# UDM 2.3 Frame Structure

V0.1

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
|---|---|---|---|---|---|---|---|---|----|----|----|

| UDM Header | UDM Payload |
|---|---|

| Sta mp | Cnt | Entry ID | Type |
|---|---|---|---|

▲ Retry

| Event | 0 | Event Type |
|---|---|---|

| Battery Low | 0 | Level |
| Battery Ok | 1 | Level |
| Connection Lost | 2 | ID |
| Connection Ok | 3 | ID |
| RSSI Low | 4 | ID |
| RSSI Ok | 5 | ID |
| Temperature Low | 6 | |
| Temperature High | 7 | |
| Temperature Ok | 8 | |
| Boot | 9 | Cause | Custom | Boot Custom Data |
| Switch On | 10 | Port | Bit |
| Switch Off | 11 | Port | Bit |
| Accelerometer Move | 12 | |
| Custom 1 | 128 | Custom Event 1 |
| Custom n | 128 + n | Custom Event n |
| Custom 23 | 150 | Custom Event 23 |

| Data | 1 | DatType | Data Payload |
|---|---|---|---|

| Phone | 0 | Zeros | Index | Phone Number |
| GPS | 1 | Geo Type | Geolocalization Data |
| XYZ SV HDOP | | 0 | Geolocalization Data |
| XY Date | | 1 | Geolocalization Data |
| XY 1m | | 2 | Geolocalization Data |
| XY 20 m | | 3 | Geolocalization Data |
| XY 300 m | | 4 | Geolocalization Data |
| Custom | 2 | Custom Data |
| (PIN) Code | 3 | Zeros | Index | (PIN) Code Number |
| Install | 4 | Zeros | Index | Phone Number | Zeros | Index | (PIN) Code Num |

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
|---|---|---|---|---|---|---|---|---|----|----|----|

**Register**

| 2 | Release | Sub Rel | Software Release (LSB→MSB) | Device Class (LSB→MSB) | SIGFOX ID (LSB→MSB) |
|---|---------|---------|----------------------------|------------------------|---------------------|

**Keepalive 2.2**

| 3 | Voltage | Temperature | Interval |
|---|---------|-------------|----------|

**Keepalive Extended**

| 3 | Keepalive Type | Interval | Keepalive Data |
|---|----------------|----------|----------------|

**Keepalive Type 1**

| 0 | Interval | Voltage | Temperature | Custom Keepalive Data 1 |
|---|----------|---------|-------------|-------------------------|
| 1 | Interval | Voltage | Temperature | GPS Data |

**Keepalive Type 3**

| 2 | GPS Data | Custom Keepalive Data 3 |
|---|----------|-------------------------|

**Keepalive Type 4**

| 3 | Interval | Custom Keepalive Data 4 |
|---|----------|-------------------------|

**Raw**

| 4 | Raw Data |
|---|----------|

**Service**

| 5 | Service Type | Service Data |
|---|--------------|--------------|

**SMS**

| 0 | Service Data |
|---|--------------|

**Tweet**

| 1 | Service Data |
|---|--------------|

**Geolocalization**

| 6 | Geolocalization Data |
|---|----------------------|

**Ping**

| 7 | Release | Sub Rel | Software Release | Device Class | SIGFOX ID |
|---|---------|---------|------------------|--------------|-----------|