

bluetooth-llapi

User Manual



MICROEJ[®]

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Revision:	XXX

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Table of Contents

1. Data Structure Documentation	1
1.1. LLBLUETOOTH_address_t struct Reference	1
1.1.1. Data Fields	1
1.1.2. Field Documentation	1
1.2. LLBLUETOOTH_event_gap_advertisement_completed_t struct Reference	1
1.2.1. Data Fields	1
1.2.2. Field Documentation	2
1.3. LLBLUETOOTH_event_gap_connect_failed_t struct Reference	2
1.3.1. Data Fields	2
1.3.2. Field Documentation	2
1.4. LLBLUETOOTH_event_gap_connected_t struct Reference	2
1.4.1. Data Fields	2
1.4.2. Field Documentation	3
1.5. LLBLUETOOTH_event_gap_disconnected_t struct Reference	3
1.5.1. Data Fields	3
1.5.2. Field Documentation	3
1.6. LLBLUETOOTH_event_gap_pair_completed_t struct Reference	3
1.6.1. Data Fields	3
1.6.2. Field Documentation	4
1.7. LLBLUETOOTH_event_gap_pair_request_t struct Reference	4
1.7.1. Data Fields	4
1.7.2. Field Documentation	4
1.8. LLBLUETOOTH_event_gap_passkey_generated_t struct Reference	4
1.8.1. Data Fields	5
1.8.2. Field Documentation	5
1.9. LLBLUETOOTH_event_gap_passkey_request_t struct Reference	5
1.9.1. Data Fields	5
1.9.2. Field Documentation	6
1.10. LLBLUETOOTH_event_gap_scan_completed_t struct Reference	6
1.10.1. Data Fields	6
1.10.2. Field Documentation	6
1.11. LLBLUETOOTH_event_gap_scan_result_t struct Reference	6
1.11.1. Data Fields	6
1.11.2. Field Documentation	7
1.12. LLBLUETOOTH_event_gattc_discovery_completed_t struct Reference	7
1.12.1. Data Fields	7
1.12.2. Field Documentation	7
1.13. LLBLUETOOTH_event_gattc_discovery_result_t struct Reference	7
1.13.1. Data Fields	7
1.13.2. Field Documentation	8
1.14. LLBLUETOOTH_event_gattc_notification_received_t struct Reference	8
1.14.1. Data Fields	8
1.14.2. Field Documentation	9
1.15. LLBLUETOOTH_event_gattc_read_completed_t struct Reference	9

1.15.1. Data Fields	9
1.15.2. Field Documentation	9
1.16. LLBLUETOOTH_event_gattc_write_completed_t struct Reference	9
1.16.1. Data Fields	9
1.16.2. Field Documentation	10
1.17. LLBLUETOOTH_event_gatts_notification_sent_t struct Reference	10
1.17.1. Data Fields	10
1.17.2. Field Documentation	11
1.18. LLBLUETOOTH_event_gatts_read_request_t struct Reference	11
1.18.1. Data Fields	11
1.18.2. Field Documentation	11
1.19. LLBLUETOOTH_event_gatts_write_request_t struct Reference	11
1.19.1. Data Fields	11
1.19.2. Field Documentation	12
1.20. LLBLUETOOTH_event_t struct Reference	12
1.20.1. Data Fields	12
1.20.2. Field Documentation	12
1.21. LLBLUETOOTH_gattc_attribute_t struct Reference	12
1.21.1. Data Structures	13
1.21.2. Data Fields	13
1.21.3. Field Documentation	13
1.22. LLBLUETOOTH_gatts_attribute_t struct Reference	13
1.22.1. Data Structures	13
1.22.2. Data Fields	13
1.22.3. Field Documentation	14
1.23. LLBLUETOOTH_gatts_service_t struct Reference	14
1.23.1. Data Fields	14
1.23.2. Field Documentation	15
1.24. LLBLUETOOTH_uuid_t struct Reference	15
1.24.1. Data Fields	15
1.24.2. Field Documentation	15
2. File Documentation	16
2.1. LLBLUETOOTH_defines.h File Reference	16
2.1.1. Data Structures	16
2.1.2. Macros	17
2.2. LLBLUETOOTH_impl.h File Reference	18
2.2.1. Functions	18

Chapter 1. Data Structure Documentation

1.1. LLBLUETOOTH_address_t struct Reference

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

1.1.1. Data Fields

- uint8_t type
- uint8_t addr[6]

Detailed Description

Address

Definition at line 70 of file LLBLUETOOTH_defines.h

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

- LLBLUETOOTH_defines.h

1.1.2. Field Documentation

1.2. LLBLUETOOTH_event_gap_advertisement_completed_t struct Reference

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

1.2.1. Data Fields

- uint8_t event_type

Detailed Description

EVENT_GAP_ADVERTISEMENT_COMPLETED

Definition at line 142 of file LLBLUETOOTH_defines.h

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

- LLBLUETOOTH_defines.h

1.2.2. Field Documentation

1.3. LLBLUETOOTH_event_gap_connect_failed_t struct Reference

```
#include <LLBLUETOOTH_defines.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 LLBLUETOOTH_defines.h

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

- LLBLUETOOTH_defines.h

1.3.2. Field Documentation

1.4. LLBLUETOOTH_event_gap_connected_t struct Reference

```
#include <LLBLUETOOTH_defines.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 LLBLUETOOTH_defines.h

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

- LLBLUETOOTH_defines.h

1.6.2. Field Documentation

1.7. LLBLUETOOTH_event_gap_pair_request_t struct Reference

```
#include <LLBLUETOOTH_defines.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 LLBLUETOOTH_defines.h

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

- LLBLUETOOTH_defines.h

1.7.2. Field Documentation

1.8. LLBLUETOOTH_event_gap_passkey_generated_t struct Reference

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


1.8.1. Data Fields

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

Detailed Description

EVENT_GAP_PASKEY_GENERATED

Definition at line 188 of file LLBLUETOOTH_defines.h

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

- LLBLUETOOTH_defines.h

1.8.2. Field Documentation

1.9. LLBLUETOOTH_event_gap_passkey_request_t struct Reference

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

1.9.1. Data Fields

- uint8_t event_type
- uint8_t _padding
- uint16_t conn_handle

Detailed Description

EVENT_GAP_PASKEY_REQUEST

Definition at line 181 of file LLBLUETOOTH_defines.h

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

- LLBLUETOOTH_defines.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_GATTC_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_GATTC_DISCOVERY_RESULT

Definition at line 196 of file LLBLUETOOTH_defines.h

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

- LLBLUETOOTH_defines.h

1.13.2. Field Documentation

1.14. LLBLUETOOTH_event_gattc_notification_received_t struct Reference

```
#include <LLBLUETOOTH_defines.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_GATTC_NOTIFICATION_RECEIVED

Definition at line 231 of file LLBLUETOOTH_defines.h

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

- LLBLUETOOTH_defines.h

1.14.2. Field Documentation

1.15. LLBLUETOOTH_event_gattc_read_completed_t struct Reference

```
#include <LLBLUETOOTH_defines.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_GATTC_READ_COMPLETED

Definition at line 213 of file LLBLUETOOTH_defines.h

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

- LLBLUETOOTH_defines.h

1.15.2. Field Documentation

1.16. LLBLUETOOTH_event_gattc_write_completed_t struct Reference

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

1.16.1. Data Fields

- uint8_t event_type

- uint8_t status
- uint16_t conn_handle
- uint16_t attr_handle

Detailed Description

EVENT_GATTC_WRITE_COMPLETED

Definition at line 223 of file LLBLUETOOTH_defines.h

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

- LLBLUETOOTH_defines.h

1.16.2. Field Documentation

1.17. LLBLUETOOTH_event_gatts_notification_sent_t struct Reference

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

1.17.1. Data Fields

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

Detailed Description

EVENT_GATTS_NOTIFICATION_SENT

Definition at line 259 of file LLBLUETOOTH_defines.h

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

- LLBLUETOOTH_defines.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 LLBLUETOOTH_defines.h

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

- LLBLUETOOTH_defines.h

1.19.2. Field Documentation

1.20. LLBLUETOOTH_event_t struct Reference

```
#include <LLBLUETOOTH_defines.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 LLBLUETOOTH_defines.h

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

- LLBLUETOOTH_defines.h

1.20.2. Field Documentation

1.21. LLBLUETOOTH_gattc_attribute_t struct Reference

```
#include <LLBLUETOOTH_defines.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 LLBLUETOOTH_defines.h

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

- LLBLUETOOTH_defines.h

1.21.3. Field Documentation

1.22. LLBLUETOOTH_gatts_attribute_t struct Reference

```
#include <LLBLUETOOTH_defines.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 LLBLUETOOTH_defines.h

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

- LLBLUETOOTH_defines.h

1.22.3. Field Documentation

1.23. LLBLUETOOTH_gatts_service_t struct Reference

```
#include <LLBLUETOOTH_defines.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 LLBLUETOOTH_defines.h

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

- LLBLUETOOTH_defines.h

1.23.2. Field Documentation

1.24. LLBLUETOOTH_uuid_t struct Reference

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

1.24.1. Data Fields

- uint8_t uuid[16]

Detailed Description

UUID

Definition at line 76 of file LLBLUETOOTH_defines.h

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

- LLBLUETOOTH_defines.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: . 2.0.2

Date: . 8 July 2021

Definition in file C:/jenkins/workspace/M0132_Bluetooth-LLAPI/bluetooth-llapi/target~/ccomponent-Working/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: . 2.0.2

Date: . 8 July 2021

Definition in file C:/jenkins/workspace/M0132_Bluetooth-LLAPI/bluetooth-llapi/target~/ccomponent-Working/bsp/bluetooth/inc/LLBLUETOOTH_impl.h