

# **Barcode Implements Manual**

# Overview

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- The device can supports Five Result Types with scanner. You can find these settings through ScanSetting -> Basic -> Result Type. It can match below APIs as well.
  - User Message
    - DCD\_RESULT\_USERMSG
  - Keyboard Event
    - DCD\_RESULT\_KDBMSG
  - Clipboard
    - DCD\_RESULT\_COPYPASTE
  - Intent Broadcast
    - DCD\_RESULT\_EVENT
  - Custom Intent
    - DCD\_RESULT\_CUSTOM\_INTENT
- In case of Keyboard Event and Clipboard, they are not related with application side so we do not describe these options here

# Result Type(User Message)

- **User Message(DCD\_RESULT\_USERMSG)**
  - Field and Description(Stated in DecodeResult class)
  - Decode data can be checked using **aDecodeGetResult()** function.

Modifier and Type	Field and Decription
Int	<b>decodeLength</b> Length of barcode data
static java.lang.String	<b>decodeTimeMillisecond</b> The decode time in milliseconds
static java.lang.String	<b>decodeValue</b> Barcode data
static java.lang.String	<b>letter</b> Unique characters defined by AIM(Association for Automatic Identification and Mobility) to identity symbologies.
static java.lang.String	<b>modifier</b> AIM ID's modifier Please refer AIM code identifier table.
static java.lang.String	<b>symId</b> Symbology ID of the barcode data
static java.lang.String	<b>symName</b> Symbology name of the barcode data
static java.lang.String	<b>SymType</b> Symbology type of the barcode data

# Result Type(Intent Broadcast)

## ➤ Intent Broadcast(DCD\_RESULT\_EVENT)

### ➤ Field and Description(Stated in ScanConst)

Modifier and Type	Field and Description
static java.lang.String	EXTRA_EVENT_DECODE_RESULT If success, return ture
static java.lang.String	EXTRA_EVENT_DECODE_LENGTH Return barcode data Decode Length
static java.lang.String	EXTRA_EVENT_DECODE_VALUE Return barcode data
static java.lang.String	EXTRA_EVENT_SYMBOL_NAME Return barcode Symbol Name
static java.lang.String	EXTRA_EVENT_SYMBOL_ID Return barcode Symbol ID
static java.lang.String	EXTRA_EVENT_SYMBOL_TYPE Symbology type of the barcode data
static java.lang.String	EXTRA_EVENT_DECODE_LETTER Return Unique characters defined by AIM(Association for Automatic Identification and Mobility) to identity symbologies.
static java.lang.String	EXTRA_EVENT_DECODE_MODIFIER AIM ID's modifier Please refer AIM code identifier table.
static java.lang.String	EXTRA_EVENT_DECODE_TIME Return decode Time(ms)

# Result Type(Intent Broadcast)

## ➤ Sample Code and Explanation



If you will read the barcode using tScanner Sample, you will get below log data

1. result: true
2. bytes length: 12
3. bytes value: [B@832ba03
4. decoding length: 12
5. decoding value: 123456789012
6. symbol name: UPC A
7. symbol id: 99
8. symbol type: 56
9. decoding letter: 69
10. decoding modifier: 48
11. decoding time: 878

## Here is the Source code

```
boolean result = intent.getBooleanExtra(ScanConst.EXTRA_EVENT_DECODE_RESULT, false);
int decodeBytesLength = intent.getIntExtra(ScanConst.EXTRA_EVENT_DECODE_LENGTH, 0);
byte[] decodeBytesValue = intent.getBytesExtra(ScanConst.EXTRA_EVENT_DECODE_VALUE);
String decodeValue = new String(decodeBytesValue, 0, decodeBytesLength);
int decodeLength = decodeValue.length();
String symbolName = intent.getStringExtra(ScanConst.EXTRA_EVENT_SYMBOL_NAME);
byte symbolId = intent.getByteExtra(ScanConst.EXTRA_EVENT_SYMBOL_ID, (byte) 0);
int symbolType = intent.getIntExtra(ScanConst.EXTRA_EVENT_SYMBOL_TYPE, 0);
byte letter = intent.getByteExtra(ScanConst.EXTRA_EVENT_DECODE_LETTER, (byte) 0);
byte modifier = intent.getByteExtra(ScanConst.EXTRA_EVENT_DECODE_MODIFIER, (byte) 0);
int decodingTime = intent.getIntExtra(ScanConst.EXTRA_EVENT_DECODE_TIME, 0);
```

```
Log.d(TAG, "1. result: " + result);
Log.d(TAG, "2. bytes length: " + decodeBytesLength);
Log.d(TAG, "3. bytes value: " + decodeBytesValue);
Log.d(TAG, "4. decoding length: " + decodeLength);
Log.d(TAG, "5. decoding value: " + decodeValue);
Log.d(TAG, "6. symbol name: " + symbolName);
Log.d(TAG, "7. symbol id: " + symbolId);
Log.d(TAG, "8. symbol type: " + symbolType);
Log.d(TAG, "9. decoding letter: " + letter);
Log.d(TAG, "10. decoding modifier: " + modifier);
Log.d(TAG, "11. decoding time: " + decodingTime);
```

# Result Type(Intent Broadcast)

## ➤ Example with Sample Code



Here is each data result with explanation.

1. result: **true**
  1. Read Success
2. bytes length: **12**
  1. Barcode Byte length is 12
3. bytes value: **[B@832ba03**
  1. Byte value
4. decoding length: **12**
  1. Barcode data length
5. decoding value: **123456789012**
  1. Decoded data
6. symbol name: **UPC A**
  1. Barcode symbology name
7. symbol id: **99**
  1. At Scanner Setting -> Symbologies -> click UPC A.
  2. The Barcode ID "c" and ACSII code is "99"
  3. Visit to website and you can check ACSII code "<https://ascii.cl/>"
8. symbol type: **56**
  1. Refer to appendix #1
9. decoding letter: **69**
  1. Open Aim table document and find UPC-A. The data is "]E0"
  2. "E" means letter. "0" means Modifier. It is international rule and shows ASCII Code.
  3. "E" → 69 / "0" → 48
10. decoding modifier: **48**
11. decoding time: **878**
  1. Decoding speed 878(ms)

# Result Type(Custom Intent)

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- **Custom Intent(DCD\_RESULT\_CUSTOM\_INTENT)**
  - **The Customer doesn't need to implements our barcode Intent name to customer application due to this function.**
    - **If the customer application are using Intent in order to use barcode data, just choose "Custom Intent" and insert their "Intent action" & "Intent Category". If so, you don't need to do implementation anymore. You can use the application with this setting. Moreover, you can change extra data as well.**

# Appendix #1 Symbology ID

device.common.ScanConst.SymbologyID		
Modifier and Type	Constant Field	Value
public static final int	<a href="#"><u>DCD_SYM_AIRLINE_2OF5_13_DIGIT</u></a>	1
public static final int	<a href="#"><u>DCD_SYM_AIRLINE_2OF5_15_DIGIT</u></a>	2
public static final int	<a href="#"><u>DCD_SYM_AUSTRALIAN_POSTAL</u></a>	4
public static final int	<a href="#"><u>DCD_SYM_AZTEC</u></a>	3
public static final int	<a href="#"><u>DCD_SYM_BOOKLAND_EAN</u></a>	5
public static final int	<a href="#"><u>DCD_SYM_BPO</u></a>	6
public static final int	<a href="#"><u>DCD_SYM_CANPOST</u></a>	7
public static final int	<a href="#"><u>DCD_SYM_CHINAPOST</u></a>	8
public static final int	<a href="#"><u>DCD_SYM_CHINESE_2OF5</u></a>	9
public static final int	<a href="#"><u>DCD_SYM_CODABAR</u></a>	10
public static final int	<a href="#"><u>DCD_SYM_CODABLOCK</u></a>	11
public static final int	<a href="#"><u>DCD_SYM_CODE11</u></a>	12
public static final int	<a href="#"><u>DCD_SYM_CODE128</u></a>	13
public static final int	<a href="#"><u>DCD_SYM_CODE16K</u></a>	14
public static final int	<a href="#"><u>DCD_SYM_CODE32</u></a>	15
public static final int	<a href="#"><u>DCD_SYM_CODE39</u></a>	16
public static final int	<a href="#"><u>DCD_SYM_CODE49</u></a>	17
public static final int	<a href="#"><u>DCD_SYM_CODE93</u></a>	18
public static final int	<a href="#"><u>DCD_SYM_COMPOSITE</u></a>	19



# Appendix #1 Symbology ID

device.common.ScanConst.SymbologyID		
Modifier and Type	Constant Field	Value
public static final int	<a href="#"><u>DCD_SYM_COUPON_CODE</u></a>	20
public static final int	<a href="#"><u>DCD_SYM_DATAMATRIX</u></a>	21
public static final int	<a href="#"><u>DCD_SYM_DISCRETE_2OF5</u></a>	22
public static final int	<a href="#"><u>DCD_SYM_DUTCH_POSTAL</u></a>	23
public static final int	<a href="#"><u>DCD_SYM_EAN128</u></a>	24
public static final int	<a href="#"><u>DCD_SYM_EAN13</u></a>	25
public static final int	<a href="#"><u>DCD_SYM_EAN8</u></a>	26
public static final int	<a href="#"><u>DCD_SYM_GRIDMATRIX</u></a>	65
public static final int	<a href="#"><u>DCD_SYM_GS1_DATABAR_14</u></a>	27
public static final int	<a href="#"><u>DCD_SYM_GS1_DATABAR_EXPANDED</u></a>	28
public static final int	<a href="#"><u>DCD_SYM_GS1_DATABAR_LIMITED</u></a>	29
public static final int	<a href="#"><u>DCD_SYM_HANXIN</u></a>	64
public static final int	<a href="#"><u>DCD_SYM_HONGKONG_2OF5</u></a>	30
public static final int	<a href="#"><u>DCD_SYM_IATA_2OF5</u></a>	31
public static final int	<a href="#"><u>DCD_SYM_IDTAG</u></a>	32
public static final int	<a href="#"><u>DCD_SYM_INFO_MAIL</u></a>	66
public static final int	<a href="#"><u>DCD_SYM_INTELLIGENT_MAIL</u></a>	67
public static final int	<a href="#"><u>DCD_SYM_INTERLEAVED_2OF5</u></a>	33
public static final int	<a href="#"><u>DCD_SYM_ISBT128</u></a>	34
public static final int	<a href="#"><u>DCD_SYM_JAPANESE_POSTAL</u></a>	35
public static final int	<a href="#"><u>DCD_SYM_KOREAN_POSTAL</u></a>	36
public static final int	<a href="#"><u>DCD_SYM_LABEL</u></a>	63

# Appendix #1 Symbology ID

device.common.ScanConst.SymbologyID		
public static final int	<a href="#"><u>DCD_SYM_LAST</u></a>	69
public static final int	<a href="#"><u>DCD_SYM_MATRIX_2OF5</u></a>	37
public static final int	<a href="#"><u>DCD_SYM_MAXICODE</u></a>	38
public static final int	<a href="#"><u>DCD_SYM_MESA</u></a>	39
public static final int	<a href="#"><u>DCD_SYM_MICRO_PDF417</u></a>	40
public static final int	<a href="#"><u>DCD_SYM_MICRO_QR</u></a>	41
public static final int	<a href="#"><u>DCD_SYM_MSI</u></a>	42
public static final int	<a href="#"><u>DCD_SYM_NEC_2OF5</u></a>	43
public static final int	<a href="#"><u>DCD_SYM_NIL</u></a>	0
public static final int	<a href="#"><u>DCD_SYM_OCR</u></a>	44
public static final int	<a href="#"><u>DCD_SYM_PDF417</u></a>	45
public static final int	<a href="#"><u>DCD_SYM_PLESSEY</u></a>	46
public static final int	<a href="#"><u>DCD_SYM_POSICODE</u></a>	47
public static final int	<a href="#"><u>DCD_SYM_POST_US4</u></a>	48
public static final int	<a href="#"><u>DCD_SYM_QR</u></a>	49
public static final int	<a href="#"><u>DCD_SYM_RSS</u></a>	62
public static final int	<a href="#"><u>DCD_SYM_STANDARD_2OF5</u></a>	51
public static final int	<a href="#"><u>DCD_SYM_STRAIGHT_2OF5</u></a>	50
public static final int	<a href="#"><u>DCD_SYM_SWEDENPOST</u></a>	68
public static final int	<a href="#"><u>DCD_SYM_TELEPEN</u></a>	52
public static final int	<a href="#"><u>DCD_SYM_TLCODE39</u></a>	53
public static final int	<a href="#"><u>DCD_SYM_TRIOPTIC</u></a>	54
public static final int	<a href="#"><u>DCD_SYM_UK_POSTAL</u></a>	55
public static final int	<a href="#"><u>DCD_SYM_UPCA</u></a>	56
public static final int	<a href="#"><u>DCD_SYM_UPCE</u></a>	57
public static final int	<a href="#"><u>DCD_SYM_UPCE1</u></a>	58
public static final int	<a href="#"><u>DCD_SYM_US_PLANET</u></a>	59
public static final int	<a href="#"><u>DCD_SYM_US_POSTNET</u></a>	60
public static final int	<a href="#"><u>DCD_SYM_USPS_4CB</u></a>	61

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**Thank you**

The slide features a light gray background with several thin, vertical lines of varying heights and colors (blue, green, and gray) scattered across the space. A solid blue horizontal line is positioned near the top. At the bottom, there is a decorative bar composed of a series of colored squares in yellow, teal, gray, red, and black.