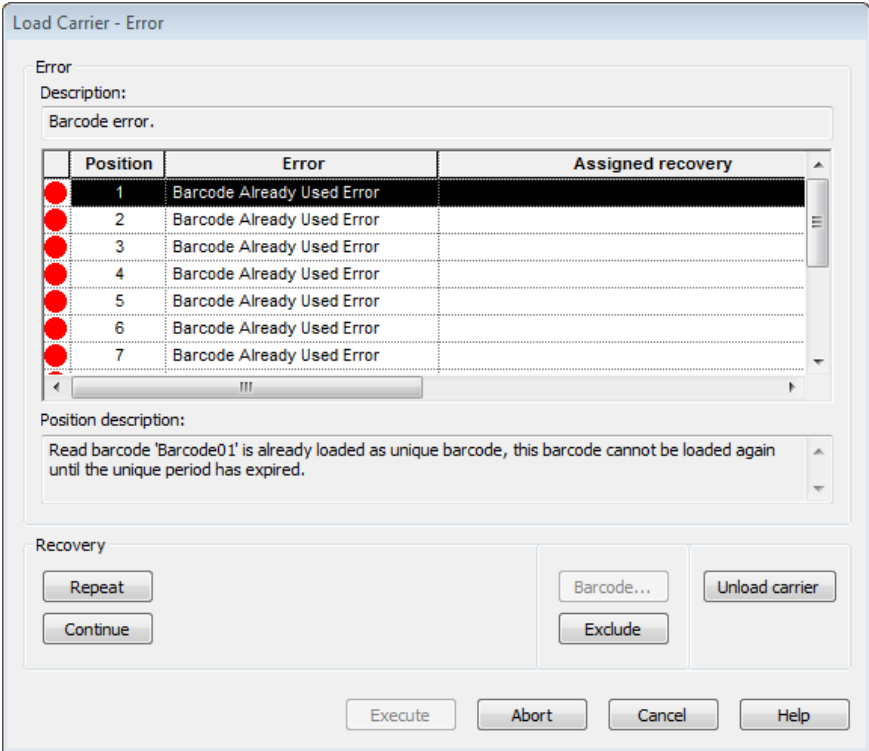


Barcode Already Used Error

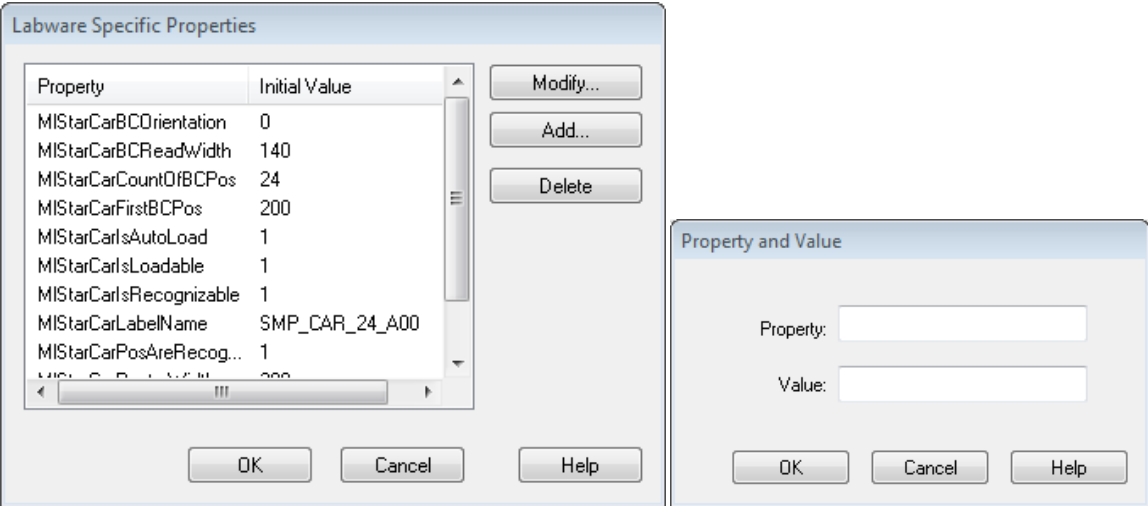


14.4.3 2D Autoload

14.4.3.1 How to Set the Different Properties

In most cases, it is possible to work with the standard labware integrated in VENUS. A new 2D specific property has just to be set when the given labware does not work with those values.

- 1. Open the labware you want to modify in the labware editor click the labware properties button.
- 2. Add or modify a property with the specific buttons.



- 3. Press OK twice and save the labware afterwards.

14.4.3.2 Description of Properties and Usage

See the picture at the end of this chapter for a visual help and read the description to find the function of each property.

Properties used on "Load carrier" only.

Key name	Range [unit]	Default	Description
MIStar2DBarcodeCarFirstBCPosShift	+/- value [1/10mm]	0	This property allows a correction of read position for first barcode as defined with property "MIStarCarFirstBCPos".
<p>Please do not change the value of "MIStarCarFirstBCPos"!</p> <p>Depending on carrier design, the light of the 2D barcode reader may produce a shadow on the barcode. Use this property to shift the position by a few millimeters.</p>			

These properties define where and how a barcode can be read using the 2D barcode reader.

All properties can be used for every kind of labware (carrier, rack and container).

Key name	Range [unit]	Default	Description
MIStar2DReaderRoiYCenterOffset	+/- 1000 [1/10mm]	0	Defines the distance from the barcode trigger position to the barcode center
MIStar2DReaderRoiZCenterOffset	0...2500 [1/10mm]	0	Defines the distance from the bottom of the labware to the barcode center.
<p><u>Example:</u></p> <ul style="list-style-type: none"> If this property is used on a plate- or tube carrier, the value defines the distance from the instrument deck to the barcode center. If this property is used on a rack or a container, the value defines the distance from the rack / container bottom (lowest point) to the barcode center <p>The default for this property will be set as half height of container length, if the property "MIStarCarOpenRasterBarcodePositions" is defined.</p>			
MIStar2DReaderRoiYWidth	0...960 [1/10mm]	0	Width of ROI window.
<p>If property "MIStarCarOpenRasterBarcodePositions" is defined, the default for this property will be set to the width of labware.</p>			
MIStar2DReaderRoiZHeight	0...1280 [1/10mm]	0	Width of ROI window.

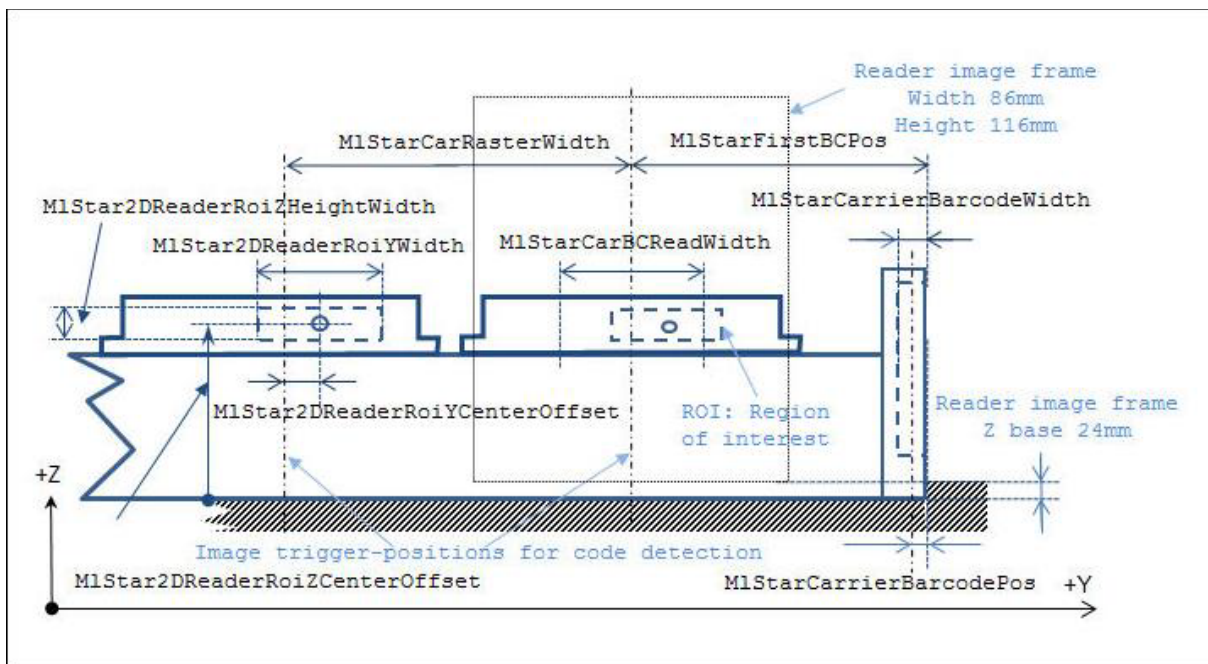
Key name	Range [unit]	Default	Description
If property "MIStarCarOpenRasterBarcodePositions" is defined, the default for this property will be set to height of container length.			
MIStarCarBCOrientation	0...2	0 or 2	Defines the orientation of the applied 1D barcode on a rack respectively on a container.
<p>This property will be used if a carrier is loaded with irregular barcode read mode "MIStarCarOpenRasterBarcodePositions".</p> <p>0 = Vertical, 1 = Horizontal, 2 = Open mode, both directions possible</p> <p>If this property is not defined, the following defaults will be used: Rack = 2, Container = 0</p> <p>If this property is defined on a carrier, see "MIStarCarBCOrientation"</p>			
MIStar2DReaderIlluminationSettings	"0;0;0;0;0;0;0"	First 5: 0...2 Sixth: 0...15 Seventh: 50...500 [us]	Defines the 2D barcode reader illumination setting. Define 7 values separated by a semicolon. If this property is not defined, the default will be used
First value:	Reader light upper rear	0 1 2	Firmware standard ON OFF
Second value:	Reader light lower rear	0 1 2	Firmware standard ON OFF
Third value:	Reader light upper front	0 1 2	Firmware standard ON OFF
Fourth value:	Reader light lower front	0 1 2	Firmware standard ON OFF
Fifth value:	Reader external light	0 1 2	Firmware standard ON OFF
Sixth value:	Contrast gain	0 1...15	Firmware standard Low... high [image noise!]

Key name	Range [unit]	Default	Description
Seventh value:	Camera exposure time	0 50... 500	Firmware standard Exposure time [us]
Firmware standard:		"0;0;0;0;1;0;0"	
Exception on horizontal reading:		"1;1;0;0;1;0;0"	



NOTE

In which case which property must be set, depends on the lightning at the locality and the used customer barcodes.



14.4.3.3 How to React on Read Failures

- Check if the used barcode type is correctly activated. (See 14.4.1 Supported Barcode Types for more information)
- Check light conditions:
 - Make sure there are no bright directional light influences such as sunshine or lamps
 - Avoid shadows.
- Check the region of interest. (See chapter 14.4.3.2 for more information)
- Deactivate not used barcode types to strengthen the read result and speed. (See chapter 14.4.1.2 Enabling Codes)