

DL Card File Structure
Version 2.1

The DL application data will reside in EFs under the DL-DF, which is created under the MF. The DL-DF will contain the following EFs under it.

- Key file File Id = AF02
- SE file File Id = AF0C
- Personal Information File File Id = AF03
- Address file File Id = AF04
- License details File File Id = AF05
- Vehicle Class Details File File Id = AF06
- Endorsement File File Id = AF07
- Photograph Signature Details File File Id = AF08
- Digital Signature Details File File Id = AF09

The sections below describe the FCP and the contents of each of these files.

Directory DL-DF

The directory DL-DF will have the following FCP.

TAG	LENGTH	VALUE	REMARKS
82	01	38	FDB ONLY
83	02	AF00	File Identifier
84	10	DL	DF Name
8A	01	01 or 05	LCSI. When file is created first, it will be in 01 state (creation). Later it will be turned into 05 (activated state)
8C	08	7F FF FF 23 23 23 23 FF	Security Attributes. AM Byte: 7F Delete File (Self): Never Terminate DF: Never Activate File: (SE#3) Deactivate File: (SE#3) Create File DF: (SE#3) Create File EF: (SE#3) Delete File (Child): Never
AB	0D	86 04 22 F4 22 F2 97 00 8401DA 9700	Security Attributes (expanded format) Command MSE Erase is: Never allowed Command MSE Store is: Never allowed Command PUTDATA : Never allowed.
8D	02	AF0C	File id of the SE file

Key File EF2

The key file will have the following FCP.

TAG	LENGTH	VALUE	REMARKS
82	05	0C 01 00 16 03	FDB (Linear variable record internal EF) DCB (Write once, 1 byte Data unit) MRL (22 bytes) No. of records (3 keys)
83	02	AF02	File Identifier
88	01	10	Short EF id
8A	01	01 or 05	LCSI. When file is created first, it will be in 01 state (creation). Later it will be turned into 05 (activated state)
8C	06	6B 23 23 23 FF FF	Security Attributes. AM Byte: 6B Delete self: (SE#3) Terminate EF: (SE#3) Deactivate EF: (SE#3) Update record: Never Read record: Never

SE File

The SE file will have the following FCP.

TAG	LENGTH	VALUE	REMARKS
82	05	0C 01 00 0E 04	FDB (Linear variable record internal EF) DCB (Write once, 1 byte Data unit) MRL (14 bytes) No. of records (4SE Records)
83	02	AF0C	File Identifier
88	01	60	Short EF id
8A	01	01 or 05	LCSI. When file is created first, it will be in 01 state (Creation). Later it will be turned into 05 (activated state)
8C	06	6B 23 23 23 FF FF	Security Attributes. AM Byte: 6B Delete self: (SE#3) Terminate EF: (SE#3) Deactivate EF: (SE#3) Update record: Never Read record: Never

Data objects:-

Field	Tag	Length(Max)	Value
Version	02C0	3	2.1
DL no	02C1	20	DL1ABC1234
Date of Card Printing	02C2	4(BCD)	DDMMYYYY
Date of Card Activation (KMS Date)	02C3	4(BCD)	DDMMYYYY
Sequence Number	02C4	20	DRABQES19

Personal Details file

The FCP of the Registration Details file will be as follows.

TAG	LENGTH	VALUE	REMARKS
80	02	07D2	File size (2002 bytes, with enough growth space)
82	02	01 01	FDB (Transparent working EF) DCB Write Once, One byte data unit
83	02	AF03	File Identifier
88	01	18	Short EF id
8A	01	01 or 05	LCSI. When file is created first, it will be in 01 state (creation). Later it will be turned into 05 (activated state)
8C	05	6A 23 23 23 FF	Security Attributes. AM Byte: 6A Delete File (Self): (SE#3) Terminate EF: (SE#3) Deactivate File: (SE#3) Update Binary: (NEVER)

Field	Type (Updatable / Non-Updatable)	Tag (Key)	Sample (Key / Value Pair in JSON format) Note: (First two bytes will be actual byte length of data written)
Name of the DL Holder	Non-updatable	NAME	{ "dlpd":
Full Name of the DL Holder	Non-updatable	FLNM	{ "NAME": "S
Gender	Non-updatable	GNDR	SURESH KUMAR MENON",
Guardian(Mother/Father/Husband) Name	Non-updatable	FHNM	"FLNM": "VINESH SURESH KUMAR
Relation with Guardian (e.g.:	Non-	RLN	MENON",

S/o, W/o , D/o)	updatable		"GNDR": "M", "FHNM": "VINESH MENON", " RLN": "S/o.", "DOB": " ":21051986" "ID1": "MOLE ON THE RIGHT WRIST", "ID2": "MOLE ON THE NOSE", "BGRP": AB+, " MOB": 9999999999, "MAIL": "abc.xyz@gmail.co m", "AMOB": 123456789, "EMRG": "0802537123", "DNR": "Y"} }
Date of Birth (in ddmmyyyy format)	Non-updatable	DOB	
First Identification Mark	Non-updatable	ID1	
Second Identification Mark	Non-updatable	ID2	
Blood Group	Non-updatable	BGRP	
Mobile Number	Non-updatable	MOB	
Email Id	Non-updatable	MAIL	
Alternate Mobile Number	Non-updatable	AMOB	
Emergency Contact Number	Non-updatable	EMRG	
Organ Donor	Non-updatable	DNR	

DL Holder Address Details file

The FCP of the Registration Details file will be as follows.

TAG	LENGTH	VALUE	REMARKS
80	02	03EA	File size (1002 bytes, with enough growth space)
82	02	01 01	FDB (Transparent working EF) DCB Write Once, One byte data unit
83	02	AF04	File Identifier
88	01	20	Short EF id
8A	01	01 or 05	LCSI. When file is created first, it will be in 01 state (creation). Later it will be turned into 05 (activated state)
8C	05	6A 23 23 23 FF	Security Attributes. AM Byte: 6A Delete File (Self): (SE#3) Terminate EF: (SE#3) Deactivate File: (SE#3) Update Binary: (NEVER)

Field	Type (Updatable / Non-Updatable)	Tag (Key)	Sample (Key / Value Pair in JSON format) Note: (First two bytes will be actual byte length of data)
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			written)
Permanent Address	Non-updatable	PEADR	<pre> { "dladdr": { " PEADR":." H.NO.1, LODHI ROAD, DELHI- 110003", " PEPIN": 110003, "PEST":."DL", "PEDST":." DELHI", "PETLK":." DELHI", "PEVIL":."SOT H DELHI", PRADR": H.NO.1, LODHI ROAD, DELHI- 110003", "PRST":."DL", " PRPIN": 110003, "PRDST":."SO TH DELHI", "PRTLK": "SOTH DELHI", "PRVIL":." SOTH DELHI" } } </pre>
PINCODE of Permanent Address	Non-updatable	PEPIN	
State Code In Permanent Address	Non-updatable	PEST	
District Name in Permanent Address	Non-updatable	PEDST	
Sub-division/Taluk name in Permanent Address	Non-updatable	PETLK	
Village Name in Permanent address	Non-updatable	PEVIL	
Present Address	Non-updatable	PRADR	
State Code in Present address	Non-updatable	PRST	
PINCODE of Present address	Non-updatable	PRPIN	
District Name in present Address	Non-updatable	PRDST	
Sub-division/ Taluk Name in present Address	Non-updatable	PRTLK	
Village Name in Present address	Non-updatable	PRVIL	

License Details file

The FCP of the Personal Details file will be as follows.

TAG	LENGTH	VALUE	REMARKS
80	02	0190	File size (400 bytes, with enough growth space)
82	02	01 01	FDB (Transparent working EF) DCB Write Once, One byte data unit
83	02	AF05	File Identifier
88	01	28	Short EF id
8A	01	01 or 05	LCSI. When file is created first, it will be in 01 state (creation). Later it will be turned into 05 (activated state)
8C	05	6A 23 23 23 FF	Security Attributes. AM Byte: 6A Delete File (Self): (SE#3) Terminate EF: (SE#3) Deactivate File: (SE#3) Update Binary: (NEVER)

Field	Type (Updatable / Non-Updatable)	Tag (Key)	Sample (Key / Value Pair in JSON format) Note: (First two bytes will be actual byte length of data written)
Valid From(Non-Transport) (in ddmmyyyy format)	Non-updatable	NTFRDT	<pre>{ "LDET": { "NTFRDT": "21082019", "NTTODT": "21082039", "TRFRDT": "21082019", "TRTODT": "21082039", "FISSDT": "21082019", "FISSAUTH": "TN22", "HZTODT": "21-Aug-2019", "HLTODT": "21-Aug-2019", "TRAUTH": "RTOAUTH ABC XYZ", "TRAUTHNO": "TN22YZ 2019TAZ0000123", "TRAUTHDT": "21082039", "ADPTRC": "TN22YZ1234", } }</pre>
Valid Till (Non-Transport) (in ddmmyyyy format)	Non-updatable	NTTODT	
Valid From (Transport) (in ddmmyyyy format)	Non-updatable	TRFRDT	
Valid Till (Transport) (in ddmmyyyy format)	Non-updatable	TRTODT	
First Date of DL Issuance (in ddmmyyyy format)	Non-updatable	FISSDT	
Licence First (Original) Issue Authority	Non-updatable	FISSAUTH	
Date of Hazardous Validity (in ddmmyyyy format)	Non-updatable	HZTODT	
Date of Hill Region validity (in ddmmyyyy format)	Non-updatable	HLTODT	
Authority who issued Transport Authorization	Non-updatable	TRAUTH	
Transport Authorization Number	Non-updatable	TRAUTHNO	
Transport Authorization date (in ddmmyyyy format)	Non-updatable	TRAUTHDT	
Adapted Vehicle Registration	Non-	ADPTRC	

Number	updatable		<pre> "ADP2RC": "TN22YZ1234", "ADP3RC": "TN22YZ1234", "ENDNO": "TN22YZ2019TAZ0000123", "ENDDT": "21082019", "ENDAUTH": "TN22", "ROUTE": "ABC" } </pre>
Adapted Vehicle 2 nd Vehicle Registration Number , if any	Non-updatable	ADP2RC	
Adapted Vehicle 3 rd Vehicle Registration Number , if any	Non-updatable	ADP3RC	
Latest Endorsement No.	Non-updatable	ENDNO	
Latest Endorsement Date	Non-updatable	ENDDT	
Latest Endorsement Licencing Authority Office	Non-updatable	ENDAUTH	
ROUTE	Non-updatable	ROUTE	

Vehicle Class Details file

The FCP of the **Vehicle Details File** will be as follows.

TAG	LENGTH	VALUE	REMARKS
80	02	0CE6	File size (3302 bytes, with enough growth space)
82	02	01 01	FDB (Transparent working EF) DCB Write Once, One byte data unit
83	02	AF06	File Identifier
88	01	30	SFI – 03 coded in 5 MSBs
8A	01	01 or 05	LCSI. When file is created first, it will be in 01 state (creation). Later it will be turned into 05 (activated state)
8C	05	6A 23 23 23 FF	Security Attributes. AM Byte: 6A Delete File (Self): (SE#3) Terminate EF: (SE#3) Deactivate File: (SE#3) Update Binary: (NEVER)

Field	Type (Updatable / Non-Updatable)	Tag (Key)	Sample (Key / Value Pair in JSON format) Note: (First two bytes will be actual byte length of data written)
Class of Vehicle (COV)	Non-updatable	COVCD	{ "CVD":
Class of Vehicle Issue Date (in ddmmyyyy format)	Non-updatable	CISSDT	{ "COVCD": "MCWG", "CISSDT": "20082019", "COVLA":
Class of Vehicle Issued by - LA Office	Non-Updatable	COVLA	"TN22YZ", "CENDNO":

Class of Vehicle – Endorsement No.	Non-Updatable	CENDNO	<pre> “TN22YZ2019TAZ0000123”, “TSTNM”:"SURESH KUMAR MENON", “TSTD SG”:"SENIOR MOTOR VEHICLE INSPECTOR”, “COVCTG”:"NT”, “BDGNO”:"TN22YZ2019TBD0000123”, “BDGDT”:"20082034”, “BADLA”:"TN22YZ }, { “COVCD”:"LMV”, “CISSDT”:"20082019”, “COVLA”:" TN22YZ”, “CENDNO”:" “TN22YZ2019TAZ0000123”, “TSTNM”:"SURESH KUMAR MENON”, “TSTD SG”:"SENIOR MOTOR VEHICLE INSPECTOR”, “COVCTG”:"NT”, “BDGNO”:"TN22YZ2019TBD0000123”, “BDGDT”:"20082034”, “BADLA”:"TN22YZ” } } } </pre>
Class of Vehicle – Tested Officer Name	Non-updatable	TSTNM	
Class of Vehicle – Tested Officer Designation	Non-updatable	TSTD SG	
COV Category	Non-updatable	COVCTG	
Badge Number	Non-Updatable	BDGNO	
Badge Issue Date (in ddmmyyyy format)	Non-updatable	BDGDT	
Badge Issued by – LA Office	Non-updatable	BADLA	

Endorsement file

The FCP of the endorsement file will be as follows.

TAG	LENGTH	VALUE	REMARKS
80	02	4E20	File size (20000 bytes, with enough growth space)
82	02	01 01	FDB (Transparent working EF) DCB Write Once, One byte data unit
83	02	AF07	File Identifier
8A	01	01 or 05	LCSI. When file is created first, it will be in 01 state (creation). Later it will be turned into 05 (activated state)
88	01	38	SFI – coded in 5 MSBs
8C	05	6A 23 23 23 21	Security Attributes (compact form): Delete File: (SE#3) Terminate File: (SE#3) Deactivate File: (SE# 3) Update Binary: (SE#1)

Field	Type (Updatable / Non-Updatable)	Tag (Key)	Sample (Key / Value Pair in JSON format) Note: (First two bytes will be actual byte length of data written)
Challan/Inward Number	Updatable	CHNNO	<pre>{ "ENF": [{ "CHNNO": "12345", "CHDT": "21082019", "EAID": "RTOAUTH ABC XYZ", "EANM": "SURESH KUMAR MENON", "SECTN": "SECTION-156(12)(iii)", "DQTYP": "S", "DQFRDT": "20082019", "DQTODT": "20082020", "DQCOV": "MCWG", "SETLDT": "20082019", "FINAMT": "12345", "REVDT": "20082019", "REVREM": "SIGNAL JUMP NEAR REDFORT", "REVAUT": "SURESH KUMAR MENON", "REM": "TN22YZ2019TAZ0000123" }], { "CHNNO": "12345", "CHDT": "21082019", "EAID": "RTOAUTH ABC XYZ", "EANM": "SURESH KUMAR MENON", "SECTN": "SECTION-156(12)(iii)", "DQTYP": "S", "DQFRDT": "20082019", "DQTODT": "20082020", "DQCOV": "MCWG", "SETLDT": "20082019", "FINAMT": "12345", "REVDT": "20082019", "REVREM": "SIGNAL JUMP NEAR REDFORT", "REVAUT": "SURESH KUMAR MENON", "REM": "TN22YZ2019TAZ0000123" }]}]</pre>
Challan Date (in ddmmYYYY format)	Updatable	CHDT	
Endorsement Authority ID	Updatable	EAID	
Endorsement Authority Name	Updatable	EANM	
Section/ Rule Violated	Updatable	SECTN	
Disqualification Type (Suspended/Cancelled)	Updatable	DQTYP	
Disqualification period from (in ddmmYYYY format)	updatable	DQFRDT	
Disqualification period Up to (in ddmmYYYY format)	Updatable	DQTODT	
Class of Vehicle that is Suspended/Cancelled	Updatable	DQCOV	
Settlement date	Updatable	SETLDT	
Fine Amount	Updatable	FINAMT	
Review Date (in ddmmYYYY format)	Updatable	REVDT	
Review Remarks	Updatable	REVREM	
Review Authority Name	Updatable	REVAUT	
Remarks	Updatable	REM	

Photograph Signature Details file

The FCP of the **Photograph\Signature** will be as follows.

TAG	LENGTH	VALUE	REMARKS
80	02	7850	File size (30800 bytes, with enough growth space)
82	02	01 01	FDB (Transparent working EF) DCB Write Once, One byte data unit
83	02	AF08	File Identifier
88	01	40	Short EF id
8A	01	01 or 05	LCSI. When file is created first, it will be in 01 state (creation). Later it will be turned into 05 (activated state)
8C	05	6A 23 23 23 FF	Security Attributes. AM Byte: 6A Delete File (Self): (SE#3) Terminate EF: (SE#3) Deactivate File: (SE#3) Update Binary: (Never)

Field	Type (Updatable / Non-Updatable)	Tag (Key)	Sample (Key / Value Pair) Note: (Reading of data is explained below)
Photograph	Non-updatable	PHOTO	<pre>{ "IMAGE": { "PHOTO": "PhotoValue", "SIGN": "SignValue" } }</pre>
Signature	Non-updatable	SIGN	

The structure of the data in this file is :-

First six bytes reserved for length as explained below followed by data:-

2 byte total file length	2 byte length of PhotoValue enclosed in the quotes (yellow colour)	2 byte length of SignValue enclosed in the quotes (yellow colour)	Data
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PhotoValue: - Decoded Base 64 encoded string in byte array.

SignValue: - Decoded Base 64 encoded string in byte array .

Digital Signature Details file

The FCP of the **Photograph\Signature** will be as follows.

TAG	LENGTH	VALUE	REMARKS
80	02	1800	File size (6144bytes, with enough growth space)
82	02	01 01	FDB (Transparent working EF) DCB Write Once, One byte data unit
83	02	AF09	File Identifier
88	01	48	Short EF id
8A	01	01 or 05	LCSI. When file is created first, it will be in 01 state (creation). Later it will be turned into 05 (activated state)
8C	05	6A 23 23 23 23	Security Attributes. AM Byte: 6A Delete File (Self): (SE#3) Terminate EF: (SE#3) Deactivate File: (SE#3) Update Binary: (SE#3)

Total Size of card: - 64 KB.

Data size: - 63870 bytes.

FCP size: - 325 bytes.

Total size used: - 64195 bytes
(With enough growth space)