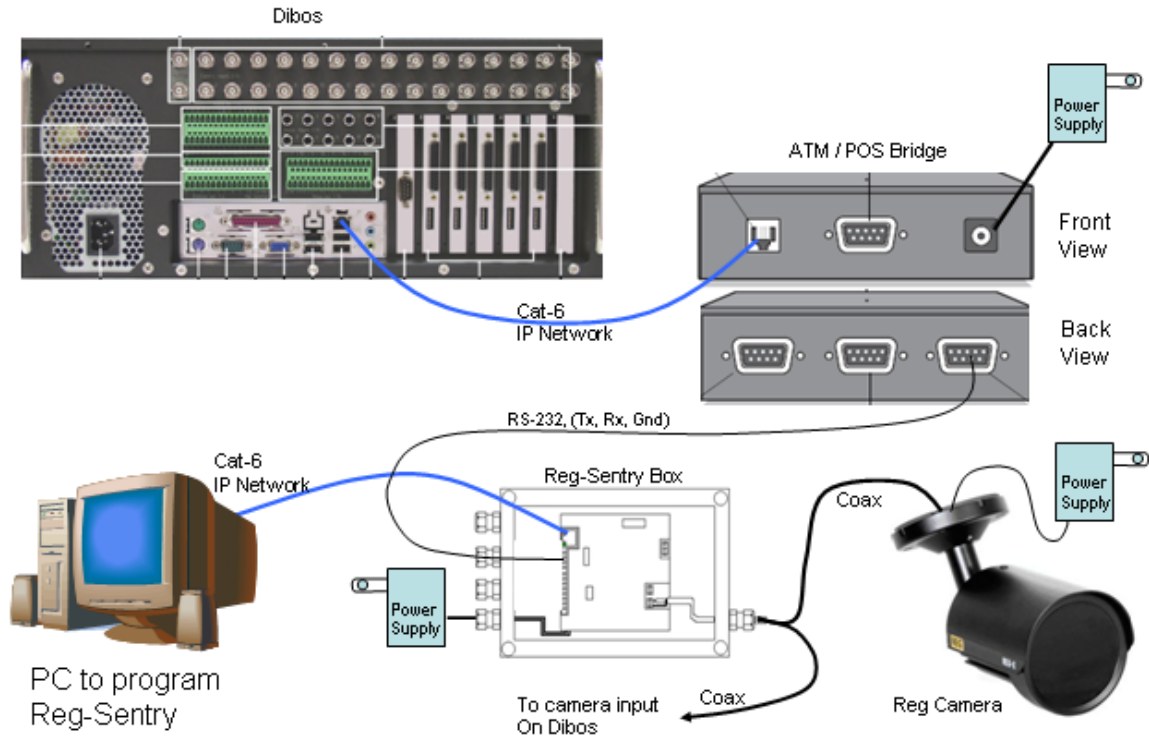


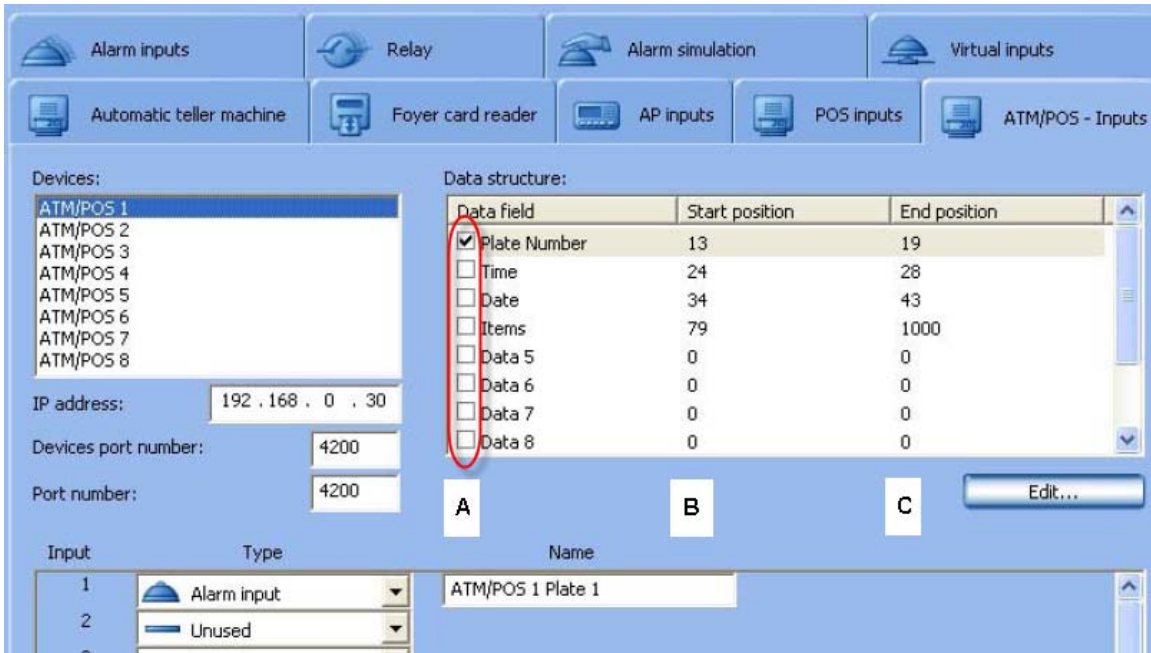
How Dibos captures, stores and presents Serial Data via the ATM/POS bridge.

This document provides additional information on integration of the ATM/POS bridge within Dibos 8. As application we will connect a RegSentry NPR unit as source.

Interconnections



In below programming example the ATM/POS bridge input 1 is connected to the Reg-Sentry serial output. The bridge input 1 is programmed in transparent mode and all characters are passed on to the Dibos unfiltered.



Assume the input string is a fixed string so always the same amount of characters. This string has also CarriageReturn and LineFeeds (CR+LF) in it to separate the adjacent blocks of information.

Additional important information:

- Each string send from the bridge to Dibos is encapsulated in a bridge transmission package. Multiple CR/LF characters may exist in such a package and are not regarded as end of string delimiters.
- Dibos stores all data received inclusive the non printable characters.
- Dibos can also filter certain parts of the incoming data structure and stores only defined positions of the string as indicated with the tick boxes in the above picture.
- The tick box (see red box A above) allows activation of the string filter in case the input string is a fixed format.
- If **Box A** does not contain any ticks then **ALL information of the string send to Dibos is stored**. This is advised to use when if the input string length is dynamic. Fixed start and stop positions are then not usable !

The position numbering of the incoming string is zero based. The first character in the string has position 0.

Position	0	1	2	3	4	5	6	7
String	A	B	C	D	E	F	G	H

Example: Input String is ABCDEFGH then filtering with start pos =2(**Box B**) and end position 5 (**Box C**) provides the metadata CDEF

- If one of the filters end position does not exist then Dibos does not fire a trigger.

Example: you have defined in one of your data structures an end position 25 and your message string has only 21 characters. Dibos will not trigger.

- Individual Data structures may overlap. Also it is not necessary to define all positions so you could set a filter somewhere in the middle of the string only.
- The data of the Reg-Sentry presents standard 4 lines of information at each reading.

```
Number Plate:XD78RF  
Time:16:41  
Date:17:07:2009  
Black and White Status:0  
Relay Time(ms):00001000
```

Note:

1. If the number plate length can vary and you would like to capture plain number plate information only then we can supply some RegSentry firmware version variants that provides only the information you need. **Please contact SSO EMEA in this case.** A firmware that for instance could produce the NumberPlate only output of the RegSentry would produce only this:

```
XD78RF
```

and is followed by the invisible characters Carriage Return and Line Feed (CR/LF) .This string comprises then position 0 to 7 of the data. You need to set the filter as shown in the following figures.

NOTE:

Please be aware that the ATM/POS inputs can only trigger specific alarm inputs in Dibos as depicted in the next pictures. The changed names in this example show the correspondence with the bridge input. Each alarm is triggered when a data string is sent via the corresponding input of the bridge.

For the first ATM/POS bridge the alarm triggers are to be set here:

Devices:

- ATM/POS 1
- ATM/POS 2
- ATM/POS 3
- ATM/POS 4
- ATM/POS 5
- ATM/POS 6
- ATM/POS 7
- ATM/POS 8

IP address: 10 . 10 . 171 . 239

Devices port number: 4200

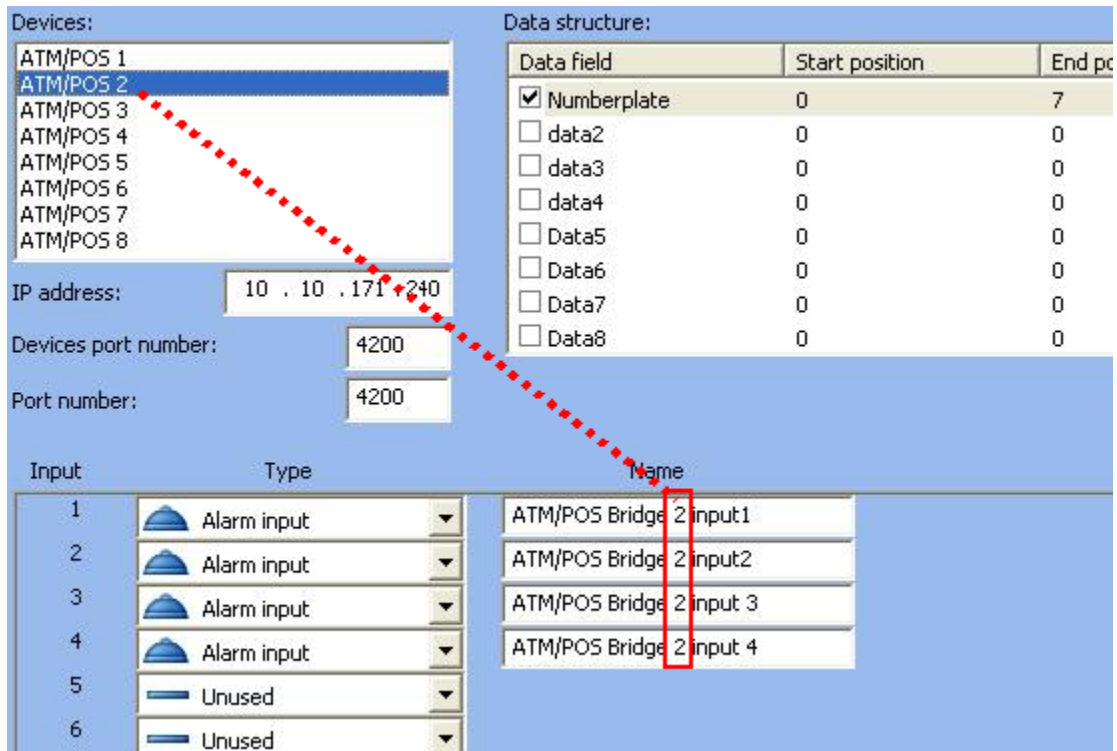
Port number: 4200

Data structure:

Data field	Start position	End po
<input checked="" type="checkbox"/> Numberplate	0	7
<input type="checkbox"/> data2	0	0
<input type="checkbox"/> data3	0	0
<input type="checkbox"/> data4	0	0
<input type="checkbox"/> Data5	0	0
<input type="checkbox"/> Data6	0	0
<input type="checkbox"/> Data7	0	0
<input type="checkbox"/> Data8	0	0

Input	Type	Name
1	Alarm input	ATM/POS Bridge 1 input1
2	Alarm input	ATM/POS Brigde 1 input2
3	Alarm input	ATM/POS Brigde 1 input3
4	Alarm input	ATM/POS Brigde 1 input4
5	Unused	
6	Unused	
7	Unused	

For the second ATM/POS bridge the alarm triggers are to be set here:



NOTE:

Alarm inputs 5-16 cannot be used !

- In the menu of the ATM/POS itself, there are 2 network ports defined. One is called Recorder TCP port and the other is called Service TCP port.

The port named “**Recorder TCP port**” corresponds with the port named in Dibos as “**Device port number**” **AND** “**Port number**”. Use the same number.(default is 4200) See picture above.

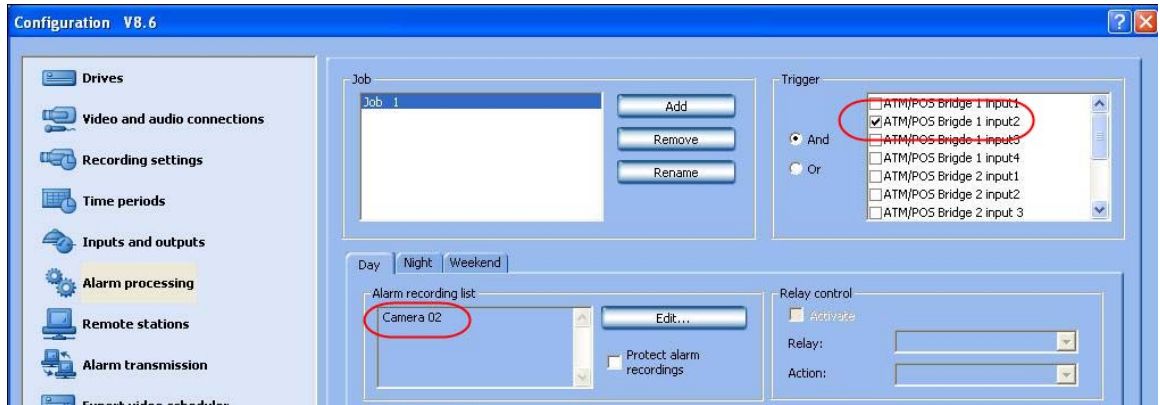
The Service TCP port is not used in Dibos programming.

NOTE:

There is a bug in versions 8.5 and 8.6 Dibos software. The ports should be settable per individual ATM/POS bridge. This is unfortunately not the case . When you change the port belonging to one ATM/POS bridge apparently all ATM/POS bridges are affected. This bug is fixed in version 8.7

Testing the settings:

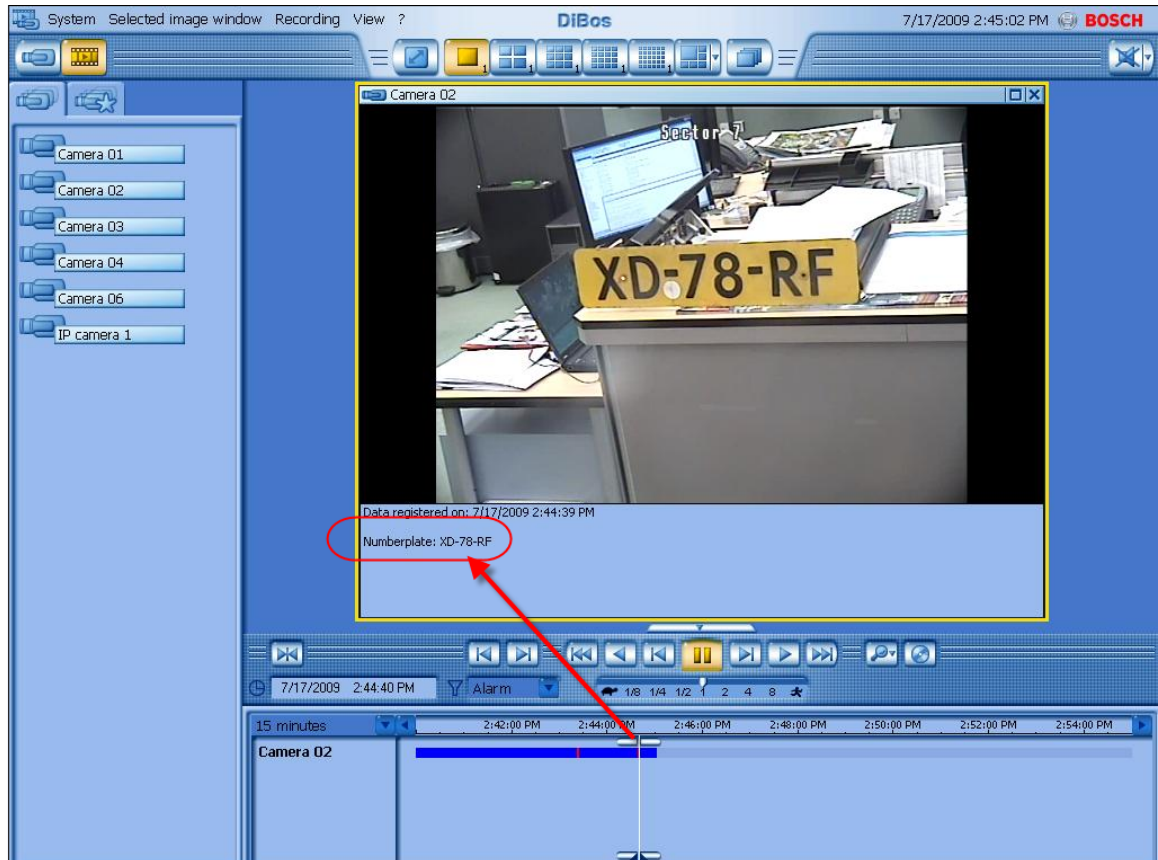
You can create a recording job for camera 2 associated with input 2 date from a RegSentry connected to input 2 of the ATMPOS bridge as follows:



Finding the numberplate in Playback mode:

You can find back the event in the Dibos data base by searching for the number.

The result will show as logging. You can display the image by finding the same time in the timeline display mode. Please select in the menu “Selected Image Window” the “Additional Data” to add a text space to the displaying cameo in order to see the data string during playback. Now play over this alarm event. This will show the following result.



- - When you would like to search for recorded data in the playback mode of Dibos, you can use the * as a wildcard to show all data recorded.
- In playback the data is displayed keeping the original format layout as presented in the string (provided the cameo text display area is big enough)

Please do not hesitate to contact us for further information.

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