Event Handler Event	Event Handler Link	Used in Client/Server/Both	Command Sent from Event Handler	Command Link	Command Arguments	Command Argument Source	Display Connection State Update	Your Global GATT State In Event Handler	Command Normal Result Event(s)	Command Failure Result Event	Command Data Event	Your Global GATT State After Command Send	Event Handler Overview
evt_system_boot	https://docs.silabs.com	Server	See Advertising Commands	See Advertising Commands	See Advertising Commands	See Advertising Commands	"Advertising"	CONNECTION_ADVERTISING	See Advertising Commands	See Advertising Commands	See Advertising Commands	CONNECTION_ADVERTISING	See Advertising Commands
evt_system_boot	https://docs.silabs.com	Client	See Discovery Commands	See Discovery Commands	See Discovery Commands	See Discovery Commands	"Discovering"	CONNECTION_DISCOVERING	See Discovery Commands	See Discovery Commands	See Discovery Commands	CONNECTION_DISCOVERING	See Discovery Commands
evt_le_gap_scan_response	https://docs.silabs.com	Client	cmd_le_gap_connect	https://docs.silabs.com/bluetooth/latest/le-gap#cmd_le_ga	fixed address, address_type le_gap_address_type_public_identity, initiating phy le_gap_phy_1m	address and type from evt_le_gap_scan_response. le_gap_phy_1m from const value	N/A	N/A	evt_le_connection_opened, evt_le_connection_parameters	N/A	N/A	CONNECTION_ESTABLISHED	Verify if hard-coded Server BT address has been found; if true, stop scanning and connect to that device
evt_le_connection_opened	https://docs.silabs.com	Both	cmd_le_connection_set_parameters	https://docs.silabs.com/bluetooth/latest/le-connection#cmd	min, max interval, latency, timeout	const values based on Assignment 5	"Connected"	CONNECTION_ESTABLISHED	evt_le_connection_parameters	N/A	N/A	CONNECTION_ESTABLISHED	Sets connection parameters of a connection
evt_le_connection_opened	https://docs.silabs.com	Client	cmd_gatt_discover_primary_services_by_uuid	https://docs.silabs.com/bluetooth/latest/gatt#cmd_gatt_dis	Connection, uuid_len, uuid_data	connection, uuid length (2 bytes) as #define, and uuid from .isc file as #define	"Discov Services"	DISCOVER_SERVICES	evt_gatt_service, evt_gatt_procedure_completed	See Discovery Commands	See Discovery Commands	DISCOVER_SERVICES	Discover Service based on UUID of Health Thermometer
evt_gatt_service_id	https://docs.silabs.com	Client	cmd_gatt_discover_characteristics_by_uuid	https://docs.silabs.com/bluetooth/latest/gatt#cmd_gatt_dis	Connection, Service, uuid_len, uuid_data	Connection Handle from event, service UUID from as #define, uuid_len as #define, pointer to uuid_data to read value received in the event response	"Discov Services"	DISCOVER_SERVICES	evt_gatt_characteristic, evt_gatt_procedure_completed	See Discovery Commands	See Discovery Commands	DISCOVER_SERVICES	Capture and set variable for GATT Server Handle received
evt_gatt_characteristic_id	https://docs.silabs.com	Client	cmd_gatt_set_characteristic_notification	https://docs.silabs.com/bluetooth/latest/gatt#cmd_gatt_set	Connection, characteristic, flags	Connection Handle from event, characteristic returned from uuid_data from cmd_gatt_discover_characteristics_by_uuid, flags set to 2 for gatt_indication	"Discov Chars" or "Handling Indications"	DISCOVER_SERVICES	evt_gatt_procedure_completed, evt_gatt_characteristic_value	gatt_procedure_completed failed with error	N/A	DISCOVER_SERVICES	Capture and set variable for GATT Characteristic Handle received
evt_gatt_procedure_completed	https://docs.silabs.com	Client	cmd_gatt_read_characteristic_value_by_uuid	https://docs.silabs.com/bluetooth/latest/gatt#cmd_gatt_rea	Connection, Service, uuid_len, uuid_data	Connection Handle from event, service UUID from as #define, uuid_len as #define, pointer to uuid_data to read value received in the event response	"Discov Chars" or "Handling Indications"	DISCOVER_CHARACTERISTICS or HANDLE_INDICATIONS	evt_gatt_procedure_completed, evt_gatt_characteristic_value	gatt_procedure_completed failed with error	DISCOVER_CHARACTERISTICS or HANDLE_INDICATIONS		Based on which procedure was completed, either: (1) Discover Services based on HealthThermo UUID (2) Set characteristic notification
evt_gatt_characteristic_value	https://docs.silabs.com	Client	cmd_gatt_send_characteristic_confirmation	https://docs.silabs.com/bluetooth/latest/gatt#cmd_gatt_sec	Connection	Connection Handle returned from the evt	"Handling Indications"	HANDLE_INDICATIONS		gatt_procedure_completed failed with error	N/A	HANDLE_INDICATIONS	Read and set temperature value to variable to be displayed next time LCD is updated (1Hz)
evt_le_connection_closed	https://docs.silabs.com	Server	See Advertising Commands	See Advertising Commands	See Advertising Commands	See Advertising Commands	"Connection Lost"	CONNECTION_LOST	See Advertising Commands	See Advertising Commands	See Advertising Commands	See Advertising Commands	See Advertising Commands
evt_le_connection_closed	https://docs.silabs.com	Client	See Discovery Commands	See Discovery Commands	See Discovery Commands	See Discovery Commands	"Discovering"	CONNECTION_DISCOVERING	See Discovery Commands	See Discovery Commands	See Discovery Commands	N/A	See Discovery Commands
evt_le_gap_adv_timeout	https://docs.silabs.com	Server	See Advertising Commands	See Advertising Commands	See Advertising Commands	See Advertising Commands	"Advertising Timeout"	CONNECTION_ADV_TIMEOUT	See Advertising Commands	See Advertising Commands	See Advertising Commands	N/A	See Advertising Commands

Advertising Commands

Event Handler Event	Event Handler Link	Used in Client/Server/Both	Command Sent from Event Handler	Command Link	Command Arguments	Command Argument Source	Display Connection State Update	Your Global GATT State In Event Handler	Command Normal Result Event(s)	Command Failure Result Event	Command Data Event	Your Global GATT State After Command Send	Event Handler Overview
multiple (see above)	multiple (see above)	Server	cmd_le_gap_set_advertise_timing	https://docs.silabs.com/bluetooth/latest/le-gap#cmd_le_ga	0 for no duration limit or maxevents, min and max advertising intervals, 0 for handle	const values		N/A	N/A	N/A	N/A	N/A	Sets timing and duration for advertisements
multiple (see above)	multiple (see above)	Server	cmd_le_gap_start_advertising	https://docs.silabs.com/bluetooth/latest/le-gap#cmd_le_ga	Discoverable mode le_gap_general_discoverable to use general discovery procedure, 0 for handle	const values	"Advertising"	CONNECTION_ADVERTISING	evt_le_connection_opened	evt_le_gap_advertising_timeout	N/A	N/A	Start advertising

Discovery Commands

Event Handler Event	Event Handler Link	Used in Client/Server/Both	Command Sent from Event Handler	Command Link	Command Arguments	Command Argument Source	Display Connection State Update	Your Global GATT State In Event Handler	Command Normal Result Event(s)	Command Failure Result Event	Command Data Event	Your Global GATT State After Command Send	Event Handler Overview
multiple (see above)	multiple (see above)	Client	cmd_le_gap_start_discovery	https://docs.silabs.com/bluetooth/latest/le-gap#cmd_le_ga	le_1m phy for 1m phy, le_gap_general_discoverable for general discovery	const values	"Discovering"	CONNECTION_DISCOVERING	evt_le_gap_scan_response	N/A	N/A	N/A	Starts discovery on the client

Resources / References

https://docs.silabs.com/bluetooth/2.9/le-connection