



TECHNICAL SPECIFICATIONS

CONFIGURATION FILE

Referenced files: `_eva_configuration.jcd`, `_eva_configuration.jcf`

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Rev. 1.0 28/02/18	ScreenProjection parameter added
Rev. 1.1 02/03/18	Some default values changed, according to the values of the same parameters in Tnx Profile Config
Rev. 1.2 18/04/18	Scanner.Sdk.Readers.Name OTHER value added. Applied to scanners with its own Sdk configuration (e.g. scanner Zebra DS3678) Scanner.Sdk.Readers.FriendlyName and ConnectionType parameters added. Only considered when Name parameter value is set to OTHER Scanner.BluetoothSPP.UnpairAll added.
Rev. 1.3 14/03/19	ShowUnpairBarcode parameter added

1. Section ScreenProjection

Name	Type	Detail	Comments
ScreenProjection	boolean	default = false	Set this parameter to true if you use OCR component

2. Section Packages

Name	Type	Detail	Comments
Packages	object		Packages settings
- Packages.Calibrate	string	default = ""	Calibrate package name
- Packages.Pairing	string	default = ""	BT Pairing package name. Mandatory setting SPPCommand property
- Packages.Scanner	string	default = ""	Barscanner package. Mandatory setting SdkCommand property
- Packages.Run	string	default = ""	Package to open after selecting a profile (optional)

3. Section Scanner

Name	Type	Detail	Comments
Scanner	object		Scanner global settings.
- Scanner.SdkCommand	string	default = ""	Package associated to Sdk scanner
- Scanner.SPPCommand	string	default = ""	Package associated to SPP scanner
- Scanner.Sdk	object		Primary scanner global settings.
o On	boolean	default = false	Loads the scanner library. If this property is set as true, there is a 30-secons maximum delay time to connect to the scanner. This option is valid for Zebra devices and devices with the Barscanner Camera Zbar/GP installed.

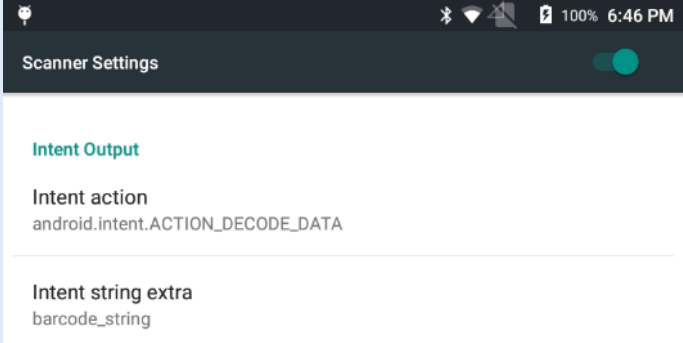
<ul style="list-style-type: none"> ○ Readers 	Array of objects		Built-in SDK Readers ready to manage. This property is only applied to Zebra devices. The Barscanner Camera ignores all values in “Readers” and only re-acts to On property set as true or false
<ul style="list-style-type: none"> <ul style="list-style-type: none"> ▪ Name 	string	default = “INTERNAL”	<p>The Reader Name to use. Possible values: INTERNAL, BTOTHER (applied to RS507 readers), RS6000, CAMERA, PLUGGABLE, OTHER (applied to scanners with its own internal configuration). It is the name you get when “Tnx Scanner” app is executed</p> <div data-bbox="1121 613 1556 841" style="border: 1px solid black; padding: 5px;"> <p>TellNext scanner service correctly configured.</p> <p>2D Barcode Imager: INTERNAL RS6000 Bluetooth Scanner: BLUETOOTH_SSI</p> </div>
<ul style="list-style-type: none"> <ul style="list-style-type: none"> ▪ FriendlyName 	string	default = “”	<p>Friendly name for reader used. Only considered when the Name parameter value is set to OTHER.</p> <div data-bbox="1121 964 1556 1192" style="border: 1px solid black; padding: 5px;"> <p>TellNext scanner service correctly configured.</p> <p>2D Barcode Imager: INTERNAL RS6000 Bluetooth Scanner: BLUETOOTH_SSI</p> </div> <p>It is the name you get when “Tnx Scanner” app is executed.</p> <p><i>IMPORTANT: not include the colon symbol.</i></p>

<ul style="list-style-type: none"> ▪ ConnectionType 	string	default = ""	<p>Connection type for reader used. Only considered when the Name parameter value is set to OTHER.</p> <div style="border: 1px solid black; padding: 5px; margin: 5px 0;"> <p>TellNext scanner service correctly configured.</p> <p>2D Barcode Imager: INTERNAL RS6000 Bluetooth Scanner: BLUETOOTH_SSI</p> </div> <p>It is the connection type you get when "Tnx Scanner" app is executed</p>
<ul style="list-style-type: none"> ▪ On 	boolean	default = false	This reader by SDK is activated.
<ul style="list-style-type: none"> ○ SpottingBeam 	boolean	default = false	Whether to use the "double trigger" feature with long range scanners.
<ul style="list-style-type: none"> ○ PickList 	boolean	default = false	Whether to use the feature reducing (dramatically) the imager decode area.
<ul style="list-style-type: none"> ○ ConsecutiveTimeout 	integer	default = 0	Delay between reading two bar codes, in milliseconds.
<ul style="list-style-type: none"> ○ IdleTime 	integer	default = 0	Time when the scanner is aiming and not decoding, in milliseconds. For RS6000 devices, it is the time before switching off if it is not being used. Otherwise for Zbar Camera or Google Play it switches off after the indicated time.
<ul style="list-style-type: none"> ○ TurnOffScan 	boolean	default = false	Automatically turn off the scanner when a successful read occurs. Scanner have to be restarted by application event.
<ul style="list-style-type: none"> ○ Continuous 	boolean	default = false	Whether to scan continuously or manually.
<ul style="list-style-type: none"> ○ AutoFocus 	boolean	default = false	Whether to use the auto focus feature. Only in CAMERA Readers for Zbar Camera or Google Play.

○ Illumination	boolean	default = true	Whether to use flash or lamp depending on the scanner features.
○ ToggleContinuousKey	string	maxLength: 4, minLength: 4, default = "oooo"	Key code that toggles the continuous scanning mode.
○ BeepOnDecode	object		Beep by built-in libraries when scan is correct.
▪ On	boolean	default = "true"	Whether the libraries make a beep on scan.
▪ StreamType	string	default = "MEDIA"	Stream type to use. Possible values: MEDIA, RINGER, ALARMS.
▪ FeedbackMode	string	default = "BOTH"	Where to play the feedback sound. Possible values: DISABLE, LOCAL, REMOTE, BOTH.
▪ Volume	integer	default = 50	Volume of the beep, in percent.
▪ Frequency	integer	default = 5000	Frequency of the beep, in Hertz.
▪ Duration	integer	default = 500	Duration of the beep, in milliseconds.
▪ BeepFile	string	default = ""	The file name to play when a barcode is decoded. The path must be specified in the next way: \$/myfile.wav where \$ equals /sdcard/TellNext. zebra = "system/media/audio/notifications/decode-short.wav"
▪ Vibrate	boolean	default = false	Whether to vibrate on scan.
▪ Times	integer	default = 1	Number of times to repeat the beep.

○ BeepOnNoDecode			Beep by built-in libraries when scanner can't read the code.
▪ On	boolean	default = "false"	Whether to beep on NO successful scan. zebra = not allowed
- Scanner.BluetoothSPP	object		Bluetooth SPP scanner global settings.
○ On	boolean	default = false	Whether to activate the BT SPP scanner
○ Filter	string	default = ""	The part of the name to filter discovered devices.
○ PIN	string	default = "0000"	The PIN authentication code to provide if requested.
○ ShowUnpairBarcode	boolean	default = false	Whether to display the unpairing barcode, referring to BarcodeType parameter.
○ UseDeviceMajor	boolean	default = false	Whether to filter by BT Major class to associate to BT devices. BT Major class indicates the general family of device with which the device is associated. With paired devices this property is ignored because the device type is already known.
○ UnpairAll	boolean	default = false	Whether the function of unpairing all scanner type devices is available or not.
○ DiscoveryOn	boolean	default = true	Whether to discover other devices. If the value is set to false, the device will be in slave mode to be discovered by other devices. For RS6000 scanner and DiscoveryOn = true , scan "Low Bluetooth Security" barcode and set Timeout parameter between 10 and 15 secs (10000 - 15000 ms) For RS6000 scanner and DiscoveryOn = false , scan first

			“SPP Bluetooth Non-Discoverable” barcode and secondly “Medium Bluetooth Security” barcode, otherwise it would be difficult to pair devices. Set Timeout parameter to a high value, minimum of one minute (60000 ms)
○ BarcodeType	enum	default = “CMD”	If DiscoveryOn property value is set to false, the barcode of the device to pair with will be generated with the barcode type specified as initial characters. Possible values: FNC3 - for Zebra scanners and compatible, CMD - for other scanners, BT - for GeneralScan scanners, BUDGIE - for Budgie On The Go scanner, " - only terminal MAC Address with no prefix
○ ScannerType	enum	default = 0	Identifies the type of scanner connected. Only applied if DiscoveryOn property value is set to false. Possible values: 0 – GENERIC SCANNERS, 1 - RS507 (with Seuic or Unitech terminals), 2 – RS507 ENHANCED (with Honeywell or Generic terminals)
○ TimeOut	integer	default = 10000	The timeout when connecting after discover (in ms)

<ul style="list-style-type: none"> - Scanner.IntentScanner 	<p>object</p>		<p>Some devices use an implicit intent to start scanner service. These parameters can be found in Scanner Settings option from Android devices Settings screen:</p> 
<ul style="list-style-type: none"> o Action 	<p>string</p>	<p>default = ""</p>	<p>General action to be performed For SEUIC devices set as: "Action": "com.android.server.scannerservice.broadcast" For Unitech devices set as: "Action: "android.intent.ACTION_DECODE_DATA"</p>
<ul style="list-style-type: none"> o Extra 	<p>string</p>	<p>default = ""</p>	<p>Extended information For SEUIC devices set as: "Extra": "scannerdata" For Unitech devices set as: "Extra": "barcode_string"</p>

- Scanner.EmulatorBeep	object		Emulator beep on successful scan
o On	boolean	default = false	Whether to beep by emulator on a successful scan.
o BeepFile	string	default = ""	The file name to play by emulator when a barcode is successfully read '\$/myfile.wav' where '\$' equals '/sdcard/TellNext'.
- Scanner.Symbologies	object		List of symbologies to be enabled for this scanner (only applied to Sdk readers)
o UPC E0	object		UPC_Eo related settings.
▪ On	boolean	default = true	Whether the symbology is enabled.
▪ MinLength	integer	minimum = 0,	Minimum length of a barcode for it to be considered valid.
▪ MaxLength	integer	default = 6	Maximum length of a barcode for it to be considered valid.
▪ ExtraOptions	string	default = ""	UPC_E specific options. Each option corresponds to an integer. Please enter the number that corresponds to the sum of the options you want to activate. Take in count that Eo and Ei are common options. Possible options: 1 - CHECK_DIGIT_TRANSMIT_ENABLED, 2- NUMBER_SYSTEM_TRANSMIT_ENABLED, 4- TWO_CHAR_ADDENDA_ENABLED, 8- FIVE_CHAR_ADDENDA_ENABLED, 16- ADDENDA_REQUIRED_ENABLED, 32- ADDENDA_SEPARATOR_ENABLED 64- CONVERT_TO_UPCA

○ UPC E1	object		UPC_E1 related settings.
▪ On	boolean	default = true	Whether the symbology is enabled.
▪ MinLength	integer	minimum = 0, default = 12	Minimum length of a barcode for it to be considered valid.
▪ MaxLength	integer		Maximum length of a barcode for it to be considered valid.
▪ ExtraOptions	string	default = ""	UPC_E1 specific options. Each option corresponds to an integer. Please enter the number that corresponds to the sum of the options you want to activate. Take in count that Eo and E1 are common options. Possible options: 1 - CHECK_DIGIT_TRANSMIT_ENABLED, 2- NUMBER_SYSTEM_TRANSMIT_ENABLED, 4- TWO_CHAR_ADDENDA_ENABLED, 8- FIVE_CHAR_ADDENDA_ENABLED, 16- ADDENDA_REQUIRED_ENABLED, 32- ADDENDA_SEPARATOR_ENABLED 64- CONVERT_TO_UPCA
○ UPC A	object		UPC_A related settings.
▪ On	boolean	default = true	Whether the symbology is enabled.
▪ MinLength	integer	minimum = 0, default = 12	Minimum length of a barcode for it to be considered valid.
▪ MaxLength	integer		Maximum length of a barcode for it to be considered valid.
▪ ExtraOptions	string	default = ""	UPC_A specific options. Each option corresponds to an integer. Please enter the number that corresponds to the sum of the options you want to activate. Possible options: 1- TRANSLATE_ENABLED

			2- COUPON_CODE_MODE_ENABLED, 4 -COMBINE_COUPON_CODE_MODE_ENABLED, 8- CHECK_DIGIT_TRANSMIT_ENABLED, 16- NUMBER_SYSTEM_TRANSMIT_ENABLED, 32- TWO_CHAR_ADDENDA_ENABLED, 64- FIVE_CHAR_ADDENDA_ENABLED, 128- ADDENDA_REQUIRED_ENABLED, 256- ADDENDA_SEPARATOR_ENABLED
○ EAN 8	object		EAN_8 related settings.
▪ On	boolean	default = true	Whether the symbology is enabled.
▪ MinLength	integer	minimum = 0, default = 8	Minimum length of a barcode for it to be considered valid.
▪ MaxLength	integer		Maximum length of a barcode for it to be considered valid.
▪ ExtraOptions	string	default = ""	EAN_8 specific options. Each option corresponds to an integer. Please enter the number that corresponds to the sum of the options you want to activate. Possible options: 1- CHECK_DIGIT_TRANSMIT_ENABLED, 2- TWO_CHAR_ADDENDA_ENABLED, 4- FIVE_CHAR_ADDENDA_ENABLED, 8- ADDENDA_REQUIRED_ENABLED, 16- ADDENDA_SEPARATOR_ENABLED. 32- CONVERT_TO_EAN_13

○ EAN 13	object		EAN_13 related settings.
▪ On	boolean	default = true	Whether the symbology is enabled.
▪ MinLength	integer	minimum = 0, default = 13	Minimum length of a barcode for it to be considered valid.
▪ MaxLength	integer		Maximum length of a barcode for it to be considered valid.
▪ ExtraOptions	string	default = ""	EAN_13 specific options. Each option corresponds to an integer. Please enter the number that corresponds to the sum of the options you want to activate. Possible options: 1- CHECK_DIGIT_TRANSMIT_ENABLED, 2- TWO_CHAR_ADDENDA_ENABLED, 4- FIVE_CHAR_ADDENDA_ENABLED, 8- ADDENDA_REQUIRED_ENABLED, 16- ADDENDA_SEPARATOR_ENABLED,
○ MSI	object		MSI related settings.
▪ On	boolean	default = true	Whether the symbology is enabled.
▪ MinLength	integer	minimum = 0, default = 2	Minimum length of a barcode for it to be considered valid.
▪ MaxLength	integer	minimum = 0, default = 20	Maximum length of a barcode for it to be considered valid.
▪ ExtraOptions	string	default = ""	MSI specific options. Each option corresponds to an integer. Please enter the number that corresponds to the sum of the options you want to activate. Possible options: 1- CHECK_DIGIT_MODE_NO_CHECK 2- CHECK_DIGIT_MODE_SINGLE_MOD_11_PLUS_MOD_10

			_CHECK 4- CHECK_DIGIT_MODE_DOUBLE_MOD_10_CHECK 8- CHECK_DIGIT_MODE_SINGLE_MOD_10_CHECK_AND_STRIP 16- CHECK_DIGIT_MODE_SINGLE_MOD_11_PLUS_MOD_10_CHECK_AND_STRIP 32- CHECK_DIGIT_MODE_DOUBLE_MOD_10_CHECK_AND_STRIP 64- REDUNDANCY
○ CODABAR	object		CODABAR related settings.
▪ On	boolean	default = true	Whether the symbology is enabled.
▪ MinLength	integer	minimum = 0, default = 2	Minimum length of a barcode for it to be considered valid.
▪ MaxLength	integer	minimum = 0, default = 10	Maximum length of a barcode for it to be considered valid.
▪ ExtraOptions	string	default = ""	CODABAR specific options. Each option corresponds to an integer. Please enter the number that corresponds to the sum of the options you want to activate. Possible options: 1- START_STOP_TRANSMIT_ENABLED 2- CHECK_DIGIT_MODE 4- CONCAT_ENABLED 8- CHECK_DIGIT_MODE_CHECK

			16- CHECK_DIGIT_MODE_CHECK_AND_STRIP 32- REDUNDANCY
○ CODE 39	object		CODE_39 related settings.
▪ On	boolean	default = true	Whether the symbology is enabled.
▪ MinLength	integer	minimum = 0, default = 1	Minimum length of a barcode for it to be considered valid.
▪ MaxLength	integer	minimum = 0, default = 32	Maximum length of a barcode for it to be considered valid.
▪ ExtraOptions	string	default = ""	CODE_39 specific options. Each option corresponds to an integer. Please enter the number that corresponds to the sum of the options you want to activate. Possible options: 1- FULL_ASCII_ENABLED 2- START_STOP_TRANSMIT_ENABLED 4- BASE_32_ENABLED 8- CHECK_DIGIT_MODE_NO_CHECK 16- CHECK_DIGIT_MODE_CHECK 32- CHECK_DIGIT_MODE_CHECK_AND_STRIP 64- REDUNDANCY
○ CODE D25	object		CODE_D25 related settings.
▪ On	boolean	default = true	Whether the symbology is enabled.
▪ MinLength	integer	minimum = 0, default = 2	Minimum length of a barcode for it to be considered valid.
▪ MaxLength	integer	minimum = 0,	Maximum length of a barcode for it to be considered valid.

		default = 14	
▪ ExtraOptions	string	default = ""	Device or scanner specific options.
○ CODE 125	object		CODE_125 related settings.
▪ On	boolean	default = true	Whether the symbology is enabled.
▪ MinLength	integer	minimum = 0, default = 1	Minimum length of a barcode for it to be considered valid.
▪ MaxLength	integer	minimum = 0, default = 14	Maximum length of a barcode for it to be considered valid.
▪ ExtraOptions	string	default = ""	CODE 125 specific options. Each option corresponds to an integer. Please enter the number that corresponds to the sum of the options you want to activate. Possible options: 1- CHECK_DIGIT_MODE_NO_CHECK 2- CHECK_DIGIT_MODE_CHECK 4- CHECK_DIGIT_MODE_CHECK_AND_STRIP 8- CONVERT_TO_EAN13 16- REDUNDANCY
○ CODE 11	object		CODE_11 related settings.
▪ On	boolean	default = true	Whether the symbology is enabled.
▪ MinLength	integer	minimum = 0, default = 2	Minimum length of a barcode for it to be considered valid.
▪ MaxLength	integer	minimum = 0, default = 32	Maximum length of a barcode for it to be considered valid.
▪ ExtraOptions	string	default = ""	CODE 11 specific options. Each option corresponds to an integer. Please enter the number that corresponds to the

			<p>sum of the options you want to activate. Possible options:</p> <p>1- CHECK_DIGIT_MODE_NO_CHECK</p> <p>2- CHECK_DIGIT_MODE_DOUBLE_DIGIT_CHECK</p> <p>4- CHECK_DIGIT_MODE_SINGLE_DIGIT_CHECK</p> <p>8- CHECK_DIGIT_MODE_DOUBLE_DIGIT_CHECK_AND_STRIP</p> <p>16- CHECK_DIGIT_MODE_SINGLE_DIGIT_CHECK_AND_STRIP</p> <p>32- REDUNDANCY</p>
○ CODE 93	object		32- CODE_93 related settings.
▪ On	boolean	default = true	Whether the symbology is enabled.
▪ MinLength	integer	minimum = 0, default = 2	Minimum length of a barcode for it to be considered valid.
▪ MaxLength	integer	minimum = 0, default = 32	Maximum length of a barcode for it to be considered valid.
▪ ExtraOptions	string	default = ""	<p>CODE 93 specific options. Each option corresponds to an integer. Please enter the number that corresponds to the sum of the options you want to activate. Possible options:</p> <p>1- BASE_32_ENABLED</p> <p>2- REDUNDANCY</p>

○ CODE 128	object		CODE_128 related settings.
▪ On	boolean	default = true	Whether the symbology is enabled.
▪ MinLength	integer	minimum = 0, default = 1	Minimum length of a barcode for it to be considered valid.
▪ MaxLength	integer	minimum = 0, default = 55	Maximum length of a barcode for it to be considered valid.
▪ ExtraOptions	string	default = ""	CODE 128 specific options. Each option corresponds to an integer. Please enter the number that corresponds to the sum of the options you want to activate. Possible options: 1- REDUNDANCY
○ RSS	object		GS1 Databar related settings.
▪ On	boolean	default = true	Whether the symbology is enabled.
▪ MinLength	integer	minimum = 0, default = 1	Minimum length of a barcode for it to be considered valid.
▪ MaxLength	integer	minimum = 0, default = 74	Maximum length of a barcode for it to be considered valid.
▪ ExtraOptions	string	default = ""	Device or scanner specific options.

○ CODE 2D	object		CODE_2D related settings
▪ On	boolean	default = true	Activates all this codes: PDF_417, DATAMATRIX, AZTEC, MAXICODE, QRCODE.
▪ MinLength	integer	minimum = 0, default = 2	Minimum length of a barcode for it to be considered valid.
▪ MaxLength	integer	minimum = 0, default = 32	Maximum length of a barcode for it to be considered valid.
▪ ExtraOptions	string	default = ""	Device or scanner specific options.

Informational Annex

VALUE TYPES

Name in this file	Description
“boolean”	A property that can be set or not set, enabled or disabled, with only two possible values, <i>true</i> and <i>false</i> .
“integer”	A number without decimal part such as <i>123</i> , <i>-50</i> , but not such as <i>3.14</i> . The minimum and maximum values depend on the property.
“string”	A piece of text. The minimum and maximum length depend on the property.
“hexstring”	Special type of string that allows <i>/xx \xx</i> , where x is a hexadecimal digit. Or <i>..n</i> where n is a character. For example to write an “\” you should write <i>..\</i> .
“scancode”	A value of type “string” that contains exactly 4 characters, each of them being a valid hexadecimal character (from 0 to 9 and from A to F). For example: <i>0009</i> → <i>TAB</i>
“color”	A value of type “string” that represents a color. Colors are defined as hexadecimal values. “ <i>AARRGGBB</i> ”, “ <i>RRGGBB</i> ”, “ <i>RGB</i> ”.
“enum”	A value of type string that can only have one value among several predefined values.
“object”	Represent a (fixed length) set of values. Each value is identified by a name. An object’s value is determined by its children, each of them being either a string, an integral, or any other value type (including objects).

“array”	Represent a (variable length) set of values. Each value is identified by a position (starting from 0 and consecutive). An array’s value is determined by its children, each of them being either a string, an integral, or any other value type (including arrays).
“array of objects”	An array that only contains values of type “object” as children.

See **Configuration-File-XXX** manuals for value options.