

QR Code Protocol Structure Markdown

For the first part of this showcase the first example ("Example 1") was used. (See Notion for more details)

Encoded as QR Code (String behind QR Code):

Source: [Example 1 from Notion](#)

```
000401NL1G0012701111402092024303092024103092024421020920240100:::  
:::0:64C8001F010203000000:41909202405092024000002BB04BB06B106B008  
BB0AB70CB10CB00FBB12BB15BB18B118B01CBB20BB24B124B724B02ABB30BB36BB  
3CB73CB13CB048BB54B760BB6CB778B178B0
```

Main Body Structure definition

Structure:

[DATA] [CHAR LENGTH] [VARIABLE IN FORM + NOTES]

```
-----  
  
0004      [ 4] protocol_version  
01        [ 2] [HEX] institution_id  
nl1g001270 [10] survivor_id // todo  
1         [ 1] gender  
1         [ 1] t_care  
1         [ 1] diagnosis  
1         [ 1] has_teratoma_in_tumor  
4         [ 1] orchidectomy  
02092024  [ 8] orchidectomy_date  
3         [ 1] treatment_chemotherapy_type  
03092024  [ 8] chemotherapy_date  
1         [ 1] radiotherapy  
03092024  [ 8] radiotherapy_date [':::~::~:' when empty]  
42        [ 2] [HEX] radiotherapy_total_doses_radiation ['::']
```

```

when empty]
1          [ 1] rplnd
02092024   [ 8] rplnd_date [':::~::~:' when empty]
0          [ 1] cardiovascular_event [':' when empty]
1          [ 1] trombo_embolic_event [':' when empty]
0          [ 1] bleomycin [':' when empty]
0          [ 1] relapse
:::~::~:   [ 8] relapse_date [':::~::~:' when empty]
0          [ 1] [BITMASK] relapse_treatments >> [ (hex)1 =
(binary)0001 ] / [ (hex)d = (binary)1011 ]
:          [ 1] relapse_chemotherapy_type [':' when empty]
64         [ 2] weight
c8         [ 2] length
0          [ 1] has_metabolic_syndrome
0          [ 1] has_paresthesia
1f         [ 2] [BITMASK] medication >> [ (hex)1f =
(binary)11111 ] / [ (hex)15 = (binary)10101 ]
01 02      [ 2] [HEX] ` (treatment_ciscum_treatment +
relapse_ciscum_treatment) / 10 ` >> [ 10 + 11 = 21 /
10 = 2 ] NORMAL ROUNDING
02 03      [ 2] [HEX] ` (treatment_bleocum_treatment +
relapse_bleocum_treatment) / 10 ` >> [ 10 + 15 = 25 /
10 = 3 ] NORMAL ROUNDING
03 03      [ 2] [HEX] ` (treatment_etocum_treatment +
relapse_etocum_treatment) / 100 ` >> [ 100 + 190 = 290 /
100 = 3 ] NORMAL ROUNDING
00 03      [ 2] [HEX] ` (treatment_carbocum_treatment +
relapse_carbocum_treatment) / 100 ` >> [ 100 + 199 = 299 /
100 = 3 ] NORMAL ROUNDING
00 02      [ 2] [HEX] ` (treatment_ifosfamide_treatment +
relapse_ifosfamide_treatment) / 1000 ` >> [ 1000 + 1499 = 2499 /
1000 = 2 ] NORMAL ROUNDING
00 fe      [ 2] [HEX] ` (treatment_paclitaxel_treatment +
relapse_paclitaxel_treatment) / 10 ` >> [ 1270 + 1270 = 2540 /
10 = 254 ] NORMAL ROUNDING
:          [ 1] personal_follow_up_schema [':' or 1]
4          [ 1] [HEX] follow_up_scheme_type_id
19092024   [ 8] follow_up_start_date
05092024   [ 8] {{ today()->format('dd/mm/yyyy') }}
~~~~~ [ <=200] [DYNAMIC] follow_up_schema

```

Remaing characters for schema:

```
000002bb04bb06b106bo08bb0ab70cb10cbo0fbb12bb15bb18b118bo1cbb20bb24
```

```
b124b724bo2abb30bb36bb3cb73cb13cbo48bb54b760bb6cb778b178bo
```

Follow-up Schema Structure definition

The Schema is divided in events, all taking up 4 characters. So a string like 0CB10FBB12BB18B1 contains 4 events (0CB1 0FBB 12BB 18B1). For the structure of these events, read the next two headings below.

A couple (important) notes about the structure:

- Start is always 0000
- Negative months is not possible (Cannot plan anything before follow_up_start_date)
- Order of events in the string does NOT matter
- So 03BB 05B1 is the same as 05B1 03BB and both are valid sequences (Except for spaces which were added for readability)
- There can be 2 events at the same month count
- This usually is used for 1 Who & 2 What (1 What in first event, and 1 in second)
- The second event will have the same Who as the first but is not shown in the UI
- The length of the follow_up_schema field is dynamic but with a max of 200 chars. (200 / 4 = 50 max events)

Single event structure

Example: "ABCD"

AB = [HEX] Amount of months after 'follow_up_start_date' (Max: FF = 255 (~21 years))

C = [CHAR_MAPPED*] Who according to DB ID

D = [CHAR_MAPPED*] What according to DB ID. OR [Who] repeated if no [What] is given)

*: For [CHAR_MAPPED] see the section "Who/What CHAR MAPPING" below

Follow-up Schema Structure

The schema structure exists of JUST the events and nothing more.

```
EVENT_STRUCTURE{repeated}
```

Decoding events:

Source: [Example 2.1 from Notion](#)

```
000003BB06B106B009BB0CB00CB10FBB12BB18B118B01EBB30BB36BB3CB13CB048
BB54BB60BB6CBB78BB21BB26B126B05ABB
```

Structure:

```
[DATA] [CHAR LENGTH] >> ([DATA] [EXPLANATION]){repeated}
```

```
0000 [4] >> [00] + 0 months & [00] START
03BB [4] >> [03] + 3 months & [B] Oncoloog & [B] -
06B1 [4] >> [06] + 6 months & [B] Oncoloog & [1] CT-scan
06B0 [4] >> [06] + 6 months & [B] Oncoloog & [0] Uitslag ( NOT A
ZERO ⚠)
09BB [4] >> [09] + 9 months & [B] Oncoloog & [B] -
0CB0 [4] >> [0C] + 12 months & [B] Oncoloog & [0] Uitslag
0CB1 [4] >> [0C] + 12 months & [B] Oncoloog & [1] CT-scan
0FBB [4] >> [0F] + 15 months & [B] Oncoloog & [B] -
12BB [4] >> [12] + 18 months & [B] Oncoloog & [B] -
18B1 [4] >> [18] + 24 months & [B] Oncoloog & [1] CT-scan
18B0 [4] >> [18] + 24 months & [B] Oncoloog & [0] Uitslag
1EBB [4] >> [1E] + 30 months & [B] Oncoloog & [B] -
30BB [4] >> [30] + 48 months & [B] Oncoloog & [B] -
36BB [4] >> [36] + 54 months & [B] Oncoloog & [B] -
3CB1 [4] >> [3C] + 60 months & [B] Oncoloog & [1] CT-scan
3CB0 [4] >> [3C] + 60 months & [B] Oncoloog & [0] Uitslag
48BB [4] >> [48] + 72 months & [B] Oncoloog & [B] -
54BB [4] >> [54] + 84 months & [B] Oncoloog & [B] -
60BB [4] >> [60] + 96 months & [B] Oncoloog & [B] -
6CBB [4] >> [6C] +108 months & [B] Oncoloog & [B] -
78BB [4] >> [78] +120 months & [B] Oncoloog & [B] -
21BB [4] >> [21] + 33 months & [B] Oncoloog & [B] -
26B1 [4] >> [26] + 38 months & [B] Oncoloog & [1] CT-scan
26B0 [4] >> [26] + 38 months & [B] Oncoloog & [0] Uitslag
5ABB [4] >> [5A] + 90 months & [B] Oncoloog & [B] -
```

Who/What CHAR MAPPING:

The "Who / What" sections have a custom mapping. See below what this is:

```
0-9 = 0-9
A = 10
B = 11
C = 12
D = 13
E = 14
F = 15
G = 16
H = 17
I = 18
J = 19
K = 20
L = 21
M = 22
N = 23
O = 24
P = 25
Q = 26
R = 27
S = 28
T = 29
U = 30
V = 31
W = 32
X = 33
Y = 34
Z = 35
... (+ More? Docs say max: 43)
```

QR Code Examples

See screenshots of legacy SurvivorCare on Notion: [Link to Notion](#)

Example 1:

```
000401NL1G0012701111402092024303092024103092024421020920240100:::  
:::0:64C8001F010203000000:41909202405092024000002BB04BB06B106B008  
BB0AB70CB10CB00FBB12BB15BB18B118B01CBB20BB24B124B724B02ABB30BB36BB  
3CB73CB13CB048BB54B760BB6CB778B178B0
```

Example 2 (With Relapse):

```
000401NL1G00127920202040920247050320240:::0:::11109  
202414FA781106433C06060D0D:91109202409092024000003BB06B106B009BB0C  
B00CB10FBB12BB15BB18B118B01EBB24B024B12ABB30BB36BB3CB13CB048BB54BB  
60BB6CBB78BB
```

Example 2.1 (With manually changed Schema):

```
000401NL1G00127920202040920247050320240:::0:::11109  
202414FA781106433C06060D0D191109202409092024000003BB06B106B009BB0C  
B00CB10FBB12BB18B118B01EBB30BB36BB3CB13CB048BB54BB60BB6CBB78BB21BB  
26B126B05ABB
```

Example 3 (Test Rounding):

```
↓↓↓↓↓↓↓↓↓↓  
000401NL1G00128010101040920007290420170:::0:::10109  
202217202100150203030302FE:130092024090920240000
```

Example 4 (Testing relapse treatments)

↓

```
000401NL1G00128210101040920007290420170:::::::::0:::::::::1:10109
2022D7202100150203030302FE:130092024090920240000
```

Example 5 (Testing Schema, with manually changed Schema):

```
000401NL1G0012841:::2110920246100920240:::::::::0:::::::::
:::0:::::::::00000000020000:81809202409092024000003E606E609E60CE10C
E00FE612E615E618E018E11EE624E62AEE30EE36EE3CE13CE020MN
```