

# Data demonstration of IDB1-IS

## Inputs

### Barcode Identifier

IDB1

### Barcode Flag

D – Signed, Compressed

## Header

### Issuing Country

ISL

### Signature Algorithm (represented in decimal)

3 - (0x03) - ECDSA With SHA-512 Hasing Algorithm

### Certificate Reference (represented in hex)

97A3E9CC0F

### Signature Date

2023-14-10

## Message Zone

### MRZ

IDISLID11112481281075<6089<<<<7510289M2702098ISL<<<<<<<<<<<6THURIDUR<OSP<ÆGIRSDO  
TTIR<<<<<

### TinyImage (represented as hex)

00000000C6A5020200D0A870A00000014667479706A703220000000006A7032200000002D6A7032680000001669686472000000C700000096000107070000000000  
F636F6C7201000000000110000038B6A703263FF4FFF51002900000000096000000C7000000000000000000000096000000C700000000000000000000001070101FF5  
2000C00000001000504040001FF5C00134040484850484850484850484850484850FF640025000143726561746564206279204F70656E4A5045472076657273696F6  
E20322E352E30FF90000A00000000030A0001FF93DF4A000F471D59B54D9958F694C30EEC6A1859B678B60B7913951D7EB9F727F027FC65C7CA627D2663E528  
0F8F941501EEBF27A56C624E9D0BAB18314CE965373F78C01C89B8FA2D4439BFE7E35A9D6F78896193B241BB017D6A80CC176803A95BB7C48C7908681DA67  
1320892B7F389CF95C4F99DC7C6A41AA003588C3FCA13E05A5E96149C951B13C262E033734EF93CA3FD5708C5C631AA1546BEC657F8D89B3D183F9B0FF4B  
33E0C045B0B4E9C4C7C94E6DCB519BFCC08EB9B89FEBB630E7334C61E04AB9A156AC71BF4BAEEF5F675A3977E9821C79E79F0768AC5554E60A7C2CF6AD4  
74E7F79F7FB92FA54F34167193A7FB4B9D62AF3B8B6098FD6F2B6641AC639E18253D71E97359D139B23671EB53D747CF92F93E3B747C37E08DD338D6F78875  
6560ED35F61348C0140ABC9717D6B18D4C4C2C4B9D54B0972ADD50EED8C563DB6970224F4873ABD557FD96D53FBD5F35B79CF16493897BCF3C73405FD289  
B8E11558AE839611DF1C8A28824538D26712A9DD4B768150C78F6C71575325980B8BE7CF970B936C69A15D460E3DB2C7CEAD2F762FC3D1831051F100A9B98  
BCECCACAF36248A9C2EB0B7D3DEFB34B60C4DAAAAB3BE12A648481EC59F4D910F3AF57A48974AB9A0CDBFC7A19304389097204875E30F29243063CEF8ED  
83FB3644E2A279F441537DA361C151CBDE39AB9042372E9F4DBC6184694A435B9792CD66B2E5F64D8982BF2EF2B6CCB32336089EF75C98F0BEF5F8B63F508  
8E16BF846C4EEFD0C460342E681A6D67FE28F59B57248872E95F402605049C29CCA537021C09A4AE2D65CF87A227C0FC70C043AAFF405F63B6D6E1C5DE6C  
14217EEC91896019C7F3BF7C804FAEEF7E0AAF8D903486B4BDEF1302C25B43307C10937EFE54684D0853AB0F0EA8618A43B522465647D56992A5883AEAE4  
6E375231B020D8EA4FB59693295A31B5D68D7BED39A286C1A6EDA45E4E2957A0DBD69ED6CA10574E3F29C7D1BC61F8A54B4DD29B90097545A14C952F047F  
540940725DFD581F1D4CFA3C6E3D7F5253C1E96A5D116B5BCFD9E68166FAD41D80A4EC0F480FFD9AA1DC39E5552C38DC390555220C396535020C386474952  
5344C39354544952

### Full Name

ÞURÍÐUR ÖSP ÆGIRSDÓTTIR

## Signature (in hex)

F93E4ECA282609BB4FE2EDE046AC48A853034AC085FC52795A28636B3F7EF7CD9587240ABEE95EC39CC3E54A919A  
F2BB56095BB9CAC9C0826096DE2DD94A448B

## Initial encodements

### Header

#### Issuing Country

##### Before

ISL

##### After Encoding with C40

8E9A

#### Date

##### Before

2023-14-10

##### After Encoding with specialized Date encoding

009AC147

### MRZ

#### Before

IDISLID11112481281075<6089<<<<7510289M2702098ISL<<<<<<<<<<6THURIDUR<OSP<AE  
GIRSDOTTIR<<<<<

#### After replacing ,<' with space – and encoding with C40

8C3FCBFF6B0E200F33E627661AC214554D0C133C462E19FD555745671B158E9A133C133C1  
33C1343D1ABC542D95CB41E15038090CAC5D37FC23C133C

## Hex representation of the payload structure before tag application

ISSUING\_COUNTRY(C40 encoded) + SIGNATURE\_ALGORITHM +  
CERTIFICATE\_REFERENCE + SIGNATURE\_DATE + MRZ(C40 encoded) + TinyImage +  
FULL\_NAME(utf8 encoded) + SIGNATURE

8E9A0397A3E9CC0F009AC1478C3FCBFF6B0E200F33E627661AC214554D0C133C462E19FD  
555745671B158E9A133C133C133C1343D1ABC542D95CB41E15038090CAC5D37FC23C133C  
0000000C6A(...)C39E5552C38DC390555220C396535020C3864749525344C39354544952F93E  
4ECA282609BB4FE2EDE046AC48A853034AC085FC52795A28636B3F7EF7CD9587240ABEE9  
5EC39CC3E54A919AF2BB56095BB9CAC9C0826096DE2DD94A448B

### DER-TLV application:

8E9A0397A3E9CC0F009AC14761820439073C8C3FCBFF6B0E200F33E627661AC214554D0C1  
33C462E19FD555745671B158E9A133C133C133C1343D1ABC542D95CB41E15038090CAC5D  
37FC23C133CAB8203D80000000C6A...AA1DC39E5552C38DC390555220C396535020C38647  
49525344C393545449527F40F93E4ECA282609BB4FE2EDE046AC48A853034AC085FC52795  
A28636B3F7EF7CD9587240ABEE95EC39CC3E54A919AF2BB56095BB9CAC9C0826096DE2D  
D94A448B

### General tags used by IS

0x61 Message zone

0x07 MRZ zone

0x7F Signature Zone

0xAA Full name

0xAB Tiny Image

### Application process

Mrz

07(tag)+3C(Length)+8C3FCBFF6B0E200F33E627661AC214554D0C133C462E19FD555745671  
B158E9A133C133C133C1343D1ABC542D95CB41E15038090CAC5D37FC23C133C

TinyImage:

AB(tag)+8203d8(length) 0000000C6A...

Full name

AA(tag)+1d(Length)+C39E5552C38DC390555220C396535020C3864749525344C39354544952

Signature

7F(Tag)+40(Length)+F93E4ECA282609BB4FE2EDE046AC48A853034AC085FC52795A28636B3F7EF  
7CD9587240ABEE95EC39CC3E54A919AF2BB56095BB9CAC9C0826096DE2DD94A448B

### Message zone (Last DER-TLV step)

61(Tag)+820439(Length)+073C8C3...AA16C39... AB8203D8000...7F40F93...

### Final Encodement

Payload before encodement

- Gísli Ragnar Axelsson