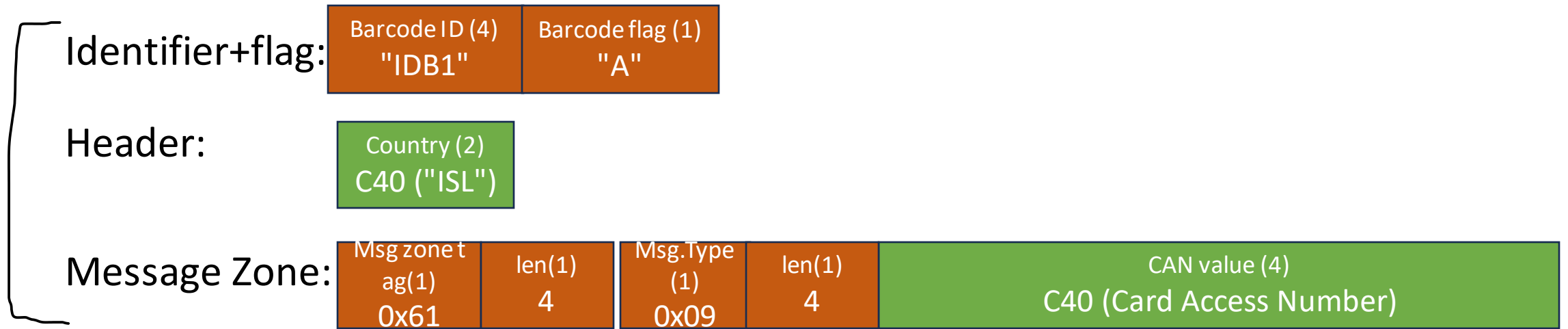


# Icelandic ID-cards: ICAO Digital Barcodes (IDB)

18 January 2024

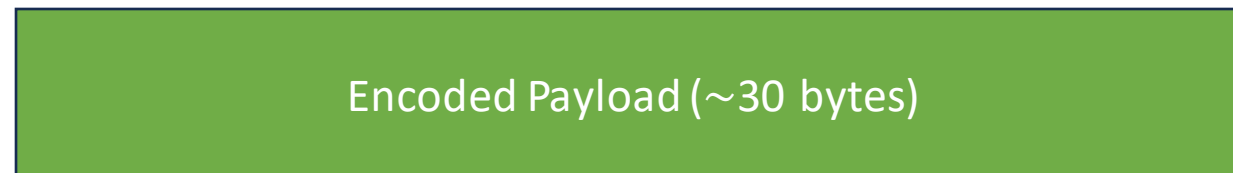
# Icelandic ID-card: **small** CAN barcode on card **front**



Payload structure  
to be encoded



Zlib + Base32  
+ de-padding:



Barcode from Base32  
(6x6mm 600dpi):



# Icelandic ID-card: Large barcode on card reverse

Front:

Barcode ID (4) "IDB1"	Barcode flag (1) "D"
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Header:

Country (2) ("ISL")(c 40)	Signature alg(1) 0x01, 0x02 or 0x03	Certificate ref (5) (sha1 end)	Sign.date (4) Date (encoded)
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MRZ message:

Msg zone tag(1) 0x61 ("T")	Msg len(3) DER-TLV	MRZ tag (1) 0x07	MRZ len(1) 0x3C (60) or 0x5A (90)	MRZ (60) C40 ("IDISLIS1234567X121212 1239 121212XF291011XISL 3 AEVARSDOTTIR THURIDUR OESP ")
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Nat.MsgType (1) 0xAA	len(1) 44	Full name (44) "Þuríður Ösp Ævarsdóttir"
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Nat.MsgType (1) 0xAB	len(3) DER-TLV	Tiny Facial (<1024) Jpeg2000 (B/W+shrink+compress)
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Signature zone:

Signature Tag (1) 0x7F	len(1) <73	Signature (<73) (DER encoded – Signature on Header+All Messages)
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# Final encoding of large barcode

Encoded structure  
for signing (<1129):

Header (16)	MRZ message (63)	FullName message (47)	TinyFacial message (<1005)
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Signed structure  
(<1204):

Header (16)	MRZ message (63)	FullName message (47)	TinyFacial message (<1005)	Signature zone (<75)
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ZLIB compressed  
level9 (~1196):

Header	MRZ message	FullName message	TinyFacial message	Signature zone
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Base32 encoded (8/5)  
+de-padding (<1866):

Header (16)	MRZ message (69)	FullName message (53)	TinyFacial message (<1608)	Signature zone (<120)
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Barcode from Base32  
(25x25mm 600dpi):

