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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 structure 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.