# Table of Contents

# Return Code

The meaning of the return codes is shown below. To search your return code, press <Ctrl+F>.

| Code | Description |
|------|-------------|
| BS_SDK_SUCCESS | Success. |
| BS_SDK_DURESS_SUCCESS | Authenticated as duress fingerprint. |
| BS_SDK_FIRST_AUTH_SUCCESS | First user has been authenticated. |
| BS_SDK_SECOND_AUTH_SUCCESS | Second user has been authenticated. |
| BS_SDK_DUAL_AUTH_SUCCESS | Success on dual authentication. |
| BS_SDK_ERROR_CANNOT_OPEN_SOCKET | Cannot create a socket. |
| BS_SDK_ERROR_CANNOT_CONNECT_SOCKET | Cannot connect to socket. |
| BS_SDK_ERROR_CANNOT_LISTEN_SOCKET | Cannot set socket to listen for connections. |
| BS_SDK_ERROR_CANNOT_ACCEPT_SOCKET | Cannot accept socket. |
| BS_SDK_ERROR_CANNOT_READ_SOCKET | Cannot read from socket. |
| BS_SDK_ERROR_CANNOT_WRITE_SOCKET | Cannot write on socket. |
| BS_SDK_ERROR_SOCKET_IS_NOT_CONNECTED | Not connected to socket. |
| BS_SDK_ERROR_SOCKET_IS_NOT_OPEN | Cannot use socket. |
| BS_SDK_ERROR_SOCKET_IS_NOT_LISTENED | Socket not set to listen. |
| BS_SDK_ERROR_SOCKET_IN_PROGRESS | Already in progress. |
| BS_SDK_ERROR_INVALID_PARAM | Invalid parameter. |
| BS_SDK_ERROR_INVALID_PACKET | Invalid packet. |
| BS_SDK_ERROR_INVALID_DEVICE_ID | Invalid device ID. |
| BS_SDK_ERROR_INVALID_DEVICE_TYPE | Invalid device type. |
| BS_SDK_ERROR_PACKET_CHECKSUM | Packet data's checksum is not correct. |
| BS_SDK_ERROR_PACKET_INDEX | Packet data may be lost. |
| BS_SDK_ERROR_PACKET_COMMAND | Invalid command. |
| BS_SDK_ERROR_PACKET_SEQUENCE | Packet sequence error due to unstable network connection. |
| BS_SDK_ERROR_NO_PACKET | Invalid packet. |
| BS_SDK_ERROR_EXTRACTION_FAIL | Cannot extract template data. |
| BS_SDK_ERROR_VERIFY_FAIL | Failed on 1:1 verification. |
| BS_SDK_ERROR_IDENTIFY_FAIL | Failed on 1:N identification. |
| BS_SDK_ERROR_IDENTIFY_TIMEOUT | Identification timeout. |
| BS_SDK_ERROR_FINGERPRINT_CAPTURE_FAIL | Cannot capture the fingerprint image. |
| BS_SDK_ERROR_FINGERPRINT_SCAN_TIMEOUT | Fingerprint scan timeout. |
| BS_SDK_ERROR_FINGERPRINT_SCAN_CANCELLED | Fingerprint can canceled. |
| BS_SDK_ERROR_NOT_SAME_FINGERPRINT | Not identical fingerprints. |
| BS_SDK_ERROR_EXTRACTION_LOW_QUALITY | Need more information of fingerprint minutiae. |
| BS_SDK_ERROR_CAPTURE_LOW_QUALITY | Low quality of captured fingerprint image. |
| BS_SDK_ERROR_CANNOT_FIND_FINGERPRINT | Fingerprint not registered. |
| ⬜BS_SDK_ERROR_FAKE_FINGER_DETECTED | Fake finger detected. |
| BS_SDK_ERROR_CANNOT_OPEN_DIR | Cannot open directory. |

| Code | Description |
|------|-------------|
| BS_SDK_ERROR_CANNOT_OPEN_FILE | Cannot open file. |
| BS_SDK_ERROR_CANNOT_WRITE_FILE | Cannot write on file. |
| BS_SDK_ERROR_CANNOT_SEEK_FILE | Cannot seek file. |
| BS_SDK_ERROR_CANNOT_READ_FILE | Cannot read file. |
| BS_SDK_ERROR_CANNOT_GET_STAT | Cannot get file status. |
| BS_SDK_ERROR_CANNOT_GET_SYSINFO | Cannot get system information. |
| BS_SDK_ERROR_DATA_MISMATCH | Failed on data redundancy check. |
| ⯀BS_SDK_ERROR_INVALID_RELAY | Invalid Relay. |
| ⯀BS_SDK_ERROR_CANNOT_WRITE_IO_PACKET | Failed to write I/O packet. |
| ⯀BS_SDK_ERROR_CANNOT_READ_IO_PACKET | Failed to read I/O packet. |
| ⯀BS_SDK_ERROR_CANNOT_READ_INPUT | Cannot read input device. |
| ⯀BS_SDK_ERROR_READ_INPUT_TIMEOUT | Timeout during reading the input device. |
| ⯀BS_SDK_ERROR_CANNOT_ENABLE_INPUT | Cannot enable the input device. |
| ⯀BS_SDK_ERROR_CANNOT_SET_INPUT_DURATION | Cannot set the duration of the input device. |
| ⯀BS_SDK_ERROR_INVALID_PORT | Invalid port. |
| ⯀BS_SDK_ERROR_INVALID_INTERPHONE_TYPE | Invalid intercom type. |
| ⯀BS_SDK_ERROR_INVALID_LCD_PARAM | Invalid LCD parameter. |
| ⯀BS_SDK_ERROR_CANNOT_WRITE_LCD_PACKET | Failed to write LCD packet. |
| ⯀BS_SDK_ERROR_CANNOT_READ_LCD_PACKET | Failed to read LCD packet. |
| ⯀BS_SDK_ERROR_INVALID_LCD_PACKET | Invalid LCD packet. |
| ⯀BS_SDK_ERROR_INPUT_QUEUE_FULL | Not enough buffer space on input device. |
| ⯀BS_SDK_ERROR_WIEGAND_QUEUE_FULL | Not enough input buffer space on wiegand device. |
| ⯀BS_SDK_ERROR_MISC_INPUT_QUEUE_FULL | Not enough buffer space on miscellaneous device. |
| ⯀BS_SDK_ERROR_WIEGAND_DATA_QUEUE_FULL | Not enough output buffer space on wiegand device. |
| ⯀BS_SDK_ERROR_WIEGAND_DATA_QUEUE_EMPTY | Empty output data of wiegand device. |
| BS_SDK_ERROR_NOT_SUPPORTED | Not supported. |
| BS_SDK_ERROR_TIMEOUT | Timeout. |
| BS_SDK_ERROR_INVALID_DATA_FILE | Invalid data file. |
| ⯀BS_SDK_ERROR_TOO_LARGE_DATA_FOR_SLOT | The data is larger than the slot. |
| BS_SDK_ERROR_INVALID_SLOT_NO | Invalid slot number. |
| BS_SDK_ERROR_INVALID_SLOT_DATA | Invalid slot data. |
| BS_SDK_ERROR_CANNOT_INIT_DB | Cannot initialize Database. |
| BS_SDK_ERROR_DUPLICATE_ID | Duplicated ID. |
| BS_SDK_ERROR_USER_FULL | No more users can be added. |
| ⯀BS_SDK_ERROR_DUPLICATE_TEMPLATE | Fingerprint already enrolled. |
| BS_SDK_ERROR_FINGERPRINT_FULL | No more fingerprints can be added. |
| BS_SDK_ERROR_DUPLICATE_CARD | Duplicated Card. |
| BS_SDK_ERROR_CARD_FULL | No more cards can be added. |
| BS_SDK_ERROR_NO_VALID_HDR_FILE | Invalid file header. |
| ⯀BS_SDK_ERROR_INVALID_LOG_FILE | Invalid log file. |
| BS_SDK_ERROR_CANNOT_FIND_USER | Cannot find user. |
| BS_SDK_ERROR_ACCESS_LEVEL_FULL | No more access levels can be added. |

| Code | Description |
|------|-------------|
| BS_SDK_ERROR_INVALID_USER_ID | Invalid user ID. |
| BS_SDK_ERROR_BLACKLIST_FULL | No more cards can be added to blacklist. |
| BS_SDK_ERROR_USER_NAME_FULL | No more user names can be added. |
| BS_SDK_ERROR_USER_IMAGE_FULL | No more profile pictures can be added. |
| BS_SDK_ERROR_USER_IMAGE_SIZE_TOO_BIG | User profile picture's size is to big. |
| BS_SDK_ERROR_SLOT_DATA_CHECKSUM | Invalid sector data. |
| BS_SDK_ERROR_CANNOT_UPDATE_FINGERPRINT | Cannot update fingerprint template. |
| ☐BS_SDK_ERROR_TEMPLATE_FORMAT_MISMATCH | Template format does not match the type of the server. |
| ☐BS_SDK_ERROR_NO_ADMIN_USER | There is no administrator. |
| ☐BS_SDK_ERROR_CANNOT_FIND_LOG | Cannot find log. |
| BS_SDK_ERROR_DOOR_SCHEDULE_FULL | No more door schedules can be added. |
| BS_SDK_ERROR_DB_SLOT_FULL | Not enough space in database. |
| BS_SDK_ERROR_ACCESS_GROUP_FULL | No more access groups can be added. |
| ☐BS_SDK_ERROR_ACCESS_SCHEDULE_FULL | Access schedule is full. |
| BS_SDK_ERROR_HOLIDAY_GROUP_FULL | No more holiday groups can be added. |
| BS_SDK_ERROR_HOLIDAY_FULL | No more holidays can be added. |
| BS_SDK_ERROR_TIME_PERIOD_FULL | No more time periods can be added for one day. |
| ☐BS_SDK_ERROR_NO_CREDENTIAL | No credentials. |
| BS_SDK_ERROR_NO_BIOMETRIC_CREDENTIAL | No registered fingerprint. |
| ☐BS_SDK_ERROR_NO_CARD_CREDENTIAL | Card not registered. |
| BS_SDK_ERROR_NO_PIN_CREDENTIAL | No registered PIN. |
| BS_SDK_ERROR_NO_BIOMETRIC_PIN_CREDENTIAL | No registered PIN or fingerprint. |
| ☐BS_SDK_ERROR_NO_USER_NAME | User name not registered. |
| BS_SDK_ERROR_NO_USER_IMAGE | No user profile picture. |
| ☐BS_SDK_ERROR_READER_FULL | Unable to add more devices. |
| ☐BS_SDK_ERROR_CACHE_MISSED | Cannot find cache data. |
| BS_SDK_ERROR_OPERATOR_FULL | No more operators can be added. |
| ☐BS_SDK_ERROR_INVALID_LINK_ID | Invalid link ID. |
| ☐BS_SDK_ERROR_TIMER_CANCELED | Timer has been canceled. |
| ☐BS_SDK_ERROR_USER_JOB_FULL | Cannot add more job codes. |
| ☐BS_SDK_ERROR_INVALID_CONFIG | Invalid system configuration. |
| ☐BS_SDK_ERROR_CANNOT_OPEN_CONFIG_FILE | Cannot open system configuration file. |
| ☐BS_SDK_ERROR_CANNOT_READ_CONFIG_FILE | Cannot read system configuration file. |
| BS_SDK_ERROR_INVALID_CONFIG_FILE | Invalid system configuration header information. |
| BS_SDK_ERROR_INVALID_CONFIG_DATA | Invalid system configuration. |
| ☐BS_SDK_ERROR_CANNOT_WRITE_CONFIG_FILE | Cannot write system configuration file. |
| BS_SDK_ERROR_INVALID_CONFIG_INDEX | Invalid configuration sector index. |
| BS_SDK_ERROR_CANNOT_SCAN_FINGER | Cannot scan finger. |
| BS_SDK_ERROR_CANNOT_SCAN_CARD | Cannot scan card. |
| ☐BS_SDK_ERROR_CANNOT_OPEN_RTC | No RTC device. |
| ☐BS_SDK_ERROR_CANNOT_SET_RTC | Unable to set time on RTC device. |
| ☐BS_SDK_ERROR_CANNOT_GET_RTC | Unable to get time of RTC device. |
| ☐BS_SDK_ERROR_CANNOT_SET_LED | Cannot set LCD pattern. |

| Code | Description |
|---|---|
| ⬜BS_SDK_ERROR_CANNOT_OPEN_DEVICE_DRIVER | Device driver missing. |
| BS_SDK_ERROR_CANNOT_FIND_DEVICE | Cannot find device. |
| BS_SDK_ERROR_CANNOT_FIND_DOOR | Cannot find door. |
| BS_SDK_ERROR_DOOR_FULL | No more doors can be added. |
| BS_SDK_ERROR_CANNOT_LOCK_DOOR | Cannot lock door. |
| BS_SDK_ERROR_CANNOT_UNLOCK_DOOR | Cannot unlock door. |
| ⬜BS_SDK_ERROR_CANNOT_RELEASE_DOOR | Failed to release door. |
| BS_SDK_ERROR_ACCESS_RULE_VIOLATION | Access rules violated. |
| BS_SDK_ERROR_DISABLED | Disabled user. |
| BS_SDK_ERROR_NOT_YET_VALID | Not valid yet. |
| BS_SDK_ERROR_EXPIRED | Time expired. |
| BS_SDK_ERROR_BLACKLIST | Card registered to blacklist. |
| BS_SDK_ERROR_CANNOT_FIND_ACCESS_GROUP | Cannot find access group. |
| BS_SDK_ERROR_CANNOT_FIND_ACCESS_LEVEL | Cannot find access level. |
| BS_SDK_ERROR_CANNOT_FIND_ACCESS_SCHEDULE | Cannot find access schedule. |
| BS_SDK_ERROR_CANNOT_FIND_HOLIDAY_GROUP | Cannot find holiday group. |
| ⬜BS_SDK_ERROR_CANNOT_FIND_BLACKLIST | Blacklist doesn't exist. |
| BS_SDK_ERROR_AUTH_TIMEOUT | Authentication timeout. |
| BS_SDK_ERROR_DUAL_AUTH_TIMEOUT | Dual authentication timeout. |
| BS_SDK_ERROR_INVALID_AUTH_MODE | Invalid authentication mode. |
| BS_SDK_ERROR_AUTH_UNEXPECTED_USER | User information is not matched with the credentials. |
| BS_SDK_ERROR_AUTH_UNEXPECTED_CREDENTIAL | Invalid credentials in current schedule. |
| BS_SDK_ERROR_DUAL_AUTH_FAIL | Failed on dual authentication. |
| BS_SDK_ERROR_BIOMETRIC_AUTH_REQUIRED | Fingerprint is required. |
| BS_SDK_ERROR_PIN_AUTH_REQUIRED | PIN is required. |
| BS_SDK_ERROR_BIOMETRIC_OR_PIN_AUTH_REQUIRED | Fingerprint or PIN required. |
| BS_SDK_ERROR_TNA_CODE_REQUIRED | T&A code required. |
| ⬜BS_SDK_ERROR_AUTH_SERVER_MATCH_REFUSAL | Server matching refused. |
| BS_SDK_ERROR_CANNOT_FIND_ZONE | Unregistered zone. |
| BS_SDK_ERROR_ZONE_FULL | No more zones can be added. |
| BS_SDK_ERROR_HARD_APB_VIOLATION | Hard APB rules violated. |
| BS_SDK_ERROR_SOFT_APB_VIOLATION | Soft APB rules violated. |
| BS_SDK_ERROR_HARD_TIMED_APB_VIOLATION | Timed Hard APB rules violated. |
| BS_SDK_ERROR_SOFT_TIMED_APB_VIOLATION | Timed Soft APB rules violated. |
| BS_SDK_ERROR_SCHEDULED_LOCK_VIOLATION | Invalid user attempted access in the lock schedule. |
| ⬜BS_SDK_ERROR_SCHEDULED_UNLOCK_VIOLATION | Invalid user attempted access in the unlock schedule. |
| BS_SDK_ERROR_SET_FIRE_ALARM | Cannot set fire alarm. |
| ⬜BS_SDK_ERROR_TIMED_APB_ZONE_FULL | Cannot add more Timed APB zone. |
| ⬜BS_SDK_ERROR_FIRE_ALARM_ZONE_FULL | Cannot add more fire alarm zone. |
| ⬜BS_SDK_ERROR_SCHEDULED_LOCK_UNLOCK_ZONE_FULL | Cannot add more scheduled lock/unlock zone. |
| ⬜BS_SDK_ERROR_INACTIVE_ZONE | Inactive zone. |
| BS_SDK_ERROR_CARD_IO | Unsupported Card I/O. |

| Code | Description |
|---|---|
| BS_SDK_ERROR_CARD_INIT_FAIL | Failed to initialize card. |
| BS_SDK_ERROR_CARD_NOT_ACTIVATED | Card has not been activated. |
| BS_SDK_ERROR_CARD_CANNOT_READ_DATA | Cannot read data from card. |
| BS_SDK_ERROR_CARD_CIS_CRC | CIS checksum error. |
| BS_SDK_ERROR_CARD_CANNOT_WRITE_DATA | Cannot write data on card. |
| BS_SDK_ERROR_CARD_READ_TIMEOUT | Card read timeout. |
| BS_SDK_ERROR_CARD_READ_CANCELLED | Card read canceled. |
| BS_SDK_ERROR_CARD_CANNOT_SEND_DATA | Failed to send card data. |
| BS_SDK_ERROR_CANNOT_FIND_CARD | Cannot find card. |
| BS_SDK_ERROR_INVALID_PASSWORD | Invalid password. |
| BS_SDK_ERROR_CAMERA_INIT_FAIL | Failed to initialize the camera. |
| BS_SDK_ERROR_JPEG_ENCODER_INIT_FAIL | Failed to initialize the JPEG encoder. |
| BS_SDK_ERROR_CANNOT_ENCODE_JPEG | Cannot encode to JPEG. |
| BS_SDK_ERROR_JPEG_ENCODER_NOT_INITIALIZED | Failed to initialize Jpeg encoder. |
| BS_SDK_ERROR_JPEG_ENCODER_DEINIT_FAIL | Unable to remove the Jpeg encoder. |
| BS_SDK_ERROR_CAMERA_CAPTURE_FAIL | Failed to capture image with the camera. |
| BS_SDK_ERROR_CANNOT_DETECT_FACE | Cannot detect face. |
| BS_SDK_ERROR_FILE_IO | Failed on file I/O operation. |
| BS_SDK_ERROR_ALLOC_MEM | Failed to allocate memory. |
| BS_SDK_ERROR_CANNOT_UPGRADE | Failed on upgrade. |
| BS_SDK_ERROR_DEVICE_LOCKED | Device is locked. |
| BS_SDK_ERROR_CANNOT_SEND_TO_SERVER | Cannot send data to server. |
| BS_SDK_ERROR_NULL_POINTER | Wrong pointer. |
| BS_SDK_ERROR_UNINITIALIZED | SDK not initialized. |
| BS_SDK_ERROR_CANNOT_RUN_SERVICE | Cannot run SDK service. |
| BS_SDK_ERROR_CANCELED | Canceled. |
| BS_SDK_ERROR_EXIST | Already exists. |
| BS_SDK_ERROR_ENCRYPT | Failed on encryption. |
| BS_SDK_ERROR_DECRYPT | Failed on decryption. |
| BS_SDK_ERROR_DEVICE_BUSY | Device cannot response. |
| BS_SDK_ERROR_INTERNAL | Internal SDK error. |
| BS_SDK_ERROR_INVALID_FILE_FORMAT | Invalid file format. |

From:
http://kb.supremainc.com/bs2sdk/ - **BioStar 2 Device SDK**

Permanent link:
**http://kb.supremainc.com/bs2sdk/doku.php?id=en:return_code&rev=1455695778**

Last update: **2016/02/17 16:56**