

UXPErrorCode Error Code Documentation

Version	Changes	Author	Reviewer	Date
v1.0.0	Initial version: standalone error code table	Qiu Xian	Lin Dechun	2026.08.04

1. Overview

`UXPErrorCode` covers all `PrinterError` error types and OTA upgrade errors. When an API returns `Result.Failure`, the error code is available in `PrinterError.errorCode` (corresponds to `UXPErrorCode.value`). Each `PrinterError` type defaults its `errorCode` to the corresponding fallback code (e.g. `ConnectionError` defaults to 1001); SDK call sites pass more specific error codes.

2. Code Ranges

Range	Usage
1001~1007	Fallback codes for <code>PrinterError</code> error types
1101~1199	Connection errors
1201~1299	Communication errors
1301~1399	Invalid parameter errors
1401~1499	Timeout errors
1501~1599	Not connected errors
1601~1699	Unsupported operation errors
2001~2004	OTA upgrade errors
3001~3005	OTA status errors

3. Full Error Code Table

Enum	Value	Description
Success	0	Success
ConnectionError	1001	

		Connection error (generic)
CommunicationError	1002	Communication error (generic)
InvalidParameterError	1003	Invalid parameter (generic)
TimeoutError	1004	Timeout (generic)
NotConnectedError	1005	Not connected (generic)
UnsupportedOperationError	1006	Unsupported operation (generic)
UnknownError	1007	Unknown error (generic)
BluetoothDisabled	1101	Bluetooth is not enabled
BluetoothConnectFail	1102	Failed to connect via Bluetooth
WifiConnectFail	1103	Failed to connect via WiFi
UsbConnectFail	1104	Failed to connect via USB
SerialConnectFail	1105	Failed to connect via serial port
UsbEndpointsNotFound	1106	USB endpoints not found
UsbOpenFail	1107	Failed to open USB device
UsbClaimFail	1108	Failed to claim USB interface
SerialDeviceNotFound	1109	Serial port device not found
SerialOpenFail	1110	Failed to open serial port
DisconnectFail	1111	Failed to disconnect
GetSerialNumberFail	1201	Failed to get serial number
GetPrinterModelFail	1202	Failed to get printer model
GetWifiModeFail	1203	Failed to get printer Wi-Fi mode
GetPrinterVersionFail	1204	Failed to get printer version
GetBatteryLevelFail	1205	Failed to get battery level
SetReprintSwitchFail	1206	Failed to set reprint switch
SetPrintDensityFail	1207	Failed to set print density
SetPaperTypeFail	1208	Failed to set paper type
ParsePaperTypeResponseFail	1209	Failed to parse paper type response
GetPaperTypeFail	1210	Failed to get paper type
SaveParametersFail	1211	Failed to save parameters
RestartWifiFail	1212	Failed to restart WiFi

ResetPrinterFail	1213	Failed to reset printer
SetPrintWidthFail	1214	Failed to set print width
SetCodePageFail	1215	Failed to set code page
SetCharacterSetFail	1216	Failed to set character set
SetVietnameseTransformFail	1217	Failed to set Vietnamese text transform
GetVietnameseTransformFail	1218	Failed to get Vietnamese text transform
SetArabicTransformFail	1219	Failed to set Arabic text transform
GetArabicTransformFail	1220	Failed to get Arabic text transform
SetUtf8InputModeFail	1221	Failed to set UTF-8 input mode
GetUtf8InputModeFail	1222	Failed to get UTF-8 input mode
SetPrinterLanguageFail	1223	Failed to set printer language
GetPrintWidthEmptyFail	1224	Failed to get print width: empty response
GetPrintWidthInsufficientFail	1225	Failed to get print width: insufficient data
GetPrintWidthFail	1226	Failed to get print width
GetPackLengthFail	1227	Failed to get pack length
FontDownloadRetryFail	1228	Font download retry failed
FontDownloadFail	1229	Failed to download font
WriteDataFail	1230	Failed to write data
ReadDataFail	1231	Failed to read data
UsbBulkTransferFail	1232	USB bulk transfer failed
BuildImageCommandFail	1233	Failed to build image command
BuildTwoColorImageCommandFail	1234	Failed to build two-color image command
FirmwareDataEmpty	1301	Firmware data is empty
WifiParamsInvalid	1302	Invalid WiFi connection parameters
IpAddressEmpty	1303	IP address is empty
BluetoothParamsInvalid	1304	Invalid Bluetooth connection parameters
BluetoothAddressInvalid	1305	Invalid Bluetooth address format
UsbParamsInvalid	1306	Invalid USB connection parameters
SerialParamsInvalid	1307	Invalid serial port connection parameters
SerialPathEmpty	1308	Serial port path is empty

BaudRateInvalid	1309	Invalid baud rate
DataEmpty	1310	Data is empty
TwoColorBitmapSizeMismatch	1311	Black and red bitmaps size mismatch
TaskIdOutOfRange	1312	Task ID out of range
PaperTypeReadTimeout	1401	Reading paper type timed out
UsbReadTimeout	1402	USB read timeout
PrinterNotConnected	1501	Printer not connected
InputStreamNotAvailable	1502	Input stream not available
OutputStreamNotAvailable	1503	Output stream not available
UsbConnectionNotAvailable	1504	USB connection not available
UsbEndpointNotAvailable	1505	USB endpoint not available
InputStreamNull	1506	Input stream is null
OutputStreamNull	1507	Output stream is null
BluetoothNotSupported	1601	Bluetooth not supported on this device
UsbNotSupported	1602	USB not supported on this device
ImageProcessingFail	1603	Image processing failed
ResponseResolve	2001	Response parsing failed
OtaGetMaxPackageSize	2002	Failed to get OTA max package size
OtaRetryTooMuch	2003	OTA retried too many times
OtaWriteFail	2004	OTA write failed
OtaStatusLengthError	3001	OTA length error
OtaStatusCrcError	3002	OTA CRC error
OtaStatusTimeOut	3003	OTA timeout
OtaStatusWriteFail	3004	OTA write fail
OtaStatusFail	3005	OTA execution failed