884	884	884	884	884	884	884
Sun Patent Trust	16.08.23	1498	1498	1498	1498	1498	1498	1498	1498	1498	1498	1498	1498	1498
TCL Technology	16.08.23	65	65	65	65	65	65	65	65	65	65	65	65	65
Technology In Ariscale	16.08.23	0	0	0	0	0	0	0	0	0	0	0	0	0
Telecom Italia	16.08.23	18	18	18	18	18	18	18	18	18	18	18	18	18
TNO	16.08.23	0	0	0	0	0	0	0	0	0	0	0	0	0
Unisoc	16.08.23	213	213	213	213	213	213	213	213	213	213	213	213	213
UU Ventures	16.08.23	0	0	0	0	0	0	0	0	0	0	0	0	0
Vodafone	16.08.23	62	62	62	62	62	62	62	62	62	62	62	62	62
Wilus	16.08.23	383	383	383	383	383	383	383	383	383	383	383	383	383
ZTE Corporation	16.08.23	12702	12702	12702	12702	12702	12702	12702	12702	12702	12702	12702	12702	12702
Crystal Clear Codec	27.09.23	0	0	0	0	0	0	0	0	0	0	0	0	0
Deutsche Telekom	27.09.23	139	139	139	139	139	139	139	139	139	139	139	139	139
Top Quality Telephony	27.09.23	0	0	0	0	0	0	0	0	0	0	0	0	0
Intel	07.11.23				2191	2191	2191	2191	2191	2191	2191	2191	2191	2191
Oswego	25.03.24													
Unwired Planet	25.03.24								152	152	152	152	152	152
New Radio	18.05.24										0	0	0	0
Hewlett-Packard Enterprise	11.06.24											8	8	8
IPCom	13.06.24											25	25	25
China Unicom	25.07.24												0	0
OPPO	31.07.24												11583	11583

Appendix 3: Licensee coverage calculation

Appendix 3.1: List of global car manufacturers

Rank	Car brand	Est. 2024 revenue (\$bn)	Headquarter	Avanci license
1	Toyota	222.00	Japan	
2	Ford	141.00	USA	Yes
3	Volkswagen	126.00	Germany	Yes
4	Nissan	111.00	Japan	
5	Honda	106.10	Japan	
6	Mercedes-Benz	101.00	Germany	Yes
7	BMW	98.00	Germany	Yes
8	Chevrolet	89.00	USA	Yes
9	BYD	83.00	China	
10	Tesla	80.00	USA	
11	Hyundai	78.90	South Korea	Yes
12	Audi	69.00	Germany	Yes
13	Jeep	50.00	USA	
14	Kia	46.00	South Korea	Yes
15	Renault	34.00	France	Yes
16	Mazda	30.00	Japan	
17	Suzuki	30.00	Japan	
18	Peugeot	29.10	France	
19	Volvo	27.00	Sweden	Yes
20	Buick	25.00	USA	Yes
21	Porsche	23.00	Germany	Yes
22	Cadillac	22.39	USA	Yes
23	Subaru	22.00	Japan	
24	Daihatsu	21.00	Japan	
25	Lexus	21.00	Japan	
26	Land Rover	20.00	UK	
27	Dongfeng	19.76	China	
28	GMC	19.00	USA	Yes
29	Ram	19.00	USA	
30	Skoda	17.00	Czech Republic	Yes
31	Mitsubishi	16.00	Japan	
32	Fiat	15.21	Italy	
33	Changan	15.00	China	
34	Geely	15.00	China	
35	Citroën	14.00	France	

36	Hongqi	14.00	China	
37	Opel/Vauxhall	14.00	Germany	
38	Dodge	13.18	USA	
39	Chery	11.09	China	
40	SEAT	10.00	Spain	Yes
41	Haval	9.00	China	
42	Lincoln	8.72	USA	
43	Denza	7.02	China	
44	Chrysler	7.00	USA	
45	Infiniti	7.00	Japan	
46	Maruti Suzuki	7.00	India	
47	Wuling	7.00	China	
48	Trumpchi	6.30	China	
49	Acura	6.00	Japan	
50	Dacia	6.00	Romania	
51	Roewe	5.02	China	
52	Chana (Oushang)	5.00	China	
53	Ferrari	5.00	Italy	
54	Jaguar	5.00	UK	
55	Mini	5.00	UK	Yes
56	MG	4.73	UK	
57	Perodua	4.00	Malaysia	
58	smart	4.00	Germany	
59	Lancia	3.00	Italy	
60	Zotye	3.00	China	
61	Lada	2.93	Russia	
62	Mahindra	2.82	India	
63	Alfa Romeo	2.50	Italy	
64	DS	2.48	France	
65	Polestar	2.38	Sweden	Yes
66	BJEV	2.00	China	
67	Proton	2.00	Malaysia	
68	Tata	2.00	India	
69	VinFast	1.19	Vietnam	Yes
70	Leopaard	1.17	China	
71	Brilliance	1.07	China	
72	Baojun	1.00	China	
73	Baw	1.00	China	
74	Bentley	1.00	UK	Yes
75	Huansu	1.00	China	

76	Lamborghini	1.00	Italy	Yes
77	Maserati	1.00	Italy	
78	Rolls-Royce	1.00	UK	Yes
79	SSangYong	1.00	South Korea	
80	Wey	1.00	China	
81	Maxus	0.94	China	
82	Qoros	0.87	China	
83	Venucia	0.72	China	
84	Genesis	0.69	South Korea	Yes
85	Aston Martin	0.69	UK	
86	Senova	0.68	China	
87	Senia	0.66	China	
88	Besturn	0.63	China	
89	JAC	0.63	China	
90	Lifan	0.56	China	
91	Luxgen	0.42	Taiwan	
92	Hanteng	0.39	China	
93	Youngman	0.37	China	
94	Great Wall	0.37	China	
95	FAW	0.34	China	
96	Junpai	0.31	China	
97	Abarth	0.28	Italy	
98	McLaren	0.28	UK	
99	Zhidou	0.27	China	
100	Weiwang	0.26	China	
101	JMEV	0.21	China	
102	Bisu	0.14	China	
103	Cowin	0.14	China	
104	Yema	0.14	China	
105	Haima	0.14	China	
106	Jinbei	0.14	China	
107	Everus	0.13	China	
108	Enranger	0.12	China	
109	ALPINA	0.10	Germany	
110	Bugatti	0.10	France	
111	Kandi	0.09	China	
112	ALPINE	0.08	France	
113	Foton	0.08	China	
114	Soueast	0.08	China	
115	DR	0.07	Italy	

116	GAC Gonow	0.07	China	
117	Qingteng	0.06	China	
118	Lotus	0.05	UK	
119	Huasong	0.05	China	
120	Morgan	0.04	UK	
121	Landwin	0.03	China	
122	Ciimo	0.03	China	
123	Jonway	0.03	China	
124	Rely	0.03	China	
125	Huanghai	0.02	China	
126	Riich	0.02	China	
127	Bolloré	0.01	France	
128	Caterham Cars	0.01	UK	
129	Karry	0.01	China	

Appendix 3.2: List of Avanci licensees

Joining date	Car brand	Est. 2024 revenue (\$bn)	Headquarter
16.08.23	Mercedes-Benz	101.00	Germany
08.09.23	BMW	98.00	Germany
08.09.23	Mini	5.00	Germany
08.09.23	Rolls-Royce	1.00	UK
07.11.23	Genesis	0.69	South Korea
07.11.23	Hyundai	78.90	South Korea
07.11.23	Kia	46.00	South Korea
13.02.24	Buick	25.00	USA
13.02.24	Cadillac	22.39	USA
13.02.24	Chevrolet	89.00	USA
13.02.24	GMC	19.00	USA
20.02.24	Audi	69.00	Germany
20.02.24	Bentley	1.00	UK
20.02.24	Cupra	NA	Spain
20.02.24	Lamborghini	1.00	Italy
20.02.24	Porsche	23.00	Germany
20.02.24	Scout	0.00	USA
20.02.24	Seat	10.00	Spain
20.02.24	Skoda	17.00	Czech Republic
20.02.24	Volkswagen	126.00	Germany
25.03.24	Ford	141.00	USA
18.05.24	Polestar	2.38	Sweden
18.05.24	Volvo	27.00	Sweden
22.08.24	VinFast	1.19	Vietnam
26.08.24	Renault	34.00	France

Appendix 4: Avanci 5G pool revenue

Appendix 4.1: Avanci 5G pool revenue for 2023 (daily)

Car brand	Unit sales	Participating days	Avanci payments (\$29)
Mercedes-Benz	2,491,600	137	\$ 17,899,791
BMW	2,253,835	114	\$ 13,473,364
Mini	295,474	114	\$ 1,766,335
Rolls-Royce	6,032	114	\$ 36,059
Genesis	231,053	54	\$ 654,265
Hyundai	4,216,680	54	\$ 11,940,251
Kia	3,085,771	54	\$ 8,737,889
			\$ 54,507,955

Appendix 4.2: Avanci 5G pool revenue for 2024 (daily)

Car brand	Unit sales	Participating days	Avanci payments (\$29)	Avanci payments (\$32)
Mercedes-Benz	2,548,907	366	\$48,786,076	\$48,786,076
BMW	2,305,673	366	\$44,130,585	\$44,130,585
Mini	302,270	366	\$5,785,446	\$5,785,446
Rolls-Royce	6,171	366	\$118,108	\$118,108
Genesis	236,367	366	\$4,524,059	\$4,524,059
Hyundai	4,313,664	366	\$82,563,522	\$82,563,522
Kia	3,156,744	366	\$60,420,075	\$60,420,075
Buick	170,872	322	\$2,877,311	\$2,877,311
Cadillac	150,600	322	\$2,535,955	\$2,535,955
Chevrolet	1,755,754	322	\$29,565,178	\$29,565,178
GMC	576,642	322	\$9,710,077	\$9,710,077
Audi	1,938,790	315	\$31,937,586	\$35,241,474
Bentley	13,872	315	\$228,511	\$252,150
Cupra	236,006	315	\$3,887,717	\$4,289,894
Lamborghini	10,345	315	\$170,406	\$188,034
MAN	118,361	315	\$1,949,757	\$2,151,456
Navistar	90,638	315	\$1,493,072	\$1,647,528
Porsche	327,565	315	\$5,395,956	\$5,954,158
Scania	98,822	315	\$1,627,887	\$1,796,289
Scout	0	315	\$0	\$0
Seat	295,033	315	\$4,860,067	\$5,362,833
Skoda	886,736	315	\$14,607,165	\$16,118,251
Volkswagen	4,978,736	315	\$82,014,480	\$90,498,736
VW Truck&Bus	37,953	315	\$625,203	\$689,879
Ford	2,041,818	281	\$30,004,348	\$33,108,246
Yanmar	NA	281	NA	NA
Saab	NA	275	NA	NA
Iseki	NA	247	NA	NA
Polestar	55,882	227	\$663,379	\$732,004
Volvo	725,016	227	\$8,606,659	\$9,497,003
Kobelco	NA	148	NA	NA
VinFast	35,657	131	\$244,272	\$269,541
Renault	2,286,758	127	\$15,187,447	\$16,758,562
			\$494,520,300	\$515,572,429

Appendix 4.3: Avanci 5G pool revenue for 2023 (quarterly)

Car brand	Unit sales	Participating quarters	Avanci payments (\$29)
Mercedes-Benz	2,491,600	2	\$23,844,612
BMW	2,253,835	2	\$21,569,201
Mini	295,474	2	\$2,827,686
Rolls-Royce	6,032	2	\$57,726
Genesis	231,053	1	\$1,105,586
Hyundai	4,216,680	1	\$20,176,814
Kia	3,085,771	1	\$14,765,414
			\$84,347,040

Appendix 4.4: Avanci 5G pool revenue for 2024 (quarterly)

Car brand	Unit sales	Participating quarters	Avanci payments (\$29)	Avanci payments (\$32)
Mercedes-Benz	2,548,907	4	\$48,786,076	\$48,786,076
BMW	2,305,673	4	\$44,130,585	\$44,130,585
Mini	302,270	4	\$5,785,446	\$5,785,446
Rolls-Royce	6,171	4	\$118,108	\$118,108
Genesis	236,367	4	\$4,524,059	\$4,524,059
Hyundai	4,313,664	4	\$82,563,522	\$82,563,522
Kia	3,156,744	4	\$60,420,075	\$60,420,075
Buick	170,872	4	\$3,270,484	\$3,270,484
Cadillac	150,600	4	\$2,882,483	\$2,882,483
Chevrolet	1,755,754	4	\$33,605,140	\$33,605,140
GMC	576,642	4	\$11,036,920	\$11,036,920
Audi	1,938,790	4	\$37,108,433	\$40,947,236
Bentley	13,872	4	\$265,508	\$292,974
Cupra	236,006	4	\$4,517,157	\$4,984,449
Lamborghini	10,345	4	\$197,995	\$218,477
MAN	118,361	4	\$2,265,431	\$2,499,786
Navistar	90,638	4	\$1,734,807	\$1,914,270
Porsche	327,565	4	\$6,269,586	\$6,918,164
Scania	98,822	4	\$1,891,449	\$2,087,116
Scout	0	4	\$0	\$0
Seat	295,033	4	\$5,646,935	\$6,231,101
Skoda	886,736	4	\$16,972,135	\$18,727,873
Volkswagen	4,978,736	4	\$95,293,015	\$105,150,913
VW Truck&Bus	37,953	4	\$726,426	\$801,574
Ford	2,041,818	4	\$39,080,396	\$43,123,196
Yanmar	NA	4	NA	NA
Saab	NA	4	NA	NA
Iseki	NA	3	NA	NA
Polestar	55,882	3	\$802,192	\$885,177
Volvo	725,016	2	\$6,938,408	\$7,656,174
Kobelco	NA	2	NA	NA
VinFast	35,657	2	\$341,234	\$376,534
Renault	2,286,758	2	\$21,884,273	\$24,148,164
			\$539,058,279	\$564,086,077

Appendix 5: Court case overview

Case	Plaintiff	Defendant	Filing date	Judgement	Court
6:23-cv-00429	Intellectual Ventures	Volvo	08.06.23		Texas
HP-2023-000042	Tesla	InterDigital & Avanci	07.12.23	dismissed	England
6:24-cv-00188	Intellectual Ventures	Tesla	12.04.24		Western