

bluetooth-llapi

User Manual



MICROEJ[®]

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Chapter 1. Data Structure Documentation

1.1. LLBLUETOOTH_address_t struct Reference

```
#include <LLBLUETOOTHDefines.h>
```

1.1.1. Data Fields

- uint8_t type
- uint8_t addr[6]

Detailed Description

Address

Definition at line 70 of file LLBLUETOOTHDefines.h

The Documentation for this struct was generated from the following file:

- LLBLUETOOTHDefines.h

1.1.2. Field Documentation

1.2. LLBLUETOOTH_event_gap_advertisement_completed_t struct Reference

```
#include <LLBLUETOOTHDefines.h>
```

1.2.1. Data Fields

- uint8_t event_type

Detailed Description

EVENT_GAP_ADVERTISEMENT_COMPLETED

Definition at line 142 of file LLBLUETOOTHDefines.h

The Documentation for this struct was generated from the following file:

- LLBLUETOOTHDefines.h

1.2.2. Field Documentation

1.3. LLBLUETOOTH_event_gap_connect_failed_t struct Reference

```
#include <LLBLUETOOTHDefines.h>
```

1.3.1. Data Fields

- uint8_t event_type
- LLBLUETOOTH_address_t addr

Detailed Description

EVENT_GAP_CONNECT_FAILED

Definition at line 147 of file LLBLUETOOTHDefines.h

The Documentation for this struct was generated from the following file:

- LLBLUETOOTHDefines.h

1.3.2. Field Documentation

1.4. LLBLUETOOTH_event_gap_connected_t struct Reference

```
#include <LLBLUETOOTHDefines.h>
```

1.4.1. Data Fields

- uint8_t event_type
- LLBLUETOOTH_address_t addr
- uint16_t conn_handle

Detailed Description

EVENT_GAP_CONNECTED

Definition at line 153 of file LLBLUETOOTH_defines.h

The Documentation for this struct was generated from the following file:

- LLBLUETOOTH_defines.h

1.4.2. Field Documentation

1.5. LLBLUETOOTH_event_gap_disconnected_t struct Reference

```
#include <LLBLUETOOTH_defines.h>
```

1.5.1. Data Fields

- uint8_t event_type
- uint8_t _padding
- uint16_t conn_handle

Detailed Description

EVENT_GAP_DISCONNECTED

Definition at line 160 of file LLBLUETOOTH_defines.h

The Documentation for this struct was generated from the following file:

- LLBLUETOOTH_defines.h

1.5.2. Field Documentation

1.6. LLBLUETOOTH_event_gap_pair_completed_t struct Reference

```
#include <LLBLUETOOTH_defines.h>
```

1.6.1. Data Fields

- uint8_t event_type
- uint8_t success

- uint16_t conn_handle

Detailed Description

EVENT_GAP_PAIR_COMPLETED

Definition at line 174 of file LLBLUETOOTHDefines.h

The Documentation for this struct was generated from the following file:

- LLBLUETOOTHDefines.h

1.6.2. Field Documentation

1.7. LLBLUETOOTH_event_gap_pair_request_t struct Reference

```
#include <LLBLUETOOTHDefines.h>
```

1.7.1. Data Fields

- uint8_t event_type
- uint8_t _padding
- uint16_t conn_handle

Detailed Description

EVENT_GAP_PAIR_REQUEST

Definition at line 167 of file LLBLUETOOTHDefines.h

The Documentation for this struct was generated from the following file:

- LLBLUETOOTHDefines.h

1.7.2. Field Documentation

1.8. LLBLUETOOTH_event_gap_passkey_generated_t struct Reference

```
#include <LLBLUETOOTHDefines.h>
```

1.8.1. Data Fields

- uint8_t event_type
- uint8_t _padding
- uint16_t conn_handle
- uint32_t passkey

Detailed Description

EVENT_GAP_PASSKEY_GENERATED

Definition at line 188 of file LLBLUETOOTHDefines.h

The Documentation for this struct was generated from the following file:

- LLBLUETOOTHDefines.h

1.8.2. Field Documentation

1.9. LLBLUETOOTH_event_gap_passkey_request_t struct Reference

```
#include <LLBLUETOOTHDefines.h>
```

1.9.1. Data Fields

- uint8_t event_type
- uint8_t _padding
- uint16_t conn_handle

Detailed Description

EVENT_GAP_PASSKEY_REQUEST

Definition at line 181 of file LLBLUETOOTHDefines.h

The Documentation for this struct was generated from the following file:

- LLBLUETOOTHDefines.h

1.9.2. Field Documentation

1.10. LLBLUETOOTH_event_gap_scan_completed_t struct Reference

```
#include <LLBLUETOOTH_defines.h>
```

1.10.1. Data Fields

- uint8_t event_type

Detailed Description

EVENT_GAP_SCAN_COMPLETED

Definition at line 137 of file LLBLUETOOTH_defines.h

The Documentation for this struct was generated from the following file:

- LLBLUETOOTH_defines.h

1.10.2. Field Documentation

1.11. LLBLUETOOTH_event_gap_scan_result_t struct Reference

```
#include <LLBLUETOOTH_defines.h>
```

1.11.1. Data Fields

- uint8_t event_type
- LLBLUETOOTH_address_t addr
- uint8_t rssi
- uint8_t adv_data_size

Detailed Description

EVENT_GAP_SCAN_RESULT

Definition at line 128 of file LLBLUETOOTH_defines.h

The Documentation for this struct was generated from the following file:

- LLBLUETOOTH_defines.h

1.11.2. Field Documentation

1.12. LLBLUETOOTH_event_gattc_discovery_completed_t struct Reference

```
#include <LLBLUETOOTH_defines.h>
```

1.12.1. Data Fields

- uint8_t event_type
- uint8_t _padding
- uint16_t conn_handle

Detailed Description

EVENT_GATT_DISCOVERY_COMPLETED

Definition at line 206 of file LLBLUETOOTH_defines.h

The Documentation for this struct was generated from the following file:

- LLBLUETOOTH_defines.h

1.12.2. Field Documentation

1.13. LLBLUETOOTH_event_gattc_discovery_result_t struct Reference

```
#include <LLBLUETOOTH_defines.h>
```

1.13.1. Data Fields

- uint8_t event_type

- uint8_t num_attributes
- uint16_t conn_handle
- uint16_t service_handle
- LLBLUETOOTH_uuid_t service_uuid

Detailed Description

EVENT_GATT_DISCOVERY_RESULT

Definition at line 196 of file LLBLUETOOTHDefines.h

The Documentation for this struct was generated from the following file:

- LLBLUETOOTHDefines.h

1.13.2. Field Documentation

1.14. LLBLUETOOTH_event_gattc_notification_received_t struct Reference

```
#include <LLBLUETOOTHDefines.h>
```

1.14.1. Data Fields

- uint8_t event_type
- uint8_t _padding
- uint16_t conn_handle
- uint16_t attr_handle
- uint16_t value_size

Detailed Description

EVENT_GATT_NOTIFICATION_RECEIVED

Definition at line 231 of file LLBLUETOOTHDefines.h

The Documentation for this struct was generated from the following file:

- LLBLUETOOTHDefines.h

1.14.2. Field Documentation

1.15. LLBLUETOOTH_event_gattc_read_completed_t struct Reference

```
#include <LLBLUETOOTHDefines.h>
```

1.15.1. Data Fields

- uint8_t event_type
- uint8_t status
- uint16_t conn_handle
- uint16_t attr_handle
- uint16_t value_size

Detailed Description

EVENT_GATTCTREADCOMPLETED

Definition at line 213 of file LLBLUETOOTHDefines.h

The Documentation for this struct was generated from the following file:

- LLBLUETOOTHDefines.h

1.15.2. Field Documentation

1.16. LLBLUETOOTH_event_gattc_write_completed_t struct Reference

```
#include <LLBLUETOOTHDefines.h>
```

1.16.1. Data Fields

- uint8_t event_type

- uint8_t status
- uint16_t conn_handle
- uint16_t attr_handle

Detailed Description

EVENT_GATT_WRITE_COMPLETED

Definition at line 223 of file LLBLUETOOTHDefines.h

The Documentation for this struct was generated from the following file:

- LLBLUETOOTHDefines.h

1.16.2. Field Documentation

1.17. LLBLUETOOTH_event_gatts_notification_sent_t struct Reference

```
#include <LLBLUETOOTHDefines.h>
```

1.17.1. Data Fields

- uint8_t event_type
- uint8_t success
- uint16_t conn_handle
- uint16_t attr_handle

Detailed Description

EVENT_GATT_NOTIFICATION_SENT

Definition at line 259 of file LLBLUETOOTHDefines.h

The Documentation for this struct was generated from the following file:

- LLBLUETOOTHDefines.h

1.17.2. Field Documentation

1.18. LLBLUETOOTH_event_gatts_read_request_t struct Reference

```
#include <LLBLUETOOTH_defines.h>
```

1.18.1. Data Fields

- uint8_t event_type
- uint8_t _padding
- uint16_t conn_handle
- uint16_t attr_handle

Detailed Description

EVENT_GATTS_READ_REQUEST

Definition at line 241 of file LLBLUETOOTH_defines.h

The Documentation for this struct was generated from the following file:

- LLBLUETOOTH_defines.h

1.18.2. Field Documentation

1.19. LLBLUETOOTH_event_gatts_write_request_t struct Reference

```
#include <LLBLUETOOTH_defines.h>
```

1.19.1. Data Fields

- uint8_t event_type
- uint8_t _padding
- uint16_t conn_handle

- uint16_t attr_handle
- uint16_t value_size

Detailed Description

EVENT_GATTS_WRITE_REQUEST

Definition at line 249 of file LLBLUETOOTHDefines.h

The Documentation for this struct was generated from the following file:

- LLBLUETOOTHDefines.h

1.19.2. Field Documentation

1.20. LLBLUETOOTH_event_t struct Reference

```
#include <LLBLUETOOTHDefines.h>
```

1.20.1. Data Fields

- uint8_t event_type

Detailed Description

Generic event - can be casted to one of the event structures depending on event type

Definition at line 123 of file LLBLUETOOTHDefines.h

The Documentation for this struct was generated from the following file:

- LLBLUETOOTHDefines.h

1.20.2. Field Documentation

1.21. LLBLUETOOTH_gattc_attribute_t struct Reference

```
#include <LLBLUETOOTHDefines.h>
```

1.21.1. Data Structures

1.21.2. Data Fields

- uint8_t type
- uint8_t _padding
- LLBLUETOOTH_uuid_t uuid
- uint16_t value_handle
- uint8_t properties
- struct LLBLUETOOTH_gattc_attribute_t::@4::@6 characteristic
- uint16_t handle
- struct LLBLUETOOTH_gattc_attribute_t::@4::@7 descriptor
- union LLBLUETOOTH_gattc_attribute_t::@4 @5

Detailed Description

Client attribute

Definition at line 106 of file LLBLUETOOTHDefines.h

The Documentation for this struct was generated from the following file:

- LLBLUETOOTHDefines.h

1.21.3. Field Documentation

1.22. LLBLUETOOTH_gatts_attribute_t struct Reference

```
#include <LLBLUETOOTHDefines.h>
```

1.22.1. Data Structures

1.22.2. Data Fields

- uint8_t type

- uint8_t _padding
- LLBLUETOOTH_uuid_t uuid
- uint8_t permissions
- uint8_t properties
- struct LLBLUETOOTH_gatts_attribute_t::@0::@2 characteristic
- struct LLBLUETOOTH_gatts_attribute_t::@0::@3 descriptor
- union LLBLUETOOTH_gatts_attribute_t::@0 @1

Detailed Description

Server attribute

Definition at line 81 of file LLBLUETOOTHDefines.h

The Documentation for this struct was generated from the following file:

- LLBLUETOOTHDefines.h

1.22.3. Field Documentation

1.23. LLBLUETOOTH_gatts_service_t struct Reference

```
#include <LLBLUETOOTHDefines.h>
```

1.23.1. Data Fields

- LLBLUETOOTH_uuid_t uuid
- uint8_t num_characteristics
- uint8_t num_descriptors

Detailed Description

Server service

Definition at line 98 of file LLBLUETOOTHDefines.h

The Documentation for this struct was generated from the following file:

- LLBLUETOOTHDefines.h

1.23.2. Field Documentation

1.24. LLBLUETOOTH_uuid_t struct Reference

```
#include <LLBLUETOOTHDefines.h>
```

1.24.1. Data Fields

- uint8_t uuid[16]

Detailed Description

UUID

Definition at line 76 of file LLBLUETOOTHDefines.h

The Documentation for this struct was generated from the following file:

- LLBLUETOOTHDefines.h

1.24.2. Field Documentation

Chapter 2. File Documentation

2.1. LLBLUETOOTH_defines.h File Reference

```
#include <stdint.h>
```

2.1.1. Data Structures

- struct LLBLUETOOTH_address_t
- struct LLBLUETOOTH_uuid_t
- struct LLBLUETOOTH_gatts_attribute_t
- struct LLBLUETOOTH_gatts_service_t
- struct LLBLUETOOTH_gattc_attribute_t
- struct LLBLUETOOTH_event_t
- struct LLBLUETOOTH_event_gap_scan_result_t
- struct LLBLUETOOTH_event_gap_scan_completed_t
- struct LLBLUETOOTH_event_gap_advertisement_completed_t
- struct LLBLUETOOTH_event_gap_connect_failed_t
- struct LLBLUETOOTH_event_gap_connected_t
- struct LLBLUETOOTH_event_gap_disconnected_t
- struct LLBLUETOOTH_event_gap_pair_request_t
- struct LLBLUETOOTH_event_gap_pair_completed_t
- struct LLBLUETOOTH_event_gap_passkey_request_t
- struct LLBLUETOOTH_event_gap_passkey_generated_t
- struct LLBLUETOOTH_event_gattc_discovery_result_t
- struct LLBLUETOOTH_event_gattc_discovery_completed_t
- struct LLBLUETOOTH_event_gattc_read_completed_t
- struct LLBLUETOOTH_event_gattc_write_completed_t
- struct LLBLUETOOTH_event_gattc_notification_received_t

- struct LLBLUETOOTH_event_gatts_read_request_t
- struct LLBLUETOOTH_event_gatts_write_request_t
- struct LLBLUETOOTH_event_gatts_notification_sent_t

2.1.2. Macros

- #define ATTRIBUTE_TYPE_CHARACTERISTIC (0)
- #define ATTRIBUTE_TYPE_DESCRIPTOR (1)
- #define ATTRIBUTE_PERMISSION_NONE (0x00)
- #define ATTRIBUTE_PERMISSION_READ (0x01)
- #define ATTRIBUTE_PERMISSION_READ_ENCRYPT (0x02)
- #define ATTRIBUTE_PERMISSION_READ_AUTH (0x04)
- #define ATTRIBUTE_PERMISSION_WRITE (0x08)
- #define ATTRIBUTE_PERMISSION_WRITE_ENCRYPT (0x10)
- #define ATTRIBUTE_PERMISSION_WRITE_AUTH (0x20)
- #define ADDRESS_TYPE_PUBLIC (0)
- #define ADDRESS_TYPE_PRIVATE (1)
- #define SCAN_FILTER_ACTION_NONE (0)
- #define SCAN_FILTER_ACTION_FIELD_EXISTS (1)
- #define SCAN_FILTER_ACTION_FIELD_EQUALS (2)
- #define SCAN_FILTER_ACTION_FIELD_STARTS_WITH (3)
- #define EVENT_GAP_SCAN_RESULT (1)
- #define EVENT_GAP_SCAN_COMPLETED (2)
- #define EVENT_GAP_ADVERTISEMENT_COMPLETED (3)
- #define EVENT_GAP_CONNECT_FAILED (4)
- #define EVENT_GAP_CONNECTED (5)
- #define EVENT_GAP_DISCONNECTED (6)
- #define EVENT_GAP_PAIR_REQUEST (7)
- #define EVENT_GAP_PAIR_COMPLETED (8)
- #define EVENT_GAP_PASSKEY_REQUEST (9)

- #define EVENT_GAP_PASSKEY_GENERATED (10)
- #define EVENT_GATTC_DISCOVERY_RESULT (11)
- #define EVENT_GATTC_DISCOVERY_COMPLETED (12)
- #define EVENT_GATTC_READ_COMPLETED (13)
- #define EVENT_GATTC_WRITE_COMPLETED (14)
- #define EVENT_GATTC_NOTIFICATION_RECEIVED (15)
- #define EVENT_GATTS_READ_REQUEST (16)
- #define EVENT_GATTS_WRITE_REQUEST (17)
- #define EVENT_GATTS_NOTIFICATION_SENT (18)

Detailed Description

MicroEJ BLUETOOTH low level API.

Author: . MicroEJ Developer Team

Version: . 2.0.1

Date: . 17 November 2020

Definition in file /home/is2t/workspace/M0132_Bluetooth-LLAPI/bluetooth-llapi/target~/ccomponentWorking/bsp/bluetooth/inc/LLBLUETOOTH_defines.h

2.2. LLBLUETOOTH_impl.h File Reference

```
#include <stdint.h>
```

```
#include <intern/LLBLUETOOTH_impl.h>
```

```
#include <LLBLUETOOTH_defines.h>
```

2.2.1. Functions

- uint8_t LLBLUETOOTH_IMPL_enable (void)
- void LLBLUETOOTH_IMPL_disable (void)
- uint32_t LLBLUETOOTH_IMPL_waitEvent (LLBLUETOOTH_event_t * event, uint32_t max_event_size)

- `uint8_t LLBLUETOOTH_IMPL_startScanning (uint8_t filter_action, uint8_t filter_type, const uint8_t * filter_data, uint32_t filter_data_size)`
- `uint8_t LLBLUETOOTH_IMPL_stopScanning (void)`
- `uint8_t LLBLUETOOTH_IMPL_startAdvertising (const uint8_t * adv_data, uint32_t adv_data_size)`
- `uint8_t LLBLUETOOTH_IMPL_stopAdvertising (void)`
- `uint8_t LLBLUETOOTH_IMPL_connect (const LLBLUETOOTH_address_t * addr)`
- `uint8_t LLBLUETOOTH_IMPL_disconnect (uint16_t conn_handle)`
- `uint8_t LLBLUETOOTH_IMPL_sendPairRequest (uint16_t conn_handle)`
- `uint8_t LLBLUETOOTH_IMPL_sendPairResponse (uint16_t conn_handle, uint8_t accept)`
- `uint8_t LLBLUETOOTH_IMPL_sendPasskeyResponse (uint16_t conn_handle, uint8_t accept, uint32_t passkey)`
- `uint8_t LLBLUETOOTH_IMPL_discoverServices (uint16_t conn_handle, const LLBLUETOOTH_uuid_t * uuid)`
- `uint8_t LLBLUETOOTH_IMPL_addService (const LLBLUETOOTH_gatts_service_t * service, uint16_t * handles)`
- `uint8_t LLBLUETOOTH_IMPL_sendReadRequest (uint16_t conn_handle, uint16_t attr_handle)`
- `uint8_t LLBLUETOOTH_IMPL_sendWriteRequest (uint16_t conn_handle, uint16_t attr_handle, const uint8_t * value, uint32_t value_size, uint8_t no_response)`
- `uint8_t LLBLUETOOTH_IMPL_sendReadResponse (uint16_t conn_handle, uint16_t attr_handle, uint8_t status, const uint8_t * value, uint32_t value_size)`
- `uint8_t LLBLUETOOTH_IMPL_sendWriteResponse (uint16_t conn_handle, uint16_t attr_handle, uint8_t status)`
- `uint8_t LLBLUETOOTH_IMPL_sendNotification (uint16_t conn_handle, uint16_t attr_handle, const uint8_t * value, uint32_t value_size, uint8_t confirm)`

Detailed Description

MicroEJ BLUETOOTH low level API.

Author: . MicroEJ Developer Team

Version: . 2.0.1

Date: . 17 November 2020

Definition in file /home/is2t/workspace/M0132_Bluetooth-LLAPI/bluetooth-llapi/target~/ccomponentWorking/bsp/bluetooth/inc/LLBLUETOOTH_impl.h