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# Version 2.9.1 (V2.9.1.0)

## Date

2023-02-23

## New Features

- Supports activating licenses for use of specific features on devices.
- QR code recognition and authentication support using the camera.
- Support setting the number of retries in case of socket read/write failure.
- Supports 3rd party OSDP reader connection.

### 1. Added device license activation feature.

- Refer to structure [BS2License](#)
- Refer to structure [BS2LicenseConfig](#)
- Refer to structure [BS2LicenseBlob](#)
- Refer to structure [BS2LicenseResult](#)
- API [BS2\\_GetLicenseConfig](#) has been added
- API [BS2\\_EnableDeviceLicense](#) has been added
- API [BS2\\_DisableDeviceLicense](#) has been added
- API [BS2\\_QueryDeviceLicense](#) has been added

### 2. Added features for QR code authentication by using the camera.

- Refer to API [BS2BarcodeConfig](#)

### 3. Added retry count for communication used when an error occurs while reading or writing packets from the socket during communication.

#### Warning

Increasing the number of retries is a way to resolve temporary errors, but care must be taken as direct causes such as network disconnection occurs, can lead to wasted resources by meaningless read/write retries when reconnection is required.

- API [BS2\\_GetSocketRetryCount](#) has been added
- API [BS2\\_SetSocketRetryCount](#) has been added
- API [BS2\\_GetSocketSSLRetryCount](#) has been added
- API [BS2\\_SetSocketSSLRetryCount](#) has been added

### 4. Added feature to connect and manage 3rd party OSDP.

- Refer to structure [BS2OsdpStandardDevice](#)
- Refer to structure [BS2OsdpStandardDeviceAvailable](#)

- Refer to structure [BS2OsdpStandardNotify](#)
- Refer to structure [BS2OsdpStandardConfig](#)
- Refer to structure [BS2OsdpStandardActionConfig](#)
- Refer to structure [BS2OsdpStandardDeviceAdd](#)
- Refer to structure [BS2OsdpStandardDeviceUpdate](#)
- Refer to structure [BS2OsdpStandardDeviceCapability](#)
- Refer to structure [BS2OsdpStandardDeviceResult](#)
- Refer to structure [BS2OsdpStandardDeviceSecurityKey](#)
- API [BS2\\_GetOsdpStandardConfig](#) has been added
- API [BS2\\_GetOsdpStandardActionConfig](#) has been added
- API [BS2\\_SetOsdpStandardActionConfig](#) has been added
- API [BS2\\_AddOsdpStandardDevice](#) has been added
- API [BS2\\_GetOsdpStandardDevice](#) has been added
- API [BS2\\_GetAvailableOsdpStandardDevice](#) has been added
- API [BS2\\_UpdateOsdpStandardDevice](#) has been added
- API [BS2\\_RemoveOsdpStandardDevice](#) has been added
- API [BS2\\_GetOsdpStandardDeviceCapability](#) has been added
- API [BS2\\_SetOsdpStandardDeviceSecurityKey](#) has been added
- API [BS2\\_SetOsdpStandardDeviceStatusListener](#) has been added
- Add callback function [OnOsdpStandardDeviceStatusChanged](#)

## Modification function

1. Fixed memory leak caused by network switches keepalive check being misunderstood by the SDK.
2. This is a problem that occurs only in version 2.8.3.2, and a problem that can lead to abnormal termination during user registration while taking a log dump inside the SDK has been fixed.
3. Fixes were made to stabilize the code internally in the SDK.

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