DESP Protocol Guide
Version 1.00

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Contents

Decoded Engine Serial Protocol

This document is divided in five parts: Introduction, DESP Protocol Specification, DESP Software Library, and the Configuration Properties List.

Introduction

The Decoded Engine Serial Protocol (DESP) Developer's Guide provides a reference for developers in order to manage the decoder communication system. It allows developers to design the communication system between a serial host and the decoder.

DESP Protocol Specification

Overview

DESP is based on packet exchange between the decoder board and the host processor. Therefore this document provides an overview of the packets, the DESP available commands, and some examples to better understand the protocol.

Packet Definition

There are two type of packets: command packets and response packets. Every communication is represented by a complete packet exchange: a command packet is followed by a response packet. The packet structure has to be able to support all the protocol functions and we have to consider that sometimes things can get pretty complex.

All packets have the same format:

Start	Flags	Length	Opcode	Payload	CRC
1 Byte	1 Byte	1 or 2 Bytes	1 byte	variable	2 Bytes

Fields *Flags*, *Length* and *Opcode* are usually referred together as the packet **Header**.

The Packet consists of a special start byte, a header, followed by a variable payload and a CRC.

Start

It is the start byte of every packet. The start byte is represented by the reserved **"0x20"**. This is a synchronization byte sent in order to understand the start of the communications, to open the connection, and to set up the communication protocol.

Flags

Each bit of this byte represents a specific system setting

- o Bit 0: 1-bit counter. Incremented command by command, it has to be the same in the command and response packet.
- o Bit 1: command bit, set to 1 to describe packets with payload length higher than 255.
- o Bit 2: reserved
- o Bit 3: reserved
- o Bit 4: reserved
- o Bit 5: reserved
- o Bit 6: crc bit, set to 1 when CRC is present
- o Bit 7: reserved

Length

As it possible to see, packets are variable in size, up to 4096 Bytes. Length is specified using Little Endianness. For packet lengths below 255 bytes, a single byte is used.

Opcode

The Operation Code byte identifies which command is being sent and received. A complete list and description follow in the next section.

Payload

The payload represents the data sent with the packet and it depends on the opcode. It will represent parameters in command packets and actual payload in response packets.

CRC

CRC is the 2's complement sum of the message contents, excluding the checksum and the Start bytes.

DESP uses a 16-bit cyclic redundancy check (CRC) to validate all packet exchanges, the specific definition chosen is *CRC-16(MODBUS)*, Big Endian representation.

To improve performance DESP uses 2 different versions:

- o DESP_USHORT incCrc16(DESP_UCHAR c) works with bytes and it is used to process the packet header;
- o DESP_USHORT Crc16(const DESP_UCHAR *buf,DESP_INT len) works with buffers and it is used to process the packet payload;

These functions are available as a reference in *Desp_procotol.c*.

A command packet is a packet sent by the host to the decoder board. Its format is specified by the Opcode (1 Byte) and the Parameters (N Bytes depending on the opcode). After every command packet, a response packet is returned: it has the same structure as above, with few specifications:

Field name	Length	Description
Response code	1 Byte	0x2D ACK: the command is accepted 0x2E NACK: the command is not accepted 0x27 Data: The scan engine tries to send unsolicited message instead
Type	1 Byte	0x01 Result 0x02 Event 0x03 Get Property response 0x04 Get Property request 0x05 Set Property response 0x06 Set Property request In case of NACK Type byte is not present
Payload	Variable	-

ByteStuffing Technique

The packet uses byte-stuffing to avoid the use of reserved values: if a byte with a reserved value has to be sent, a BITSTUFFING is sent before and then the byte itself is transmitted summed to BITSTUFFING. *Length* and *CRC* are not taken into consideration by byte stuffing.

The reserved value for this is: **0x1F**

Further details about the packet structure will be explained in the following section, at the moment this is enough to introduce the commands DESP is able to perform.

Protocol modes

DESP has different protocol modes considering the results structure and the packet synchronization.

Combining these two features results in 4 different protocol modes:

- o ASYNC protocol version
- o extended ASYNC protocol version
- o extended SYNC protocol version
- o SYNC protocol version

Synchronization

The 2 different options, SYNC and ASYNC, differ only considering the acquisition phase and how to retrieve the data from the decoder.

In the SYNC mode data packets are treated as all others, they are always a response to a command, the specific command to retrieve each data packet is the GET_DATA_SYNCH command.

In the ASYNC mode, the device is allowed to send unsolicited messages, this is possible only for data packets during the acquisition phase (between a start and a stop command).

Out of the acquisition phase, the 2 modes are exactly the same.

Results structure

There are 2 possible options for the results structure: base and extended. As the name suggests, the extended results structure gives more information about the result, especially for 2D codes.

Following the base results fields:

Field Name	Description	Data Type
StringLen	Result data length	DESP_SHORT
SubType	Barcode subtype	DESP_INT
Symbology	Barcode Symbology	DESP_INT
String	Result data	DESP_UCHAR

If the EnableExtendedResultTx property is set to 1, the following result information is provided with the incoming result:

Field Name	Description	Data Type
DecoderType	Decoder used to decode	DESP_SHORT
StringLen	Result data length	DESP_SHORT
SubType	Barcode subtype	DESP_INT
Quality	Quality	DESP_SHORT
Linkage	Linkage flag	DESP_SHORT
Errors	Errors corrected by ReedSolomon	DESP_SHORT
Erasures	Erasures corrected by ReedSolomon	DESP_SHORT
Protection	Protection	DESP_SHORT
BoxOrientation	BoxOrientation	DESP_SHORT
Extended	Extended	DESP_SHORT
PixelPerElement	PPM from Symbology	DESP_INT

Field Name	Description	Data Type
Symbology	Barcode Symbology	DESP_INT
PCS	PCS	DESP_INT
Inverse	The image has been decoded inverted	DESP_INT
CoordinateX	Aim coordinate x	DESP_INT
CoordinateY	Aim coordinate y	DESP_INT
Center	Barcode center in the frame	SDNPoint
Box	Image portion that including the barcode	SDNBox
ID_AIM	ID_AIM	DESP_CHAR
Tick	Tick	DESP_UINT
SymbolSize	Symbol Size	DESP_INT
CheckDigitType	CheckDigit Type	DESP_INT
FrameDecodeTime	Time to find the result inside the current frame	DESP_USHORT
String	Result data	DESP_UCHAR

To enable Extended Result Transmission it's necessary to set the following property to 1:

```
PROPERTY_Desp_EnableExtendedResultTx
26542
```

DESP Commands

Commands Overview

Opcode	Cmd Name	Description	Parameters	Response Data
0x21	Open	Open connection and get the scan engine information.	1 byte: protocol version.	1 byte for the scan engine identification + 1 byte with supported protocol + 1 reserved byte
0x22	Close	Close current connection.	None.	Ack packet response.
0x23	Start	Start acquisition session.	None.	Ack packet response.
0x24	Stop	Stop acquisition session.	None.	Ack packet response.

Opcode	Cmd Name	Description	Parameters	Response Data
0x25	Suspend	Put the scan engine in LOW POWER mode.	None.	Ack packet response.
0x26	Resume	Wake up the scan engine.	None.	Ack packet response.
0x27	Get Data	Get decoded data or Data Event.	None	Ack packet response.
0x28	Configuration Open	Open the configuration session. After this command the scan engine is ready to get and set configuration parameters.	None.	Ack packet response.
0x29	Configuration Close	Close the configuration session, all the configurations are applied and the scan engine is now ready to start acquisitions.	None.	Ack packet response.
0x2A	Configuration Set	Set a Parameter.	Parameter identification + value	Ack packet response
0x2B	Configuration Get	Get the value of a parameter.	2 bytes for Parameter identification.	Ack packet response + request parameter value, variable.
0x2C	SYNC	Notify the request of synchronization.	None.	Ack packet response.
0x2D	ACK	This is a response to a command. The command was successfully executed. Depending on the command.	None	None.
0x2E	NACK	This is a response to a command. The execution of the command failed.	None.	None.
0x2F	Reserved	Reserved	None.	N.A.
0x31	AIM ON	Turn on AIMING mode.	None.	Ack packet response.
0x30	AIM OFF	Turn off AIMING mode.	None.	Ack packet response.

Opcode	Cmd Name	Description	Parameters	Response Data
0x32	Restore Default Configuration	Restore Default Configuration.	None.	Ack packet response.
0x33	Shutdown	Shutdown Device.	1 byte set to 0	Ack packet response.
0x34	Send GetDataSync	Retrieve data packets with SYNC protocol mode.	None.	Ack packet response + data.
0x35	Open File	Open the given file	first 4 bytes fix to 0 + 1 byte string representing the file name (max 20 bytes)	Ack packet response + 4 bytes file handler id
0x36	Write File	Write to the given file	4 bytes, file handler id (returned in open file operation) + 4 bytes write position + number of bytes to write + 1 byte: buffer pointer	Ack packet response + 4 bytes, written bytes number
0x37	Read File	Read from the given file	4 bytes, file handler id (returned in open file operation) + 4 bytes: read position + 4 bytes: bytes to read + 1 byte: buffer pointer	Ack packet response + 4 byte represented the number of read bytes.
0x38	Close File	Close File opened with Open command	4 bytes, file handler id (returned in open file operation)	Ack packet response.

Opcode	Cmd Name	Description	Parameters	Response Data
0x39	Global Enable	Send a GLOBAL_ENABLE command	None	Ack packet response.
0x3A	Global Disable	Send a GLOBAL_DISABLE command	None	Ack packet response.

0xFF is a reserved Opcode.

DESP working modes

This image summarizes how the DESP working modes change when using the listed commands:
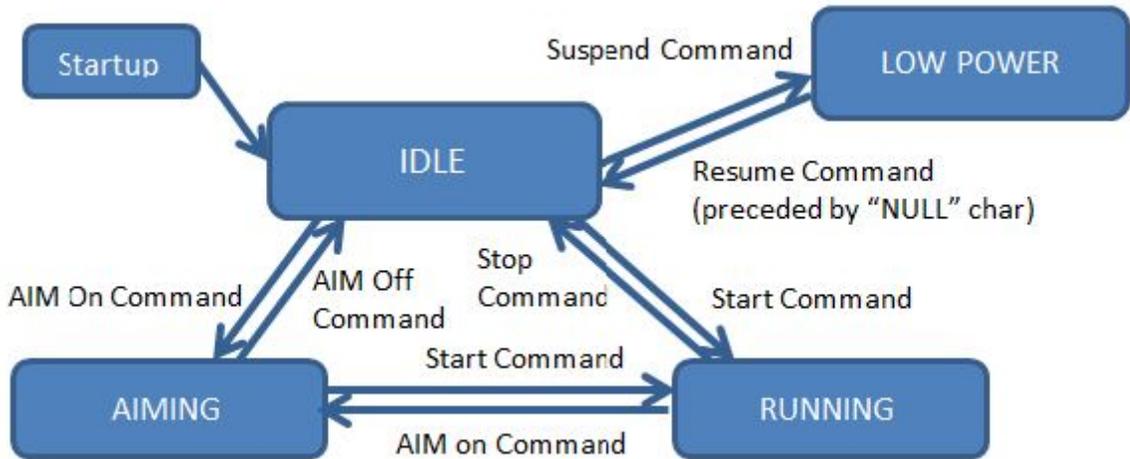
The typical packet of a command request

Start [1 byte] + Flags[2 byte] + Len [1 or 2 bytes] + opcode [1 byte] + params [variable length] (opt.) + CRC [2 bytes]

The typical answer to a packet request is:

Start [1 byte] + Flags[2 byte] + Len [1 or 2 bytes] +opcode [1 byte] + params [variable length] (opt.) + CRC [2 bytes]

Commands

Open command

The command creates a connection with the scan engine. After this command the scan engine is ready to receive all other commands.

Start	Flags	Length	Op command	Parameters	CRC
0x20	0x40	0x01	0x21	0x01: ASYNC protocol version 0x02 extended ASYNC protocol version 0x03 extended SYNC protocol version 0x04 SYNC protocol version	variable

Extended protocol version feature that provides 2D results information.

The response packet shall be one of the following: ACK, NACK. In case of success the following ACK packet is sent:

Start	Flags	Length	Op command	Parameters	CRC
0x20	0x40	0x03	0x2D	info (3bytes)	variable

Info has the following format:

Field name	Format
Device ID	1 Byte
Protocol Info	1 Byte
Reserved	1 Byte

Close Command

Close the connection with the scan engine.

Start	Flags	Length	Op command	Parameters	CRC
0x20	0x40	0x00	0x22	-	0xF0 0x0D

The response packet shall be one of the following: ACK, NACK. In case of success the following ACK packet is sent:

Start	Flags	Length	Op command	Parameters	CRC
0x20	0x40	0x00	0x2D	-	0xB0 0x09

Start Command

In order to start an acquisition session using the communication interface, it is required to send a start command to the scan engine.

After the Start command the scan engine switches to OPERATING mode and starts decoding, producing unsolicited DATA messages. The command shall be in the following format:

Start	Flags	Length	Op command	Parameters	CRC
0x20	0x40	0x00	0x23	-	0x31 0xCD

The response packet shall be one of the following: ACK, NACK. In case of success the following ACK packet is sent:

Start	Flags	Length	Op command	Parameters	CRC
0x20	0x40	0x00	0x2D	-	0xB0 0x09

Stop Command

The command stops the current acquisition session, switching the scan engine to IDLE mode. After this command no other Data message shall be sent to the host.

Start	Flags	Length	Op command	Parameters	CRC
0x20	0x40	0x00	0x24	-	0x70 0x0F

The response packet shall be one of the following: ACK, NACK. In case of success the following ACK packet is sent:

Start	Flags	Length	Op command	Parameters	CRC
0x20	0x40	0x00	0x2D	-	0xB0 0x09

Suspend Command

This command puts the scan engine in LOW POWER mode.

Start	Flags	Length	Op command	Parameters	CRC
0x20	0x40	0x00	0x25	-	0xB1 0xCF

The response packet shall be one of the following: ACK, NACK. In case of success the following ACK packet is sent:

Start	Flags	Length	Op command	Parameters	CRC
0x20	0x40	0x00	0x2D	-	0xB0 0x09

Resume Command

With this command the scan engine exits LOW POWER state.

Note: depending on the target device, some peripherals could be not active in low power state, therefore physical signals are usually available to wake up the device. Please refer to the device integration guide for more information.

Start	Flags	Length	Op command	Parameters	CRC
0x20	0x40	0x00	0x26	-	0xF1 0xCE

The response packet shall be one of the following: ACK, NACK. In case of success the following ACK packet is sent:

Start	Flags	Length	Op command	Parameters	CRC
0x20	0x40	0x00	0x2D	-	0xB0 0x09

Open configuration Command

After this command the device enters configuration mode. The host can configure the system using Get/Set command.

Start	Flags	Length	Op command	Parameters	CRC
0x20	0x40	0x00	0x28	-	0x70 0x0A

The response packet shall be one of the following: ACK, NACK. In case of success the following ACK packet is sent:

Start	Flags	Length	Op command	Parameters	CRC
0x20	0x40	0x00	0x2D	-	0xB0 0x09

Close configuration Command

After this command the devices exits configuration mode, changes are applied and a new acquisition session can be started.

Start	Flags	Length	Op command	Parameters	CRC
0x20	0x40	0x00	0x29	-	0xB1 0xCA

The response packet shall be one of the following: ACK, NACK. In case of success the following ACK packet is sent:

Start	Flags	Length	Op command	Parameters	CRC
0x20	0x40	0x00	0x2D	-	0xB0 0x09

Set configuration Command

This command allows the user to set a configuration property.

Start	Flags	Length	Op command	Parameters	CRC
0x20	0x40	variable	0x2A	Info	variable

Info has the following format:

Field name	Format	Description
ID	2 Bytes	Id of the Property.
Value Data Length	2 Bytes	N: Length of the value contained in the Value Data Field, in binary format. 0x00: this means value Data field contains a 4-byte numeric value stored in little endian format (LSB first).
Value Data	variable	Data Value expressed in 4-byte numeric format (little endian LSB first) if "Value Data Length" is 0, otherwise value is expressed in binary string.

The response packet shall be one of the following: ACK, NACK. In case of success the following ACK packet is sent:

Start	Flags	Length	Op command	Parameters	CRC
0x20	0x40	0x00	0x2D	-	0xB0 0x09

Get configuration Command

With this command the host can get the value of a configuration parameter from the scan engine.

Start	Flags	Length	Op command	Parameters	CRC
0x20	0x40	variable	0x2B	Get Info	variable

Info has the following format:

Field name	Format	Description
ID	2 Bytes	Id of the Property.

The response packet shall be one of the following: ACK, NACK. In case of success the following ACK packet is sent:

Start	Flags	Length	Op command	Parameters	CRC
0x20	0x40	0x00	0x2D	Get Info response	variable

Info response has the following format:

Field name	Format	Description
ID	2 Bytes	Id of the Property.
Value Data Length	2 Bytes	N: Length of the value contained the Value Data Field, in binary format. 0x00: value Data field contains a 4-byte numeric value stored in little endian format (LSB first).
Value Data	variable	Data Value expressed in 4-byte numeric format (little endian - LSB first) if "Value Data Length" is 0x00, otherwise value is expressed in binary string.

Sync Command

Notify the request of synchronization.

Example: During an acquisition session (after the start command), with the ASYNC mode, results or events are sent using unsolicited Data packets, so the host must be capable of handling incoming information in an asynchronous way. It is also possible to have a collision in the transmission of host commands and scan engine Data Packets; in that case the host has to send a sync command to the scan engine in order to reestablish a synchronization point. After the scan engine receives a sync packet, it will try to send its message again. See the "*Frame collision during a command*" image on the *Sequence diagrams* section for a graphic representation.

Start	Flags	Length	Op command	Parameters	CRC
0x20	0x40	0x00	0x2C	-	0x71 0xc9

The response packet shall be one of the following: ACK, NACK. In case of success the following ACK packet is sent:

Start	Flags	Length	Op command	Parameters	CRC
0x20	0x40	0x00	0x2D	-	0xB0 0x09

AIM On Command

This command turns on AIMING mode.

This switches the scan engine to running with aiming system on, but with scan engine LEDs off and without decoding images. Note that AIMING mode is also controlled by an AIM_CTRL line (see the integration guide).

Start	Flags	Length	Op command	Parameters	CRC
0x20	0x40	0x00	0x31	-	0xB1 0xC0

The response packet shall be one of the following: ACK, NACK. In case of success the following ACK packet is sent:

Start	Flags	Length	Op command	Parameters	CRC
0x20	0x40	0x00	0x2D	-	0xB0 0x09

AIM Off Command

This command turns off AIMING mode.

This command turns off AIMING mode, switching the decoder to IDLE state. Note that AIMING mode is also controlled by an AIM_CTRL line (see integration guide).

Start	Flags	Length	Op command	Parameters	CRC
0x20	0x40	0x00	0x30	-	0x70 0x00

The response packet shall be one of the following: ACK, NACK. In case of success the following ACK packet is sent:

Start	Flags	Length	Op command	Parameters	CRC
0x20	0x40	0x00	0x2D	-	0xB0 0x09

Restore default configuration Command

This command restores the default EVL configuration.

Start	Flags	Length	Op command	Parameters	CRC
0x20	0x40	0x00	0x32	-	0xf1 0xc1

The response packet shall be one of the following: ACK, NACK. In case of success the following ACK packet is sent:

Start	Flags	Length	Op command	Parameters	CRC
0x20	0x40	0x00	0x2D	-	0xB0 0x09

Shutdown Command

This command shutdowns the device.

Start	Flags	Length	Op command	Parameters	CRC
0x20	0x40	0x01	0x33	0x00	0x50 0xD4

The response packet shall be one of the following: ACK, NACK. In case of success the following ACK packet is sent:

Start	Flags	Length	Op command	Parameters	CRC
0x20	0x40	0x00	0x2D	-	0xB0 0x09

Open File

With this command the host opens a remote connection with a file on the device.

Start	Flags	Length	Op command	Parameters	CRC
0x20	0x40	variable	0x35	4 bytes at 0 + file type	variable

File type can be one of the following:

Value	Description
"Image"	To download an image
"BinConfig"	To download the configuration binaries
"UserConfig"	To download/upload the custom configurations made by the user
"Script"	To download/upload the javascript script

Note: The DESP protocol supports an Advanced Formatter Scripting language (based on Javascript) to support customization of post processing data.

The response packet shall be one of the following: ACK, NACK.

In case of success the following ACK packet is sent:

Start	Flags	Length	Op command	Parameters	CRC
0x20	0x40	variable	0x2D	File info	variable

File info has the following format:

Field name	Format	Description
File handler	4 Bytes	Requested file handler.

Write File

With this command the host writes on the remote file opened with the Open command.

Start	Flags	Length	Op command	Parameters	CRC
0x20	0x40	variable	0x36	4 bytes, file handler + 4 bytes, write position + number of bytes to write + 1 byte: buffer pointer	variable

The response packet shall be one of the following: ACK, NACK.

In case of success the following ACK packet is sent:

Start	Flags	Length	Op command	Parameters	CRC
0x20	0x40	variable	0x2D	4 bytes, Written bytes number	variable

Read File

With this command the host reads from the remote file opened with the Open command.

Start	Flags	Length	Op command	Parameters	CRC
0x20	0x40	variable	0x37	4 bytes, file handler + 4 bytes read position + 4 bytes: bytes to read + 1 byte: buffer pointer	variable

The response packet shall be one of the following: ACK, NACK.

In case of success the following ACK packet is sent:

Start	Flags	Length	Op command	Parameters	CRC
0x20	0x40	variable	0x2D	4 bytes, readed bytes number	variable

Close File

With this command the host closes the connection to the file opened with the Open command.

Start	Flags	Length	Op command	Parameters	CRC
0x20	0x40	0x04	0x38	4 bytes, file handler	variable

The response packet shall be one of the following: ACK, NACK.

In case of success the following ACK packet is sent:

Start	Flags	Length	Op command	Parameters	CRC
0x20	0x40	0x00	0x2D	-	0xB0 0x09

Global Enable

With this command the host sends a Global Enable command to the device, this means it will be sensitive to the Trigger again.

Start	Flags	Length	Op command	Parameters	CRC
0x20	0x40	0x00	0x39	-	0xB0 0x06

The response packet shall be one of the following: ACK, NACK. In case of success the following ACK packet is sent:

Start	Flags	Length	Op command	Parameters	CRC
0x20	0x40	0x00	0x2D	-	0xB0 0x09

Global Disable

With this command the host sends a Global Disable command to the device, this means it won't be sensitive to the Trigger anymore.

Start	Flags	Length	Op command	Parameters	CRC
0x20	0x40	0x00	0x3A	-	0xf0 0x07

The response packet shall be one of the following: ACK, NACK. In case of success the following ACK packet is sent:

Start	Flags	Length	Op command	Parameters	CRC
0x20	0x40	0x00	0x2D	-	0xB0 0x09

Response Packet: ACK

The ACK Packet is sent in response to a command that is executed with success. The packet can have some parameters, depending on the command. The format of the ACK packet with no parameters is the following:

Start	Flags	Length	Op command	Parameters	CRC
0x20	0x40	0x00	0x2D	-	0xb0 0x09

Response Packet: NACK

The NACK Packet is sent in response to a command that is not executed with success. The packet has the format:

Start	Flags	Length	Op command	Parameters	CRC
0x20	0x40	0x00	0x2E	Parameters	variable

Response Packet: Data

Data packet is sent to the host during an acquisition session. In the ASYNC mode, this kind of response packet can be received in any moment if during the process lifetime a start (acquisition) command has been called.

Otherwise in the SYNC mode data are received as a response to the Desp_send_GetDataSync() command, data will be in the packet payload and the opcode will be ACK_OPCODE.

Two types of information can be retrieved by a Data Message: Result information or Events information:

Start	Flags	Length	Op command	Parameters	CRC
0x20	0x40	variable	0x27	Result or Events	variable

Result Information has the following structure:

Field name	Format	Description
Length	2 Bytes	Length of the data in Result String. This value can exceed the packet size, this means that the system shall send additional packets in order to send all the data of the Result String.
Sub Type	4 Bytes	Identifies the bar code type.
Symbology	4 Bytes	Identifies the bar code symbology.
Result String	variable	The Decoded result, in null terminated string format. If the result exceeded the size of the packet one or more extra packets shall be sent with the remaining data.

Event Information has the following structure:

Field name	Format	Description
Event Id	2 Bytes	Event ID: 0x01: Ready. The scan engine has completed the decoding process, no other results will be sent 0x02: In Progress. The scan engine is still running, additional results might be sent. 0x03: Image Ready. DESP notifies it has an image ready to be downloaded.

Sequence diagrams

The following sequence diagrams are provided to properly understand how the protocol works:

ASYNC protocol mode: decoding operation

User (Host) sends the start packet and receives the ACK packet response from the decoder. After that User waits for Data. The decoder sends several unsolicited messages to the User with data (results and events), the User responds with an ACK to each message. For every session the decoder sends a "In progress" event message and a "Ready" event message. In the middle of the two events one or more Result messages can be sent if the decoder was able to decode a barcode. After the "Ready" event message no other unsolicited messages will be sent by the decoder.

The User can send the stop command to the Scanner that sent an ack response. In this case there is not packet collision. If the User sends the stop command in order to abort a decoding session and before the "Ready" event was issued, the User has to take care of waiting for the "Ready" event message, in order to be sure the decoder has completed its operation.
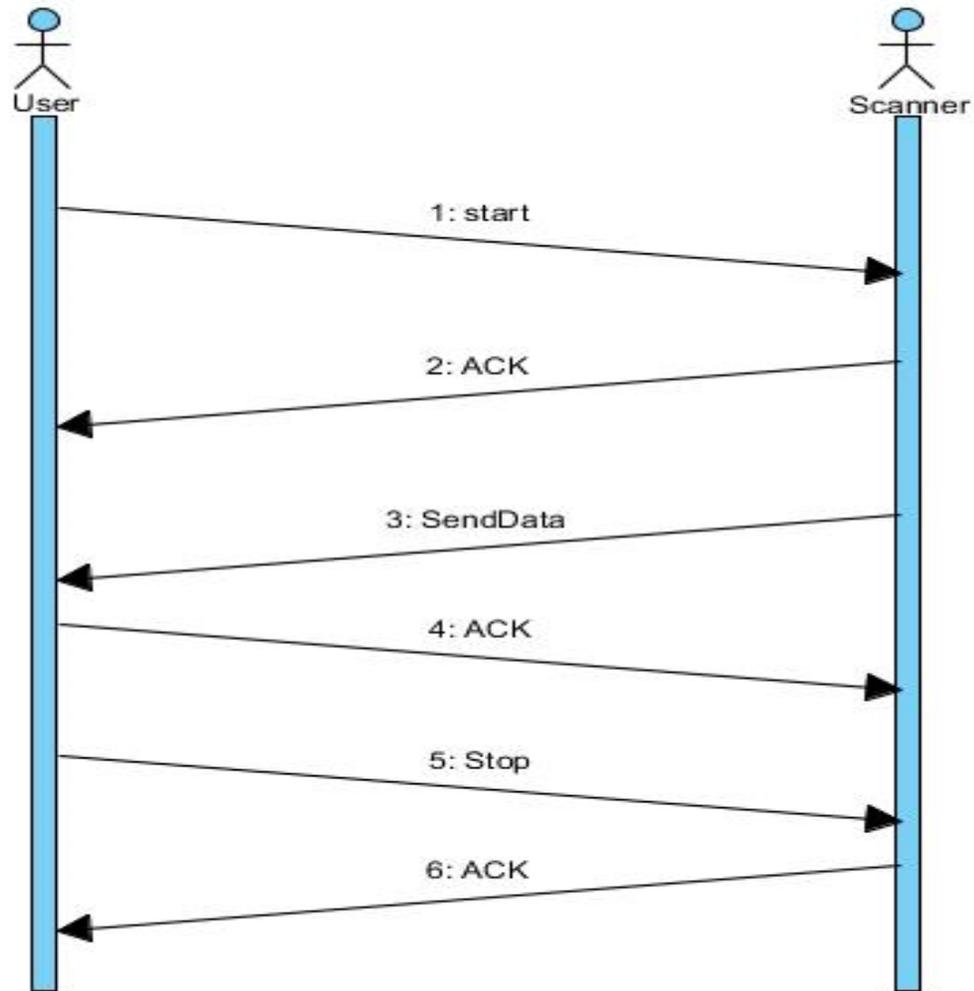
15. Start command
16. Ack packet response
17. Unsolicited Data response packet
18. Ack answer (through Get Data)
19. Stop command
20. Ack packet response

It's worth noting that the unsolicited message sent from the device (*SendData*) is after a *Start* command.

ASYNC protocol mode: decoding Operation using interface APIs

In this image we have the same operation shown above, going through the API interface:
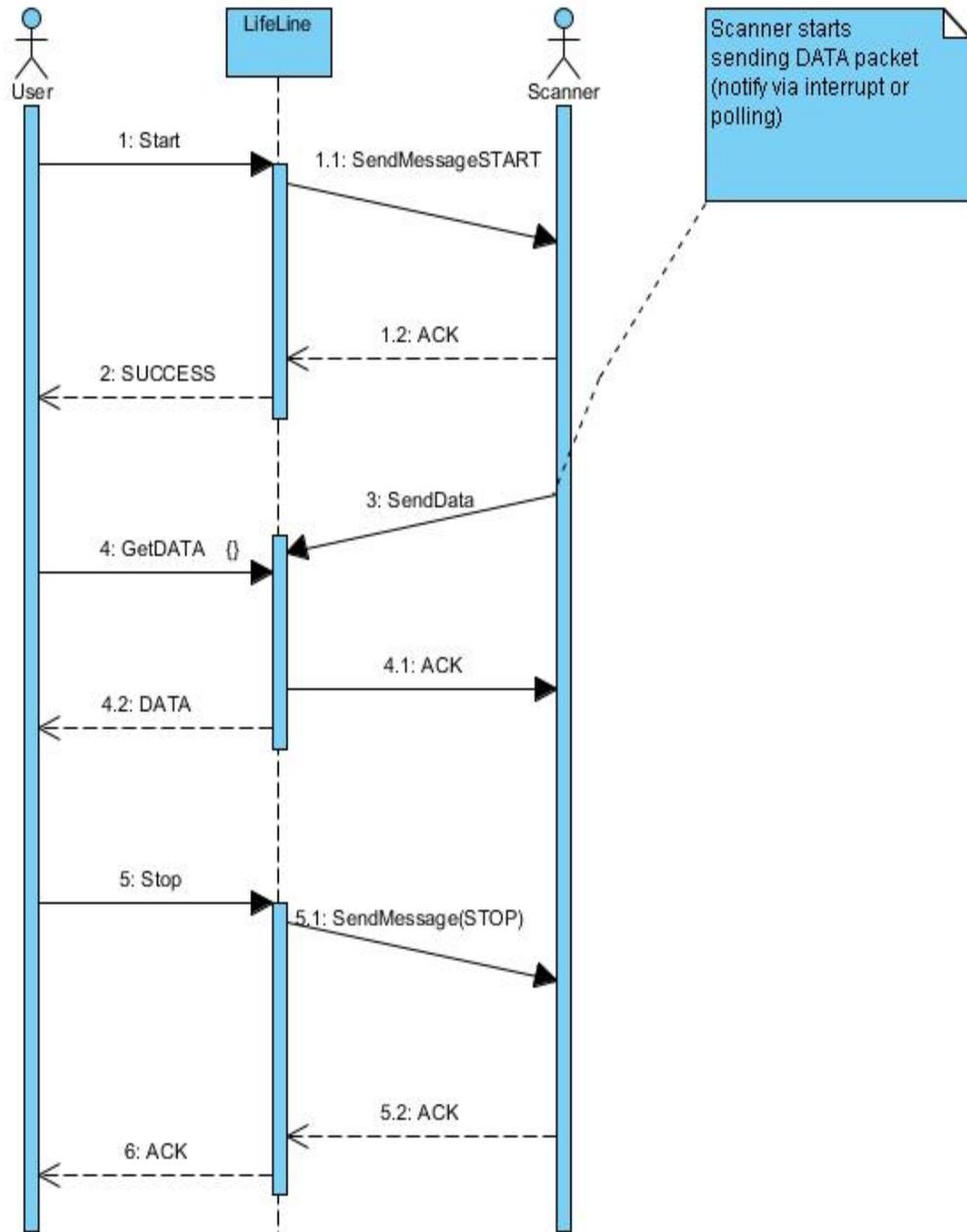
In this image the SendData/GetData process is made clearer by the API interface.

SYNC protocol mode: decoding Operation using interface APIs

In this image we have the same decoding operation shown above, but with the SYNC protocol mode:
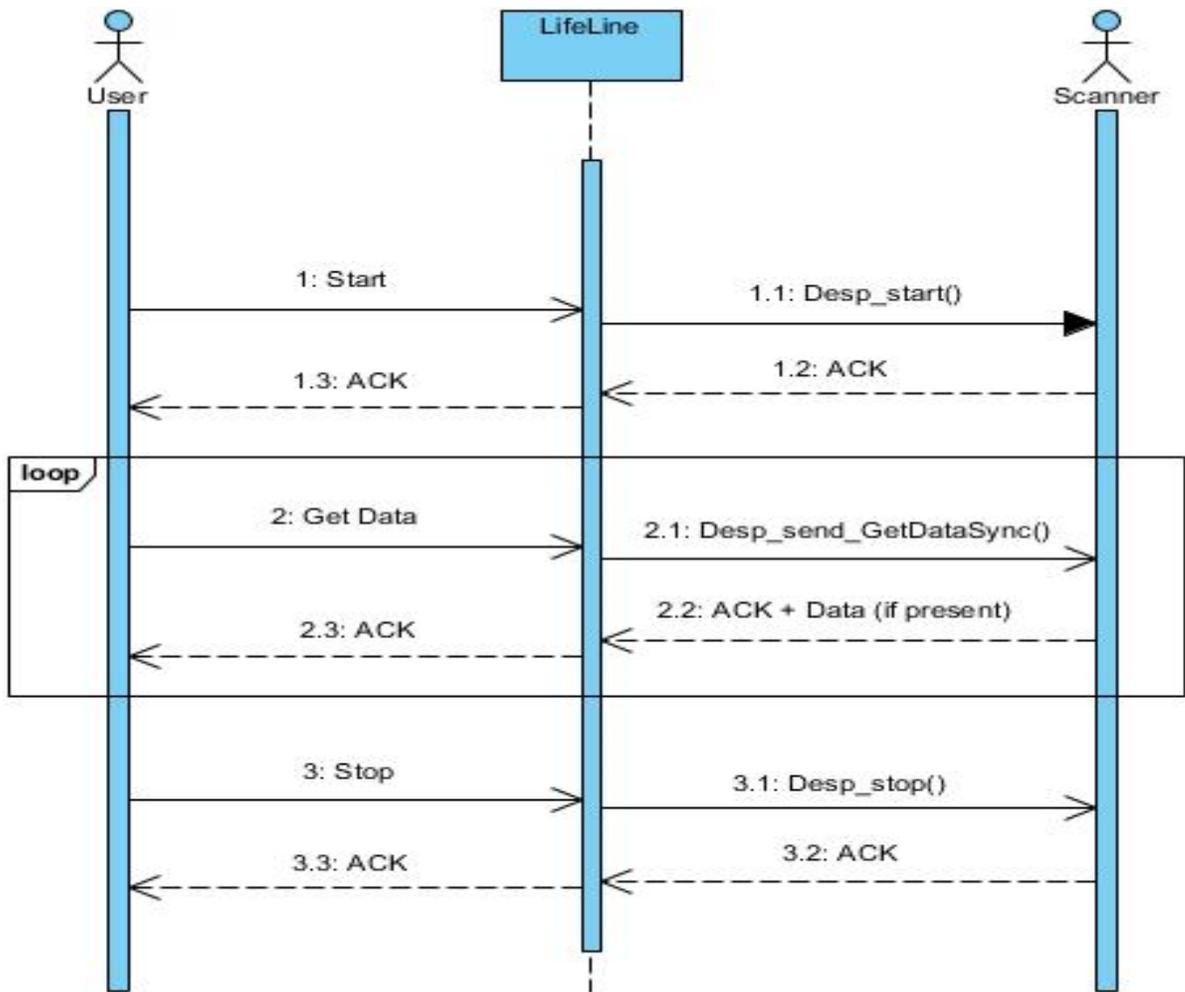
This image makes clear the difference between the SYNC/ASYNC protocol mode: here it is possible to see that the device will never send an unsolicited message, it will only answer to the Desp_send_GetDataSynch() API. If the Scanner has data to send, it will answer with ACK + Data, otherwise a simple ACK means the scanner has no data to send at the moment.

Frame Collision during a command

This image makes clear the use of the sync command in order to reestablish a synchronization point:

The USER sends a stop command to the decoder. At the same time the decoder sends a data Packet (with a Result for example) to the User. At this point both User and decoder receive a bad response from the other side: the User waits for an ACK packet while instead it receives a Data Packet; the decoder waits for an ACK and it receives a stop command instead. In this situation the protocol requires that the User takes the first action.
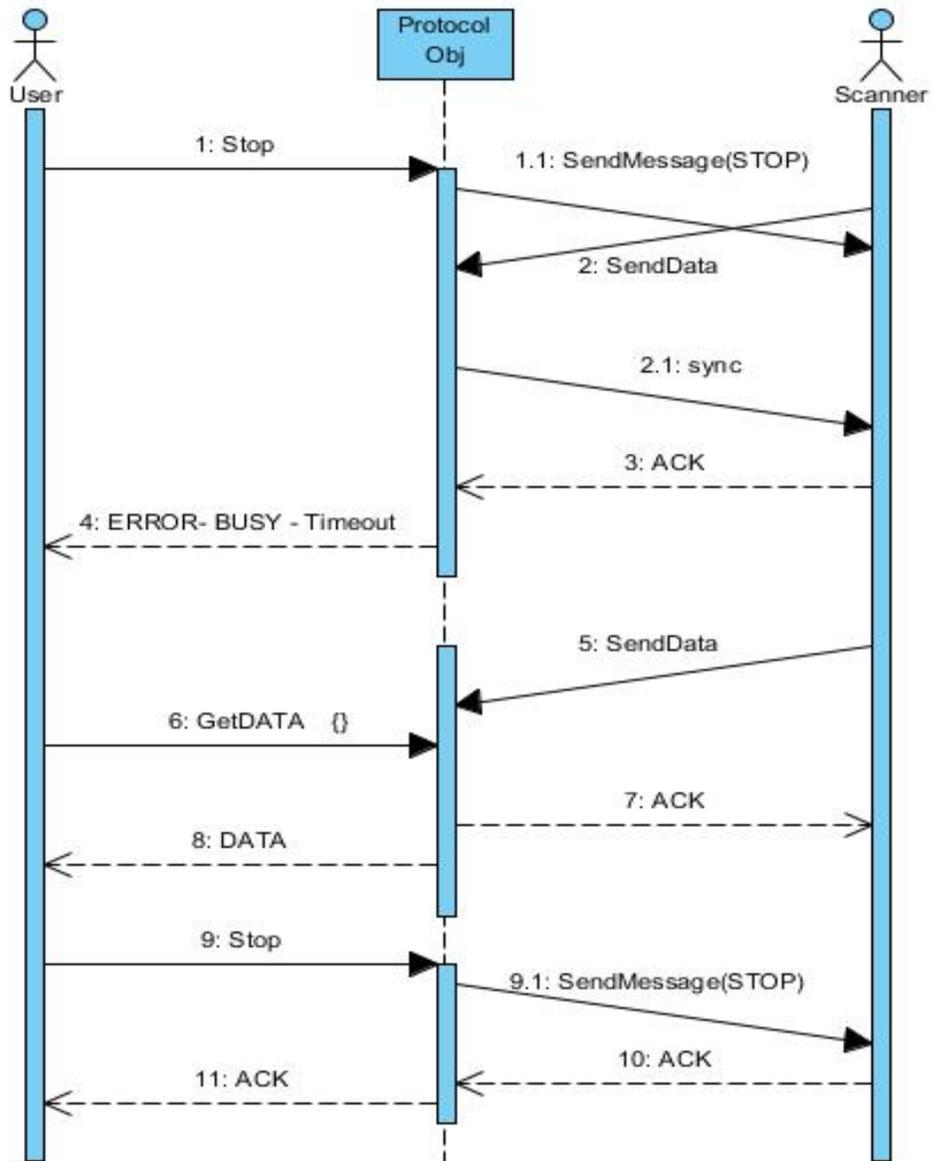
ACK lost

If the host does not receive the ACK packet or the ACK is corrupted, it has to assume the command wasn't received by the other side, so it has to retransmit the entire command and wait again for the ACK packet response.
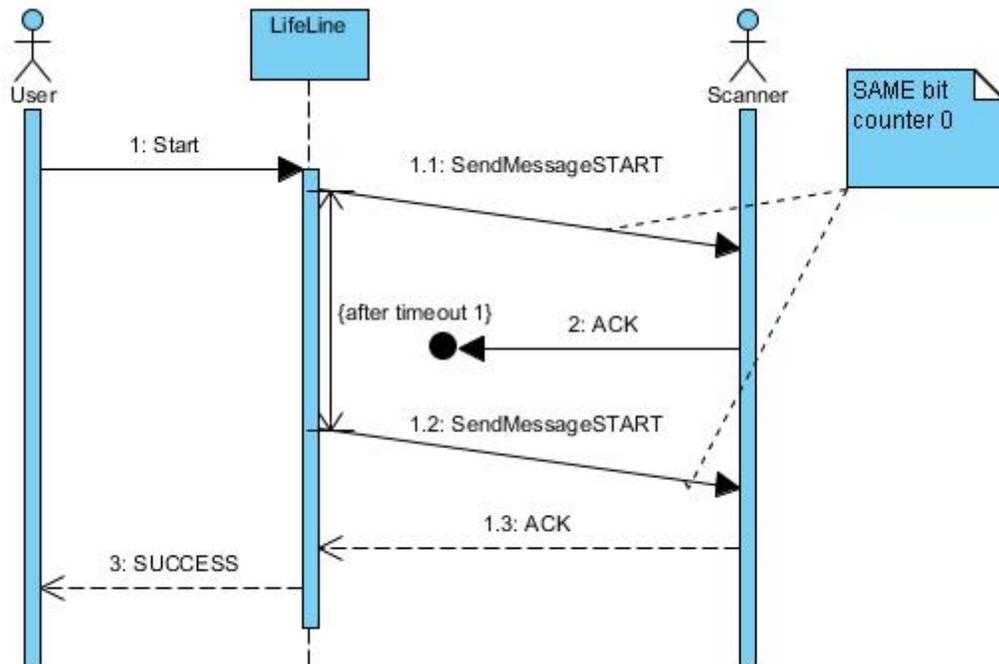
Note that both the Start commands have the same Bit counter.

Other ACK lost scenario: Missing ACK in response to decoder data packet:

If the decoder does not receive an ACK in response to a Data Packet, it has to retransmit the data. This case can happen for two reasons: the ACK was sent but it was received corrupted due to a communication problem or the Host did not receive the data packet at all, and so it did not respond.

In order to cover both situations, the decoder resends the data packet using the same value of the bit Counter (bit 0 of the Flags Filed in the packet header). In the normal communication (no missing ACK) the decoder changes this bit in every transmission, in this way the Host can recognize that two different transmissions are sent by the decoder.

In case the host receives a packet with the same value of bit counter, it knows that the decoder did not receive the ACK and so it sends it again. In case the Host did not receive the Data Packet or it was rejected because it was corrupted, it receives the retransmitted packet as it was in normal operation.

The technique of bit counter is used only for unsolicited data packets coming from the decoder. The Host sets 0 as the value of bit counter in its transmissions.

Example: download an image

First of all, in order to perform this operation, the following configuration has to be done:

Property name	Property ID	Value
Property_ImageChannel_Enable	12040	1
IDPRP_Dolmen_LoService_Communicate_ImageChannel_TxMode	12044	See next table.

Possible ImageChannel TxMode values and description:

Value name	Value	Description
TxMode_NO_TX	0	Transfer not enabled, with this settings the download won't work
TxMode_COMPLETE_MOVIE	1	All captured images
TxMode_ALL_PROCESSED	2	All processed images
TxMode_ONLY_NOT_DECODED	3	Only not decoded images
TxMode_ONLY_DECODED	4	Only decoded images
TxMode_ALL	5	All images
TxMode_ONLY_MISDECODED	6	Only misdecoded images

Note: in order to make the table more readable, we shortened value names, consider that each value name is prefixed with
VALUE_Dolmen_LoService_Communicate_ImageChannel__, e.g.
_VALUE_Dolmen_LoService_Communicate_ImageChannel_TxMode_ALL_PROCESSE D

With the desired configuration, the download process can start:
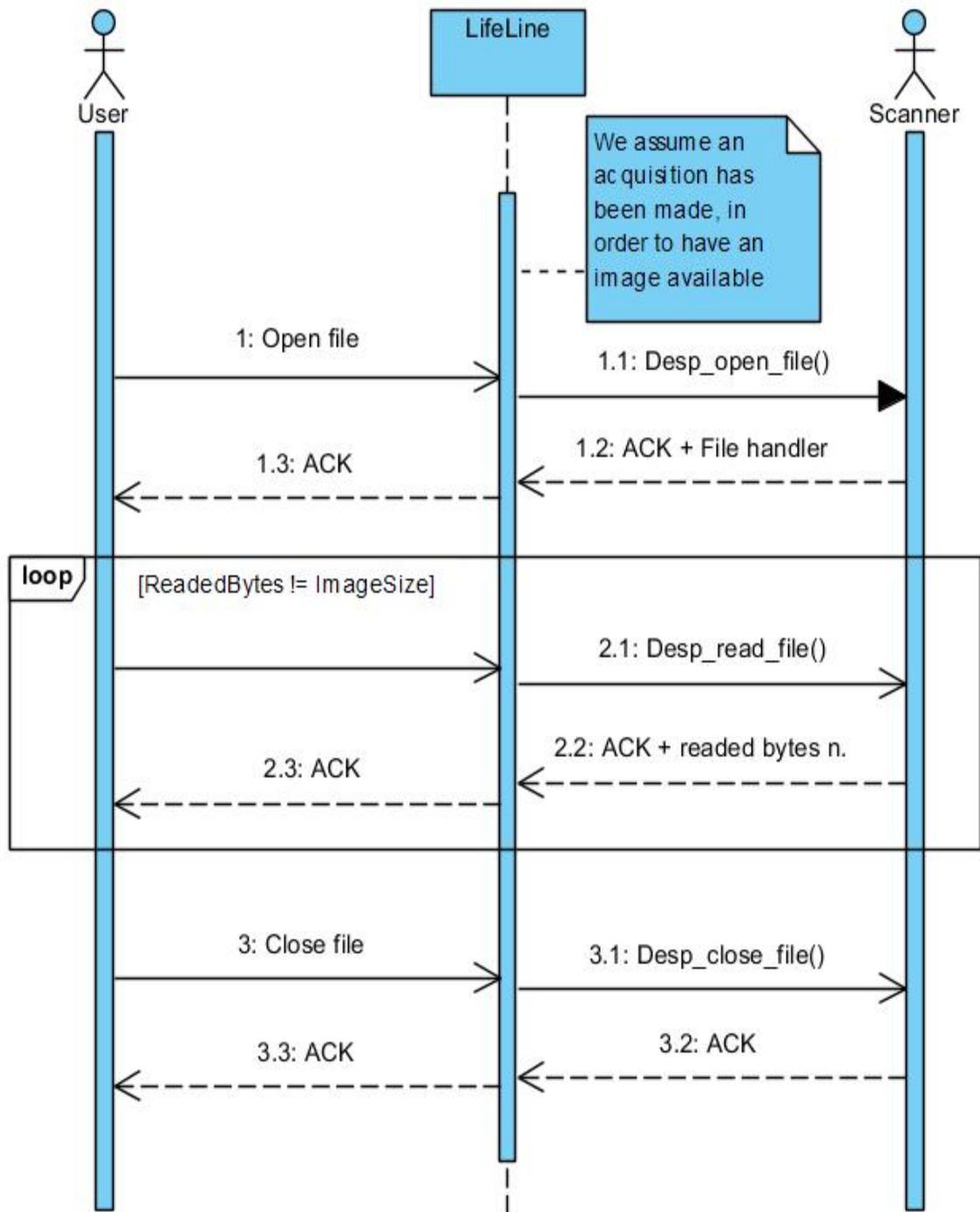
First: start and stop an acquisition phase, in order to allow the scan engine to get images

21. call Desp_open_file
22. call Desp_read_file to get a block of bytes (upto 2K byte block is allowed). We
    loop until we read the whole image

23. call Desp_close_file

Configuration settings

Overview

As mentioned in the previous section, to manage the configuration 6 APIs are involved:

- o *Desp_open_config*
- o *Desp_close_config*
- o *Desp_get_config*
- o *Desp_set_config*

Desp_get_config is a standalone function to get a specific property value, it can be called at any time:
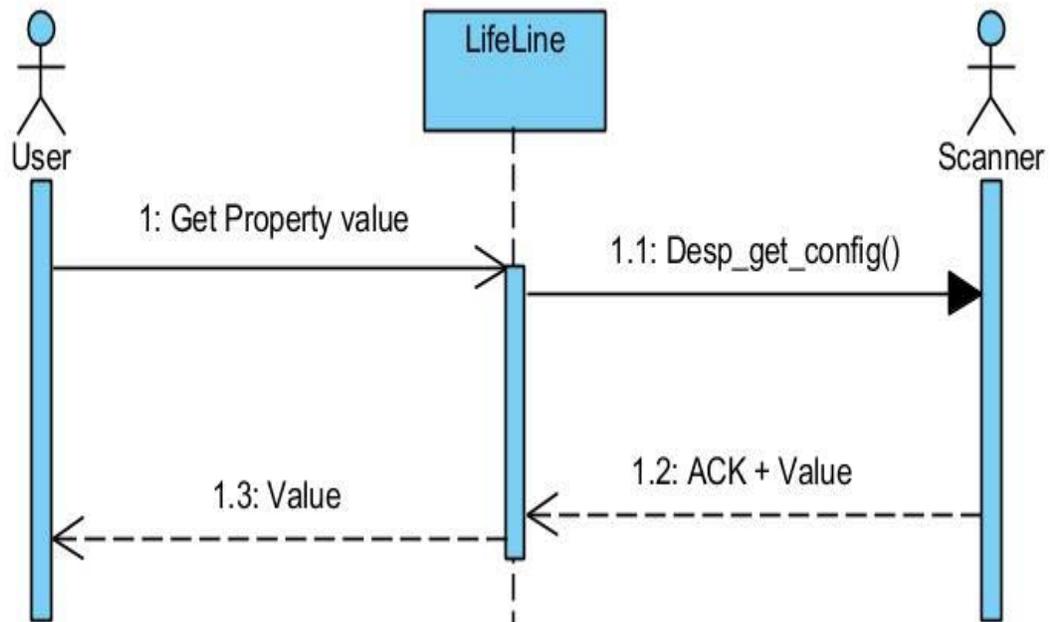
Desp_set_config instead has to be preceded by a *Desp_open_config* command, that opens the configuration mode. Otherwise we'll get an error.

Desp_set_config will be immediately effective, but the new settings won't be written in flash memory until we call *Desp_close_config*, that closes the configuration phase.

Therefore, closing the configuration is necessary if we want to make the new settings persistent for the next restart of the system.

The following image should help the user to better understand this:
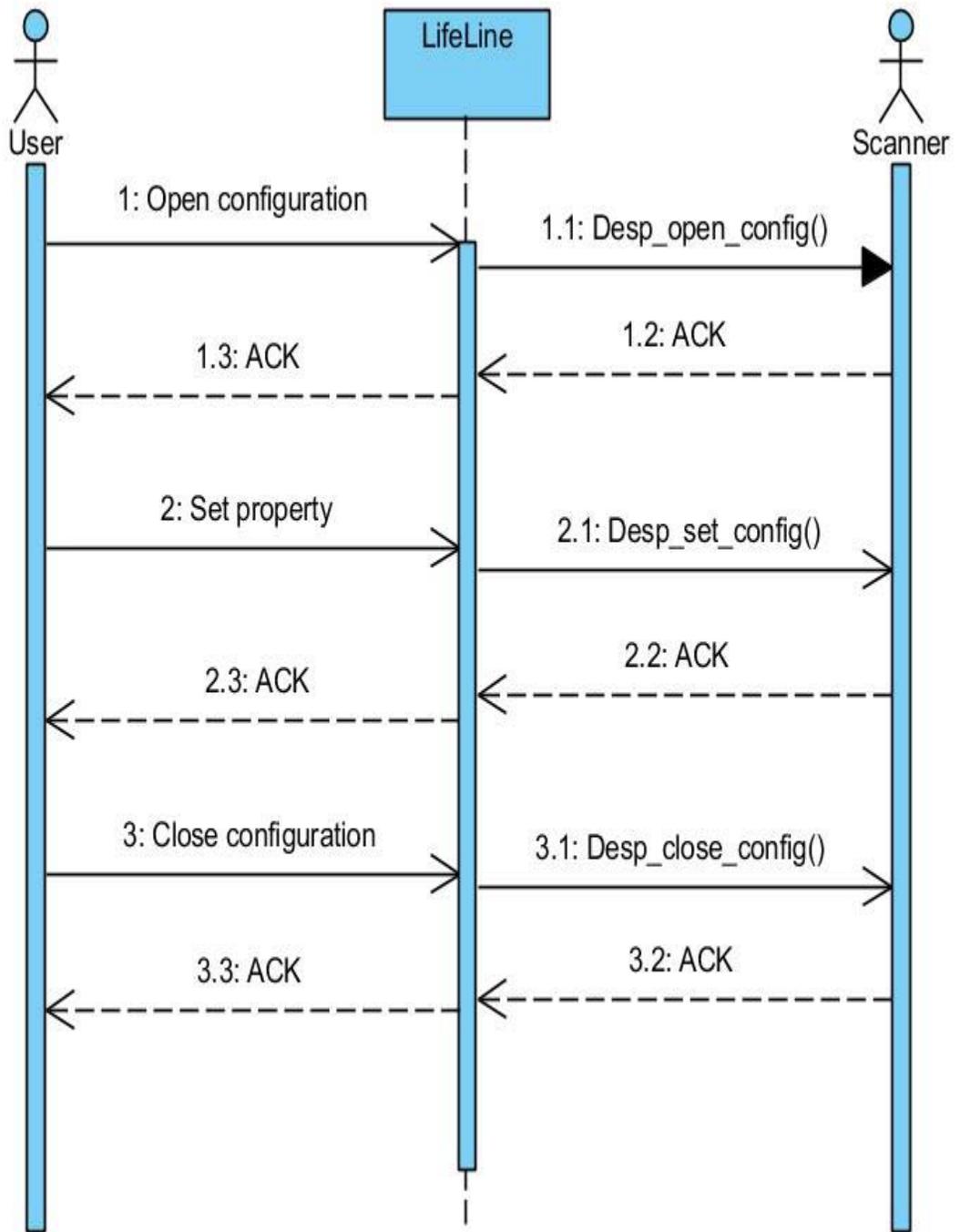
DESP Software Library

DESP is provided as a source library. This library implements the protocol and the user level APIs to interact with the connected device. It is a helper library to enhance the protocol integration.

Getting started

The DESP software library is distributed together with the DemoDespApp (see following section), the same installer will install on your system both the application and the library.

Software Architecture overview

The architecture consists in two main layers:

High Layer:

This layer provides APIs to communicate with the device with a high level of abstraction, the layer incapsulates the protocol and lets the user call the APIs defined in **desp_api.h** to ask the device to do the most common actions: like managing acquisitions, configurations or files.

Low Layer:

Desp_integration_api.h is the main interface of this level, it defines low level APIs that are required to manage the peripherals.

These APIs, working with the physical level, are target dependant and they have to be defined for different targets/peripherals.

Modules:

The modules below are distributed via source code to the user

- o Desp_api.h:
  This file contains APIs defined in User Interface Section
- o DespProp.h:
  This file contains all the configuration properties
- o DespPropVal.h:
  This file contains all the configuration properties possible values.
- o Desp_definition.h
  This contains specific DESP types and MACROs
- o Desp_protocol.h:
  This is the DESP definition
- o Desp_protocol.c:
  This is the DESP implementation

o SymbIds.h:
  This file defines all the bar codes symbologies.
o Desp_integration_api.h:
  This file contains APIs definitions required to integrate DESP to the destination platform physical level.

Desp_api interface

Desp_api.h makes available to the application level functions that maps DESP commands described in the *DESP Commands* section. This is why we'll just show a brief summary of the functions names, relative opcodes and possible return values.

Function	Return Type	Return values
DESP_INT Desp_open(E_DespProtocolVersion DespMode);	DESP_INT	On success: DESP_SUCCESS Otherwise: DESP_NO_RESPONSE DESP_BUSY DESP_PROTOCOL_ERROR DESP_NACK_ARRIVED
DESP_INT Desp_close();	DESP_INT	On success: DESP_SUCCESS Otherwise: DESP_NO_RESPONSE DESP_BUSY DESP_PROTOCOL_ERROR DESP_NACK_ARRIVED
DESP_INT Desp_start();	DESP_INT	On success: DESP_SUCCESS Otherwise: DESP_NO_RESPONSE DESP_BUSY DESP_PROTOCOL_ERROR DESP_NACK_ARRIVED
DESP_INT Desp_stop();	DESP_INT	On success: DESP_SUCCESS Otherwise: DESP_NO_RESPONSE DESP_BUSY DESP_PROTOCOL_ERROR DESP_NACK_ARRIVED
DESP_INT Desp_Suspend();	DESP_INT	On success: DESP_SUCCESS Otherwise: DESP_NO_RESPONSE DESP_BUSY DESP_PROTOCOL_ERROR DESP_NACK_ARRIVED

Function	Return Type	Return values
DESP_INT Desp_Resume();	DESP_INT	On success: DESP_SUCCESS Otherwise: DESP_NO_RESPONSE DESP_BUSY DESP_PROTOCOL_ERROR DESP_NACK_ARRIVED
DESP_INT Desp_get_data(DESP_INFO *pdata);	DESP_INT	On success: DESP_SUCCESS Otherwise: DESP_NO_RESPONSE DESP_BUS_FAILURE DESP_PROTOCOL_ERROR DESP_NACK_ARRIVED DESP_IGNORE
DESP_INT Desp_open_config();	DESP_INT	On success: DESP_SUCCESS Otherwise: DESP_NO_RESPONSE DESP_BUSY DESP_PROTOCOL_ERROR DESP_NACK_ARRIVED
DESP_INT Desp_close_config();	DESP_INT	On success: DESP_SUCCESS Otherwise: DESP_NO_RESPONSE DESP_BUSY DESP_PROTOCOL_ERROR DESP_NACK_ARRIVED
DESP_INT Desp_set_property(const DATA_SET_PROPR *p_in_data);	DESP_INT	On success: DESP_SUCCESS Otherwise: DESP_NO_RESPONSE DESP_BUSY DESP_PROTOCOL_ERROR DESP_NACK_ARRIVED
DESP_INT Desp_set_property2(const DATA_SET_PROPR *p_in_data, DESP_BOOL bOnRam); **(*)**	DESP_INT	On success: DESP_SUCCESS Otherwise: DESP_NO_RESPONSE DESP_BUSY DESP_PROTOCOL_ERROR DESP_NACK_ARRIVED
DESP_INT Desp_get_property(DESP_USHORT PropertyID, DATA_GET_PROPR *p_out_data);	DESP_INT	On success: DESP_SUCCESS Otherwise: DESP_NO_RESPONSE DESP_BUSY

Function	Return Type	Return values
		DESP_PROTOCOL_ERROR DESP_NACK_ARRIVED
DESP_INT Desp_AimOff();	DESP_INT	On success: DESP_SUCCESS Otherwise: DESP_NO_RESPONSE DESP_BUSY DESP_PROTOCOL_ERROR DESP_NACK_ARRIVED
DESP_INT Desp_AimOn();	DESP_INT	On success: DESP_SUCCESS Otherwise: DESP_NO_RESPONSE DESP_BUSY DESP_PROTOCOL_ERROR DESP_NACK_ARRIVED
DESP_INT Desp_RestoreDefaultConfiguration();	DESP_INT	On success: DESP_SUCCESS Otherwise: DESP_NO_RESPONSE DESP_BUSY DESP_PROTOCOL_ERROR DESP_NACK_ARRIVED
DESP_INT Desp_ShutdownDevice();	DESP_INT	On success: DESP_SUCCESS Otherwise: DESP_NO_RESPONSE DESP_BUSY DESP_PROTOCOL_ERROR DESP_NACK_ARRIVED
DESP_INT Desp_send_GetDataSync();	DESP_INT	On success: DESP_SUCCESS Otherwise: DESP_NO_RESPONSE DESP_BUSY DESP_PROTOCOL_ERROR DESP_NACK_ARRIVED
DESP_INT Desp_open_file(DESP_INT* hnd, const DESP_CHAR *pFileName, DESP_INT nFileNameLength);	DESP_INT	On success: Opened file size in Bytes Otherwise: DESP_FAILURE DESP_NO_RESPONSE DESP_BUSY DESP_PROTOCOL_ERROR DESP_NACK_ARRIVED
DESP_INT Desp_write_file(DESP_INT hnd, DESP_INT pos, DESP_INT len, const DESP_UCHAR *pBuf);	DESP_INT	On success: Written bytes number Otherwise: DESP_FAILURE

Function	Return Type	Return values
		DESP_NO_RESPONSE DESP_BUSY DESP_PROTOCOL_ERROR DESP_NACK_ARRIVED
DESP_INT Desp_read_file(DESP_INT hnd, DESP_INT pos, DESP_INT len, DESP_UCHAR *pBuf);	DESP_INT	On success: Read bytes number Otherwise: DESP_FAILURE DESP_NO_RESPONSE DESP_BUSY DESP_PROTOCOL_ERROR DESP_NACK_ARRIVED
DESP_INT Desp_close_file(DESP_INT hnd);	DESP_INT	On success: DESP_SUCCESS Otherwise: DESP_NO_RESPONSE DESP_BUSY DESP_PROTOCOL_ERROR DESP_NACK_ARRIVED
DESP_INT Desp_GlobalEnable();	DESP_INT	On success: DESP_SUCCESS Otherwise: DESP_NO_RESPONSE DESP_BUSY DESP_PROTOCOL_ERROR DESP_NACK_ARRIVED
DESP_INT Desp_GlobalDisable();	DESP_INT	On success: DESP_SUCCESS Otherwise: DESP_NO_RESPONSE DESP_BUSY DESP_PROTOCOL_ERROR DESP_NACK_ARRIVED

(*) Desp_set_property2(), further details:

This API differs from Desp_set_property(), because of the extra parameter DESP_BOOL bOnRam. Setting this parameter to DESP_TRUE will make the set property effective only in ram, i.e. nothing will be saved on flash and it won't be persistent at the next boot.

Note: The SYNC command is autonomously sent by the protocol when a desynchronization is detected. See the DESP Protocol documentation for further details.

As it's clear, DESP uses custom data types, see *Desp_definition.h* section and *Desp_api.h* source code for a complete reference and implementation details.

DespProp.h and DespPropVal.h

These files contain all the configurable properties and the relative possible values. Refer to *Properties table* under the *Configuration settings* section of this guide for details.

Desp_definition.h

In this header file we find some specific DESP definitions, about DESP types and DESP response codes MACROs.

DESP Type	Type
DESP_INT	int32_t
DESP_UINT	uint32_t
DESP_SHORT	int16_t
DESP_USHORT	uint16_t
DESP_CHAR	char
DESP_UCHAR	unsigned char
DESP_VOID	void
DESP_BOOL	DESP_UCHAR

The following MACROs defining DESP functions return values are very useful during Debug work:

DESP Response Code	Value
DESP_SUCCESS	0
DESP_SUCCESS_MORE_DATA	1
DESP_NO_RESPONSE	(-1)
DESP_BUS_FAILURE	(-2)
DESP_FAILURE	(-3)
DESP_BUSY	(-4)
DESP_IGNORE	(-5)
DESP_RESET	(-6)
DESP_PROTOCOL_ERROR	(-7)
DESP_NACK_ARRIVED	(-8)
DESP_READ_TIMEOUT	(-20)
DESP_READ_ERROR	(-21)
DESP_READ_BAD_CRC	(-22)
DESP_READ_WRONG_LEN	(-23)
DESP_READ_NO_ROOM	(-24)

Desp_api_integration interface

As explained, this interface makes available the low level DESP APIs. It is composed of 3 platform dependent APIs that have to be implemented in order to have the protocol work.

- o DESP_INT desp_ll_write(DESP_CHAR c);
- o DESP_INT desp_ll_read(DESP_CHAR *c);
- o DESP_INT desp_ll_flush();

API	Brief description	Return value
desp_ll_write	writes a single character (byte) to the peripheral	On success: DESP_SUCCESS Otherwise: DESP_NO_RESPONSE (timeout triggered) DESP_BUS_FAILURE
desp_ll_read	reads a single character (byte) from the peripheral	On success: DESP_SUCCESS Otherwise: DESP_NO_RESPONSE (timeout triggered) DESP_BUS_FAILURE
desp_ll_flush	flushes all characters of previous write operations	On success: DESP_SUCCESS Otherwise: DESP_BUS_FAILURE

Simplified Software Trigger

The Desp protocol also supports a simplified trigger mode. This provides a simple mechanism to trigger the scanner.

In order to utilize the Simplified Trigger it is recommended to set parameter 26548 EventsDispatch to 0 and parameter 26549 PlainResult to 1.

Enabling and Customizing

The simplified trigger mode is defined by 2 parameters. The first is parameter 26552 **CustomSwTriggerCommand**.   This defines the string which will be used to trigger the scanner. The default is 0x58 ("X" char).

This string property can be set to any value using this property, and this will trigger the scanners read phase.

The second parameter is parameter 26553 **CustomSwTriggerResponse.** This defines the string the scanner will return when it receives the CustomSwTriggerCommand string.

By default, this string property is set to empty, this means no ACK will be received after the custom software trigger.

It is worth noting that since we are out of a DESP connected session, all packets won't have any DESP header and CRC. It is also worth noting that the CustomSwTriggerCommand will be inquired if the scanner is inside a Desp connected session. If inside a Desp connected session the Close command should be sent before sending the CustomSwTriggerCommand string.

As already said, inside a classic DESP connected section everything described in this manual remains exactly the same, these properties have no effect at all.

Example workflow to set custom Trigger or Response packets

The configuration function is available only in Connected mode, therefore it is necessary to open the DESP protocol and follow the usual DESP configuration process:

1. Desp_open() to enter in connection mode.
2. Desp_open_config() to enter the configuration process.
3. Desp_set_property() to set the property.
4. Desp_close_config() to close the configuration process.
5. Desp_close() to exit in connection mode.

See next chapter for a step by step guide.

The basic operation of sending the CustomSwTriggerCommand is shown below:

1. User sends the Sw Trigger Command Packet.
2. The decoder sends the Sw Trigger Response Packet (if defined, see below)
3. Decoder starts decoding
4. If a barcode is decoded, the Decoder sends the result in plain format, without any formatting, just the barcode content
5. The user can start again from point 1.

Forbidden Strings

Due to compatibility issues a strings family is not allowed and the relative set property will be rejected:

o 0x20 [...]: Strings of any length starting by 0x20 byte

Develop using DESP: C++ testSample

The DESP SDK provides a working sample to develop your own Desp application in C++.

Running the *build.bat* file, available at the path <_sdk_installation_path>/Desp_sdk/Desp/Example/Windows/ will generate the executable in <_sdk_installation_path>/Desp_sdk/Desp/Example/Windows/w32/Debug/

This application will run a very simple test through the main DESP functions: Configuration, Acquisition, Decoding and Image Download.

This application and the provided code are meant to be a starting point for the developers who wants to start to implement their own application.

Configuration Properties List

Trace

PROPERTY_Trace_Enable 60	Public
-	
Property values	
Name	**Value**
Trace_Enable_Enable	1
Trace_Enable_Disable	0
Trace_Enable_Default	0

Info

PROPERTY_Info_FamilyName 150	Public
Product family name (product line name)	
Property values	
Name	**Value**
Info_FamilyName_Default	
PROPERTY_Info_SwApplicationVersion 152	**Public**
SW version (global project version)	
Property values	

PROPERTY_Info_FamilyName 150	Public
Name	**Value**
Info_SwApplicationVersion_Default	

PROPERTY_CompatibilityID 256	Public
Number used by driver to identify different kind of incompatible HW	
Property values	
Name	**Value**
CompatibilityID_Default	0

Launcher

PROPERTY_Launcher_Version 301	Public
-	
Property values	
Name	**Value**
Launcher_Version_Default	

Bootloader

PROPERTY_Bootloader_Version 326	Public
-	
Property values	
Name	**Value**
Bootloader_Version_Default	

DiagnosticManager

PROPERTY_DiagnosticManager_AutomaticInterval 462	Public
Interval between automatic diagnostic mode (ms)	
Property values	
Name	**Value**
DiagnosticManager_AutomaticInterval_Default	5000

PROPERTY_DiagnosticManager_Enabled 463	Public
Enable/Disable diagnostics	
Property values	
Name	**Value**

PROPERTY_DiagnosticManager_AutomaticInterval 462	Public
DiagnosticManager_Enabled_Disabled	0
DiagnosticManager_Enabled_Enabled	1
DiagnosticManager_Enabled_Default	0

PROPERTY_DiagnosticManager_Log 464	Public
Manually trigger diagnostic log	
Property values	
Name	**Value**
DiagnosticManager_Log_Default	0

USART

PROPERTY_USART_PhysicalPort 4401	Public
Physical port ID (for a PC is the COMnn port)	
Property values	
Name	**Value**
USART_PhysicalPort_Default	1

PROPERTY_USART_BaudRate 4402	Public
Symbol frequency of serial transmission	
Property values	
Name	**Value**
USART_BaudRate__1200	1200
USART_BaudRate__2400	2400
USART_BaudRate__4800	4800
USART_BaudRate__9600	9600
USART_BaudRate__19200	19200
USART_BaudRate__38400	38400
USART_BaudRate__57600	57600
USART_BaudRate__115200	115200
USART_BaudRate__230400	230400
USART_BaudRate__460800	460800
USART_BaudRate_Default	115200

PROPERTY_USART_Parity 4403	Public
Parity bits definitions of serial transmission	
Property values	

Name	Value
USART_Parity_NONE	0
USART_Parity_ODD	1
USART_Parity_EVEN	2
USART_Parity_Default	0

PROPERTY_USART_DataSize 4404	Public
Size of serial data (number of bits)	
Property values	

Name	Value
USART_DataSize__7	7
USART_DataSize__8	8
USART_DataSize__9	9
USART_DataSize_Default	8

PROPERTY_USART_StopBit 4405	Public
Stop bit length definition	
Property values	

Name	Value
USART_StopBit__1	0
USART_StopBit__05	1
USART_StopBit__15	2
USART_StopBit__2	3
USART_StopBit_Default	0

Sensor properties

PROPERTY_ScanEngine_AIM_Enable 7011	Public
Turns the aim pattern on and off during reading phase (always off during exposition)	
Property values	

Name	Value
ScanEngine_AIM_Enable_Enable	1
ScanEngine_AIM_Enable_Disable	0
ScanEngine_AIM_Enable_Default	1

PROPERTY_ScanEngine_AIM_DuringExposure 7012	Public

PROPERTY_ScanEngine_AIM_Enable 7011	Public

This keeps the aiming pattern on when capturing an image, meaning the pattern is visible in the image

Property values

Name	Value
ScanEngine_AIM_DuringExposure_Enable	1
ScanEngine_AIM_DuringExposure_Disable	0
ScanEngine_AIM_DuringExposure_Default	0

PROPERTY_ScanEngine_AutoPowerLevel 7013	Public

Enable automatic power saving

Property values

Name	Value
ScanEngine_AutoPowerLevel_Enable	1
ScanEngine_AutoPowerLevel_Disable	0
ScanEngine_AutoPowerLevel_Default	0

PROPERTY_ScanEngine_Illumination_Enable 7014	Public

Turns illumination on and off

Property values

Name	Value
ScanEngine_Illumination_Enable_Enable	1
ScanEngine_Illumination_Enable_Disable	0
ScanEngine_Illumination_Enable_Default	1

PROPERTY_ScanEngine_Illumination_Duration 7015	Public

Sets the illumination lamp duration

Property values

Name	Value
ScanEngine_Illumination_Duration_Automatic	-1
ScanEngine_Illumination_Duration_Default	-1

PROPERTY_ScanEngine_LowPowerEnable 7016	Public

Enable Low Power level for Camera. 0 = Disable (FULL Power) 1 = Enable (Low Power)

Property values

Name	Value
ScanEngine_LowPowerEnable_Enable	1
ScanEngine_LowPowerEnable_Disable	0
ScanEngine_LowPowerEnable_Default	0

PROPERTY_ScanEngine_SetAutoPowerTimeout 7017	Public

Sets the length of time the Camera is idle before entering low power mode. 0x01* - 0x0A = 10-100 ms, 10 ms increments 0x0B - 0x14 = 100-900 ms, 100 ms increments 0x15 - 0xFF = 1s - 235 s, 1 s increments 0x00 = 5 ms

Property values

Name	Value
ScanEngine_SetAutoPowerTimeout_Default	0

PROPERTY_ScanEngine_GetModelName 7018	Public

Get Module Name

Property values

Name	Value
ScanEngine_GetModelName_Default	

PROPERTY_ScanEngine_GetFwVersion 7019	Public

Get Module Firmware Version

Property values

Name	Value
ScanEngine_GetFwVersion_Default	

PROPERTY_ScanEngine_GetModuleNameID 7020	Public

Get Module Name ID Unique identify of the connected module

Property values

Name	Value
ScanEngine_GetModuleNameID_Unknown	0
ScanEngine_GetModuleNameID_DE2011	1
ScanEngine_GetModuleNameID_SE4500	2
ScanEngine_GetModuleNameID_DE2012	3
ScanEngine_GetModuleNameID_DE1011	4
ScanEngine_GetModuleNameID_M1_640x480	5
ScanEngine_GetModuleNameID_M2_748x478	6
ScanEngine_GetModuleNameID_DE2101	7
ScanEngine_GetModuleNameID_DE2102	8
ScanEngine_GetModuleNameID_DE2171_AF	9
ScanEngine_GetModuleNameID_DB0431	10
ScanEngine_GetModuleNameID_M3_640x480	11
ScanEngine_GetModuleNameID_M4_1280x800	12
ScanEngine_GetModuleNameID_RESERVED	-1
ScanEngine_GetModuleNameID_Default	0

PROPERTY_ScanEngine_Control 7021	Public

Turn on/off the illumination and/or AIM out of acquisition. 0 = OFF 1 = AIM ON 2 = ILLUMINATOR on 3 = BOTH ON

Property values

Name	Value
ScanEngine_Control_BOTH_OFF	0
ScanEngine_Control_AIM_ON	1
ScanEngine_Control_ILLUMINATOR_ON	2
ScanEngine_Control_BOTH_ON	3
ScanEngine_Control_Default	0

PROPERTY_ScanEngine_GetCompatibilityId 7025	Public

GetCompatibilityId

Property values

Name	Value
ScanEngine_GetCompatibilityId_Default	0

PROPERTY_ScanEngine_GetSerialNumber 7028	Public

-

Property values

Name	Value
ScanEngine_GetSerialNumber_Default	

PROPERTY_ScanEngine_RestorePropertyOnResume 7031	Public

Re-send properties when scan engine exits from low-power

Property values

Name	Value
ScanEngine_RestorePropertyOnResume_DoNotRestore	0
ScanEngine_RestorePropertyOnResume_Restore	1
ScanEngine_RestorePropertyOnResume_Default	0

PROPERTY_ScanEngine_GetCameraModelNumber 7032	Public

-

Property values

Name	Value
ScanEngine_GetCameraModelNumber_Default	

PROPERTY_ScanEngine_GetManifactureDate 7033	Public

-

Property values

PROPERTY_ScanEngine_GetCameraModelNumber 7032	Public
Name	**Value**
ScanEngine_GetManifactureDate_Default	

PROPERTY_ScanEngine_GetServiceDate 7034	Public
-	
Property values	

Name	**Value**
ScanEngine_GetServiceDate_Default	

PROPERTY_ScanEngine_GetFwVersionReport 7035	Public
-	
Property values	

Name	**Value**
ScanEngine_GetFwVersionReport_Default	

PROPERTY_ScanEngine_GetBootloaderVersion 7036	Public
-	
Property values	

Name	**Value**
ScanEngine_GetBootloaderVersion_Default	

PROPERTY_ScanEngine_GetCameraIdNumber 7037	Public
-	
Property values	

Name	**Value**
ScanEngine_GetCameraIdNumber_Default	0

PROPERTY_ScanEngine_GetDeviceClass 7038	Public
-	
Property values	

Name	**Value**
ScanEngine_GetDeviceClass_Default	

PROPERTY_ScanEngine_GetGUID 7039	Public
-	
Property values	

Name	**Value**
ScanEngine_GetGUID_Default	

PROPERTY_ScanEngine_GetPCBNumber 7040	Public
-	
Property values	

Name	Value
ScanEngine_GetPCBNumber_Default	

PROPERTY_ScanEngine_GetCpldVersion 7041	Public
-	
Property values	

Name	Value
ScanEngine_GetCpldVersion_Default	

PROPERTY_ScanEngine_GetOpticalChamberSN 7043	Public
-	
Property values	

Name	Value
ScanEngine_GetOpticalChamberSN_Default	

PROPERTY_ScanEngine_GetDefaultScanengineIlluminationDuration 7045	Public
-	
Property values	

Name	Value
ScanEngine_GetDefaultScanengineIlluminationDuration_Default	-1

PROPERTY_ScanEngine_ForceLaserOnDuringAlwaysOn 7051	Public
Forces laser in always-on scanmode (only valid for scanengines that do not automatically manage the thermal protection)	
Property values	

Name	Value
ScanEngine_ForceLaserOnDuringAlwaysOn_AimDisabled	0
ScanEngine_ForceLaserOnDuringAlwaysOn_AimForcedEnabled	1
ScanEngine_ForceLaserOnDuringAlwaysOn_Default	0

PROPERTY_ScanEngine_AnalogGain 7052	Public
Analog Gain. Value 1 is 1x, value 8 is 8x	
Property values	

Name	Value
ScanEngine_AnalogGain_Default	1

PROPERTY_ScanEngine_ExposureTimeUs 7053	Public
Exposure Time in microseconds	
Property values	

Name	Value
ScanEngine_ExposureTimeUs_Default	1000

PROPERTY_ScanEngine_AecAgcControl 7054	Public
This property sets Gain and Exposure automatic or manual. 1= Auto, 0 = Manual	
Property values	

Name	Value
ScanEngine_AecAgcControl_Automatic	1
ScanEngine_AecAgcControl_Manual	0
ScanEngine_AecAgcControl_Default	1

Trigger

PROPERTY_Trigger_EnableOnlyAtBoot 7144	Public
Enable Trigger functionality at boot (only initial state). It's in Logical-AND with Enable property	
Property values	

Name	Value
Trigger_EnableOnlyAtBoot_Default	1

PROPERTY_Trigger_UserLightEnable 7145	Public
Enable Trigger LED for User immediate feedback	
Property values	

Name	Value
Trigger_UserLightEnable_Default	1

ExternalScanEngine

PROPERTY_ExternalScanEngine_LowPowerManagement 7342	Public
Property that manages the behavior of lowpower.	
Property values	

Name	Value
ExternalScanEngine_LowPowerManagement_AutomaticInternalControl	0
ExternalScanEngine_LowPowerManagement_ManualExternalControl	1
ExternalScanEngine_LowPowerManagement_Default	0

PROPERTY_ExternalScanEngine_LowPowerManagement 7342	Public
PROPERTY_ExternalScanEngine_PowerDownManagement 7343	**Public**

Property that manages the behaviour of power down.	
Property values	
Name	**Value**
ExternalScanEngine_PowerDownManagement_DoNothing	0
ExternalScanEngine_PowerDownManagement_ReconnectComunication	1
ExternalScanEngine_PowerDownManagement_DeepLowPower	2
ExternalScanEngine_PowerDownManagement_Default	0

PictureContrastCalc

PROPERTY_PictureContrastCalculator_Version 7434	**Public**
CPLD version (READ ONLY)	
Property values	
Name	**Value**
PictureContrastCalculator_Version_Default	

LensPositioner

PROPERTY_LensPositioner_Version 7463	**Public**
Motor version (READ ONLY)	
Property values	
Name	**Value**
LensPositioner_Version_Default	

LaserAim

PROPERTY_LaserAim_Enable 7532	**Public**
Enable Aimer functionality (initial state and when it's set)	
Property values	
Name	**Value**
LaserAim_Enable_Default	1
PROPERTY_LaserAim_Mode 7533	**Public**

Possible modes: AimTrigger(1): during Reading phase(TriggerOn->TriggerOFF) AIM is ON (if enabled), out of Reading phase AIM follows DigitalInput; AimOnly(2): AIM (if Enabled) follows DigitalInput, in or out Reading phase; AimTriggerCont(3): like

PROPERTY_LaserAim_Enable 7532	Public

AimTrigger, but out of Reading phase AIM is switched on with Continuous Current (instead of impulsed); AimOnlyCont(4): like AimOnly, but out of Reading phase AIM is switched on with Continuous Current (instead of impulsed)

Property values

Name	Value
LaserAim_Mode_AimTrigger	1
LaserAim_Mode_AimOnly	2
LaserAim_Mode_AimTriggerCont	3
LaserAim_Mode_AimOnlyCont	4
LaserAim_Mode_Default	1

PROPERTY_LaserAim_EnableOnlyAtBoot 7534	Public

Enable Aimer functionality at boot (only initial state). It's in Logical-AND with Enable property

Property values

Name	Value
LaserAim_EnableOnlyAtBoot_Default	1

PROPERTY_AIM_DelayStart 7536	Public

AIM delay after the trigger before it turns on (expressed in ER)

Property values

Name	Value
AIM_DelayStart_Default	0

PROPERTY_AIM_DelayStop 7537	Public

AIM delay after the trigger before it turns off (expressed in ER)

Property values

Name	Value
AIM_DelayStop_Default	256

PROPERTY_AIM_AcquisitionMode 7538	Public

AIM desired behavior during the Acquisition phase

Property values

Name	Value
AIM_AcquisitionMode_Default	2

Illuminator_extension

PROPERTY_NFI_DelayStart 8000	Public
Near Field Illuminator delay after the trigger before it turns on (expressed in ER)	
Property values	

Name	Value
NFI_DelayStart_Default	0

PROPERTY_NFI_DelayStop 8001	Public
Near Field Illuminator delay after the trigger before it turns off (expressed in ER)	
Property values	

Name	Value
NFI_DelayStop_Default	256

PROPERTY_NFI_AcquisitionMode 8002	Public
Near Field Illuminator desired behavior during the Acquisition phase	
Property values	

Name	Value
NFI_AcquisitionMode_Default	6

PROPERTY_FFI_DelayStart 8003	Public
Far Field Illuminator delay after the trigger before it turns on (expressed in ER)	
Property values	

Name	Value
FFI_DelayStart_Default	0

PROPERTY_FFI_DelayStop 8004	Public
Far Field Illuminator delay after the trigger before it turns off (expressed in ER)	
Property values	

Name	Value
FFI_DelayStop_Default	256

PROPERTY_FFI_AcquisitionMode 8005	Public
Far Field Illuminator desired behavior during the Acquisition phase	
Property values	

Name	Value
FFI_AcquisitionMode_Default	6

PROPERTY_OBI_DelayStart 8006	Public
Off Board Illuminator delay after the trigger before it turns on (expressed in ER)	
Property values	

Name	Value
OBI_DelayStart_Default	0

PROPERTY_OBI_DelayStart 8006	Public

PROPERTY_OBI_DelayStop 8007	Public
Off Board Illuminator delay after the trigger before it turns off (expressed in ER)	
Property values	

Name	Value
OBI_DelayStop_Default	256

PROPERTY_OBI_AcquisitionMode 8008	Public
Off Board Illuminator desired behavior during the Acquisition phase	
Property values	

Name	Value
OBI_AcquisitionMode_Default	6

ResultChannel

PROPERTY_ResultChannel_TransmissionType 12007	Public
Specify result information that will be sent through communication channel	
Property values	

Name	Value
ResultChannel_TransmissionType_Minimal1D	1
ResultChannel_TransmissionType_Minimal2D	2
ResultChannel_TransmissionType_Extended2D	3
ResultChannel_TransmissionType_Extended2DWithGrading	4
ResultChannel_TransmissionType_Complete	254
ResultChannel_TransmissionType_Default	1

ImageChannel

PROPERTY_ImageChannel_TxMode 12044	Public
-	
Property values	

Name	Value
ImageChannel_TxMode_NO_TX	0
ImageChannel_TxMode_COMPLETE_MOVIE	1
ImageChannel_TxMode_ALL_PROCESSED	2
ImageChannel_TxMode_ONLY_NOT_DECODED	3
ImageChannel_TxMode_ONLY_DECODED	4

PROPERTY_ImageChannel_TxMode 12044	Public
ImageChannel_TxMode_ALL	5
ImageChannel_TxMode_ONLY_MISDECODED	6
ImageChannel_TxMode_Default	0

ConfigurationParser

PROPERTY_ConfigurationParser_ProgramLabelDestination 12230	Public
This property distinguishes READER behavior (value 0), which process ProgrammingLabels, from SCANENGINE behavior (otherwise), which doesn't process ProgrammingLabels	
Property values	

Name	Value
ConfigurationParser_ProgramLabelDestination_MYSELF	0
ConfigurationParser_ProgramLabelDestination_Default	0

ReadyReporter

PROPERTY_ReadyReporter_BeepOnPwrOn 12354	Public
This property allows or denies the device to emit power on beep sound	
Property values	

Name	Value
ReadyReporter_BeepOnPwrOn_Default	0

Processing

PROPERTY_ConfigurationSymbology 16002	Public
-	
Property values	

Name	Value
ConfigurationSymbology_None	0
ConfigurationSymbology_Datamatrix	9900
ConfigurationSymbology_Code128	9904
ConfigurationSymbology_Both	1
ConfigurationSymbology_Default	9900
PROPERTY_LcdReader_Enable 16003	**Public**

PROPERTY_ConfigurationSymbology 16002	Public

This property allows to read codes printed on reflective panels (LCD, Mobile Phone). The settings are: Disabled (default): the LCD reading functionality is disabled Enabled: the functionality is enabled, but the normal reading could slightly compromised Auto: best trade-off between normal and LCD reading

Property values

Name	Value
LcdReader_Enable_Disabled	0
LcdReader_Enable_Enabled	1
LcdReader_Enable_Auto	2
LcdReader_Enable_Default	0

PROPERTY_Processing_LastSessionDecodeTime 16014	Public

Returns the total time took by decoding library in microseconds on the last session

Property values

Name	Value
Processing_LastSessionDecodeTime_Default	0

Digimarc

PROPERTY_Digimarc_Enabled 16061	Public

-

Property values

Name	Value
Digimarc_Enabled_Disable	0
Digimarc_Enabled_Enable	1
Digimarc_Enabled_Default	0

PROPERTY_Digimarc_Version 16062	Public

Get digimarc version

Property values

Name	Value
Digimarc_Version_Default	

PROPERTY_Digimarc_FrameTimeout 16064	Public

Maximum time of work on a single frame (ms)

Property values

Name	Value
Digimarc_FrameTimeout_NoTimeout	-1

PROPERTY_Digimarc_FrameTimeout 16064	Public
Digimarc_FrameTimeout_Default	-1

Autofocus

PROPERTY_Autofocus_AFType 16102	Public
-	
Property values	

Name	Value
Autofocus_AFType_Manual	0
Autofocus_AFType_Single	1
Autofocus_AFType_Continuous	2
Autofocus_AFType_Default	2

PROPERTY_Autofocus_ManualDistance 16103	Public
-	
Property values	

Name	Value
Autofocus_ManualDistance_Default	0

PROPERTY_Autofocus_ContinuousTimeout 16104	Public
-	
Property values	

Name	Value
Autofocus_ContinuousTimeout_Default	250

MotionDetection

PROPERTY_ 16205	Public
Stand Mode Sensitivity	
Property values	

Name	Value
_Low	0
_Medium	1
_High	2
_Default	1

Decoder

PROPERTY_Decoder_MirroredImage_Enable 17005	Public
Enables or disables the decoding of mirrored images.	
Property values	

Name	Value
Decoder_MirroredImage_Enable_Default	0

PROPERTY_Decoder_IssueIdenticalResult 17007	Public
Checks the Callback Result to see if the content is the same as a previous callback (also if decoded as a different symbology)	
Property values	

Name	Value
Decoder_IssueIdenticalResult_Default	1

PROPERTY_Decoder_NegativeImage_Enable 17010	Public
Enables or disables the decoding of negative images.	
Property values	

Name	Value
Decoder_NegativeImage_Enable_Default	0

PROPERTY_Decoder_Version 17011	Public
Get Lib version	
Property values	

Name	Value
Decoder_Version_Default	

PROPERTY_Decoder_TraceEnabled 17027	Public
Enable trace on decoder	
Property values	

Name	Value
Decoder_TraceEnabled_Default	0

PROPERTY_Decoder_UniqueID 17028	Public
Read-only property to extract the unique id of the i-esim configurable decoder; returned as a 16 bit value in format: (DecoderType | DecoderIndex<<8)	
Property values	

Name	Value
Decoder_UniqueID_Default	0

PROPERTY_Decoder_FrameTimeout 17030	Public
Maximum time of work on a single frame (ms)	
Property values	

Name	Value

PROPERTY_Decoder_FrameTimeout 17030		Public
Decoder_FrameTimeout_NoTimeout		-1
Decoder_FrameTimeout_Default		-1

PROPERTY_Decoder_InvalidRegionAttempts 17032		Public
Invalid Region Attempts (-1 means unlimited, 0 means 1 attempt, 1 means 2 and so on)		
Property values		
Name		**Value**
Decoder_InvalidRegionAttempts_Default		5

PROPERTY_Decoder_DecodingSafety 17039	Public
Decoding safety	
Property values	
Name	**Value**
Decoder_DecodingSafety_Low	0
Decoder_DecodingSafety_Medium	1
Decoder_DecodingSafety_High	2
Decoder_DecodingSafety_Default	0

PROPERTY_Decoder_Verifier_ISO_IEC-15415_Enable 17040	Public
Enables or disables the ISO-IEC15415 Verifier	
Property values	
Name	**Value**
Decoder_Verifier_ISO_IEC-15415_Enable_Disabled	0
Decoder_Verifier_ISO_IEC-15415_Enable_Enabled	1
Decoder_Verifier_ISO_IEC-15415_Enable_Default	0

PROPERTY_Decoder_Verifier_ISO_IEC-15416_Enable 17041	Public
Enables or disables the ISO-IEC15416 Verifier	
Property values	
Name	**Value**
Decoder_Verifier_ISO_IEC-15416_Enable_Disabled	0
Decoder_Verifier_ISO_IEC-15416_Enable_Enabled	1
Decoder_Verifier_ISO_IEC-15416_Enable_Default	0

PROPERTY_Decoder_Verifier_AIM_Enable 17042	Public
Enables or disables the AIM Verifier	
Property values	
Name	**Value**
Decoder_Verifier_AIM_Enable_Disabled	0
Decoder_Verifier_AIM_Enable_Enabled	1

PROPERTY_Decoder_Verifier_ISO_IEC-15416_Enable 17041	Public
Decoder_Verifier_AIM_Enable_Default	0

PROPERTY_Decoder_Verifier_DPM_Enable 17043	Public
Enables or disables the DPM Verifier	
Property values	

Name	Value
Decoder_Verifier_DPM_Enable_Disabled	0
Decoder_Verifier_DPM_Enable_Enabled	1
Decoder_Verifier_DPM_Enable_Default	0

Common

PROPERTY_Decoder_Code1D_Common_ReverseCode 17100	Public
Allows setting the Image Mode (2 Normal, 4 Reverse, 6 Normal and Reverse)	
Property values	

Name	Value
Decoder_Code1D_Common_ReverseCode_ONLY_NORMAL	2
Decoder_Code1D_Common_ReverseCode_ONLY_REVERSE	4
Decoder_Code1D_Common_ReverseCode_BOTH_NORMAL_AND_REVERSE	6
Decoder_Code1D_Common_ReverseCode_Default	2

EAN/UPCA properties

PROPERTY_Decoder_Code1D_EAN_UPC-A_Enable 17150	Public
Enables or disables the UPC-A symbology	
Property values	

Name	Value
Decoder_Code1D_EAN_UPC-A_Enable_Enable	1
Decoder_Code1D_EAN_UPC-A_Enable_Disable	0
Decoder_Code1D_EAN_UPC-A_Enable_Default	0

PROPERTY_Decoder_Code1D_EAN_UPC-A_Check-Digit-Tx 17151	Public
Enable this option to transmit the check character along with UPC-A barcode data	
Property values	

Name	Value
Decoder_Code1D_EAN_UPC-A_Check-Digit-Tx_Enable	1
Decoder_Code1D_EAN_UPC-A_Check-Digit-Tx_Disable	0

PROPERTY_Decoder_Code1D_EAN_UPC-A_Enable 17150	Public
Decoder_Code1D_EAN_UPC-A_Check-Digit-Tx_Default	1

PROPERTY_Decoder_Code1D_EAN_UPC-A_ExpandToEAN13 17152	Public
Expands UPC-A data to the EAN-13 data format. Selecting this feature also changes the symbology ID to match those required for EAN-13	
Property values	

Name	Value
Decoder_Code1D_EAN_UPC-A_ExpandToEAN13_Enable	1
Decoder_Code1D_EAN_UPC-A_ExpandToEAN13_Disable	0
Decoder_Code1D_EAN_UPC-A_ExpandToEAN13_Default	0

PROPERTY_Decoder_Code1D_EAN_UPC-A_Number-System-Tx 17153	Public
This feature enables or disables transmission of the UPC-A number system character	
Property values	

Name	Value
Decoder_Code1D_EAN_UPC-A_Number-System-Tx_Enable	1
Decoder_Code1D_EAN_UPC-A_Number-System-Tx_Disable	0
Decoder_Code1D_EAN_UPC-A_Number-System-Tx_Default	1

PROPERTY_Decoder_Code1D_EAN_UPC-A_MinReads 17154	Public
This feature specifies the minimum number of consecutive times a UPC-A label must be decoded before it is accepted as a good read (min=1, max=4)	
Property values	

Name	Value
Decoder_Code1D_EAN_UPC-A_MinReads_OneRead	1
Decoder_Code1D_EAN_UPC-A_MinReads_TwoReads	2
Decoder_Code1D_EAN_UPC-A_MinReads_ThreeReads	3
Decoder_Code1D_EAN_UPC-A_MinReads_FourReads	4
Decoder_Code1D_EAN_UPC-A_MinReads_Default	1

PROPERTY_Decoder_Code1D_EAN_UPC-E_Enable 17156	Public
Enables or disables the UPC-E symbology	
Property values	

Name	Value
Decoder_Code1D_EAN_UPC-E_Enable_Enable	1
Decoder_Code1D_EAN_UPC-E_Enable_Disable	0
Decoder_Code1D_EAN_UPC-E_Enable_Default	0

PROPERTY_Decoder_Code1D_EAN_UPC-E_Check-Digit-Tx 17157	Public

Enable this option to transmit the check character along with UPC-E barcode data

Property values

Name	Value
Decoder_Code1D_EAN_UPC-E_Check-Digit-Tx_Enable	1
Decoder_Code1D_EAN_UPC-E_Check-Digit-Tx_Disable	0
Decoder_Code1D_EAN_UPC-E_Check-Digit-Tx_Default	1

PROPERTY_Decoder_Code1D_EAN_UPC-E_ExpandToUPCA 17158	Public

Expands UPC-E data to the UPC-A data format

Property values

Name	Value
Decoder_Code1D_EAN_UPC-E_ExpandToUPCA_Enable	1
Decoder_Code1D_EAN_UPC-E_ExpandToUPCA_Disable	0
Decoder_Code1D_EAN_UPC-E_ExpandToUPCA_Default	0

PROPERTY_Decoder_Code1D_EAN_UPC-E_ExpandToEAN13 17159	Public

Expands UPC-E data to the EAN-13 data format. Selecting this feature also changes the symbology ID to match those required for EAN-13

Property values

Name	Value
Decoder_Code1D_EAN_UPC-E_ExpandToEAN13_Enable	1
Decoder_Code1D_EAN_UPC-E_ExpandToEAN13_Disable	0
Decoder_Code1D_EAN_UPC-E_ExpandToEAN13_Default	0

PROPERTY_Decoder_Code1D_EAN_UPC-E_Number-System-Tx 17160	Public

This feature enables or disables the transmission of the UPC-E system number character

Property values

Name	Value
Decoder_Code1D_EAN_UPC-E_Number-System-Tx_Enable	1
Decoder_Code1D_EAN_UPC-E_Number-System-Tx_Disable	0
Decoder_Code1D_EAN_UPC-E_Number-System-Tx_Default	1

PROPERTY_Decoder_Code1D_EAN_EAN13_Enable 17162	Public

Enables or disables the EAN13 symbology

Property values

Name	Value
Decoder_Code1D_EAN_EAN13_Enable_Enable	1
Decoder_Code1D_EAN_EAN13_Enable_Disable	0

PROPERTY_Decoder_Code1D_EAN_EAN13_Enable 17162	**Public**
Decoder_Code1D_EAN_EAN13_Enable_Default	0

PROPERTY_Decoder_Code1D_EAN_EAN13_Check-Digit-Tx 17163	**Public**
Enable this option to transmit the check character along with EAN 13 barcode data	
Property values	

Name	**Value**
Decoder_Code1D_EAN_EAN13_Check-Digit-Tx_Enable	1
Decoder_Code1D_EAN_EAN13_Check-Digit-Tx_Disable	0
Decoder_Code1D_EAN_EAN13_Check-Digit-Tx_Default	1

PROPERTY_Decoder_Code1D_EAN_EAN13_ISBN_Conversion 17164	**Public**
This option enables or disables the conversion of EAN 13/JAN 13 Bookland labels starting with 978 to ISBN labels	
Property values	

Name	**Value**
Decoder_Code1D_EAN_EAN13_ISBN_Conversion_Enable	1
Decoder_Code1D_EAN_EAN13_ISBN_Conversion_Disable	0
Decoder_Code1D_EAN_EAN13_ISBN_Conversion_Default	0

PROPERTY_Decoder_Code1D_EAN_EAN13_ISSN_Conversion 17165	**Public**
Enables or disables the conversion of EAN/JAN13 Bookland labels starting with 977 to ISSN labels	
Property values	

Name	**Value**
Decoder_Code1D_EAN_EAN13_ISSN_Conversion_Enable	1
Decoder_Code1D_EAN_EAN13_ISSN_Conversion_Disable	0
Decoder_Code1D_EAN_EAN13_ISSN_Conversion_Default	0

PROPERTY_Decoder_Code1D_EAN_EAN13_Number-System-Tx 17166	**Public**
Enables or disables the transmission of an EAN/JAN13 Flag1 character. The Flag 1 character is the first character of the label	
Property values	

Name	**Value**
Decoder_Code1D_EAN_EAN13_Number-System-Tx_Enable	1
Decoder_Code1D_EAN_EAN13_Number-System-Tx_Disable	0
Decoder_Code1D_EAN_EAN13_Number-System-Tx_Default	1

PROPERTY_Decoder_Code1D_EAN_EAN8_Enable 17170	**Public**
Enables or disables the EAN-8 symbology	
Property values	

PROPERTY_Decoder_Code1D_EAN_EAN13_Number-System-Tx 17166	Public
Name	**Value**
Decoder_Code1D_EAN_EAN8_Enable_Enable	1
Decoder_Code1D_EAN_EAN8_Enable_Disable	0
Decoder_Code1D_EAN_EAN8_Enable_Default	0

PROPERTY_Decoder_Code1D_EAN_EAN8_Check-Digit-Tx 17171	Public
Enable this option to transmit the check character along with EAN 8 barcode data	
Property values	

Name	**Value**
Decoder_Code1D_EAN_EAN8_Check-Digit-Tx_Enable	1
Decoder_Code1D_EAN_EAN8_Check-Digit-Tx_Disable	0
Decoder_Code1D_EAN_EAN8_Check-Digit-Tx_Default	1

PROPERTY_Decoder_Code1D_EAN_EAN8_ExpandToEAN13 17172	Public
Enable this option to expand EAN 8/JAN 8 labels to EAN 13/JAN 13	
Property values	

Name	**Value**
Decoder_Code1D_EAN_EAN8_ExpandToEAN13_Enable	1
Decoder_Code1D_EAN_EAN8_ExpandToEAN13_Disable	0
Decoder_Code1D_EAN_EAN8_ExpandToEAN13_Default	0

PROPERTY_Decoder_Code1D_EAN_AddOn2 17174	Public
Enables or disables the P2 Add-On	
Property values	

Name	**Value**
Decoder_Code1D_EAN_AddOn2_Enable	1
Decoder_Code1D_EAN_AddOn2_Disable	0
Decoder_Code1D_EAN_AddOn2_Default	0

PROPERTY_Decoder_Code1D_EAN_AddOn5 17175	Public
Enables or disables the P5 Add-On	
Property values	

Name	**Value**
Decoder_Code1D_EAN_AddOn5_Enable	1
Decoder_Code1D_EAN_AddOn5_Disable	0
Decoder_Code1D_EAN_AddOn5_Default	0

PROPERTY_Decoder_Code1D_EAN_AddOnTimer 17178	Public

This option sets the time the reader will look for an add-on when an add-on fragment has been seen and optional add-ons are enabled. The value is expressed in tens of milliseconds. For example a value of 15 means 150 milliseconds

Property values

Name	Value
Decoder_Code1D_EAN_AddOnTimer_Default	1

PROPERTY_Decoder_Code1D_EAN_AddOn-Required 17179	Public

Enables or disables the P2 Add-On

Property values

Name	Value
Decoder_Code1D_EAN_AddOn-Required_Enable	1
Decoder_Code1D_EAN_AddOn-Required_Disable	0
Decoder_Code1D_EAN_AddOn-Required_Default	0

PROPERTY_Decoder_Code1D_EAN_Quiet-Zones 17184	Public

This feature specifies the size of quiet zones in term of module percentage; 1D devices does not supports this property, it works only on 2D products

Property values

Name	Value
Decoder_Code1D_EAN_Quiet-Zones_Default	500

PROPERTY_Decoder_Code1D_EAN_QuietZones_AddOn 17185	Public

This feature specifies the size of quiet zones between the code and the AddOn in term of module percentage

Property values

Name	Value
Decoder_Code1D_EAN_QuietZones_AddOn_Default	500

PROPERTY_Decoder_Code1D_EAN_PriceCheck 17186	Public

Enables or disables the calculation and verification of price/weight check digits.

Property values

Name	Value
Decoder_Code1D_EAN_PriceCheck_Disable	0
Decoder_Code1D_EAN_PriceCheck_CheckDigit4digit	1
Decoder_Code1D_EAN_PriceCheck_CheckDigit5digit	2
Decoder_Code1D_EAN_PriceCheck_EuropeanCheckDigit4digit	3
Decoder_Code1D_EAN_PriceCheck_EuropeanCheckDigit5digit	4
Decoder_Code1D_EAN_PriceCheck_Default	0

PROPERTY_Decoder_Code1D_EAN_PriceCheck 17186	Public

PROPERTY_Decoder_Code1D_EAN_StitchingEnabled 17188	Public
This option enables or disables the stitching for EAN labels	
Property values	

Name	Value
Decoder_Code1D_EAN_StitchingEnabled_Enable	1
Decoder_Code1D_EAN_StitchingEnabled_Disable	0
Decoder_Code1D_EAN_StitchingEnabled_Default	0

EAN_TwoLabels

PROPERTY_Decoder_Code1D_EAN_TwoLabels_Rule-1_Label1 17200	Public
Set Label 1 for Rule x	
Property values	

Name	Value
Decoder_Code1D_EAN_TwoLabels_Rule-1_Label1_Default	FFFF

PROPERTY_Decoder_Code1D_EAN_TwoLabels_Rule-1_Label2 17201	Public
Set Label 2 for Rule x	
Property values	

Name	Value
Decoder_Code1D_EAN_TwoLabels_Rule-1_Label2_Default	FFFF

PROPERTY_Decoder_Code1D_EAN_TwoLabels_Rule-1_SecondLabelType 17202	Public
Set Second Label Type for Rule x	
Property values	

Name	Value
Decoder_Code1D_EAN_TwoLabels_Rule-1_SecondLabelType_None	0
Decoder_Code1D_EAN_TwoLabels_Rule-1_SecondLabelType_EAN13	1
Decoder_Code1D_EAN_TwoLabels_Rule-1_SecondLabelType_EAN8	2
Decoder_Code1D_EAN_TwoLabels_Rule-1_SecondLabelType_Default	0

PROPERTY_Decoder_Code1D_EAN_TwoLabels_Rule-2_Label1 17203	Public
Set Label 1 for Rule x	
Property values	

Name	Value
Decoder_Code1D_EAN_TwoLabels_Rule-2_Label1_Default	FFFF

PROPERTY_Decoder_Code1D_EAN_TwoLabels_Rule-2_Label2 17204	Public
Set Label 2 for Rule x	
Property values	

Name	Value
Decoder_Code1D_EAN_TwoLabels_Rule-2_Label2_Default	FFFF

PROPERTY_Decoder_Code1D_EAN_TwoLabels_Rule-2_SecondLabelType 17205	Public
Set Second Label Type for Rule x	
Property values	

Name	Value
Decoder_Code1D_EAN_TwoLabels_Rule-2_SecondLabelType_None	0
Decoder_Code1D_EAN_TwoLabels_Rule-2_SecondLabelType_EAN13	1
Decoder_Code1D_EAN_TwoLabels_Rule-2_SecondLabelType_EAN8	2
Decoder_Code1D_EAN_TwoLabels_Rule-2_SecondLabelType_Default	0

PROPERTY_Decoder_Code1D_EAN_TwoLabels_Rule-3_Label1 17206	Public
Set Label 1 for Rule x	
Property values	

Name	Value
Decoder_Code1D_EAN_TwoLabels_Rule-3_Label1_Default	FFFF

PROPERTY_Decoder_Code1D_EAN_TwoLabels_Rule-3_Label2 17207	Public
Set Label 2 for Rule x	
Property values	

Name	Value
Decoder_Code1D_EAN_TwoLabels_Rule-3_Label2_Default	FFFF

PROPERTY_Decoder_Code1D_EAN_TwoLabels_Rule-3_SecondLabelType 17208	Public
Set Second Label Type for Rule x	
Property values	

Name	Value
Decoder_Code1D_EAN_TwoLabels_Rule-3_SecondLabelType_None	0
Decoder_Code1D_EAN_TwoLabels_Rule-3_SecondLabelType_EAN13	1
Decoder_Code1D_EAN_TwoLabels_Rule-3_SecondLabelType_EAN8	2
Decoder_Code1D_EAN_TwoLabels_Rule-3_SecondLabelType_Default	0

PROPERTY_Decoder_Code1D_EAN_TwoLabels_Rule-4_Label1 17209	Public

PROPERTY_Decoder_Code1D_EAN_TwoLabels_Rule-3_SecondLabelType 17208	Public

Set Label 1 for Rule x

Property values

Name	Value
Decoder_Code1D_EAN_TwoLabels_Rule-4_Label1_Default	FFFF

PROPERTY_Decoder_Code1D_EAN_TwoLabels_Rule-4_Label2 17210	Public

Set Label 2 for Rule x

Property values

Name	Value
Decoder_Code1D_EAN_TwoLabels_Rule-4_Label2_Default	FFFF

PROPERTY_Decoder_Code1D_EAN_TwoLabels_Rule-4_SecondLabelType 17211	Public

Set Second Label Type for Rule x

Property values

Name	Value
Decoder_Code1D_EAN_TwoLabels_Rule-4_SecondLabelType_None	0
Decoder_Code1D_EAN_TwoLabels_Rule-4_SecondLabelType_EAN13	1
Decoder_Code1D_EAN_TwoLabels_Rule-4_SecondLabelType_EAN8	2
Decoder_Code1D_EAN_TwoLabels_Rule-4_SecondLabelType_Default	0

PROPERTY_Decoder_Code1D_EAN_TwoLabels_Timeout 17212	Public

Set Timeout

Property values

Name	Value
Decoder_Code1D_EAN_TwoLabels_Timeout_Default	500

PROPERTY_Decoder_Code1D_EAN_TwoLabels_Enable 17213	Public

Enable

Property values

Name	Value
Decoder_Code1D_EAN_TwoLabels_Enable_Default	0

PROPERTY_Decoder_Code1D_EAN_TwoLabels_Concatenation 17214	Public

Concatenation

Property values

Name	Value
Decoder_Code1D_EAN_TwoLabels_Concatenation_Default	1

Conditional ADDOns for EAN

PROPERTY_Decoder_Code1D_EAN_ConditionalADDONS_Condition1_Type 17220	Public
Set Condition Type	
Property values	
Name	**Value**
Decoder_Code1D_EAN_ConditionalADDONS_Condition1_Type_Default	0

PROPERTY_Decoder_Code1D_EAN_ConditionalADDONS_Condition1_ConditionalDigits 17221	Public
Set Conditional digits	
Property values	
Name	**Value**
Decoder_Code1D_EAN_ConditionalADDONS_Condition1_ConditionalDigits_Default	FFF

PROPERTY_Decoder_Code1D_EAN_ConditionalADDONS_Condition2_Type 17222	Public
Set Condition Type	
Property values	
Name	**Value**
Decoder_Code1D_EAN_ConditionalADDONS_Condition2_Type_Default	0

PROPERTY_Decoder_Code1D_EAN_ConditionalADDONS_Condition2_ConditionalDigits 17223	Public
Set Conditional digits	
Property values	
Name	**Value**
Decoder_Code1D_EAN_ConditionalADDONS_Condition2_ConditionalDigits_Default	FFF

PROPERTY_Decoder_Code1D_EAN_ConditionalADDONS_Condition3_Type 17224	Public
Set Condition Type	
Property values	
Name	**Value**
Decoder_Code1D_EAN_ConditionalADDONS_Condition3_Type_Default	0

PROPERTY_Decoder_Code1D_EAN_ConditionalADDONS_Condition3_ConditionalDigits 17225	Public

PROPERTY_Decoder_Code1D_EAN_ConditionalADDONS_Condition3_Type 17224	Public
Set Conditional digits	
Property values	

Name	Value
Decoder_Code1D_EAN_ConditionalADDONS_Condition3_ConditionalDigits_Default	FFF

PROPERTY_Decoder_Code1D_EAN_ConditionalADDONS_Condition4_Type 17226	Public
Set Condition Type	
Property values	

Name	Value
Decoder_Code1D_EAN_ConditionalADDONS_Condition4_Type_Default	0

PROPERTY_Decoder_Code1D_EAN_ConditionalADDONS_Condition4_ConditionalDigits 17227	Public
Set Conditional digits	
Property values	

Name	Value
Decoder_Code1D_EAN_ConditionalADDONS_Condition4_ConditionalDigits_Default	FFF

PROPERTY_Decoder_Code1D_EAN_ConditionalADDONS_Timeout 17228	Public
Set Timeout	
Property values	

Name	Value
Decoder_Code1D_EAN_ConditionalADDONS_Timeout_Default	200

Code 39 properties

PROPERTY_Decoder_Code1D_Code39_Enable 17240	Public
Enables or disables the Code39 symbology	
Property values	

Name	Value
Decoder_Code1D_Code39_Enable_Enable	1
Decoder_Code1D_Code39_Enable_Disable	0
Decoder_Code1D_Code39_Enable_Default	0

PROPERTY_Decoder_Code1D_Code39_Enable 17240	Public

PROPERTY_Decoder_Code1D_Code39_FullASCII 17241	Public

Enables or disables the translation of Code 39 characters to Code 39 full-ASCII characters	
Property values	
Name	**Value**
Decoder_Code1D_Code39_FullASCII_Enable	1
Decoder_Code1D_Code39_FullASCII_Disable	0
Decoder_Code1D_Code39_FullASCII_Default	0

PROPERTY_Decoder_Code1D_Code39_Length-Control 17242	Public

This feature specifies either variable length decoding or fixed length decoding for the Code 39 symbology	
Property values	
Name	**Value**
Decoder_Code1D_Code39_Length-Control_Variable	0
Decoder_Code1D_Code39_Length-Control_Fixed	1
Decoder_Code1D_Code39_Length-Control_No_Check	2
Decoder_Code1D_Code39_Length-Control_Default	2

PROPERTY_Decoder_Code1D_Code39_Length1 17243	Public

This feature specifies one of the barcode lengths for Code 39 Length Control. Length 1 is the minimum label length if in Variable Length Mode, or the first fixed length if in Fixed Length Mode. Length includes the barcode's data characters only. The length1 can be set from 1 to 66 characters	
Property values	
Name	**Value**
Decoder_Code1D_Code39_Length1_Default	1

PROPERTY_Decoder_Code1D_Code39_Length2 17244	Public

This feature specifies one of the barcode lengths for Code 39 Length Control. Length 2 is the maximum label length if in Variable Length Mode, or the second fixed length if in Fixed Length Mode. Length includes the barcode's check, data, and full-ASCII shift characters. The length2 can be set from 0 to 66 characters	
Property values	
Name	**Value**
Decoder_Code1D_Code39_Length2_Default	50

PROPERTY_Decoder_Code1D_Code39_Code32_Enable 17245	Public

When disabled, the reader will not read Code 32 barcodes
Property values

PROPERTY_Decoder_Code1D_Code39_Length2 17244		Public
Name	**Value**	
Decoder_Code1D_Code39_Code32_Enable_Enable	1	
Decoder_Code1D_Code39_Code32_Enable_Disable	0	
Decoder_Code1D_Code39_Code32_Enable_Default	0	

PROPERTY_Decoder_Code1D_Code39_Code32_Check-Digit-Tx 17246		Public
Enable this option to transmit the check character along with Code 32 barcode data		
Property values		
Name	**Value**	
Decoder_Code1D_Code39_Code32_Check-Digit-Tx_Enable	1	
Decoder_Code1D_Code39_Code32_Check-Digit-Tx_Disable	0	
Decoder_Code1D_Code39_Code32_Check-Digit-Tx_Default	0	

PROPERTY_Decoder_Code1D_Code39_Code32_Start-Stop-Tx 17247	Public
This option enables or disables the transmission of Code 32 start and stop characters	
Property values	

Name	**Value**
Decoder_Code1D_Code39_Code32_Start-Stop-Tx_Enable	1
Decoder_Code1D_Code39_Code32_Start-Stop-Tx_Disable	0
Decoder_Code1D_Code39_Code32_Start-Stop-Tx_Default	0

PROPERTY_Decoder_Code1D_Code39_Check-Digit 17248		Public
Use this option to enable or disable calculation and verification of an optional Code 39 check character. When disabled, any check character in the label is treated as a data character. Possible values: see available defines.		
Property values		
Name	**Value**	
Decoder_Code1D_Code39_Check-Digit_Disable	0	
Decoder_Code1D_Code39_Check-Digit_Standard_Check	1	
Decoder_Code1D_Code39_Check-Digit_Mod7_Check	2	
Decoder_Code1D_Code39_Check-Digit_Italian_Post_Check	4	
Decoder_Code1D_Code39_Check-Digit_Daimler_Chrysler_Check	8	
Decoder_Code1D_Code39_Check-Digit_PZN_Check	16	
Decoder_Code1D_Code39_Check-Digit_LaPoste_Check	32	
Decoder_Code1D_Code39_Check-Digit_DanishPPT_Check	64	
Decoder_Code1D_Code39_Check-Digit_Default	0	

PROPERTY_Decoder_Code1D_Code39_Check-Digit-Tx 17249	Public

PROPERTY_Decoder_Code1D_Code39_Check-Digit 17248		Public
Use this option to transmit the check character along with Code 39 barcode data		
Property values		

Name	Value
Decoder_Code1D_Code39_Check-Digit-Tx_Enable	1
Decoder_Code1D_Code39_Check-Digit-Tx_Disable	0
Decoder_Code1D_Code39_Check-Digit-Tx_Default	1

PROPERTY_Decoder_Code1D_Code39_Start-Stop-Tx 17250		Public
Use this option to enable or disable the transmission of Code 39 start and stop characters		
Property values		

Name	Value
Decoder_Code1D_Code39_Start-Stop-Tx_Enable	1
Decoder_Code1D_Code39_Start-Stop-Tx_Disable	0
Decoder_Code1D_Code39_Start-Stop-Tx_Default	0

PROPERTY_Decoder_Code1D_Code39_Interdigit-Ratio 17253		Public
This feature specifies the ratio between an intercharacter space and module for Code 39 labels (min=1, max=10)		
Property values		

Name	Value
Decoder_Code1D_Code39_Interdigit-Ratio_Default	0

PROPERTY_Decoder_Code1D_Code39_Quiet-Zones 17255		Public
This feature specifies the number of quiet zones for Code 39 labels. The value can be: 0 (no quiet zones), 1 (Quiet Zone on one side), 2 (Quiet Zones on two sides), 3 (Auto), 4 (Virtual Quiet Zones on two sides), 5 (Small Quiet Zones on two sides)		
Property values		

Name	Value
Decoder_Code1D_Code39_Quiet-Zones_Default	3

PROPERTY_Decoder_Code1D_Code39_StitchingEnabled 17256	Public
This option enables or disables the stitching for Code 39 labels	
Property values	

Name	Value
Decoder_Code1D_Code39_StitchingEnabled_Enable	1
Decoder_Code1D_Code39_StitchingEnabled_Disable	0
Decoder_Code1D_Code39_StitchingEnabled_Default	0

PROPERTY_Decoder_Code1D_Code39_CIP_Enable 17257	Public
Enables or disables decoding of Code 39 CIP labels	
Property values	

Name	Value
Decoder_Code1D_Code39_CIP_Enable_Default	0

PROPERTY_Decoder_Code1D_Code39_ShortMargin 17259	Public
-	
Property values	

Name	Value
Decoder_Code1D_Code39_ShortMargin_Default	0

Code 128 properties

PROPERTY_Decoder_Code1D_Code128_Enable 17260	Public
Enables or disables the Code 128 symbology	
Property values	

Name	Value
Decoder_Code1D_Code128_Enable_Enable	1
Decoder_Code1D_Code128_Enable_Disable	0
Decoder_Code1D_Code128_Enable_Default	0

PROPERTY_Decoder_Code1D_Code128_EnableGS1 17261	Public
This option enables or disables the ability of the reader to translate GS1-128 labels to the GS1-128 data format. Options are: 0 (transmit GS1-128 labels in Code 128 data format), 1 (transmit GS1-128 labels in GS1-128 data format), 2 (do not transmit GS1-128 labels)	
Property values	

Name	Value
Decoder_Code1D_Code128_EnableGS1_EnableLabel128	0
Decoder_Code1D_Code128_EnableGS1_EnableLabelGS1	1
Decoder_Code1D_Code128_EnableGS1_Disable	2
Decoder_Code1D_Code128_EnableGS1_Default	2

PROPERTY_Decoder_Code1D_Code128_Length-Control 17262	Public
This feature specifies either variable length decoding or fixed length decoding for the Code 128 symbology. Options are: 0 (variable length), 1 (fixed length), 2 (No length control)	
Property values	

Name	Value

PROPERTY_Decoder_Code1D_Code128_Length-Control 17262	Public
Decoder_Code1D_Code128_Length-Control_Variable	0
Decoder_Code1D_Code128_Length-Control_Fixed	1
Decoder_Code1D_Code128_Length-Control_No_Check	2
Decoder_Code1D_Code128_Length-Control_Default	2

PROPERTY_Decoder_Code1D_Code128_Length1 17263	Public

Specifies one of the barcode lengths for Code 128 Length Control. Length 1 is the minimum label length if in Variable Length Mode, or the first fixed length if in Fixed Length Mode. Length includes the barcode's data characters only. The length can be set from 1 to 66 characters

Property values

Name	Value
Decoder_Code1D_Code128_Length1_Default	1

PROPERTY_Decoder_Code1D_Code128_Length2 17264	Public

This feature specifies one of the barcode lengths for Code 128 Length Control. Length 2 is the maximum label length if in Variable Length Mode, or the second fixed length if in Fixed Length Mode. Length includes the barcode's data characters only. The length can be set from 1 to 83 characters. A setting of 0 specifies to ignore this length (only one fixed length)

Property values

Name	Value
Decoder_Code1D_Code128_Length2_Default	50

PROPERTY_Decoder_Code1D_Code128_Check-Digit-Tx 17265	Public

Enable this option to transmit the check character along with Code 128 barcode data

Property values

Name	Value
Decoder_Code1D_Code128_Check-Digit-Tx_Default	0

PROPERTY_Decoder_Code1D_Code128_Function_Tx 17266	Public

Enables or disables transmission of Code128 function characters

Property values

Name	Value
Decoder_Code1D_Code128_Function_Tx_Default	0

PROPERTY_Decoder_Code1D_Code128_Quiet-Zones 17267	Public

Enables or disables the short Quiet Zone parameter

Property values

Name	Value

PROPERTY_Decoder_Code1D_Code128_Function_Tx 17266	Public
Decoder_Code1D_Code128_Quiet-Zones_No_QZ	0
Decoder_Code1D_Code128_Quiet-Zones_QZ_One_Side	1
Decoder_Code1D_Code128_Quiet-Zones_QZ_Two_Side	2
Decoder_Code1D_Code128_Quiet-Zones_Auto	3
Decoder_Code1D_Code128_Quiet-Zones_FourReads	4
Decoder_Code1D_Code128_Quiet-Zones_SmallQZ_Two_Side	5
Decoder_Code1D_Code128_Quiet-Zones_Default	3

PROPERTY_Decoder_Code1D_Code128_Start-Stop-Tx 17269	Public
Enable this option to transmit the Start and Stop characters along with Code 128 barcode data	
Property values	

Name	Value
Decoder_Code1D_Code128_Start-Stop-Tx_Default	0

PROPERTY_Decoder_Code1D_Code128_EnableTassimo 17270	Public
Enables or disables the Tassimo symbology	
Property values	

Name	Value
Decoder_Code1D_Code128_EnableTassimo_Default	0

PROPERTY_Decoder_Code1D_Code128_StitchingEnabled 17273	Public
This option enables or disables the stitching for Code 128 labels	
Property values	

Name	Value
Decoder_Code1D_Code128_StitchingEnabled_Enable	1
Decoder_Code1D_Code128_StitchingEnabled_Disable	0
Decoder_Code1D_Code128_StitchingEnabled_Default	0

PROPERTY_Decoder_Code1D_Code128_ShortMargin 17274	Public
-	
Property values	

Name	Value
Decoder_Code1D_Code128_ShortMargin_Default	0

PROPERTY_Decoder_Code1D_Code128_ForceTxFNC1 17275	Public
-	
Property values	

Name	Value
Decoder_Code1D_Code128_ForceTxFNC1_Default	0

Code ISBT128 properties

PROPERTY_Decoder_Code1D_ISBT-128_Couple-0_ID-0 17280	Public
See the ID 0 and 1 of this couple	
Property values	

Name	Value
Decoder_Code1D_ISBT-128_Couple-0_ID-0_Default	0

PROPERTY_Decoder_Code1D_ISBT-128_Couple-0_ID-1 17281	Public
See the ID 0 and 1 of this couple	
Property values	

Name	Value
Decoder_Code1D_ISBT-128_Couple-0_ID-1_Default	0

PROPERTY_Decoder_Code1D_ISBT-128_Couple-1_ID-0 17282	Public
See the ID 0 and 1 of this couple	
Property values	

Name	Value
Decoder_Code1D_ISBT-128_Couple-1_ID-0_Default	0

PROPERTY_Decoder_Code1D_ISBT-128_Couple-1_ID-1 17283	Public
See the ID 0 and 1 of this couple	
Property values	

Name	Value
Decoder_Code1D_ISBT-128_Couple-1_ID-1_Default	0

PROPERTY_Decoder_Code1D_ISBT-128_Couple-2_ID-0 17284	Public
See the ID 0 and 1 of this couple	
Property values	

Name	Value
Decoder_Code1D_ISBT-128_Couple-2_ID-0_Default	0

PROPERTY_Decoder_Code1D_ISBT-128_Couple-2_ID-1 17285	Public
See the ID 0 and 1 of this couple	
Property values	

Name	Value
Decoder_Code1D_ISBT-128_Couple-2_ID-1_Default	0

PROPERTY_Decoder_Code1D_ISBT-128_Couple-3_ID-0 17286	Public
See the ID 0 and 1 of this couple	
Property values	

PROPERTY_Decoder_Code1D_ISBT-128_Couple-3_ID-0 17286	Public
Name	**Value**
Decoder_Code1D_ISBT-128_Couple-3_ID-0_Default	0
PROPERTY_Decoder_Code1D_ISBT-128_Couple-3_ID-1 17287	**Public**
See the ID 0 and 1 of this couple	
Property values	
Name	**Value**
Decoder_Code1D_ISBT-128_Couple-3_ID-1_Default	0
PROPERTY_Decoder_Code1D_ISBT-128_Couple-4_ID-0 17288	**Public**
See the ID 0 and 1 of this couple	
Property values	
Name	**Value**
Decoder_Code1D_ISBT-128_Couple-4_ID-0_Default	0
PROPERTY_Decoder_Code1D_ISBT-128_Couple-4_ID-1 17289	**Public**
See the ID 0 and 1 of this couple	
Property values	
Name	**Value**
Decoder_Code1D_ISBT-128_Couple-4_ID-1_Default	0
PROPERTY_Decoder_Code1D_ISBT-128_Couple-5_ID-0 17290	**Public**
See the ID 0 and 1 of this couple	
Property values	
Name	**Value**
Decoder_Code1D_ISBT-128_Couple-5_ID-0_Default	0
PROPERTY_Decoder_Code1D_ISBT-128_Couple-5_ID-1 17291	**Public**
See the ID 0 and 1 of this couple	
Property values	
Name	**Value**
Decoder_Code1D_ISBT-128_Couple-5_ID-1_Default	0
PROPERTY_Decoder_Code1D_ISBT-128_Couple-6_ID-0 17292	**Public**
See the ID 0 and 1 of this couple	
Property values	
Name	**Value**
Decoder_Code1D_ISBT-128_Couple-6_ID-0_Default	0
PROPERTY_Decoder_Code1D_ISBT-128_Couple-6_ID-1 17293	**Public**
See the ID 0 and 1 of this couple	

PROPERTY_Decoder_Code1D_ISBT-128_Couple-6_ID-0 17292	Public
Property values	

Name	Value
Decoder_Code1D_ISBT-128_Couple-6_ID-1_Default	0

PROPERTY_Decoder_Code1D_ISBT-128_Couple-7_ID-0 17294	Public
See the ID 0 and 1 of this couple	
Property values	

Name	Value
Decoder_Code1D_ISBT-128_Couple-7_ID-0_Default	0

PROPERTY_Decoder_Code1D_ISBT-128_Couple-7_ID-1 17295	Public
See the ID 0 and 1 of this couple	
Property values	

Name	Value
Decoder_Code1D_ISBT-128_Couple-7_ID-1_Default	0

PROPERTY_Decoder_Code1D_ISBT-128_Couple-8_ID-0 17296	Public
See the ID 0 and 1 of this couple	
Property values	

Name	Value
Decoder_Code1D_ISBT-128_Couple-8_ID-0_Default	0

PROPERTY_Decoder_Code1D_ISBT-128_Couple-8_ID-1 17297	Public
See the ID 0 and 1 of this couple	
Property values	

Name	Value
Decoder_Code1D_ISBT-128_Couple-8_ID-1_Default	0

PROPERTY_Decoder_Code1D_ISBT-128_Couple-9_ID-0 17298	Public
See the ID 0 and 1 of this couple	
Property values	

Name	Value
Decoder_Code1D_ISBT-128_Couple-9_ID-0_Default	0

PROPERTY_Decoder_Code1D_ISBT-128_Couple-9_ID-1 17299	Public
See the ID 0 and 1 of this couple	
Property values	

Name	Value
Decoder_Code1D_ISBT-128_Couple-9_ID-1_Default	0

PROPERTY_Decoder_Code1D_ISBT-128_Couple-10_ID-0 17300	Public
See the ID 0 and 1 of this couple	
Property values	

Name	Value
Decoder_Code1D_ISBT-128_Couple-10_ID-0_Default	0

PROPERTY_Decoder_Code1D_ISBT-128_Couple-10_ID-1 17301	Public
See the ID 0 and 1 of this couple	
Property values	

Name	Value
Decoder_Code1D_ISBT-128_Couple-10_ID-1_Default	0

PROPERTY_Decoder_Code1D_ISBT-128_Couple-11_ID-0 17302	Public
See the ID 0 and 1 of this couple	
Property values	

Name	Value
Decoder_Code1D_ISBT-128_Couple-11_ID-0_Default	0

PROPERTY_Decoder_Code1D_ISBT-128_Couple-11_ID-1 17303	Public
See the ID 0 and 1 of this couple	
Property values	

Name	Value
Decoder_Code1D_ISBT-128_Couple-11_ID-1_Default	0

PROPERTY_Decoder_Code1D_ISBT-128_Couple-12_ID-0 17304	Public
See the ID 0 and 1 of this couple	
Property values	

Name	Value
Decoder_Code1D_ISBT-128_Couple-12_ID-0_Default	0

PROPERTY_Decoder_Code1D_ISBT-128_Couple-12_ID-1 17305	Public
See the ID 0 and 1 of this couple	
Property values	

Name	Value
Decoder_Code1D_ISBT-128_Couple-12_ID-1_Default	0

PROPERTY_Decoder_Code1D_ISBT-128_Couple-13_ID-0 17306	Public
See the ID 0 and 1 of this couple	
Property values	

Name	Value
Decoder_Code1D_ISBT-128_Couple-13_ID-0_Default	0

PROPERTY_Decoder_Code1D_ISBT-128_Couple-13_ID-0 17306	Public
PROPERTY_Decoder_Code1D_ISBT-128_Couple-13_ID-1 17307	**Public**
See the ID 0 and 1 of this couple	
Property values	

Name	Value
Decoder_Code1D_ISBT-128_Couple-13_ID-1_Default	0

PROPERTY_Decoder_Code1D_ISBT-128_Couple-14_ID-0 17308	**Public**
See the ID 0 and 1 of this couple	
Property values	

Name	Value
Decoder_Code1D_ISBT-128_Couple-14_ID-0_Default	0

PROPERTY_Decoder_Code1D_ISBT-128_Couple-14_ID-1 17309	**Public**
See the ID 0 and 1 of this couple	
Property values	

Name	Value
Decoder_Code1D_ISBT-128_Couple-14_ID-1_Default	0

PROPERTY_Decoder_Code1D_ISBT-128_Couple-15_ID-0 17310	**Public**
See the ID 0 and 1 of this couple	
Property values	

Name	Value
Decoder_Code1D_ISBT-128_Couple-15_ID-0_Default	0

PROPERTY_Decoder_Code1D_ISBT-128_Couple-15_ID-1 17311	**Public**
See the ID 0 and 1 of this couple	
Property values	

Name	Value
Decoder_Code1D_ISBT-128_Couple-15_ID-1_Default	0

PROPERTY_Decoder_Code1D_ISBT-128_Concatenation_Enable 17312	**Public**
Enables or disables ISBT128 concatenation of 2 labels	
Property values	

Name	Value
Decoder_Code1D_ISBT-128_Concatenation_Enable_Enable	1
Decoder_Code1D_ISBT-128_Concatenation_Enable_Disable	0
Decoder_Code1D_ISBT-128_Concatenation_Enable_Default	0

PROPERTY_Decoder_Code1D_ISBT-128_Concatenation_Mode 17313	**Public**

PROPERTY_Decoder_Code1D_ISBT-128_Concatenation_Enable 17312	Public

Specifies the concatenation mode between Static and Dynamic	
Property values	

Name	Value
Decoder_Code1D_ISBT-128_Concatenation_Mode_Dynamic	1
Decoder_Code1D_ISBT-128_Concatenation_Mode_Static	0
Decoder_Code1D_ISBT-128_Concatenation_Mode_Default	0

PROPERTY_Decoder_Code1D_ISBT-128_Concatenation_Timeout 17314	Public

Specifies the timeout (10ms) used by the ISBT 128 Dynamic Concatenation Mode (min=0, max=6000)	
Property values	

Name	Value
Decoder_Code1D_ISBT-128_Concatenation_Timeout_Default	10

PROPERTY_Decoder_Code1D_ISBT-128_CListEnable 17315	Public

-	
Property values	

Name	Value
Decoder_Code1D_ISBT-128_CListEnable_Default	0

PROPERTY_Decoder_Code1D_ISBT-128_ConcatenateOnlySameModule 17316	Public

If enable the X modulus of both bar codes must be the same	
Property values	

Name	Value
Decoder_Code1D_ISBT-128_ConcatenateOnlySameModule_Default	0

Interleaved 2of5 properties

PROPERTY_Decoder_Code1D_Interleaved-2-5_Enable 17330	Public

Enables or disables the Interlaved 2of5 symbology	
Property values	

Name	Value
Decoder_Code1D_Interleaved-2-5_Enable_Enable	1
Decoder_Code1D_Interleaved-2-5_Enable_Disable	0
Decoder_Code1D_Interleaved-2-5_Enable_Default	0

PROPERTY_Decoder_Code1D_Interleaved-2-5_Length-Control 17331	Public

PROPERTY_Decoder_Code1D_Interleaved-2-5_Enable 17330	**Public**

This feature specifies either variable length decoding or fixed length decoding for the Interleaved 2o5 symbology. Options are: 0 (variable length), 1 (fixed length), 2 (No length control)

Property values

Name	Value
Decoder_Code1D_Interleaved-2-5_Length-Control_Variable	0
Decoder_Code1D_Interleaved-2-5_Length-Control_Fixed	1
Decoder_Code1D_Interleaved-2-5_Length-Control_No_Check	2
Decoder_Code1D_Interleaved-2-5_Length-Control_Default	2

PROPERTY_Decoder_Code1D_Interleaved-2-5_Length1 17332	**Public**

Specifies one of the barcode lengths for Interleaved 2of5 Length Control. Length 1 is the minimum label length if in Variable Length Mode, or the first fixed length if in Fixed Length Mode. The length includes the barcode's check and data characters. The length can be set from 1 to 66 characters in increments of two

Property values

Name	Value
Decoder_Code1D_Interleaved-2-5_Length1_Default	6

PROPERTY_Decoder_Code1D_Interleaved-2-5_Length2 17333	**Public**

This feature specifies one of the barcode lengths for Interleaved 2of5 Length Control. Length 2 is the maximum label length in Variable Length Mode, or the second fixed length in Fixed Length Mode. The length includes the barcode's check and data characters. The length can be set from 1 to 66 characters. A setting of 0 specifies to ignore this length (only one fixed length)

Property values

Name	Value
Decoder_Code1D_Interleaved-2-5_Length2_Default	50

PROPERTY_Decoder_Code1D_Interleaved-2-5_Check-Digit 17334	**Public**

This option enables or disables the calculation and verification of an optional Interleaved 2o5 check character. Possible values: see available defines.

Property values

Name	Value
Decoder_Code1D_Interleaved-2-5_Check-Digit_Disable	0
Decoder_Code1D_Interleaved-2-5_Check-Digit_Standard_Mod10_Check	1
Decoder_Code1D_Interleaved-2-5_Check-Digit_GermanParcel_Check	2
Decoder_Code1D_Interleaved-2-5_Check-Digit_DHL_Check	4
Decoder_Code1D_Interleaved-2-5_Check-Digit_DaimlerChrysler_Check	8
Decoder_Code1D_Interleaved-2-5_Check-Digit_BOSCH_Check	16

PROPERTY_Decoder_Code1D_Interleaved-2-5_Check-Digit 17334	Public
Decoder_Code1D_Interleaved-2-5_Check-Digit_ItalianPost_Check	32
Decoder_Code1D_Interleaved-2-5_Check-Digit_FolletAlgorithm_Check	64
Decoder_Code1D_Interleaved-2-5_Check-Digit_CipHRAlgorithm_Check	128
Decoder_Code1D_Interleaved-2-5_Check-Digit_Default	0

PROPERTY_Decoder_Code1D_Interleaved-2-5_Check-Digit-Tx 17335	Public
Enable this option to transmit the check character along with I barcode data	
Property values	

Name	Value
Decoder_Code1D_Interleaved-2-5_Check-Digit-Tx_Default	0

PROPERTY_Decoder_Code1D_Interleaved-2-5_CIPEnable 17336	Public
Enables or disables the CIP symbology	
Property values	

Name	Value
Decoder_Code1D_Interleaved-2-5_CIPEnable_Default	0

PROPERTY_Decoder_Code1D_Interleaved-2-5_FollettEnable 17337	Public
Enables or disables the Follett symbology	
Property values	

Name	Value
Decoder_Code1D_Interleaved-2-5_FollettEnable_Default	0

PROPERTY_Decoder_Code1D_Interleaved-2-5_Quiet-Zones 17338	Public
Changes the quiet zone parameter. Only 1D products supports this property. Supported values are 1,2,3	
Property values	

Name	Value
Decoder_Code1D_Interleaved-2-5_Quiet-Zones_QZ_One_Side	1
Decoder_Code1D_Interleaved-2-5_Quiet-Zones_QZ_Two_Side	2
Decoder_Code1D_Interleaved-2-5_Quiet-Zones_Auto	3
Decoder_Code1D_Interleaved-2-5_Quiet-Zones_Default	2

PROPERTY_Decoder_Code1D_Interleaved-2-5_ShortMargin 17346	Public
-	
Property values	

Name	Value
Decoder_Code1D_Interleaved-2-5_ShortMargin_Default	0

Standard 2of5 properties

PROPERTY_Decoder_Code1D_Standard-2-5_Enable 17350	Public
Enables or disables the Standard 2 of 5 symbology	
Property values	

Name	Value
Decoder_Code1D_Standard-2-5_Enable_Enable	1
Decoder_Code1D_Standard-2-5_Enable_Disable	0
Decoder_Code1D_Standard-2-5_Enable_Default	0

PROPERTY_Decoder_Code1D_Standard-2-5_Length-Control 17351	Public
This feature specifies either variable length decoding or fixed length decoding for the Standard 2of5 symbology. Options are: 0 (variable length), 1 (fixed length), 2 (No length control)	
Property values	

Name	Value
Decoder_Code1D_Standard-2-5_Length-Control_Variable	0
Decoder_Code1D_Standard-2-5_Length-Control_Fixed	1
Decoder_Code1D_Standard-2-5_Length-Control_No_Check	2
Decoder_Code1D_Standard-2-5_Length-Control_Default	2

PROPERTY_Decoder_Code1D_Standard-2-5_Length1 17352	Public
Specifies one of the barcode lengths for Standard 2of5 Length Control. Length 1 is the minimum label length if in Variable Length Mode, or the first fixed length if in Fixed Length Mode. Length includes the barcode's check and data characters. The length can be set from 1 to 66 characters	
Property values	

Name	Value
Decoder_Code1D_Standard-2-5_Length1_Default	6

PROPERTY_Decoder_Code1D_Standard-2-5_Length2 17353	Public
Specifies one of the barcode lengths for Standard 2of5 Length Control. Length 2 is the maximum label length if in Variable Length Mode, or the second fixed length if in Fixed Length Mode. Length includes the barcode's check and data characters. The length can be set from 1 to 66 characters. A setting of 0 specifies to ignore this length (only one fixed length)	
Property values	

Name	Value
Decoder_Code1D_Standard-2-5_Length2_Default	50

PROPERTY_Decoder_Code1D_Standard-2-5_Check-Digit 17354	Public

This option enables or disables calculation and verification of an optional Standard 2of5 check digit character

Property values

Name	Value
Decoder_Code1D_Standard-2-5_Check-Digit_Default	0

PROPERTY_Decoder_Code1D_Standard-2-5_Check-Digit-Tx 17355	Public

This feature enables or disables the transmission of an optional Standard 2of5 check character

Property values

Name	Value
Decoder_Code1D_Standard-2-5_Check-Digit-Tx_Default	1

PROPERTY_Decoder_Code1D_Standard-2-5_Quiet-Zones 17356	Public

Enables or disables the short Quiet Zone parameter

Property values

Name	Value
Decoder_Code1D_Standard-2-5_Quiet-Zones_Default	0

PROPERTY_Decoder_Code1D_Standard-2-5_InterdigitRatio 17357	Public

This feature specifies the ratio between an intercharacter space and module for Standard 2of5 labels (min=1, max=10)

Property values

Name	Value
Decoder_Code1D_Standard-2-5_InterdigitRatio_Default	0

Industrial 2of5 properties

PROPERTY_Decoder_Code1D_Industrial-2-5_Enable 17370	Public

Enables or disables the Industrial 2of5 symbology.

Property values

Name	Value
Decoder_Code1D_Industrial-2-5_Enable_Enable	1
Decoder_Code1D_Industrial-2-5_Enable_Disable	0
Decoder_Code1D_Industrial-2-5_Enable_Default	0

PROPERTY_Decoder_Code1D_Industrial-2-5_Length-Control 17371	Public

This feature specifies either variable length decoding or fixed length decoding for the Industrial 2of5 symbology.

Property values

PROPERTY_Decoder_Code1D_Industrial-2-5_Enable 17370	Public

Name	Value
Decoder_Code1D_Industrial-2-5_Length-Control_Variable	0
Decoder_Code1D_Industrial-2-5_Length-Control_Fixed	1
Decoder_Code1D_Industrial-2-5_Length-Control_No_Check	2
Decoder_Code1D_Industrial-2-5_Length-Control_Default	2

PROPERTY_Decoder_Code1D_Industrial-2-5_Length1 17372	Public

This feature specifies one of the barcode lengths for Industrial 2 of 5 Length Control. Length 1 is the minimum label length if in Variable Length Mode, or the first fixed length if in Fixed Length Mode. Length includes the barcode's data characters only. The length can be set from 1 to 66 characters.

Property values

Name	Value
Decoder_Code1D_Industrial-2-5_Length1_Default	6

PROPERTY_Decoder_Code1D_Industrial-2-5_Length2 17373	Public

This feature specifies one of the barcode lengths for Industrial 2 of 5 Length Control. Length 2 is the maximum label length if in Variable Length Mode, or the second fixed length if in Fixed Length Mode. Length includes the barcode's check, data, and full-ASCII shift characters. The length does not include start/stop characters. The length can be set from 1 to 66 characters. A setting of 0 specifies to ignore this length (only one fixed length).

Property values

Name	Value
Decoder_Code1D_Industrial-2-5_Length2_Default	50

PROPERTY_Decoder_Code1D_Industrial-2-5_Check-Digit 17374	Public

Enables or disables calculation and verification of an optional Industrial 2of5 check character.

Property values

Name	Value
Decoder_Code1D_Industrial-2-5_Check-Digit_Default	0

PROPERTY_Decoder_Code1D_Industrial-2-5_Check-Digit-Tx 17375	Public

Enables or disables the transmission of an Industrial 2of5 check character.

Property values

Name	Value
Decoder_Code1D_Industrial-2-5_Check-Digit-Tx_Default	0

PROPERTY_Decoder_Code1D_Industrial-2-5_Quiet-Zones 17376	Public

Enables or disables the short Quiet Zone parameter.

PROPERTY_Decoder_Code1D_Industrial-2-5_Quiet-Zones 17376		Public
Property values		
Name		**Value**
Decoder_Code1D_Industrial-2-5_Quiet-Zones_Default		0
PROPERTY_Decoder_Code1D_Industrial-2-5_InterdigitRatio 17377		Public
This feature specifies the ratio between an intercharacter space and module for Industrial 2of5 labels (min=1, max=10).		
Property values		
Name		**Value**
Decoder_Code1D_Industrial-2-5_InterdigitRatio_Default		0

IATA

PROPERTY_Decoder_Code1D_IATA_Enable 17390		Public
Enables or disables the IATA symbology		
Property values		
Name		**Value**
Decoder_Code1D_IATA_Enable_Enable		1
Decoder_Code1D_IATA_Enable_Disable		0
Decoder_Code1D_IATA_Enable_Default		0
PROPERTY_Decoder_Code1D_IATA_Check-Digit-Tx 17391		Public
Enables or disables the transmission of the IATA check digit character.		
Property values		
Name		**Value**
Decoder_Code1D_IATA_Check-Digit-Tx_Default		1

Datalogic 2of5 properties

PROPERTY_Decoder_Code1D_Datalogic-2-5_Enable 17400		Public
Enables or disables the Datalogic 2of5 symbology		
Property values		
Name		**Value**
Decoder_Code1D_Datalogic-2-5_Enable_Enable		1
Decoder_Code1D_Datalogic-2-5_Enable_Disable		0
Decoder_Code1D_Datalogic-2-5_Enable_Default		0
PROPERTY_Decoder_Code1D_Datalogic-2-5_Length-Control 17401		Public

PROPERTY_Decoder_Code1D_Datalogic-2-5_Enable 17400	**Public**

This feature specifies either variable length decoding or fixed length decoding for the Datalogic 2of5 symbology

Property values

Name	Value
Decoder_Code1D_Datalogic-2-5_Length-Control_Variable	0
Decoder_Code1D_Datalogic-2-5_Length-Control_Fixed	1
Decoder_Code1D_Datalogic-2-5_Length-Control_No_Check	2
Decoder_Code1D_Datalogic-2-5_Length-Control_Default	2

PROPERTY_Decoder_Code1D_Datalogic-2-5_Length1 17402	**Public**

This feature specifies one of the barcode lengths for Datalogic 2of5 Length Control. Length 1 is the minimum label length if in Variable Length Mode, or the first fixed length if in Fixed Length Mode. Length includes the barcode's data characters only. The length can be set from 1 to 66 characters

Property values

Name	Value
Decoder_Code1D_Datalogic-2-5_Length1_Default	1

PROPERTY_Decoder_Code1D_Datalogic-2-5_Length2 17403	**Public**

This feature specifies one of the barcode lengths for Datalogic 2of5 Length Control. Length 2 is the maximum label length if in Variable Length Mode, or the second fixed length if in Fixed Length Mode. Length includes the barcode's check, data, and full-ASCII shift characters. The length does not include start/stop characters. The length can be set from 1 to 66 characters. A setting of 0 specifies to ignore this length (only one fixed length)

Property values

Name	Value
Decoder_Code1D_Datalogic-2-5_Length2_Default	50

PROPERTY_Decoder_Code1D_Datalogic-2-5_Check-Digit 17404	**Public**

Enables or disables the calculation and verification of the optional Datalogic 2of5 check character

Property values

Name	Value
Decoder_Code1D_Datalogic-2-5_Check-Digit_Default	0

PROPERTY_Decoder_Code1D_Datalogic-2-5_Check-Digit-Tx 17405	**Public**

Enables or disables the transmission of the Datalogic 2of5 check digit character

Property values

Name	Value
Decoder_Code1D_Datalogic-2-5_Check-Digit-Tx_Default	1

PROPERTY_Decoder_Code1D_Datalogic-2-5_Quiet-Zones 17406	Public
Enables or disables the short Quiet Zone parameter	
Property values	

Name	Value
Decoder_Code1D_Datalogic-2-5_Quiet-Zones_Default	0

PROPERTY_Decoder_Code1D_Datalogic-2-5_InterdigitRatio 17407	Public
This feature specifies the ratio between an intercharacter space and the barcode module for Datalogic 2of5 labels (min=1, max=10)	
Property values	

Name	Value
Decoder_Code1D_Datalogic-2-5_InterdigitRatio_Default	0

Matrix 2of5 properties

PROPERTY_Decoder_Code1D_Matrix-2-5_Enable 17420	Public
Enables or disables the Matrix 2of5 symbology.	
Property values	

Name	Value
Decoder_Code1D_Matrix-2-5_Enable_Enable	1
Decoder_Code1D_Matrix-2-5_Enable_Disable	0
Decoder_Code1D_Matrix-2-5_Enable_Default	0

PROPERTY_Decoder_Code1D_Matrix-2-5_Length-Control 17421	Public
Specifies either variable-length decoding or fixed-length decoding for Matrix 2of5. Options are: 0 (variable length), 1 (fixed length), 2 (no check).	
Property values	

Name	Value
Decoder_Code1D_Matrix-2-5_Length-Control_Variable	0
Decoder_Code1D_Matrix-2-5_Length-Control_Fixed	1
Decoder_Code1D_Matrix-2-5_Length-Control_No_Check	2
Decoder_Code1D_Matrix-2-5_Length-Control_Default	2

PROPERTY_Decoder_Code1D_Matrix-2-5_Length1 17422	Public
Length 1 is the minimum label length if in variable length mode, or the first fixed length if in fixed length mode. Length includes the barcode's start, stop, check and data characters. The length must include at least one data character. Min=1, Max=66.	
Property values	

Name	Value

PROPERTY_Decoder_Code1D_Matrix-2-5_Length1 17422	Public
Decoder_Code1D_Matrix-2-5_Length1_Default	1

PROPERTY_Decoder_Code1D_Matrix-2-5_Length2 17423	Public

Length 2 is the maximum label length if in variable length mode, or the second fixed length if in fixed length mode. Length includes the barcode's check and data characters. Min=0, Max=66, 0 => ignore this length.

Property values

Name	Value
Decoder_Code1D_Matrix-2-5_Length2_Default	50

PROPERTY_Decoder_Code1D_Matrix-2-5_Check-Digit 17424	Public

Enables or disables the calculation and verification of the optional Matrix 2of5 check character.

Property values

Name	Value
Decoder_Code1D_Matrix-2-5_Check-Digit_Default	0

PROPERTY_Decoder_Code1D_Matrix-2-5_Check-Digit-Tx 17425	Public

Enables or disables the transmission of the Matrix 2of5 check digit character.

Property values

Name	Value
Decoder_Code1D_Matrix-2-5_Check-Digit-Tx_Default	1

PROPERTY_Decoder_Code1D_Matrix-2-5_QuietZones 17426	Public

Enables or disables the short Quiet Zone parameter.

Property values

Name	Value
Decoder_Code1D_Matrix-2-5_QuietZones_Default	0

PROPERTY_Decoder_Code1D_Matrix-2-5_InterdigitRatio 17428	Public

This feature specifies the ratio between an intercharacter space and the barcode module for Matrix 2of5 labels (min=1, max=10).

Property values

Name	Value
Decoder_Code1D_Matrix-2-5_InterdigitRatio_Default	0

Codabar properties

PROPERTY_Decoder_Code1D_Codabar_Enable 17440	Public

Enables or disables the Codabar symbology.

Property values

PROPERTY_Decoder_Code1D_Codabar_Enable 17440	Public
Name	**Value**
Decoder_Code1D_Codabar_Enable_Enable	1
Decoder_Code1D_Codabar_Enable_Disable	0
Decoder_Code1D_Codabar_Enable_Default	0

PROPERTY_Decoder_Code1D_Codabar_Length-Control 17441	Public
This feature specifies either variable length decoding or fixed length decoding for the Codabar symbology.	
Property values	

Name	**Value**
Decoder_Code1D_Codabar_Length-Control_Variable	0
Decoder_Code1D_Codabar_Length-Control_Fixed	1
Decoder_Code1D_Codabar_Length-Control_No_Check	2
Decoder_Code1D_Codabar_Length-Control_Default	2

PROPERTY_Decoder_Code1D_Codabar_Length1 17442	Public
This feature specifies one of the barcode lengths for Codabar Length Control. Length 1 is the minimum label length if in Variable Length Mode, or the first fixed length if in Fixed Length Mode. Length includes the barcode's data characters only. The length can be set from 1 to 66 characters.	
Property values	

Name	**Value**
Decoder_Code1D_Codabar_Length1_Default	1

PROPERTY_Decoder_Code1D_Codabar_Length2 17443	Public
This feature specifies one of the barcode lengths for Codabar Length Control. Length 2 is the maximum label length if in Variable Length Mode, or the second fixed length if in Fixed Length Mode. Length includes the barcode's check, data, and full-ASCII shift characters. The length does not include start/stop characters. The length can be set from 1 to 66 characters. A setting of 0 specifies to ignore this length (only one fixed length).	
Property values	

Name	**Value**
Decoder_Code1D_Codabar_Length2_Default	50

PROPERTY_Decoder_Code1D_Codabar_Start-Stop-Tx 17444	Public
Enable/Disable the transmission of the Start and Stop digits.	
Property values	

Name	**Value**
Decoder_Code1D_Codabar_Start-Stop-Tx_Default	1

PROPERTY_Decoder_Code1D_Codabar_Start-Stop-Match 17445	Public

PROPERTY_Decoder_Code1D_Codabar_Start-Stop-Tx 17444	**Public**

When enabled, this option requires that start and stop characters match.

Property values

Name	Value
Decoder_Code1D_Codabar_Start-Stop-Match_Default	0

PROPERTY_Decoder_Code1D_Codabar_Check-Digit 17446	**Public**

Enables or disables calculation and verification of an optional Codabar check character.

Property values

Name	Value
Decoder_Code1D_Codabar_Check-Digit_Disable	0
Decoder_Code1D_Codabar_Check-Digit_Standard_Mod16_Check	1
Decoder_Code1D_Codabar_Check-Digit_Mod10_Check	2
Decoder_Code1D_Codabar_Check-Digit_NW7_Check	4
Decoder_Code1D_Codabar_Check-Digit_BeckmanCoulter_Check	8
Decoder_Code1D_Codabar_Check-Digit_Mod11_Check	16
Decoder_Code1D_Codabar_Check-Digit_Mod10Weight2_Check	32
Decoder_Code1D_Codabar_Check-Digit_Mod10Weight3_Check	64
Decoder_Code1D_Codabar_Check-Digit__7DR_Check	128
Decoder_Code1D_Codabar_Check-Digit__7DSR_Check	256
Decoder_Code1D_Codabar_Check-Digit_Mod11Weight_Check	512
Decoder_Code1D_Codabar_Check-Digit_RUNZU_Check	1024
Decoder_Code1D_Codabar_Check-Digit_Default	0

PROPERTY_Decoder_Code1D_Codabar_Check-Digit-Tx 17447	**Public**

Enables or disables the transmission of a Codabar check digit character.

Property values

Name	Value
Decoder_Code1D_Codabar_Check-Digit-Tx_Default	1

PROPERTY_Decoder_Code1D_Codabar_QuietZones 17448	**Public**

Enables or disables the short Quiet Zone parameter.

Property values

Name	Value
Decoder_Code1D_Codabar_QuietZones_No_QZ	0
Decoder_Code1D_Codabar_QuietZones_QZ_One_Side	1
Decoder_Code1D_Codabar_QuietZones_QZ_Two_Side	2
Decoder_Code1D_Codabar_QuietZones_Auto	3
Decoder_Code1D_Codabar_QuietZones_FourReads	4

PROPERTY_Decoder_Code1D_Codabar_QuietZones 17448	Public
Decoder_Code1D_Codabar_QuietZones_SmallQZ_Two_Side	5
Decoder_Code1D_Codabar_QuietZones_Default	3

PROPERTY_Decoder_Code1D_Codabar_ShortMargin 17454	Public
-	
Property values	

Name	Value
Decoder_Code1D_Codabar_ShortMargin_Default	0

ABC Codabar properties

PROPERTY_Decoder_Code1D_ABC-Codabar_Enable 17460	Public
Enables or disables decoding ABC Codabar labels.	
Property values	

Name	Value
Decoder_Code1D_ABC-Codabar_Enable_Enable	1
Decoder_Code1D_ABC-Codabar_Enable_Disable	0
Decoder_Code1D_ABC-Codabar_Enable_Default	0

PROPERTY_Decoder_Code1D_ABC-Codabar_ConcatenationMode 17461	Public
Specifies the concatenation mode between Static (0) and Dynamic (1).	
Property values	

Name	Value
Decoder_Code1D_ABC-Codabar_ConcatenationMode_Dynamic	1
Decoder_Code1D_ABC-Codabar_ConcatenationMode_Static	0
Decoder_Code1D_ABC-Codabar_ConcatenationMode_Default	0

PROPERTY_Decoder_Code1D_ABC-Codabar_ConcatenationTimeout 17462	Public
Specifies the timeout in 10-millisecond ticks used by the ABC Codabar Dynamic Concatenation Mode (min=5, max=255).	
Property values	

Name	Value
Decoder_Code1D_ABC-Codabar_ConcatenationTimeout_Default	20

Databar properties

PROPERTY_Decoder_Code1D_GS1-Databar_Omn_Enable 17470	**Public**
Enables or disables GS1 Databar Omnidirectional symbology	
Property values	

Name	Value
Decoder_Code1D_GS1-Databar_Omn_Enable_Enable	1
Decoder_Code1D_GS1-Databar_Omn_Enable_Disable	0
Decoder_Code1D_GS1-Databar_Omn_Enable_Default	0

PROPERTY_Decoder_Code1D_GS1-Databar_Stacked_Enable 17473	**Public**
Enables or disables GS1 Databar Omnidirectional symbology	
Property values	

Name	Value
Decoder_Code1D_GS1-Databar_Stacked_Enable_Enable	1
Decoder_Code1D_GS1-Databar_Stacked_Enable_Disable	0
Decoder_Code1D_GS1-Databar_Stacked_Enable_Default	0

PROPERTY_Decoder_Code1D_GS1-Databar_Lim_Enable 17474	**Public**
Enables or disables the GS1 DataBar Limited symbology	
Property values	

Name	Value
Decoder_Code1D_GS1-Databar_Lim_Enable_Enable	1
Decoder_Code1D_GS1-Databar_Lim_Enable_Disable	0
Decoder_Code1D_GS1-Databar_Lim_Enable_Default	0

PROPERTY_Decoder_Code1D_GS1-Databar_Exp_Enable 17477	**Public**
Enables or disables the GS1 DataBar Expanded symbology	
Property values	

Name	Value
Decoder_Code1D_GS1-Databar_Exp_Enable_Enable	1
Decoder_Code1D_GS1-Databar_Exp_Enable_Disable	0
Decoder_Code1D_GS1-Databar_Exp_Enable_Default	0

PROPERTY_Decoder_Code1D_GS1-Databar_Exp_Length-Control 17478	**Public**
This feature specifies one of the barcode lengths for GS1 DataBar Expanded Length Control. Length 1 is the minimum label length if in Variable Length Mode, or the first fixed length if in Fixed Length Mode. Length includes the barcode's data characters only. The length can be set from 1 to 74 characters	
Property values	

Name	Value

PROPERTY_Decoder_Code1D_GS1-Databar_Exp_Length-Control 17478	Public
Decoder_Code1D_GS1-Databar_Exp_Length-Control_Variable	0
Decoder_Code1D_GS1-Databar_Exp_Length-Control_Fixed	1
Decoder_Code1D_GS1-Databar_Exp_Length-Control_No_Check	2
Decoder_Code1D_GS1-Databar_Exp_Length-Control_Default	2

PROPERTY_Decoder_Code1D_GS1-Databar_Exp_Length1 17479	Public
This feature specifies one of the barcode lengths for GS1 DataBar Expanded Length Control. Length 1 is the minimum label length if in Variable Length Mode, or the first fixed length if in Fixed Length Mode. Length includes the barcode's data characters only. The length can be set from 1 to 74 characters	
Property values	

Name	Value
Decoder_Code1D_GS1-Databar_Exp_Length1_Default	1

PROPERTY_Decoder_Code1D_GS1-Databar_Exp_Length2 17480	Public
This feature specifies one of the barcode lengths for GS1 DataBar Expanded Length Control. Length 2 is the maximum label length if in Variable Length Mode, or the second fixed length if in Fixed Length Mode. Length includes the barcode's data characters only. The length can be set from 1 to 74 characters. A setting of 0 specifies to ignore this length (only one fixed length)	
Property values	

Name	Value
Decoder_Code1D_GS1-Databar_Exp_Length2_Default	74

PROPERTY_Decoder_Code1D_GS1-Databar_Exp-Stacked_Enable 17483	Public
Enables or disables the GS1 DataBar Expanded Stacked symbology	
Property values	

Name	Value
Decoder_Code1D_GS1-Databar_Exp-Stacked_Enable_Default	0

PROPERTY_Decoder_Code1D_GS1-Databar_GS1-128-Emulation_Omnidirectional 17486	Public
-	
Property values	

Name	Value
Decoder_Code1D_GS1-Databar_GS1-128-Emulation_Omnidirectional_Default	0

PROPERTY_Decoder_Code1D_GS1-Databar_GS1-128-Emulation_Stacked 17487	Public
-	

PROPERTY_Decoder_Code1D_GS1-Databar_GS1-128-Emulation_Omnidirectional 17486		Public
Property values		
Name		**Value**
Decoder_Code1D_GS1-Databar_GS1-128-Emulation_Stacked_Default		0

PROPERTY_Decoder_Code1D_GS1-Databar_GS1-128-Emulation_Limited 17488		Public
-		
Property values		
Name		**Value**
Decoder_Code1D_GS1-Databar_GS1-128-Emulation_Limited_Default		0

PROPERTY_Decoder_Code1D_GS1-Databar_GS1-128-Emulation_Expanded 17489		Public
-		
Property values		
Name		**Value**
Decoder_Code1D_GS1-Databar_GS1-128-Emulation_Expanded_Default		0

Code93 properties

PROPERTY_Decoder_Code1D_Code93_Enable 17490	Public
Enables or disables the Code93 symbology.	

Name	**Value**
Decoder_Code1D_Code93_Enable_Enable	1
Decoder_Code1D_Code93_Enable_Disable	0
Decoder_Code1D_Code93_Enable_Default	0

PROPERTY_Decoder_Code1D_Code93_Length-Control 17491	Public
This feature specifies one of the barcode lengths for Code93 Length Control. Length 1 is the minimum label length if in Variable Length Mode, or the first fixed length if in Fixed Length Mode. Length includes the barcode's data characters only. The length can be set from 1 to 74 characters.	

Name	**Value**
Decoder_Code1D_Code93_Length-Control_Variable	0
Decoder_Code1D_Code93_Length-Control_Fixed	1
Decoder_Code1D_Code93_Length-Control_No_Check	2

PROPERTY_Decoder_Code1D_Code93_Enable 17490	Public
Decoder_Code1D_Code93_Length-Control_Default	2

PROPERTY_Decoder_Code1D_Code93_Length1 17492	Public

Specifies one of the barcode lengths for Code 93 Length Control. Length 1 is the minimum label length if in Variable Length Mode, or the first fixed length if in Fixed Length Mode. Length includes the barcode's data characters only. The length can be set from 1 to 66 characters.

Property values

Name	Value
Decoder_Code1D_Code93_Length1_Default	1

PROPERTY_Decoder_Code1D_Code93_Length2 17493	Public

This feature specifies one of the barcode lengths for Code 93 Length Control. Length 2 is the maximum label length if in Variable Length Mode, or the second fixed length if in Fixed Length Mode. Length includes the barcode's check, data, and full-ASCII shift characters. The length does not include start/stop characters. The length can be set from 1 to 66 characters. A setting of 0 specifies to ignore this length (only one fixed length).

Property values

Name	Value
Decoder_Code1D_Code93_Length2_Default	50

PROPERTY_Decoder_Code1D_Code93_Check-Digit 17494	Public

Enables or disables calculation and verification of an optional Code 93 check character. Possible values: see available defines.

Property values

Name	Value
Decoder_Code1D_Code93_Check-Digit_Disable	0
Decoder_Code1D_Code93_Check-Digit_C_Check	1
Decoder_Code1D_Code93_Check-Digit_K_Check	2
Decoder_Code1D_Code93_Check-Digit_Default	3

PROPERTY_Decoder_Code1D_Code93_Check-Digit-Tx 17495	Public

Enables or disables the transmission of an optional Code 93 check digit character.

Property values

Name	Value
Decoder_Code1D_Code93_Check-Digit-Tx_Default	0

PROPERTY_Decoder_Code1D_Code93_Quiet-Zones 17496	Public

Enables or disables the short Quiet Zone parameter.

Property values

Name	Value

PROPERTY_Decoder_Code1D_Code93_Quiet-Zones 17496	Public
Decoder_Code1D_Code93_Quiet-Zones_No_QZ	0
Decoder_Code1D_Code93_Quiet-Zones_QZ_One_Side	1
Decoder_Code1D_Code93_Quiet-Zones_QZ_Two_Side	2
Decoder_Code1D_Code93_Quiet-Zones_Auto	3
Decoder_Code1D_Code93_Quiet-Zones_FourReads	4
Decoder_Code1D_Code93_Quiet-Zones_SmallQZ_Two_Side	5
Decoder_Code1D_Code93_Quiet-Zones_Default	3

PROPERTY_Decoder_Code1D_Code93_ShortMargin 17500	Public
-	
Property values	

Name	Value
Decoder_Code1D_Code93_ShortMargin_Default	0

MSI Code properties

PROPERTY_Decoder_Code1D_MSI_Enable 17510	Public
Enables or disables the MSI symbology.	
Property values	

Name	Value
Decoder_Code1D_MSI_Enable_Enable	1
Decoder_Code1D_MSI_Enable_Disable	0
Decoder_Code1D_MSI_Enable_Default	0

PROPERTY_Decoder_Code1D_MSI_Length-Control 17511	Public
This feature specifies either variable length decoding or fixed length decoding for the MSI symbology. Options are: 0 (variable length), 1 (fixed length), 2 (no control).	
Property values	

Name	Value
Decoder_Code1D_MSI_Length-Control_Variable	0
Decoder_Code1D_MSI_Length-Control_Fixed	1
Decoder_Code1D_MSI_Length-Control_No_Check	2
Decoder_Code1D_MSI_Length-Control_Default	2

PROPERTY_Decoder_Code1D_MSI_Length1 17512	Public
This feature specifies one of the barcode lengths for MSI Length Control. Length 1 is the minimum label length if in Variable Length Mode, or the first fixed length if in Fixed Length Mode. Length includes the barcode's data characters only. The length can be set from 1 to 66 characters.	

PROPERTY_Decoder_Code1D_MSI_Length1 17512	Public

Property values	
Name	**Value**
Decoder_Code1D_MSI_Length1_Default	1

PROPERTY_Decoder_Code1D_MSI_Length2 17513	Public

This feature specifies one of the barcode lengths for MSI Length Control. Length 2 is the maximum label length if in Variable Length Mode, or the second fixed length if in Fixed Length Mode. Length includes the barcode's check and data. The length does not include start/stop characters. The length can be set from 1 to 66 characters. A setting of 0 specifies to ignore this length (only one fixed length)

Property values	
Name	**Value**
Decoder_Code1D_MSI_Length2_Default	50

PROPERTY_Decoder_Code1D_MSI_Check-Digit 17514	Public

Enables or Disables calculation and verification of an optional MSI check character. Possible values: see available defines.

Property values	
Name	**Value**
Decoder_Code1D_MSI_Check-Digit_Disable	0
Decoder_Code1D_MSI_Check-Digit_Mod10_Check	1
Decoder_Code1D_MSI_Check-Digit_Mod11Mod10_Check	2
Decoder_Code1D_MSI_Check-Digit_Mod10Mod10_Check	3
Decoder_Code1D_MSI_Check-Digit_Default	1

PROPERTY_Decoder_Code1D_MSI_Check-Digit-Tx 17515	Public

Enables or disables the transmission of an MSI check character.

Property values	
Name	**Value**
Decoder_Code1D_MSI_Check-Digit-Tx_Default	1

PROPERTY_Decoder_Code1D_MSI_Quiet-Zones 17516	Public

Enables or disables the short Quiet Zone parameter.

Property values	
Name	**Value**
Decoder_Code1D_MSI_Quiet-Zones_Default	0

Plessey code properties

PROPERTY_Decoder_Code1D_Plessey_Enable 17530	Public

Enables or disables the Plessey symbology

Property values

Name	Value
Decoder_Code1D_Plessey_Enable_Enable	1
Decoder_Code1D_Plessey_Enable_Disable	0
Decoder_Code1D_Plessey_Enable_Default	0

PROPERTY_Decoder_Code1D_Plessey_Length-Control 17531	Public

This feature specifies either variable length decoding or fixed length decoding for the Plessey symbology. Options are: 0 (variable length), 1 (fixed length), 2 (no check)

Property values

Name	Value
Decoder_Code1D_Plessey_Length-Control_Variable	0
Decoder_Code1D_Plessey_Length-Control_Fixed	1
Decoder_Code1D_Plessey_Length-Control_No_Check	2
Decoder_Code1D_Plessey_Length-Control_Default	2

PROPERTY_Decoder_Code1D_Plessey_Length1 17532	Public

This feature specifies one of the barcode lengths for Plessey Length Control. Length 1 is the minimum label length if in Variable Length Mode, or the first fixed length if in Fixed Length Mode. Length includes the barcode's data characters only. The length can be set from 1 to 66 characters

Property values

Name	Value
Decoder_Code1D_Plessey_Length1_Default	1

PROPERTY_Decoder_Code1D_Plessey_Length2 17533	Public

This feature specifies one of the barcode lengths for Plessey Length Control. Length 2 is the maximum label length if in Variable Length Mode, or the second fixed length if in Fixed Length Mode. Length includes the barcode's check, data, and full-ASCII shift characters. The length does not include start/stop characters. The length can be set from 1 to 66 characters. A setting of 0 specifies to ignore this length (only one fixed length)

Property values

Name	Value
Decoder_Code1D_Plessey_Length2_Default	50

PROPERTY_Decoder_Code1D_Plessey_Check-Digit 17534	Public

Enables or disables the calculation and verification of an optional Plessey check character. Possible values: see available defines.

Property values

Name	Value

PROPERTY_Decoder_Code1D_Plessey_Check-Digit 17534		Public
Decoder_Code1D_Plessey_Check-Digit_Disable		0
Decoder_Code1D_Plessey_Check-Digit_Standard_Check		1
Decoder_Code1D_Plessey_Check-Digit_Anker_Check		2
Decoder_Code1D_Plessey_Check-Digit_Anker_Standard_Check		3
Decoder_Code1D_Plessey_Check-Digit_Default		1

PROPERTY_Decoder_Code1D_Plessey_Check-Digit-Tx 17535	Public
Enables or disables the transmission of the Plessey check character	
Property values	

Name	Value
Decoder_Code1D_Plessey_Check-Digit-Tx_Default	1

PROPERTY_Decoder_Code1D_Plessey_QuietZones 17536	Public
Enables or disables the short Quiet Zone parameter	
Property values	

Name	Value
Decoder_Code1D_Plessey_QuietZones_Default	0

Trioptic code properties

PROPERTY_Decoder_Code1D_Trioptic_Enable 17550	Public
Enables or disables the Trioptic symbology.	
Property values	

Name	Value
Decoder_Code1D_Trioptic_Enable_Enable	1
Decoder_Code1D_Trioptic_Enable_Disable	0
Decoder_Code1D_Trioptic_Enable_Default	0

BC412 properties

PROPERTY_Decoder_Code1D_BC412_Enable 17555	Public
Enables or disables the BC412 symbology.	
Property values	

Name	Value
Decoder_Code1D_BC412_Enable_Enable	1
Decoder_Code1D_BC412_Enable_Disable	0
Decoder_Code1D_BC412_Enable_Default	0

PROPERTY_Decoder_Code1D_BC412_Enable 17555	Public

PROPERTY_Decoder_Code1D_BC412_Length-Control 17556	Public

Specifies either variable-length decoding or fixed-length decoding for BC412. Options are: 0 (variable length), 1 (fixed length), 2 (no check).

Property values

Name	Value
Decoder_Code1D_BC412_Length-Control_Variable	0
Decoder_Code1D_BC412_Length-Control_Fixed	1
Decoder_Code1D_BC412_Length-Control_No_Check	2
Decoder_Code1D_BC412_Length-Control_Default	2

PROPERTY_Decoder_Code1D_BC412_Length1 17557	Public

Length 1 is the minimum label length if in variable length mode, or the first fixed length if in fixed length mode. Length includes the barcode's start, stop, check and data characters. The length must include at least one data character. Min=1, Max=66.

Property values

Name	Value
Decoder_Code1D_BC412_Length1_Default	1

PROPERTY_Decoder_Code1D_BC412_Length2 17558	Public

Length 2 is the maximum label length if in variable length mode, or the second fixed length if in fixed length mode. Length includes the barcode's check and data characters. Min=1, Max=66, 0 => ignore this length.

Property values

Name	Value
Decoder_Code1D_BC412_Length2_Default	50

PROPERTY_Decoder_Code1D_BC412_Check-Digit 17559	Public

Enables or disables the calculation and verification of the optional BC412 check character.

Property values

Name	Value
Decoder_Code1D_BC412_Check-Digit_Default	0

PROPERTY_Decoder_Code1D_BC412_Check-Digit-Tx 17560	Public

Enables or disables the transmission of the BC412 check digit character.

Property values

Name	Value
Decoder_Code1D_BC412_Check-Digit-Tx_Default	1

PROPERTY_Decoder_Code1D_BC412_QuietZones 17561	Public

Enables or disables the short Quiet Zone parameter.

PROPERTY_Decoder_Code1D_BC412_QuietZones 17561	Public
Property values	

Name	Value
Decoder_Code1D_BC412_QuietZones_Default	0

Code11 properties

PROPERTY_Decoder_Code1D_Code11_Enable 17570	Public
Enables or disables the Code 11 symbology	
Property values	

Name	Value
Decoder_Code1D_Code11_Enable_Enable	1
Decoder_Code1D_Code11_Enable_Disable	0
Decoder_Code1D_Code11_Enable_Default	0

PROPERTY_Decoder_Code1D_Code11_Length-Control 17571	Public
Specifies either variable-length decoding or fixed-length decoding for Code11. Options are: 0 (variable length), 1 (fixed length), 2 (no check)	
Property values	

Name	Value
Decoder_Code1D_Code11_Length-Control_Variable	0
Decoder_Code1D_Code11_Length-Control_Fixed	1
Decoder_Code1D_Code11_Length-Control_No_Check	2
Decoder_Code1D_Code11_Length-Control_Default	2

PROPERTY_Decoder_Code1D_Code11_Length1 17572	Public
Length 1 is the minimum label length if in variable length mode, or the first fixed length if in fixed length mode. Length includes the barcode's start, stop, check and data characters. The length must include at least one data character. Min=1, Max=66	
Property values	

Name	Value
Decoder_Code1D_Code11_Length1_Default	1

PROPERTY_Decoder_Code1D_Code11_Length2 17573	Public
Length 2 is the maximum label length if in variable length mode, or the second fixed length if in fixed length mode. Length includes the barcode's check and data characters. Min=1, Max=66, 0 => ignore this length	
Property values	

Name	Value
Decoder_Code1D_Code11_Length2_Default	50

PROPERTY_Decoder_Code1D_Code11_Check-Digit 17574	Public
Enables or disables the calculation and verification of optional Code 11 check character. Possible values: see available defines.	
Property values	

Name	Value
Decoder_Code1D_Code11_Check-Digit_Disable	0
Decoder_Code1D_Code11_Check-Digit_C_Check	1
Decoder_Code1D_Code11_Check-Digit_K_Check	2
Decoder_Code1D_Code11_Check-Digit_Default	3

PROPERTY_Decoder_Code1D_Code11_Check-Digit-Tx 17575	Public
Enables or disables the transmission of the Code11 check digit character.	
Property values	

Name	Value
Decoder_Code1D_Code11_Check-Digit-Tx_Default	1

PROPERTY_Decoder_Code1D_Code11_InterdigitRatio 17578	Public
This feature specifies the ratio between an intercharacter space and the barcode module for Code11 labels (min=1, max=10)	
Property values	

Name	Value
Decoder_Code1D_Code11_InterdigitRatio_Default	0

PROPERTY_Decoder_Code1D_Code11_QuietZones 17580	Public
Enables or disables the short Quiet Zone parameter	
Property values	

Name	Value
Decoder_Code1D_Code11_QuietZones_Default	0

Code4 properties

PROPERTY_Decoder_Code1D_Code4_Enable 17590	Public
Enables or disables the Code 4 symbology	
Property values	

Name	Value
Decoder_Code1D_Code4_Enable_Enable	1
Decoder_Code1D_Code4_Enable_Disable	0
Decoder_Code1D_Code4_Enable_Default	0

PROPERTY_Decoder_Code1D_Code4_Check-Digit-Tx 17591	Public

PROPERTY_Decoder_Code1D_Code4_Enable 17590	Public
Enables or disables the transmission of the Code4 check digit character.	
Property values	

Name	Value
Decoder_Code1D_Code4_Check-Digit-Tx_Default	1

PROPERTY_Decoder_Code1D_Code5_Enable 17592	Public
Enables or disables the Code 5 symbology	
Property values	

Name	Value
Decoder_Code1D_Code5_Enable_Enable	1
Decoder_Code1D_Code5_Enable_Disable	0
Decoder_Code1D_Code5_Enable_Default	0

PROPERTY_Decoder_Code1D_Code5_Check-Digit-Tx 17593	Public
Enables or disables the transmission of the Code11 check digit character.	
Property values	

Name	Value
Decoder_Code1D_Code5_Check-Digit-Tx_Default	0

PROPERTY_Decoder_Code1D_Code4-5_MinReads 17597	Public
-	
Property values	

Name	Value
Decoder_Code1D_Code4-5_MinReads_OneRead	1
Decoder_Code1D_Code4-5_MinReads_TwoReads	2
Decoder_Code1D_Code4-5_MinReads_ThreeReads	3
Decoder_Code1D_Code4-5_MinReads_FourReads	4
Decoder_Code1D_Code4-5_MinReads_Default	2

CodablockF properties

PROPERTY_Decoder_Code1D_CodablockF_Enable 17630	Public
Enables or disables the Code 11 symbology	
Property values	

Name	Value
Decoder_Code1D_CodablockF_Enable_Enable	1
Decoder_Code1D_CodablockF_Enable_Disable	0
Decoder_Code1D_CodablockF_Enable_Default	0

PROPERTY_Decoder_Code1D_CodablockF_Enable 17630	Public

PROPERTY_Decoder_Code1D_CodablockF_Length-Control 17633	Public

Specifies either variable-length decoding or fixed-length decoding for Codablock F. Options are: 0 (variable length), 1 (fixed length), 2 (no check)

Property values

Name	Value
Decoder_Code1D_CodablockF_Length-Control_Variable	0
Decoder_Code1D_CodablockF_Length-Control_Fixed	1
Decoder_Code1D_CodablockF_Length-Control_No_Check	2
Decoder_Code1D_CodablockF_Length-Control_Default	2

PROPERTY_Decoder_Code1D_CodablockF_Length1 17634	Public

Length 1 is the minimum label length if in variable length mode, or the first fixed length if in fixed length mode. Length includes the barcode's start, stop, check and data characters. The length must include at least one data character. Min=1, Max=66

Property values

Name	Value
Decoder_Code1D_CodablockF_Length1_Default	1

PROPERTY_Decoder_Code1D_CodablockF_Length2 17635	Public

Length 2 is the maximum label length if in variable length mode, or the second fixed length if in fixed length mode. Length includes the barcode's check and data characters. Min=1, Max=66, 0 => ignore this length

Property values

Name	Value
Decoder_Code1D_CodablockF_Length2_Default	74

PROPERTY_Decoder_Code1D_CodablockF_EAN_Enable 17636	Public

Enables or disables CodablockF EAN subtype.

Property values

Name	Value
Decoder_Code1D_CodablockF_EAN_Enable_Default	0

Telepen properties

PROPERTY_Decoder_Code1D_Telepen_Enable 17650	Public

Enables or disables the Telepen symbology

Property values

Name	Value
Decoder_Code1D_Telepen_Enable_Enable	1

PROPERTY_Decoder_Code1D_Telepen_Enable 17650	Public
Decoder_Code1D_Telepen_Enable_Disable	0
Decoder_Code1D_Telepen_Enable_Default	0

PROPERTY_Decoder_Code1D_Telepen_Length-Control 17651	Public
Specifies either variable-length decoding or fixed-length decoding for Telepen. Options are: 0 (variable length), 1 (fixed length), 2 (no check)	

Property values

Name	Value
Decoder_Code1D_Telepen_Length-Control_Variable	0
Decoder_Code1D_Telepen_Length-Control_Fixed	1
Decoder_Code1D_Telepen_Length-Control_No_Check	2
Decoder_Code1D_Telepen_Length-Control_Default	2

PROPERTY_Decoder_Code1D_Telepen_Length1 17652	Public
Length 1 is the minimum label length if in variable length mode, or the first fixed length if in fixed length mode. Length includes the barcode's start, stop, check and data characters. The length must include at least one data character. Min=1, Max=66	

Property values

Name	Value
Decoder_Code1D_Telepen_Length1_Default	1

PROPERTY_Decoder_Code1D_Telepen_Length2 17653	Public
Length 2 is the maximum label length if in variable length mode, or the second fixed length if in fixed length mode. Length includes the barcode's check and data characters. Min=1, Max=66, 0 => ignore this length	

Property values

Name	Value
Decoder_Code1D_Telepen_Length2_Default	50

PROPERTY_Decoder_Code1D_Telepen_Check-Digit 17654	Public
Enables or disables the calculation and verification of the optional Telepen check digit character	

Property values

Name	Value
Decoder_Code1D_Telepen_Check-Digit_Default	0

PROPERTY_Decoder_Code1D_Telepen_Check-Digit-Tx 17655	Public
Enables or disables the transmission of the Telepen check digit character	

Property values

Name	Value
Decoder_Code1D_Telepen_Check-Digit-Tx_Default	0

PROPERTY_Decoder_Code1D_Telepen_ShortMargin 17656	Public
Enables or disables the short Quiet Zone parameter	
Property values	

Name	Value
Decoder_Code1D_Telepen_ShortMargin_Default	0

PROPERTY_Decoder_Code1D_Telepen_StartType 17657	Public
Specifies the Telepen type (0 - Full Ascii), (1 - Compressed numeric)	
Property values	

Name	Value
Decoder_Code1D_Telepen_StartType_FullAscii	0
Decoder_Code1D_Telepen_StartType_CompressedNumeric	1
Decoder_Code1D_Telepen_StartType_Default	1

Pharmacode properties

PROPERTY_Decoder_Code1D_Pharmacode_Enable 17670	Public
Enables or disables the Pharmacode symbology.	
Property values	

Name	Value
Decoder_Code1D_Pharmacode_Enable_Enable	1
Decoder_Code1D_Pharmacode_Enable_Disable	0
Decoder_Code1D_Pharmacode_Enable_Default	0

PROPERTY_Decoder_Code1D_Pharmacode_Length-Control 17671	Public
Specifies either variable-length decoding or fixed-length decoding for Pharmacode. Options are: 0 (variable length), 1 (fixed length), 2 (no check).	
Property values	

Name	Value
Decoder_Code1D_Pharmacode_Length-Control_Variable	0
Decoder_Code1D_Pharmacode_Length-Control_Fixed	1
Decoder_Code1D_Pharmacode_Length-Control_No_Check	2
Decoder_Code1D_Pharmacode_Length-Control_Default	2

PROPERTY_Decoder_Code1D_Pharmacode_Length1 17672	Public
Length 1 is the minimum label length if in variable length mode, or the first fixed length if in fixed length mode. Length includes the barcode's start, stop, check and data characters. The length must include at least one data character. Min=1, Max=66.	
Property values	

PROPERTY_Decoder_Code1D_Pharmacode_Length1 17672	Public
Name	**Value**
Decoder_Code1D_Pharmacode_Length1_Default	1

PROPERTY_Decoder_Code1D_Pharmacode_Length2 17673	Public
Length 2 is the maximum label length if in variable length mode, or the second fixed length if in fixed length mode. Length includes the barcode's check and data characters. Min=1, Max=66, 0 => ignore this length.	
Property values	

Name	**Value**
Decoder_Code1D_Pharmacode_Length2_Default	50

PROPERTY_Decoder_Code1D_Pharmacode_BarNumMinimum 17674	Public
Specifies the minimum number of bars for a Pharmacode label.	
Property values	

Name	**Value**
Decoder_Code1D_Pharmacode_BarNumMinimum_Default	4

PROPERTY_Decoder_Code1D_Pharmacode_BarNumMaximum 17675	Public
Specifies the maximum number of bars for a Pharmacode label.	
Property values	

Name	**Value**
Decoder_Code1D_Pharmacode_BarNumMaximum_Default	16

PROPERTY_Decoder_Code1D_Pharmacode_DecodeValueMinimum 17676	Public
Specifies the minimum value for a Pharmacode label.	
Property values	

Name	**Value**
Decoder_Code1D_Pharmacode_DecodeValueMinimum_Default	15

PROPERTY_Decoder_Code1D_Pharmacode_DecodeValueMaximum 17677	Public
Specifies the maximum value for a Pharmacode label.	
Property values	

Name	**Value**
Decoder_Code1D_Pharmacode_DecodeValueMaximum_Default	13107

PROPERTY_Decoder_Code1D_Pharmacode_BarColor 17678	Public
Specifies the color of the bars (Black or colored).	
Property values	

Name	**Value**

PROPERTY_Decoder_Code1D_Pharmacode_BarColor 17678	Public
Decoder_Code1D_Pharmacode_BarColor_Default	0

PROPERTY_Decoder_Code1D_Pharmacode_Orientation 17679	Public
Specifies the code orientation.	
Property values	

Name	Value
Decoder_Code1D_Pharmacode_Orientation_Default	0

PROPERTY_Decoder_Code1D_Pharmacode_Reverse 17680	Public
Specifies if the label in normal or reverse order.	
Property values	

Name	Value
Decoder_Code1D_Pharmacode_Reverse_Default	0

TLC39

PROPERTY_Decoder_Code1D_TLC39_Enable 17697	Public
Enables or disables the TLC 39 symbology	
Property values	

Name	Value
Decoder_Code1D_TLC39_Enable_Enable	1
Decoder_Code1D_TLC39_Enable_Disable	0
Decoder_Code1D_TLC39_Enable_Default	0

PROPERTY_Decoder_Code1D_TLC39_Timeout 17698	Public
TLC39_Timeout	
Property values	

Name	Value
Decoder_Code1D_TLC39_Timeout_Default	1000

PROPERTY_Decoder_Code1D_TLC39_LinearPartTransmission_Enable 17699	Public
Set TLC39 LinearPartTransmission Enable	
Property values	

Name	Value
Decoder_Code1D_TLC39_LinearPartTransmission_Enable_Default	0

Common

PROPERTY_Decoder_Code2D_Common_OneDLowContrastImprove 19007	Public
Raises the low contrast value for linear and PDF417 codes	

Property values	

Name	Value
Decoder_Code2D_Common_OneDLowContrastImprove_Default	0

PROPERTY_Decoder_Code2D_Common_PickList_Enable 19010	Public
This property allows setting the ray of the area where the code should be found. The value has to be set for every engine	

Property values	

Name	Value
Decoder_Code2D_Common_PickList_Enable_Default	0

PROPERTY_Decoder_Code2D_Common_CrossFinder_RegionBounds 19021	Public
It allows setting the CrossFinder search region.	

Property values	

Name	Value
Decoder_Code2D_Common_CrossFinder_RegionBounds_Default	0

PROPERTY_Decoder_Code2D_Common_ImageSubsample 19026	Public
Image subsample.	

Property values	

Name	Value
Decoder_Code2D_Common_ImageSubsample_Default	1

PROPERTY_Decoder_Code2D_Common_ImageSubRegion 19027	Public
Image subregion.	

Property values	

Name	Value
Decoder_Code2D_Common_ImageSubRegion_Default	0

PROPERTY_Decoder_Code2D_Common_LinearLocalizerSubRegion 19028	Public
Localizer subregion for linear code labels.	

Property values	

Name	Value
Decoder_Code2D_Common_LinearLocalizerSubRegion_Default	0

PROPERTY_Decoder_Code2D_Common_LocalizerSubRegion 19029	Public
Localizer subregion for 2D labels except Datamatrix labels.	

PROPERTY_Decoder_Code2D_Common_LocalizerSubRegion 19029	**Public**

Property values

Name	Value
Decoder_Code2D_Common_LocalizerSubRegion_Default	0

PROPERTY_Decoder_Code2D_Common_LabelValidArea_Ray 19030	**Public**

Ray of the valida area in which a label could be searched.

Property values

Name	Value
Decoder_Code2D_Common_LabelValidArea_Ray_Default	0

PROPERTY_Decoder_Code2D_Common_LabelValidArea_XCenter 19031	**Public**

X center of the Valid Area.

Property values

Name	Value
Decoder_Code2D_Common_LabelValidArea_XCenter_Default	0

PROPERTY_Decoder_Code2D_Common_LabelValidArea_YCenter 19032	**Public**

Y center of the Valid Area.

Property values

Name	Value
Decoder_Code2D_Common_LabelValidArea_YCenter_Default	0

PROPERTY_Decoder_Code2D_Common_ScanHorizontal 19033	**Public**

Enables or disables the Horizontal scans of the localizer

Property values

Name	Value
Decoder_Code2D_Common_ScanHorizontal_Disabled	0
Decoder_Code2D_Common_ScanHorizontal_Enabled	1
Decoder_Code2D_Common_ScanHorizontal_Default	1

PROPERTY_Decoder_Code2D_Common_ScanVertical 19034	**Public**

Enables or disables the Vertical scans of the localizer

Property values

Name	Value
Decoder_Code2D_Common_ScanVertical_Disabled	0
Decoder_Code2D_Common_ScanVertical_Enabled	1
Decoder_Code2D_Common_ScanVertical_Default	1

PROPERTY_Decoder_Code2D_Common_AutomaticThreshold 19037	**Public**

Enables or disables an automatic threshold

PROPERTY_Decoder_Code2D_Common_AutomaticThreshold 19037	Public

Property values	
Name	**Value**
Decoder_Code2D_Common_AutomaticThreshold_Default	1

PROPERTY_Decoder_Code2D_Common_Structured_Append_Enable 19038	Public

Enables or disables the Structured Append feature for 2D symbologies

Property values	
Name	**Value**
Decoder_Code2D_Common_Structured_Append_Enable_Default	0

PROPERTY_Decoder_Code2D_Common_ReverseCode 19039	Public

Allows setting the Image Mode (2 Normal, 4 Inverse, 6 Normal and Inverse)

Property values	
Name	**Value**
Decoder_Code2D_Common_ReverseCode_ONLY_NORMAL	2
Decoder_Code2D_Common_ReverseCode_ONLY_REVERSE	4
Decoder_Code2D_Common_ReverseCode_BOTH_NORMAL_AND_REVERSE	6
Decoder_Code2D_Common_ReverseCode_Default	6

PROPERTY_Decoder_Code2D_Common_MultilabelMode 19041	Public

Allows setting the Multilabel Reading Mode

Property values	
Name	**Value**
Decoder_Code2D_Common_MultilabelMode_Default	0

PROPERTY_Decoder_Code2D_Common_ContinuousMode_Enable 19042	Public

Allows setting the ContinuousMode

Property values	
Name	**Value**
Decoder_Code2D_Common_ContinuousMode_Enable_Default	0

PROPERTY_Decoder_Code2D_Common_ContinuousMode_DoubleReadTimeout 19043	Public

When Continuous mode is enabled, this is the time the reader waits to decode again a label successfully. Label must exit from reading window at least for this period of time (msec)

Property values	
Name	**Value**
Decoder_Code2D_Common_ContinuousMode_DoubleReadTimeout_Infinite	-1

PROPERTY_Decoder_Code2D_Common_ContinuousMode_Enable 19042	Public
Decoder_Code2D_Common_ContinuousMode_DoubleReadTimeout_Disabled	0
Decoder_Code2D_Common_ContinuousMode_DoubleReadTimeout_Default	1000

PROPERTY_Decoder_Code2D_Common_LinearRaster 19044	Public
1-Standard, 2-HandHeld, 3-QuarterAnalysis, 4-SweepStandard, 5-SweepAreaMode, 6-Sweep90Standard, 7-GeneratedByRoi	

Property values

Name	Value
Decoder_Code2D_Common_LinearRaster_Standard	1
Decoder_Code2D_Common_LinearRaster_Hand_Held	2
Decoder_Code2D_Common_LinearRaster_Quarter_Analysis	3
Decoder_Code2D_Common_LinearRaster_Sweep_Standard	4
Decoder_Code2D_Common_LinearRaster_Sweep_Area_Mode	5
Decoder_Code2D_Common_LinearRaster_Sweep_90_Standard	6
Decoder_Code2D_Common_LinearRaster_Generated_By_Roi	7
Decoder_Code2D_Common_LinearRaster_Default	1

PROPERTY_Decoder_Code2D_Common_ImageDensity 19045	Public
Density of the image (points/inch)	

Property values

Name	Value
Decoder_Code2D_Common_ImageDensity_Default	200

PROPERTY_Decoder_Code2D_Common_Min1DHeight 19046	Public
Minimum height of 1D codes (mm)	

Property values

Name	Value
Decoder_Code2D_Common_Min1DHeight_Default	3

PROPERTY_Decoder_Code2D_Common_OneDGenericImprove 19051	Public
General improvement for linear and PDF417 codes	

Property values

Name	Value
Decoder_Code2D_Common_OneDGenericImprove_Disabled	0
Decoder_Code2D_Common_OneDGenericImprove_Enabled	1
Decoder_Code2D_Common_OneDGenericImprove_Default	0

PROPERTY_Decoder_Code2D_Common_LinearRasterColumnsGap 19060	Public
-	

Property values	
Name	**Value**
Decoder_Code2D_Common_LinearRasterColumnsGap_Default	0

PROPERTY_Decoder_Code2D_Common_Grid_Density 19072	Public
To change the GridStep for 2D symbologies (DM and QR)	

Property values	
Name	**Value**
Decoder_Code2D_Common_Grid_Density_Dense	1
Decoder_Code2D_Common_Grid_Density_Sparse	2
Decoder_Code2D_Common_Grid_Density_Default	1

Aztec code properties

PROPERTY_Decoder_Code2D_Aztec_Enable 19200	Public
Enables or disables the Aztec symbology.	

Property values	
Name	**Value**
Decoder_Code2D_Aztec_Enable_Enable	1
Decoder_Code2D_Aztec_Enable_Disable	0
Decoder_Code2D_Aztec_Enable_Default	0

PROPERTY_Decoder_Code2D_Aztec_Length-Control 19201	Public
Specifies either variable-length decoding or fixed-length decoding for Aztec. Options are: 0 (variable length), 1 (fixed length), 2 (no check).	

Property values	
Name	**Value**
Decoder_Code2D_Aztec_Length-Control_Variable	0
Decoder_Code2D_Aztec_Length-Control_Fixed	1
Decoder_Code2D_Aztec_Length-Control_No_Check	2
Decoder_Code2D_Aztec_Length-Control_Default	2

PROPERTY_Decoder_Code2D_Aztec_Length1 19202	Public
Length 1 is the minimum label length if in variable length mode, or the first fixed length if in fixed length mode. Length includes the barcode's start, stop, check and data characters. The length must include at least one data character. Min=1, Max=3832.	
Property values	

PROPERTY_Decoder_Code2D_Aztec_Length1 19202	Public

Name	Value
Decoder_Code2D_Aztec_Length1_Default	1

PROPERTY_Decoder_Code2D_Aztec_Length2 19203	Public

Length 2 is the maximum label length if in variable length mode, or the second fixed length if in fixed length mode. Length includes the barcode's check and data characters. Min=1, Max=3832, 0 => ignore this length.	
Property values	

Name	Value
Decoder_Code2D_Aztec_Length2_Default	3832

PROPERTY_Decoder_Code2D_Aztec_Multiframe 19204	Public

Enables the Multiframe features. The decoder tries to decode a label collecting info from more than one frame and then stitching them together.	
Property values	

Name	Value
Decoder_Code2D_Aztec_Multiframe_Default	0

HanXin code properties

PROPERTY_Decoder_Code2D_HanXin_Enable 19220	Public

Enables or disables the hanXin symbology	
Property values	

Name	Value
Decoder_Code2D_HanXin_Enable_Enable	1
Decoder_Code2D_HanXin_Enable_Disable	0
Decoder_Code2D_HanXin_Enable_Default	0

PROPERTY_Decoder_Code2D_HanXin_Length-Control 19221	Public

Specifies either variable-length decoding or fixed-length decoding for HanXin. Options are: 0 (variable length), 1 (fixed length), 2 (no check)	
Property values	

Name	Value
Decoder_Code2D_HanXin_Length-Control_Variable	0
Decoder_Code2D_HanXin_Length-Control_Fixed	1
Decoder_Code2D_HanXin_Length-Control_No_Check	2
Decoder_Code2D_HanXin_Length-Control_Default	2

PROPERTY_Decoder_Code2D_HanXin_Length1 19222	Public
Length 1 is the minimum label length if in variable length mode, or the first fixed length if in fixed length mode. Length includes the barcode's start, stop, check and data characters. The length must include at least one data character. Min=1, Max=7827	

Property values	
Name	**Value**
Decoder_Code2D_HanXin_Length1_Default	1

PROPERTY_Decoder_Code2D_HanXin_Length2 19223	Public
Length 2 is the maximum label length if in variable length mode, or the second fixed length if in fixed length mode. Length includes the barcode's check and data characters. Min=1, Max=7827, 0 => ignore this length	

Property values	
Name	**Value**
Decoder_Code2D_HanXin_Length2_Default	7827

Datamatrix properties

PROPERTY_Decoder_Code2D_Datamatrix_Enable 19240	Public
Enables or disables the Datamatrix symbology.	

Property values	
Name	**Value**
Decoder_Code2D_Datamatrix_Enable_Enable	1
Decoder_Code2D_Datamatrix_Enable_Disable	0
Decoder_Code2D_Datamatrix_Enable_Default	0

PROPERTY_Decoder_Code2D_Datamatrix_Length-Control 19241	Public
Specifies either variable-length decoding or fixed-length decoding for Datamatrix. Options are: 0 (variable length), 1 (fixed length), 2 (no check).	

Property values	
Name	**Value**
Decoder_Code2D_Datamatrix_Length-Control_Variable	0
Decoder_Code2D_Datamatrix_Length-Control_Fixed	1
Decoder_Code2D_Datamatrix_Length-Control_No_Check	2
Decoder_Code2D_Datamatrix_Length-Control_Default	2

PROPERTY_Decoder_Code2D_Datamatrix_Length1 19242	Public
Length 1 is the minimum label length if in variable length mode, or the first fixed length if in fixed length mode. Length includes the barcode's start, stop, check and data characters. The length must include at least one data character. Min=1, Max=3116.	

PROPERTY_Decoder_Code2D_Datamatrix_Length1 19242	Public

Property values	

Name	Value
Decoder_Code2D_Datamatrix_Length1_Default	1

PROPERTY_Decoder_Code2D_Datamatrix_Length2 19243	Public

Length 2 is the maximum label length if in variable length mode, or the second fixed length if in fixed length mode. Length includes the barcode's check and data characters. Min=1, Max=3116, 0 => ignore this length.

Property values	

Name	Value
Decoder_Code2D_Datamatrix_Length2_Default	3116

PROPERTY_Decoder_Code2D_Datamatrix_Rectangular 19244	Public

Enables the decoding of rectangular Datamatrix labels

Property values	

Name	Value
Decoder_Code2D_Datamatrix_Rectangular_Default	1

PROPERTY_Decoder_Code2D_Datamatrix_ModuleSize 19245	Public

Allows setting the module size. Only valid in Custom settings.

Property values	

Name	Value
Decoder_Code2D_Datamatrix_ModuleSize_Default	15

PROPERTY_Decoder_Code2D_Datamatrix_MaxDistortion 19246	Public

Allows setting the maximum allowable code distortion. Only valid in Custom settings.

Property values	

Name	Value
Decoder_Code2D_Datamatrix_MaxDistortion_Default	33

PROPERTY_Decoder_Code2D_Datamatrix_AxesAlignment 19247	Public

Allows checking the axes alignment. Only valid in Custom settings.

Property values	

Name	Value
Decoder_Code2D_Datamatrix_AxesAlignment_Default	0

PROPERTY_Decoder_Code2D_Datamatrix_FastImprovement 19248	Public

Enables the decoding speed of the Datamatrix decoder. This is only suggested when good quality labels will be decoded, because the overall robustness of the decoder is affected by this property.

Property values	

PROPERTY_Decoder_Code2D_Datamatrix_FastImprovement 19248	Public
Name	**Value**
Decoder_Code2D_Datamatrix_FastImprovement_Default	0

PROPERTY_Decoder_Code2D_Datamatrix_Size 19249	Public
Allows to set the maximum Datamatrix size. Only valid in Custom settings.	
Property values	

Name	**Value**
Decoder_Code2D_Datamatrix_Size_Default	0

PROPERTY_Decoder_Code2D_Datamatrix_HighRes 19250	Public
Enables or disables the high resolution configuration for the localizer settings.	
Property values	

Name	**Value**
Decoder_Code2D_Datamatrix_HighRes_Enabled	1
Decoder_Code2D_Datamatrix_HighRes_Disabled	0
Decoder_Code2D_Datamatrix_HighRes_Default	0

PROPERTY_Decoder_Code2D_Datamatrix_DimensionNodeNumber 19251	Public
0x0 no size specified 0x1 size 10x10 enabled 0x2 size 12x12 enabled 0x4 size 14x14 enabled 0x8 size 16x16 enabled 0x10 size 18x18 enabled 0x20 size 8x18 enabled 0x40 size 20x20 enabled 0x80 size 22x22 enabled 0x100 size 24x24 enabled 0x200 size 26x26 enabled 0x400 size 12x26 enabled 0x800 size 32x32 enabled 0x1000 size 8x32 enabled 0x2000 size 12x36 enabled 0x4000 size 16x36 enabled 0x8000 size 16x48 enabled 0x10000 size 36x36 enabled 0x20000 size 40x40 enabled 0x40000 size 44x44 enabled 0x80000 size 48x48 enabled 0x100000 size 52x52 enabled 0x200000 size 64x64 enabled 0x400000 size 72x72 enabled 0x800000 size 80x80 enabled 0x1000000 size 88x88 enabled 0x2000000 size 96x96 enabled 0x4000000 size 104x104 enabled 0x8000000 size 120x120 enabled 0x10000000 size 132x132 enabled 0x20000000 size 144x144 enabled 0x3FFF0BDF all SQUARE 0xF420 all RECTANGULAR 0x3FFFFFFF all dimensions	
Property values	

Name	**Value**
Decoder_Code2D_Datamatrix_DimensionNodeNumber_NoDimension	0x00
Decoder_Code2D_Datamatrix_DimensionNodeNumber__10x10	0x01
Decoder_Code2D_Datamatrix_DimensionNodeNumber__12x12	0x02
Decoder_Code2D_Datamatrix_DimensionNodeNumber__14x14	0x04
Decoder_Code2D_Datamatrix_DimensionNodeNumber__16x16	0x08
Decoder_Code2D_Datamatrix_DimensionNodeNumber__18x18	0x10
Decoder_Code2D_Datamatrix_DimensionNodeNumber__8x18	0x20

PROPERTY_Decoder_Code2D_Datamatrix_HighRes 19250	Public
Decoder_Code2D_Datamatrix_DimensionNodeNumber__20x20	0x40
Decoder_Code2D_Datamatrix_DimensionNodeNumber__22x22	0x80
Decoder_Code2D_Datamatrix_DimensionNodeNumber__24x24	0x100
Decoder_Code2D_Datamatrix_DimensionNodeNumber__26x26	0x200
Decoder_Code2D_Datamatrix_DimensionNodeNumber__12x26	0x400
Decoder_Code2D_Datamatrix_DimensionNodeNumber__32x32	0x800
Decoder_Code2D_Datamatrix_DimensionNodeNumber__8x32	0x1000
Decoder_Code2D_Datamatrix_DimensionNodeNumber__12x36	0x2000
Decoder_Code2D_Datamatrix_DimensionNodeNumber__16x36	0x4000
Decoder_Code2D_Datamatrix_DimensionNodeNumber__16x48	0x8000
Decoder_Code2D_Datamatrix_DimensionNodeNumber__36x36	0x10000
Decoder_Code2D_Datamatrix_DimensionNodeNumber__40x40	0x20000
Decoder_Code2D_Datamatrix_DimensionNodeNumber__44x44	0x40000
Decoder_Code2D_Datamatrix_DimensionNodeNumber__48x48	0x80000
Decoder_Code2D_Datamatrix_DimensionNodeNumber__52x52	0x100000
Decoder_Code2D_Datamatrix_DimensionNodeNumber__64x64	0x200000
Decoder_Code2D_Datamatrix_DimensionNodeNumber__72x72	0x400000
Decoder_Code2D_Datamatrix_DimensionNodeNumber__80x80	0x800000
Decoder_Code2D_Datamatrix_DimensionNodeNumber__88x88	0x1000000
Decoder_Code2D_Datamatrix_DimensionNodeNumber__96x96	0x2000000
Decoder_Code2D_Datamatrix_DimensionNodeNumber__104x104	0x4000000
Decoder_Code2D_Datamatrix_DimensionNodeNumber__120x120	0x8000000
Decoder_Code2D_Datamatrix_DimensionNodeNumber__132x132	0x10000000
Decoder_Code2D_Datamatrix_DimensionNodeNumber__144x144	0x20000000
Decoder_Code2D_Datamatrix_DimensionNodeNumber_AllSquare	0x3FFF0BDF
Decoder_Code2D_Datamatrix_DimensionNodeNumber_AllRectangular	0xF420
Decoder_Code2D_Datamatrix_DimensionNodeNumber_AllDimensions	0x3FFFFFFF
Decoder_Code2D_Datamatrix_DimensionNodeNumber_Default	0x3FFFFFFF

PROPERTY_Decoder_Code2D_Datamatrix_Aggressiveness 19252	Public
Set Decoding Aggressiveness	
Property values	

Name	Value
Decoder_Code2D_Datamatrix_Aggressiveness_Low	0
Decoder_Code2D_Datamatrix_Aggressiveness_High	1

PROPERTY_Decoder_Code2D_Datamatrix_Aggressiveness 19252	Public
Decoder_Code2D_Datamatrix_Aggressiveness_Default	0

PROPERTY_Decoder_Code2D_Datamatrix_ProcessingMode 19254	Public
-	
Property values	

Name	Value
Decoder_Code2D_Datamatrix_ProcessingMode_Very_Fast	0
Decoder_Code2D_Datamatrix_ProcessingMode_Fast	1
Decoder_Code2D_Datamatrix_ProcessingMode_Robust	2
Decoder_Code2D_Datamatrix_ProcessingMode_Very_Robust	3
Decoder_Code2D_Datamatrix_ProcessingMode_Default	1

PROPERTY_Decoder_Code2D_Datamatrix_RectangularExtended 19258	Public
Enable Datamatrix Rectangular Extended dimensions (DMRE). New AIM specs introduce new Datamatrix format: 8x48, 8x64, 12x48, 12x64, 16x64, 24x32, 24x36, 24x48, 24x64, 26x32, 26x40, 26x48, 26x64	
Property values	

Name	Value
Decoder_Code2D_Datamatrix_RectangularExtended_Enabled	1
Decoder_Code2D_Datamatrix_RectangularExtended_Disabled	0
Decoder_Code2D_Datamatrix_RectangularExtended_Default	0

PROPERTY_Decoder_Code2D_Datamatrix_LocalizerSubRegion 19263	Public
Localizer subregion for Datamatrix labels.	
Property values	

Name	Value
Decoder_Code2D_Datamatrix_LocalizerSubRegion_Default	0

MicroPDF properties

PROPERTY_Decoder_Code2D_MicroPDF417_Enable 19300	Public
Enables or disables the MicroPDF symbology	
Property values	

Name	Value
Decoder_Code2D_MicroPDF417_Enable_Enable	1
Decoder_Code2D_MicroPDF417_Enable_Disable	0
Decoder_Code2D_MicroPDF417_Enable_Default	0

PROPERTY_Decoder_Code2D_MicroPDF417_Enable 19300	Public

PROPERTY_Decoder_Code2D_MicroPDF417_Length-Control 19301	Public

Specifies either variable-length decoding or fixed-length decoding for MicroPDF. Options are: 0 (variable length), 1 (fixed length), 2 (no check)	
Property values	

Name	Value
Decoder_Code2D_MicroPDF417_Length-Control_Variable	0
Decoder_Code2D_MicroPDF417_Length-Control_Fixed	1
Decoder_Code2D_MicroPDF417_Length-Control_No_Check	2
Decoder_Code2D_MicroPDF417_Length-Control_Default	2

PROPERTY_Decoder_Code2D_MicroPDF417_Length1 19302	Public

Length 1 is the minimum label length if in variable length mode, or the first fixed length if in fixed length mode. Length includes the barcode's start, stop, check and data characters. The length must include at least one data character. Min=1, Max=366	
Property values	

Name	Value
Decoder_Code2D_MicroPDF417_Length1_Default	1

PROPERTY_Decoder_Code2D_MicroPDF417_Length2 19303	Public

Length 2 is the maximum label length if in variable length mode, or the second fixed length if in fixed length mode. Length includes the barcode's check and data characters. Min=1, Max=366, 0 => ignore this length	
Property values	

Name	Value
Decoder_Code2D_MicroPDF417_Length2_Default	366

PROPERTY_Decoder_Code2D_MicroPDF417_Code128GS1_Emulation 19304	Public

Set Code128GS1_Emulation	
Property values	

Name	Value
Decoder_Code2D_MicroPDF417_Code128GS1_Emulation_Default	0

MicroQR properties

PROPERTY_Decoder_Code2D_MicroQR_Enable 19310	Public

Enables or disables the MicroQR symbology	
Property values	

Name	Value

PROPERTY_Decoder_Code2D_MicroQR_Enable 19310	Public
Decoder_Code2D_MicroQR_Enable_Enable	1
Decoder_Code2D_MicroQR_Enable_Disable	0
Decoder_Code2D_MicroQR_Enable_Default	0

PROPERTY_Decoder_Code2D_MicroQR_Length-Control 19311	Public
Specifies either variable-length decoding or fixed-length decoding for MicroQR. Options are: 0 (variable length), 1 (fixed length), 2 (no check)	
Property values	

Name	Value
Decoder_Code2D_MicroQR_Length-Control_Variable	0
Decoder_Code2D_MicroQR_Length-Control_Fixed	1
Decoder_Code2D_MicroQR_Length-Control_No_Check	2
Decoder_Code2D_MicroQR_Length-Control_Default	2

PROPERTY_Decoder_Code2D_MicroQR_Length1 19312	Public
Length 1 is the minimum label length if in variable length mode, or the first fixed length if in fixed length mode. Length includes the barcode's start, stop, check and data characters. The length must include at least one data character. Min=1, Max=35	
Property values	

Name	Value
Decoder_Code2D_MicroQR_Length1_Default	1

PROPERTY_Decoder_Code2D_MicroQR_Length2 19313	Public
Length 2 is the maximum label length if in variable length mode, or the second fixed length if in fixed length mode. Length includes the barcode's check and data characters. Min=1, Max=35, 0 => ignore this length	
Property values	

Name	Value
Decoder_Code2D_MicroQR_Length2_Default	35

MaxiCode properties

PROPERTY_Decoder_Code2D_Maxicode_Enable 19320	Public
Enables or disables the Maxicode symbology modes. This property is a bitwise, every bit enables a specific mode (bit 0 manages Mode0, bit 1 manages Mode1, etc.); 127 will enable all Maxicode modes	
Property values	

Name	Value
Decoder_Code2D_Maxicode_Enable_Disable	0

PROPERTY_Decoder_Code2D_Maxicode_Enable 19320	Public
Decoder_Code2D_Maxicode_Enable_EnableAllModes	127
Decoder_Code2D_Maxicode_Enable_Default	0

PROPERTY_Decoder_Code2D_Maxicode_Length-Control 19321	Public

Specifies either variable-length decoding or fixed-length decoding for Maxicode.
Options are: 0 (variable length), 1 (fixed length), 2 (no check).

Property values

Name	Value
Decoder_Code2D_Maxicode_Length-Control_Variable	0
Decoder_Code2D_Maxicode_Length-Control_Fixed	1
Decoder_Code2D_Maxicode_Length-Control_No_Check	2
Decoder_Code2D_Maxicode_Length-Control_Default	2

PROPERTY_Decoder_Code2D_Maxicode_Length1 19322	Public

Length 1 is the minimum label length if in variable length mode, or the first fixed length if in fixed length mode. Length includes the barcode's start, stop, check and data characters. The length must include at least one data character. Min=1, Max=138.

Property values

Name	Value
Decoder_Code2D_Maxicode_Length1_Default	1

PROPERTY_Decoder_Code2D_Maxicode_Length2 19323	Public

Length 2 is the maximum label length if in variable length mode, or the second fixed length if in fixed length mode. Length includes the barcode's check and data characters. Min=1, Max=138, 0 => ignore this length.

Property values

Name	Value
Decoder_Code2D_Maxicode_Length2_Default	138

PROPERTY_Decoder_Code2D_Maxicode_PartialRead 19324	Public

If enabled, allows the code transmission even if it has not completely decoded. In particular the Head Message may be transmitted.

Property values

Name	Value
Decoder_Code2D_Maxicode_PartialRead_Default	0

PROPERTY_Decoder_Code2D_Maxicode_Primary_Message_Tx 19325	Public

Transmit partial message

Property values

Name	Value

PROPERTY_Decoder_Code2D_Maxicode_PartialRead 19324	Public
Decoder_Code2D_Maxicode_Primary_Message_Tx_Default	0

PROPERTY_Decoder_Code2D_Maxicode_ModuleSize 19326	Public
Allows to set the module size. Only valid in Custom settings.	
Property values	

Name	Value
Decoder_Code2D_Maxicode_ModuleSize_Default	15

PROPERTY_Decoder_Code2D_Maxicode_UPSFormatterCompliant 19327	Public
Enable/Disable UPS Formatter Compliant for Maxicode.	
Property values	

Name	Value
Decoder_Code2D_Maxicode_UPSFormatterCompliant_Default	0

PDF properties

PROPERTY_Decoder_Code2D_PDF417_Enable 19330	Public
Enables or disables the PDF symbology.	
Property values	

Name	Value
Decoder_Code2D_PDF417_Enable_Enable	1
Decoder_Code2D_PDF417_Enable_Disable	0
Decoder_Code2D_PDF417_Enable_Default	0

PROPERTY_Decoder_Code2D_PDF417_Length-Control 19331	Public
Specifies either variable-length decoding or fixed-length decoding for PDF. Options are: 0 (variable length), 1 (fixed length), 2 (no check).	
Property values	

Name	Value
Decoder_Code2D_PDF417_Length-Control_Variable	0
Decoder_Code2D_PDF417_Length-Control_Fixed	1
Decoder_Code2D_PDF417_Length-Control_No_Check	2
Decoder_Code2D_PDF417_Length-Control_Default	2

PROPERTY_Decoder_Code2D_PDF417_Length1 19332	Public
Length 1 is the minimum label length if in variable length mode, or the first fixed length if in fixed length mode. Length includes the barcode's start, stop, check and data characters. The length must include at least one data character. Min=1, Max=2710.	
Property values	

PROPERTY_Decoder_Code2D_PDF417_Length1 19332		Public
Name		**Value**
Decoder_Code2D_PDF417_Length1_Default		1

PROPERTY_Decoder_Code2D_PDF417_Length2 19333		Public
Length 2 is the maximum label length if in variable length mode, or the second fixed length if in fixed length mode. Length includes the barcode's check and data characters. Min=1, Max=2710, 0 => ignore this length.		
Property values		
Name		**Value**
Decoder_Code2D_PDF417_Length2_Default		2710

PROPERTY_Decoder_Code2D_PDF417_Multiframe 19334		Public
Enables the Multiframe features. The decoder tries to decode a label collecting info from more frames and then stitching them together.		
Property values		
Name		**Value**
Decoder_Code2D_PDF417_Multiframe_Default		0

PROPERTY_Decoder_Code2D_PDF417_ZeroLength 19335		Public
Allows reading some out of specification labels that don't correctly set the number codewords.		
Property values		
Name		**Value**
Decoder_Code2D_PDF417_ZeroLength_Default		0

PROPERTY_Decoder_Code2D_PDF417_MacroPDF417Enable 19337	Public
Enable Macro pdf	
Property values	
Name	**Value**
Decoder_Code2D_PDF417_MacroPDF417Enable_Default	0

QR properties

PROPERTY_Decoder_Code2D_QR_Enable 19340		Public
Enables or disables the QR symbology.		
Property values		
Name		**Value**
Decoder_Code2D_QR_Enable_Enable		1
Decoder_Code2D_QR_Enable_Disable		0
Decoder_Code2D_QR_Enable_Default		0

PROPERTY_Decoder_Code2D_QR_Enable 19340	Public

PROPERTY_Decoder_Code2D_QR_Length-Control 19341	Public

Specifies either variable-length decoding or fixed-length decoding for QR. Options are: 0 (variable length), 1 (fixed length), 2 (no check).

Property values

Name	Value
Decoder_Code2D_QR_Length-Control_Variable	0
Decoder_Code2D_QR_Length-Control_Fixed	1
Decoder_Code2D_QR_Length-Control_No_Check	2
Decoder_Code2D_QR_Length-Control_Default	2

PROPERTY_Decoder_Code2D_QR_Length1 19342	Public

Length 1 is the minimum label length if in variable length mode, or the first fixed length if in fixed length mode. Length includes the barcode's start, stop, check and data characters. The length must include at least one data character. Min=1, Max=7089.

Property values

Name	Value
Decoder_Code2D_QR_Length1_Default	1

PROPERTY_Decoder_Code2D_QR_Length2 19343	Public

Length 2 is the maximum label length if in variable length mode, or the second fixed length if in fixed length mode. Length includes the barcode's check and data characters. Min=1, Max=7089, 0 => ignore this length.

Property values

Name	Value
Decoder_Code2D_QR_Length2_Default	7089

PROPERTY_Decoder_Code2D_QR_Multiframe 19344	Public

Enables the Multiframe features. The decoder tries to decode a label collecting info from more frames and then stitching them together.

Property values

Name	Value
Decoder_Code2D_QR_Multiframe_Default	0

PROPERTY_Decoder_Code2D_QR_ModuleSize 19345	Public

Allows to set the module size. Only valid in Custom settings.

Property values

Name	Value
Decoder_Code2D_QR_ModuleSize_Default	15

DotCode properties

PROPERTY_Decoder_Code2D_Dotcode_Enable 19350	Public

Enables or disables the DotCode symbology

Property values

Name	Value
Decoder_Code2D_Dotcode_Enable_Enable	1
Decoder_Code2D_Dotcode_Enable_Disable	0
Decoder_Code2D_Dotcode_Enable_Default	0

PROPERTY_Decoder_Code2D_Dotcode_Length-Control 19351	Public

Specifies either variable-length decoding or fixed-length decoding for DotCode. Options are: 0 (variable length), 1 (fixed length), 2 (no check)

Property values

Name	Value
Decoder_Code2D_Dotcode_Length-Control_Variable	0
Decoder_Code2D_Dotcode_Length-Control_Fixed	1
Decoder_Code2D_Dotcode_Length-Control_No_Check	2
Decoder_Code2D_Dotcode_Length-Control_Default	2

PROPERTY_Decoder_Code2D_Dotcode_Length1 19352	Public

Length 1 is the minimum label length if in variable length mode, or the first fixed length if in fixed length mode. Length includes the barcode's start, stop, check and data characters. The length must include at least one data character. Min=1, Max=10000

Property values

Name	Value
Decoder_Code2D_Dotcode_Length1_Default	1

PROPERTY_Decoder_Code2D_Dotcode_Length2 19353	Public

Length 2 is the maximum label length if in variable length mode, or the second fixed length if in fixed length mode. Length includes the barcode's check and data characters. Min=1, Max=10000, 0 => ignore this length

Property values

Name	Value
Decoder_Code2D_Dotcode_Length2_Default	7000

PROPERTY_Decoder_Code2D_Dotcode_HighResolution 19354	Public

Enables or disables the high resolution configuration for the localizer settings.

Property values

Name	Value
Decoder_Code2D_Dotcode_HighResolution_Default	0

PROPERTY_Decoder_Code2D_Dotcode_ConstantPosition 19355	Public

PROPERTY_Decoder_Code2D_Dotcode_HighResolution 19354	Public
If 1, the last decoded box is used as a starting position for the localizer.	
Property values	

Name	Value
Decoder_Code2D_Dotcode_ConstantPosition_Default	0

PROPERTY_Decoder_Code2D_Dotcode_PrivilegeSmallCodes 19359	Public
If 1 the pyramid is analyzed starting from the original image and then descending from top to bottom, otherwise the original image is analyzed as last one.	
Property values	

Name	Value
Decoder_Code2D_Dotcode_PrivilegeSmallCodes_Default	0

Postal codes properties

PROPERTY_Decoder_Code2D_PostalCodes_PostNetEnable 19370	Public
Enables or disables the Postnet postal code	
Property values	

Name	Value
Decoder_Code2D_PostalCodes_PostNetEnable_Enable	1
Decoder_Code2D_PostalCodes_PostNetEnable_Disable	0
Decoder_Code2D_PostalCodes_PostNetEnable_Default	0

PROPERTY_Decoder_Code2D_PostalCodes_PostNetBBEnable 19371	Public
Enables or disables the PostnetBB postal code	
Property values	

Name	Value
Decoder_Code2D_PostalCodes_PostNetBBEnable_Enable	1
Decoder_Code2D_PostalCodes_PostNetBBEnable_Disable	0
Decoder_Code2D_PostalCodes_PostNetBBEnable_Default	0

PROPERTY_Decoder_Code2D_PostalCodes_PlaNetEnable 19372	Public
Enables or disables the Planet postal code	
Property values	

Name	Value
Decoder_Code2D_PostalCodes_PlaNetEnable_Enable	1
Decoder_Code2D_PostalCodes_PlaNetEnable_Disable	0
Decoder_Code2D_PostalCodes_PlaNetEnable_Default	0

PROPERTY_Decoder_Code2D_PostalCodes_RoyalMailEnable 19373	Public

PROPERTY_Decoder_Code2D_PostalCodes_PlaNetEnable 19372	Public

Enables or disables the Royal Mail postal code

Property values

Name	Value
Decoder_Code2D_PostalCodes_RoyalMailEnable_Enable	1
Decoder_Code2D_PostalCodes_RoyalMailEnable_Disable	0
Decoder_Code2D_PostalCodes_RoyalMailEnable_Default	0

PROPERTY_Decoder_Code2D_PostalCodes_RoyalMailFormatCompliant 19374	Public

If 1, checks if the Royal Mail decoded labels comply to the standards

Property values

Name	Value
Decoder_Code2D_PostalCodes_RoyalMailFormatCompliant_Default	0

PROPERTY_Decoder_Code2D_PostalCodes_RoyalMailCheck-TX 19375	Public

If 1 transmits the Royal Mail check digit character

Property values

Name	Value
Decoder_Code2D_PostalCodes_RoyalMailCheck-TX_Default	0

PROPERTY_Decoder_Code2D_PostalCodes_KixEnable 19376	Public

Enables or disables the KIX postal code

Property values

Name	Value
Decoder_Code2D_PostalCodes_KixEnable_Enable	1
Decoder_Code2D_PostalCodes_KixEnable_Disable	0
Decoder_Code2D_PostalCodes_KixEnable_Default	0

PROPERTY_Decoder_Code2D_PostalCodes_APEnable 19377	Public

Enables or disables the Autralian postal code

Property values

Name	Value
Decoder_Code2D_PostalCodes_APEnable_Enable	1
Decoder_Code2D_PostalCodes_APEnable_Disable	0
Decoder_Code2D_PostalCodes_APEnable_Default	0

PROPERTY_Decoder_Code2D_PostalCodes_JPEnable 19378	Public

Enables or disables the Japanese postal code

Property values

PROPERTY_Decoder_Code2D_PostalCodes_JPEnable 19378	Public

Name	Value
Decoder_Code2D_PostalCodes_JPEnable_Enable	1
Decoder_Code2D_PostalCodes_JPEnable_Disable	0
Decoder_Code2D_PostalCodes_JPEnable_Default	0

PROPERTY_Decoder_Code2D_PostalCodes_IMBEnable 19379	Public

Enables or disables the IMB postal code

Property values

Name	Value
Decoder_Code2D_PostalCodes_IMBEnable_Enable	1
Decoder_Code2D_PostalCodes_IMBEnable_Disable	0
Decoder_Code2D_PostalCodes_IMBEnable_Default	0

PROPERTY_Decoder_Code2D_PostalCodes_SwedishPostalEnable 19380	Public

Enables or disables the Swedish postal code

Property values

Name	Value
Decoder_Code2D_PostalCodes_SwedishPostalEnable_Enable	1
Decoder_Code2D_PostalCodes_SwedishPostalEnable_Disable	0
Decoder_Code2D_PostalCodes_SwedishPostalEnable_Default	0

PROPERTY_Decoder_Code2D_PostalCodes_PortugalPostalEnable 19381	Public

Enables or disables the Portuguese postal code

Property values

Name	Value
Decoder_Code2D_PostalCodes_PortugalPostalEnable_Enable	1
Decoder_Code2D_PostalCodes_PortugalPostalEnable_Disable	0
Decoder_Code2D_PostalCodes_PortugalPostalEnable_Default	0

PROPERTY_Decoder_Code2D_PostalCodes_NewZealandEnable 19382	Public

Enables or disables the NewZealand postal code

Property values

Name	Value
Decoder_Code2D_PostalCodes_NewZealandEnable_Enable	1
Decoder_Code2D_PostalCodes_NewZealandEnable_Disable	0
Decoder_Code2D_PostalCodes_NewZealandEnable_Default	0

PROPERTY_Decoder_Code2D_PostalCodes_NewZealandUseBitStream 19383	Public

PROPERTY_Decoder_Code2D_PostalCodes_NewZealandEnable 19382	Public

If 1, the output string is not formatted but provided as a byte stream

Property values

Name	Value
Decoder_Code2D_PostalCodes_NewZealandUseBitStream_Default	0

PROPERTY_Decoder_Code2D_PostalCodes_PostalMinBarCount 19384	Public

The minimum number of bars a label should have to be decoded. Only valid in Custom mode

Property values

Name	Value
Decoder_Code2D_PostalCodes_PostalMinBarCount_Default	24

PROPERTY_Decoder_Code2D_PostalCodes_PostalMaxBarCount 19385	Public

The maximum number of bars a label should have to be decoded. Only valid in Custom mode

Property values

Name	Value
Decoder_Code2D_PostalCodes_PostalMaxBarCount_Default	72

PROPERTY_Decoder_Code2D_PostalCodes_PostalBarDistance 19386	Public

The minimum distance between bars a label should have to be decoded. Only valid in Custom mode

Property values

Name	Value
Decoder_Code2D_PostalCodes_PostalBarDistance_Default	15

PROPERTY_Decoder_Code2D_PostalCodes_PostalAusCustomerInfoEnc 19388	Public

Enable Australian Post Customer Information Encoding Tables. The results is encoded using: N Table, C Table, User Table and Undefined

Property values

Name	Value
Decoder_Code2D_PostalCodes_PostalAusCustomerInfoEnc_Undef_Table	-1
Decoder_Code2D_PostalCodes_PostalAusCustomerInfoEnc_N_Table	0
Decoder_Code2D_PostalCodes_PostalAusCustomerInfoEnc_C_Table	1
Decoder_Code2D_PostalCodes_PostalAusCustomerInfoEnc_User_Table	2
Decoder_Code2D_PostalCodes_PostalAusCustomerInfoEnc_Default	0

PROPERTY_Decoder_Code2D_PostalCodes_PostalOrientations 19389	Public

Set Posta Orientation

Property values

PROPERTY_Decoder_Code2D_PostalCodes_PostalOrientations 19389	Public
Name	**Value**
Decoder_Code2D_PostalCodes_PostalOrientations_Default	0

PROPERTY_Decoder_Code2D_PostalCodes_MailMarkPostalEnable 19390	Public
Enable mail Mark postal	
Property values	

Name	**Value**
Decoder_Code2D_PostalCodes_MailMarkPostalEnable_Enable	1
Decoder_Code2D_PostalCodes_MailMarkPostalEnable_Disable	0
Decoder_Code2D_PostalCodes_MailMarkPostalEnable_Default	0

Composite

PROPERTY_Decoder_Code2D_Composite_Enable 19403	Public
Enables or disables the composite codes	
Property values	

Name	**Value**
Decoder_Code2D_Composite_Enable_Default	0

PROPERTY_Decoder_Code2D_Composite_Timeout 19404	Public
Set Composite_Timeout	
Property values	

Name	**Value**
Decoder_Code2D_Composite_Timeout_Default	500

PROPERTY_Decoder_Code2D_Composite_LinearPartTransmission_Enable 19405	Public
Set Composite LinearPartTransmission Enable	
Property values	

Name	**Value**
Decoder_Code2D_Composite_LinearPartTransmission_Enable_Default	0

PROPERTY_Decoder_Code2D_Composite_UCC-EAN128_Emulation-Mode_Enable 19406	Public
Composite_UCC_EAN128_Emulation_Mode_Enable	
Property values	

Name	**Value**
Decoder_Code2D_Composite_UCC-EAN128_Emulation-Mode_Enable_Default	0

PROPERTY_Decoder_Code2D_Composite_Ean13-Enable 19407	Public
Ean13 enable composite	
Property values	

Name	Value
Decoder_Code2D_Composite_Ean13-Enable_Disabled	0
Decoder_Code2D_Composite_Ean13-Enable_Enabled	1
Decoder_Code2D_Composite_Ean13-Enable_Default	1

PROPERTY_Decoder_Code2D_Composite_Ean8-Enable 19408	Public
Ean8 enable composite	
Property values	

Name	Value
Decoder_Code2D_Composite_Ean8-Enable_Disabled	0
Decoder_Code2D_Composite_Ean8-Enable_Enabled	1
Decoder_Code2D_Composite_Ean8-Enable_Default	1

PROPERTY_Decoder_Code2D_Composite_Upca-Enable 19409	Public
Upca enable composite	
Property values	

Name	Value
Decoder_Code2D_Composite_Upca-Enable_Disabled	0
Decoder_Code2D_Composite_Upca-Enable_Enabled	1
Decoder_Code2D_Composite_Upca-Enable_Default	1

PROPERTY_Decoder_Code2D_Composite_Upce-Enable 19410	Public
Upce enable composite	
Property values	

Name	Value
Decoder_Code2D_Composite_Upce-Enable_Disabled	0
Decoder_Code2D_Composite_Upce-Enable_Enabled	1
Decoder_Code2D_Composite_Upce-Enable_Default	1

OCR

PROPERTY_Decoder_Code2D_OCR_Enable 19444	Public
Allows to enable OCR	
Property values	

Name	Value
Decoder_Code2D_OCR_Enable_Disable	0

PROPERTY_Decoder_Code2D_OCR_Enable 19444	Public
Decoder_Code2D_OCR_Enable_Enable	1
Decoder_Code2D_OCR_Enable_Default	0

Formatter

PROPERTY_TrasmissionAimIDCode 22013	Public
-	
Property values	

Name	Value
TrasmissionAimIDCode_Default	0

PROPERTY_TrasmissionGS1128AimIDCode 22014	Public
-	
Property values	

Name	Value
TrasmissionGS1128AimIDCode_Default	1

PROPERTY_GlobalPrefix 22015	Public
-	
Property values	

Name	Value
GlobalPrefix_Default	

PROPERTY_GlobalSuffix 22016	Public
-	
Property values	

Name	Value
GlobalSuffix_Default	

CouponControl

PROPERTY_CouponControl_Mode 22021	Public
-	
Property values	

Name	Value
CouponControl_Mode_AllowAll	0
CouponControl_Mode_UPCA_Check	1

PROPERTY_CouponControl_Mode 22021	Public
CouponControl_Mode_GS1Databar_Check	2
CouponControl_Mode_Default	1

UserScripting

PROPERTY_UserScripting_CustomConfiguration 22074	Public
Custom configuration that can be accessed by the script	
Property values	

Name	Value
UserScripting_CustomConfiguration_Default	

PROPERTY_UserScripting_Enable 22075	Public
Enable the execution of the script	
Property values	

Name	Value
UserScripting_Enable_Default	0

Capture

PROPERTY_SkipFrame_Enable 23000	Public
-	
Property values	

Name	Value
SkipFrame_Enable_Default	0

Desp

PROPERTY_EnableExtendedResultTx 26542	Public
If enabled all CDecoderResult fields will be sent. If enabled ExtendedResultSupportedOnDevice must be set to one	
Property values	

Name	Value
EnableExtendedResultTx_Enable	1
EnableExtendedResultTx_Disable	0
EnableExtendedResultTx_Default	0

PROPERTY_DespProtocolVersion 26547	Public

PROPERTY_EnableExtendedResultTx 26542		Public
Read Only, Version of protocol		
Property values		
Name		**Value**
DespProtocolVersion_Default		

PROPERTY_EventsDispatch 26548	Public
Enables/Disables events dispatch	
Property values	
Name	**Value**
EventsDispatch_Enable	1
EventsDispatch_Disable	0
EventsDispatch_Default	1

PROPERTY_PlainResult 26549	Public
The result is sent in plain Desp	
Property values	
Name	**Value**
PlainResult_Default	0

Plain_Protocol_Manager

PROPERTY_ResultChannelLoopbackEnabled 26551	Public
-	
Property values	
Name	**Value**
ResultChannelLoopbackEnabled_Default	1

PROPERTY_CustomSwTriggerCommand 26552	Public
-	
Property values	
Name	**Value**
CustomSwTriggerCommand_Default	X

PROPERTY_CustomSwTriggerResponse 26553	Public
-	
Property values	
Name	**Value**

PROPERTY_CustomSwTriggerResponse 26553	Public
CustomSwTriggerResponse_Default	

Phase

PROPERTY_PhaseOnTimeout 26574	Public
Phase ON timeout	
Property values	

Name	Value
PhaseOnTimeout_None	-1
PhaseOnTimeout_Default	5000

PhaseON

PROPERTY_EVL_PhaseOn_CallMode 26610	Public
Command manager Phase ON call mode	
Property values	

Name	Value
EVL_PhaseOn_CallMode_BlockOnTrigger	0
EVL_PhaseOn_CallMode_BlockOnTriggerAndAcquisition	1
EVL_PhaseOn_CallMode_BlockOnTriggerAndProcessing	2
EVL_PhaseOn_CallMode_BlockOnTriggerAndBoth	3
EVL_PhaseOn_CallMode_NotBlocking	4
EVL_PhaseOn_CallMode_Default	1

PROPERTY_EVL_PhaseOn_Timeout 26611	Public
Phase on timeout (ms)	
Property values	

Name	Value
EVL_PhaseOn_Timeout_Default	1000

PhaseOFF

PROPERTY_EVL_PhaseOff_CallMode 26620	Public
Command manager Phase OFF call mode	
Property values	

Name	Value

PROPERTY_EVL_PhaseOff_CallMode 26620	Public
EVL_PhaseOff_CallMode_BlockOnTrigger	0
EVL_PhaseOff_CallMode_BlockOnTriggerAndAcquisition	1
EVL_PhaseOff_CallMode_BlockOnTriggerAndProcessing	2
EVL_PhaseOff_CallMode_BlockOnTriggerAndBoth	3
EVL_PhaseOff_CallMode_NotBlocking	4
EVL_PhaseOff_CallMode_Default	1

PROPERTY_EVL_PhaseOff_Timeout 26621	Public
Phase off timeout (ms)	
Property values	

Name	Value
EVL_PhaseOff_Timeout_Default	1500

PhaseAbort

PROPERTY_EVL_PhaseAbort_CallMode 26630	Public
Command manager Phase Abort call mode	
Property values	

Name	Value
EVL_PhaseAbort_CallMode_NotBlocking	0
EVL_PhaseAbort_CallMode_BlockingOnTermination	1
EVL_PhaseAbort_CallMode_Default	0

PROPERTY_EVL_PhaseAbort_Timeout 26631	Public
Phase abort timeout (ms)	
Property values	

Name	Value
EVL_PhaseAbort_Timeout_Default	1500

Configuration

PROPERTY_EVL_ConfigurationTimeout 26640	Public
Set/Get/Open/Close config timeout (ms)	
Property values	

Name	Value
EVL_ConfigurationTimeout_Default	2500
PROPERTY_EVL_RestoreConfigurationTimeout 26641	**Public**

PROPERTY_EVL_ConfigurationTimeout 26640	Public
RestoreDefault/ConfigImport/ConfigExport timeout (ms)	
Property values	

Name	Value
EVL_RestoreConfigurationTimeout_Default	5000

PROPERTY_EVL_ResumeFromPowerDownTimeout 26642	Public
Resume from power down timeout (ms)	
Property values	

Name	Value
EVL_ResumeFromPowerDownTimeout_Default	5000

ImageFormatter

PROPERTY_ImageFormatter_ImageFormat 26801	Public
This feature gates output image format. 0: Raw, 1:Jpeg, 2:Bitmap	
Property values	

Name	Value
ImageFormatter_ImageFormat_Raw	0
ImageFormatter_ImageFormat_Jpeg	1
ImageFormatter_ImageFormat_Bitmap	2
ImageFormatter_ImageFormat_Default	0

PROPERTY_ImageFormatter_JpegQuality 26802	Public
Qaulity of Jpeg compression	
Property values	

Name	Value
ImageFormatter_JpegQuality_Default	50

PROPERTY_ImageFormatter_GrayLevelsResolution 26803	Public
This feature defines the number of gray levels.	
Property values	

Name	Value
ImageFormatter_GrayLevelsResolution_Default	256

PROPERTY_ImageFormatter_ImageContrastValue 26804	Public
This feature defines the contrast value of the Image.	
Property values	

PROPERTY_ImageFormatter_GrayLevelsResolution 26803	Public

Name	Value
ImageFormatter_ImageContrastValue_Default	0

PROPERTY_ImageFormatter_ImageBrightnessValue 26805	Public
This feature defines the Brightness value of the Image.	
Property values	

Name	Value
ImageFormatter_ImageBrightnessValue_Default	0

OperativeMode

PROPERTY_OperativeMode_ScanMode 26900	Public
Operative mode: ScanMode	
Property values	

Name	Value
OperativeMode_ScanMode_TriggerSingle	0
OperativeMode_ScanMode_TriggerHoldMultiple	1
OperativeMode_ScanMode_TriggerPulseMultiple	2
OperativeMode_ScanMode_Flashing	3
OperativeMode_ScanMode_AlwaysOn	4
OperativeMode_ScanMode_StandMode	5
OperativeMode_ScanMode_Custom	15
OperativeMode_ScanMode_Default	15

PROPERTY_OperativeMode_FlashOnTime 26901	Public
This feature specifies the On time (ms) for the indicator LED while in Flash Mode	
Property values	

Name	Value
OperativeMode_FlashOnTime_Default	1000

PROPERTY_OperativeMode_FlashOffTime 26902	Public
This feature specifies the Off time (ms) for the indicator LED while in Flash Mode	
Property values	

Name	Value
OperativeMode_FlashOffTime_Default	500

PROPERTY_OperativeMode_StandModeTriggerUsage 26904	Public
This feature specifies if stand mode need to listen to trigger events; in this case, a trigger press will force the system to start scanning also if nothing has been detected	

PROPERTY_OperativeMode_FlashOffTime 26902	Public

Property values	
Name	**Value**
OperativeMode_StandModeTriggerUsage_WakeObjDetection	0
OperativeMode_StandModeTriggerUsage_TriggerDisabled	1
OperativeMode_StandModeTriggerUsage_SwitchToTriggerSingle	2
OperativeMode_StandModeTriggerUsage_Default	1

PROPERTY_OperativeMode_ScanOffTimeoutAfterLabelConfiguration 26905	Public

This feature specifies how much the device should stay in ScanOff mode after the exit from label programming

Property values	
Name	**Value**
OperativeMode_ScanOffTimeoutAfterLabelConfiguration_Disabled	0
OperativeMode_ScanOffTimeoutAfterLabelConfiguration_Default	2000