

## ID and Address file contents

---

*Public document*

Version:	5.0
Date:	15/11/2023



## Document history

Versie	Datum	Subject
1.0	/	Legacy
2.0	11/05/2021	New format + Added changes for new EU(+) cards
3.0	11/10/2021	Added changes for the new non-EU card layout
4.0	16/05/2022	Added tag 31, updated tag 22
5.0	15/11/2023	Added new cards for foreigners younger than 12 in tag 15

## Contents

<b>1</b>	<b>ID file</b>	<b>3</b>
<b>2</b>	<b>Address file</b>	<b>7</b>
<b>3</b>	<b>Additional information</b>	<b>7</b>

## 1 ID file

File contents and format								
Tag (decimal)	Tag (hexadecimal)	Current max. # bytes (decimal)	Data	Encoding type	Default value	Envisioned max. # bytes (decimal)	eID	Foreigner
0	0	2	File structure version	Binary	N/A	2	✓	✓
1	1	12	Card Number	ASCII	M	12	✓	✓
2	2	16	Chip Number	Binary	M	16	✓	✓
3	3	10	Card validity date begin: <b>DD.MM.YYYY</b>	ASCII	M	10	✓	✓
4	4	10	Card validity date end: <b>DD.MM.YYYY</b>	ASCII	M	10	✓	✓
5	5	(42) *47	Card delivery municipality	UTF-8	M	80	✓	✓
6	6	11	National Number	ASCII	M	11	✓	✓
7	7	(62) *90	Name	UTF-8	M	110	✓	✓
8	8	(52) *75	2 first given names	UTF-8	""	95	✓	✓
9	9	3	First letter of 3 <sup>rd</sup> given name	UTF-8	""	3	✓	✓
10	0A	(50) *65	Nationality	UTF-8	M	85	✓	✓
11	0B	(40) *60	Birth location	UTF-8	M	80	✓	✓
12	0C	12	Birth date: <b>DD mmmm YYYY</b> or <b>DD.mmm.YYYY</b> (German)	UTF-8	M	12	✓	✓
13	0D	1	Sex <b>M</b> : man <b>F/V/W</b> : woman	ASCII	M	1	✓	✓
14	0E	(21) *30	Noble condition	UTF-8	""	50	✓	✓

15	0F	2	<p>Document type:</p> <p>1: eID</p> <p>6: Kids ID (&lt; 12 years)</p> <p>7: Bootstrap card</p> <p>8: "Habilitation/machtigings" card</p> <p>11: A-card</p> <p>12: B-card</p> <p>13: C-card</p> <p>14: D-card</p> <p>15: E-card</p> <p>16: E+-card</p> <p>17: F-card</p> <p>18: F+-card</p> <p>19: H-card</p> <p>20: I-card <sup>(c)</sup></p> <p>21: J-card <sup>(c)</sup></p> <p>22: M-card <sup>(d)</sup></p> <p>23: N-card <sup>(d)</sup></p> <p>27: K-card<sup>(f)</sup></p> <p>28: L-card<sup>(f)</sup></p> <p>31: EU-card</p> <p>32: EU+-card</p> <p>33: A-card<sup>(f)</sup></p> <p>34: B-card<sup>(f)</sup></p> <p>35: F-card<sup>(f)</sup></p> <p>36: F+-card<sup>(f)</sup></p> <p>61 : kids Foreigner Card EU</p> <p>62 : kids Foreigner Card EU+</p> <p>63 : kids Foreigner Card A</p> <p>64 : kids Foreigner Card B</p> <p>65 : kids Foreigner Card K</p> <p>66 : kids Foreigner Card L</p> <p>67 : kids Foreigner Card F</p> <p>68 : kids Foreigner Card F+</p> <p>69 : kids Foreigner Card M</p>	ASCII	M	2	✓	✓
16	10	1	<p>Special status:</p> <p>0: No status</p> <p>1: White cane (blind people) <sup>(a)</sup></p> <p>2: Extended minority <sup>(a)</sup></p> <p>3: White cane + extended minority <sup>(a)</sup></p> <p>4: Yellow cane (partially sighted people) <sup>(a)</sup></p> <p>5: Yellow cane + extended minority <sup>(a)</sup></p>	ASCII	0	2	✓	✓

17	11	48	Hash of EF(Photo)	Binary (SHA-384)	M	48	✓	✓
18	12	2	Duplicate	ASCII	0	2		✓
19	13	1	Special organisation: 1: SHAPE <sup>(a)</sup> 2: NATO <sup>(a)</sup> 4: Old European blue card 5: Researcher	ASCII	""	1		✓
20	14	0	Member of family	Boolean	absent			✓
21	15	13	Date and country of protection dd.MM.yyyy-A2 <sup>(g)</sup>	ASCII	""	13		✓
22	16	1	Mentions: 7: Labour market : unlimited <sup>(c)</sup> 8: Labour market : limited <sup>(c)</sup> 9: Labour market : no <sup>(c)</sup> <del>A: Seasonal worker <sup>(e)</sup></del>	ASCII	""	1		✓
23	17	13	VAT number <sup>(c)</sup> xxxx.xxx.xxx	ASCII	""	13		✓
24	18	13	VAT number <sup>(c)</sup> xxxx.xxx.xxx	ASCII	""	13		✓
25	19	18	Regional file number <sup>(c)</sup>	ASCII	""	18		✓
26	1A	48	Hash of EF(Puk#1 Basic)	Binary SHA-384	M	48	✓	✓
27	1B	1	Mention: <sup>(d)</sup> B :Article 18(1) Agreement	ASCII	""	1		✓
28	1C	1	Mention: <sup>(d)</sup> C : Séjour permanent	ASCII	""	1		✓

29	1D	1	Mentions: <b>A:</b> Seasonal worker <sup>(c)</sup> <b>D:</b> Student <sup>(b,e)</sup> <b>E:</b> School pupil <sup>(b,e)</sup> <b>F:</b> Trainee <sup>(b,e)</sup> <b>G:</b> Volunteer <sup>(b,e)</sup> <b>H:</b> Au pair <sup>(b,e)</sup> <b>I:</b> Researcher <sup>(b,e)</sup> <b>J:</b> Job search <sup>(b,e)</sup>	ASCII	""	1		✓
30	1E	1	Mention: <b>K</b> : Mobility program <sup>(b,e)</sup>	ASCII	""	1		✓
31	1F	10	Date d'enregistrement (EU) / Date du séjour permanent (EU+) <sup>(h)</sup> : <b>DD.MM.YYYY</b>	ASCII	M	10		✓

<sup>(a)</sup> Present on existing cards, but not used on new cards anymore.

<sup>(b)</sup> Directive (EU) 2016/801/EU

<sup>(c)</sup> Directive 2011/98/EU

<sup>(d)</sup> Brexit withdrawal agreement

<sup>(e)</sup> Only for A-card

<sup>(f)</sup> Council Regulation (EC) 1030/2002

<sup>(g)</sup> A2 = Alpha-2 country code (ISO 3166)

<sup>(h)</sup> Directive 2004/38/CE

## 2 Address file

File contents and format								
Tag (Decimal)	Tag (hexadecimal)	Current max. # bytes (decimal)	Data	Encoding type	Default value	Envisioned max. # bytes (decimal)	eID	Foreigner
0	0	2	File structure version	Binary	N/A	2	✓	✓
1	1	60	Street + number	UTF-8	M	60	✓	✓
2	2	4	Zip code	ASCII	M	6	✓	✓
3	3	47	Municipality	UTF-8	M	47	✓	✓

## 3 Additional information

### Maximum sizes:

- The tables contain the maximum size ("Max. # bytes") for each individual field.
- The tables also contain the envisioned maximum size ("Envisioned Max. # bytes") for each field; this is intended to anticipate some possible changes in the data size. All applications should use this value for their internal buffers allocation.

### Default Values:

- N/A = Not applicable
- M = Mandatory
- "" = empty/blank
- 0 = value equal to zero
- Absent = tag not present
- Signature = ECDSA SHA-2-384

### Birth date month encoding:

Card language	Birth months											
French	JAN	FEV	MARS	AVR	MAI	JUIN	JUIL	AOUT	SEPT	OCT	NOV	DEC
Dutch	JAN	FEB	MAAR	APR	MEI	JUN	JUL	AUG	SEP	OKT	NOV	DEC
German	JAN	FEB	MÄR	APR	MAI	JUN	JUL	AUG	SEP	OKT	NOV	DEZ