

X-Original-To: rsb@hpnmrsb2.soco.agilent.com
Delivered-To: rsb@hpnmrsb2.soco.agilent.com
Delivered-To: rsb@soco.agilent.com
DKIM-Signature: v=1; a=rsa-sha256; c=relaxed/relaxed; d=gmail.com;
s=gamma; h=domainkey-signature:mime-version:received:received:in-reply-to
:references:date:message-id:subject:from:to:cc:content-type;
bh=s5F7ejYaZyotIOLinnYv6UdxHwpN1lRWlHp6xPqPWKA=;
b=dEHbq0aA+0R2sC7zG+tAHkQZYvm3k6ZIEhvbvSIMqii7upXMUkO2un47KA+XdrrrDR
1CCbNIu7eN68EYxsgpRb6QU5BlL0tC3UJARzp5i4Eobu7+peNY54wrJx5eaM6X5leANq
wmUyXoQdQVdJdNc+rDGzzWuReO40dd2jpwLmE=
DomainKey-Signature: a=rsa-sha1; c=noews; d=gmail.com; s=gamma; h=mime-
version:in-reply-to:references:date:message-id:subject:from:to :cc:content-
type; b=KLR+GFnrWn9Nf3GtMUfoWhsXVzfZjCgncB8Pakale+8tST0tzrhCCJ2bTojRqS3E79
Qlp3oM0xj26BGm0zIVq5Wl+Yx42VyMSNpu0gvsex1fSz3LmSFVVviUaPHItJUwkaIfa6
vHOQU/HSJ47I9x9TNbJl9HNkMEME8Ssn/ODVM=
Date: Mon, 27 Sep 2010 18:25:00 -0500
Subject: Re: [vrf] NET serial port events - 3rd try at posting
From: Shawn Fessenden <shawnfessenden@gmail.com>
To: VRF <vrf@agilent.com>
Cc: VRF <vrf@agilent.com>
X-CTCH-Spam: Unknown
X-CTCH-VOD: Unknown
X-CTCH-RefID: str=0001.0A090203.4CA127CE.0284,ss=1,fgs=0
X-PMX-Queue-id: 4CA127CE_13432_89091_1
X-PMX-Version: 5.5.4.371499, Antispam-Engine: 2.7.1.369594, Antispam-Data:
2010.9.27.231521
X-PerlMx-Spam: Gauge=IIIIIIII, Probability=8%, Report=' FORGED_FROM_GMAIL
0.1, HTML_NO_HTTP 0.1, BODYTEXT_SIZE_10000_LESS 0,
BODYTEXT_SIZE_3000_LESS 0, BODY_SIZE_10000_PLUS 0,
CTYPE_MULTIPART_NO_QUOTE 0, DATE_TZ_NA 0, WEBMAIL_SOURCE 0, ZIP_ATTACHED
0, __BOUNCE_CHALLENGE_SUBJ 0, __BOUNCE_NDR_SUBJ_EXEMPT 0, __CT 0,
__CTYPE_HAS_BOUNDARY 0, __CTYPE_MULTIPART 0, __CTYPE_MULTIPART_MIXED 0,
__FRAUD_FUNWORDS 0, __FRAUD_WEBMAIL 0, __FRAUD_WEBMAIL_FROM 0,
__FROM_GMAIL 0, __HAS_HTML 0, __HAS_MSGID 0, __MIME_HTML 0, __MIME_VERSION
0, __PHISH_SPEAR_HTTP_RECEIVED 0, __PHISH_SPEAR_STRUCTURE_1 0,
__SANE_MSGID 0, __TO_MALFORMED_2 0'
X-PMX-Spam-Score: 8%
X-Spam-Flag: No
List-Unsubscribe: <<mailto:leave-vrf-432829U@it.lists.it.agilent.com>>
Reply-To: Shawn Fessenden <shawnfessenden@gmail.com>
X-Virus-Scanned: clamav-milter 0.95.3 at aglcosbs02.cos.agilent.com
X-Virus-Status: Clean

> I'm interested in a Vee example that
> will allow servicing input from any of a
> large number of serial ports without
> using continuous looping through a set
> of character received tests.

Yet another use for Glom. It was designed to dynamically conglomerate a
large number of .NET events and feed them to one single event handler. The

original intent was to avoid having dozens of button click handlers for dozens of buttons, or to dynamically conglomerate events when buttons were created dynamically but the concept is exactly the same: the creation of a chain of handlers for different objects & rerouting their similar events to a single handler.

I can't send dlls in attachments any more, but this shows how easy it is. Contained is a C# source & VEE 7 demo. You'll have to generate an assembly to make the demo work. To modify it for your application, change 'public void SubscribeTo(Button source);' to public void SubscribeTo(<object> source);', where <object> is the class of object to whose events you want to subscribe (i.e. SerialPort). Replace all mention of 'Click' with the event you want to handle.

Naturally you'll also need to modify the namespace inclusion.

You can provide three handlers (named differently of course) & delegate all the events out to "glommed" handlers up in VEE also. It all depends on what events you want to handle. IOW (check event names - I don't have the sdk in front of me)...

```
# delegations.
public delegate void GotSerialDataReceived(object sender, EventArgs e);
public delegate void GotSerialErrorReceived(object sender, EventArgs e);
public delegate void GotSerialPinChanged(object sender, EventArgs e);
```

```
# this assembly sources these events.
public event GotSerialDataReceived sdr;
public event GotSerialErrorReceived ser;
public event GotSerialPinChanged spc;
```

```
...SubscribeTo...
```

```
source.SerialDataReceived += new EventHandler(sdrHandler);
source.SerialErrorReceived += new EventHandler(serHandler);
source.SerialPinChanged += new EventHandler(spcHandler);
```

```
# handlers.
void sdrHandler(object sender, EventArgs e) {sdr(sender, e);}
void serHandler(object sender, EventArgs e) {ser(sender, e);}
void spcHandler(object sender, EventArgs e) {spc(sender, e);}
```

In case you're wondering how you distinguish what object initiated what event, the object itself is sent along with the notification to VEE so you're never in the dark. If all else fails, you can use the Tag property to store a unique value that identifies the sourcing object.

--

-SHAWN-

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Content-Type: application/zip;

name="Glom2.zip"

Content-Disposition: attachment;

filename="Glom2.zip"

X-Attachment-Id: f_gelyrf4g1



[Glom23.zip](#)

X-Original-To: rsb@hpnmrsb2.soco.agilent.com
Delivered-To: rsb@hpnmrsb2.soco.agilent.com
Delivered-To: rsb@soco.agilent.com
Subject: RE: [vrf] RS-232 Ring Indicator (RI)
Date: Thu, 3 Dec 2009 13:29:45 -0500
X-MS-Has-Attach:
X-MS-TNEF-Correlator:
Thread-Topic: [vrf] RS-232 Ring Indicator (RI)
Thread-Index: Acp0QSZ+q7h8F1Z6R8SgwzLnk98KCAABR/og
From: "Warren, Rufus (EXT)" <Rufus.Warren@siemens.com>
To: VRF <vrf@agilent.com>
X-Scanned-By: MPP/Clamd <http://www.messagepartners.com>
X-Scanned-By: MPP invoked on aglcosbs02
X-Scanned-By: MPP/CommTouch <http://www.messagepartners.com>
X-PMX-Queue-id: 4B1803A4_27619_31630_1
X-PMX-Version: 5.5.4.371499, Antispam-Engine: 2.7.1.369594, Antispam-Data: 2009.12.3.181522
X-PerlMx-Spam: Gauge=IIIIIIII, Probability=8%, Report='
BODY_SIZE_1500_1599 0, BODY_SIZE_2000_LESS 0, BODY_SIZE_5000_LESS 0,
BODY_SIZE_7000_LESS 0, __BOUNCE_CHALLENGE_SUBJ 0, __BOUNCE_NDR_SUBJ_EXEMPT
0, __CP_URI_IN_BODY 0, __CT 0, __CTE 0, __CT_TEXT_PLAIN 0, __HAS_MSGID 0,
__IMS_MSGID 0, __MIME_TEXT_ONLY 0, __MIME_VERSION 0, __SANE_MSGID 0,
__TO_MALFORMED_2 0'
X-PMX-Spam-Score: 8%
List-Unsubscribe: <<mailto:leave-vrf-432829U@it.lists.it.agilent.com>>
Reply-To: "Warren, Rufus (EXT)" <Rufus.Warren@siemens.com>
X-Scanned-By: MPP/Clamd <http://www.messagepartners.com>
X-Scanned-By: MPP invoked on aglcosbs03

Use .Net

System.IO.Ports.SerialPort and use the event PinChanged. You should be able to select the ring indicator.

Rufus

-----Original Message-----

From: Peter M Fender [<mailto:Peter M Fender@raytheon.com>]
Sent: Thursday, December 03, 2009 12:38 PM
To: VRF
Subject: [vrf] RS-232 Ring Indicator (RI)

I am interfacing an RS-232 serial device that uses the Ring Indicator (RI) for status.
Its pin 9 on a 9 pin serial port.

I know VEE can read the CTS and DSR in Direct I/O, but I don't see a way for it to read the RI (or DCD) signal.

When I setup the device in IO Libs, there is a selection to generate SRQ with CTS, DSR, RI, or DCD.

But VEE Interface Event only reports Data Available, not any kind of interrupt or Service Request.

Am I missing something here?

Or will I have to make an adapter to wire RI to CTS so I can read it?

Thanks,

Peter Fender

Raytheon Co.

St. Petersburg, FL

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X-Original-To: rsb@hpnmrsb2.soco.agilent.com
Delivered-To: rsb@hpnmrsb2.soco.agilent.com
Delivered-To: rsb@soco.agilent.com
Subject: RE: [vrf] Spoll strangeness
Date: Fri, 14 Aug 2009 10:08:37 -0400
X-MS-Has-Attach:
X-MS-TNEF-Correlator:
Thread-Topic: [vrf] Spoll strangeness
Thread-Index: AcocrhxuvBSkJOJkSlWgNls8zt7ujQAN2ztA
From: "Warren, Rufus (EXT)" <Rufus.Warren@siemens.com>
To: VRF <vrf@agilent.com>
X-Scanned-By: MPP/Clamd <http://www.messagepartners.com>
X-Scanned-By: MPP invoked on aglcosbs05
X-Scanned-By: MPP/CommTouch <http://www.messagepartners.com>
X-PMX-Queue-id: 4A857012_9337_32483_1
X-PMX-Version: 5.5.4.371499, Antispam-Engine: 2.7.1.369594, Antispam-Data: 2009.8.14.135728
X-PerlMx-Spam: Gauge=IIIIIIII, Probability=8%, Report='
BODY_SIZE_10000_PLUS 0, SINGLE_IMG_ATTACH 0, __BOUNCE_CHALLENGE_SUBJ 0,
__CP_MEDIA_2_BODY 0, __CP_URI_IN_BODY 0, __CT 0, __CTYPE_HAS_BOUNDARY 0,
__CTYPE_MULTIPART 0, __CTYPE_MULTIPART_MIXED 0, __FRAUD_419_BODY_WEBMAIL
0, __FRAUD_419_WEBMAIL 0, __HAS_MSGID 0, __IMS_MSGID 0, __MIME_VERSION 0,
__SANE_MSGID 0, __TO_MALFORMED_2 0'
X-PMX-Spam-Score: 8%
List-Unsubscribe: <<mailto:leave-vrf-432829U@it.lists.it.agilent.com>>
Reply-To: "Warren, Rufus (EXT)" <Rufus.Warren@siemens.com>
X-Scanned-By: MPP/Clamd <http://www.messagepartners.com>
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Try using the .NET object System.IO.Ports and enable events. The events are: DataReceived, ErrorReceived, PinChanged, whatever pin changed means.

See attached.

rufus

-----Original Message-----

From: Gregg Levine [<mailto:gregg.drwho8@gmail.com>]
Sent: Friday, August 14, 2009 3:09 AM
To: VRF
Subject: [vrf] Spoll strangeness

Hello!

Recently I've discovered that this version of VEE, 8.51 by numbered versioning will allow me to use the Instrument Event icon for serial devices.

It seemed strange to me because under 7.51 it didn't even though my serial device was in fact present and numbered according to the ASRL

methods rather than the selecting methods used for previous releases of both the IO Libraries and VEE, it, ah, wasn't going to allow me to create it.

This time using any of three different aliases I can create one, and it gets called Spoll.

So far it does want to work, when Windows will allow it. On no less than four different occasions it caused one of those dreaded "Your program has stopped working." boxes and wanted me to send the data collected to Microsoft. I wonder what they will do with it, besides ignore it.

For one alias working with the chosen Direct IO method, I then chose a different alias again of course for the same USB Serial conversion device. This time it did work.

This device is one of the FTDI chips who can translate an USB port into a serial port. What is needed at the board's end are the translators for RS232 functions, which I'm not using.

My next step to confirm this strangeness will be to revert to a regular serial port and select parts from the Maxim collection.

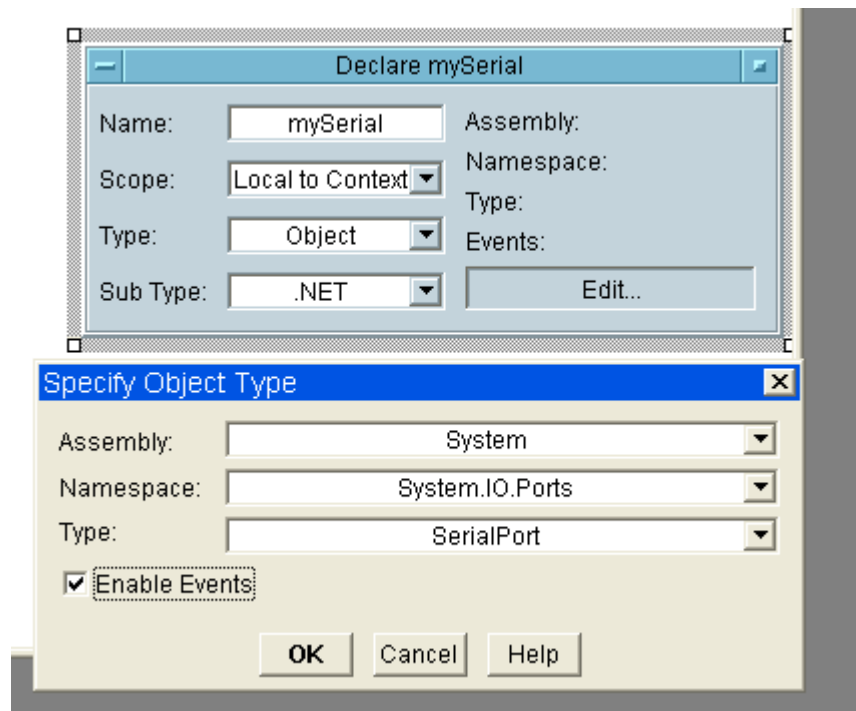
Gregg C Levine gregg.drwho8@gmail.com
"This signature was once found posting rude messages in English in the Moscow subway."

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[mySerial.bmp](#)