

B&R Revision Information

PVI Runtime/Development 3.0.2.3119/3.0.2.3019

20-Mar-2013

Contents

<u>B&R Revision Information (20.03.2013)PVI Runtime/Development 3.0.2.3119/3.0.2.3019</u>	1
<u>Contents</u>	1
<u>Requests and problems by version</u>	1
<u>Requests and problems by product/component</u>	2
<u>1A4000.02 Automation Net/PVI</u>	2
<u>Linie – INA2000</u>	2
<u>PVI DataLogger</u>	3
<u>PVI General</u>	3
<u>PVI Manager</u>	3
<u>PVI Monitor</u>	3
<u>PVI OPC Monitor</u>	3
<u>PVI OPC Server DA 3.0</u>	3
<u>PVI Services .NET</u>	4
<u>PVI Setup</u>	7
<u>Security Library</u>	7
<u>SNMP C-Library</u>	7
<u>Tools – PVITransfer</u>	7
<u>WinNT CAN Treiber</u>	9

B&R Revision Information (20.03.2013)

PVI Runtime/Development 3.0.2.3119/3.0.2.3019

The current revision information can be downloaded from the B&R Homepage download area (<http://www.br-automation.com/download>).

Contents

- [Requests and problems by version](#)
- [Requests and problems by product/component](#)

Requests and problems by version

ID	valuation	solved since	known since	Description
400107622	Problem	PVI3.00.02.3x19	PVI3.00.02.3x18	Automatic object connection not always working during remote connections
400098290	Problem	PVI3.00.02.3x19	PVI3.00.02.3x18	"CFRestoreFiles" command doesn't work if the source directory ends with "\".
400101814	Problem	PVI3.00.02.3x19	PVI3.00.02.3x16	Generating a CF image no longer works without administrator rights.
400107622	Problem	PVI3.00.02.3x19	PVI3.00.02.3107	Problem when a remote connection to the PLC is interrupted
400050425 400081662	New function	PVI3.00.02.3x18	–	Copying individual files from a CF image
400100783	Problem	PVI3.00.02.3x18	PVI3.00.02.3x18	Indexed read access on nested structure elements where an array occupies at least one level always returns the value of the same element with index 0.
400096726	Problem	PVI3.00.02.3x18	PVI3.00.02.3x17	When a System.Array is mapped to the Value property of an array variable, memory leaks can occur.
400083920	Problem	PVI3.00.02.3x18	PVI3.00.02.3x17	PVI Manager doesn't open if the command line parameter "--Conn:" is used
400089605	Problem	PVI3.00.02.3x18	PVI3.00.02.3x16	OPC server is not multi-instance capable
400089621	Problem	PVI3.00.02.3x18	PVI3.00.02.3115	When a task object is registered as static, the connected event is not triggered.
400089509	New function	PVI3.00.02.3x18	PVI3.00.02.3115	Save log file relative to .pil file
400076266 400082514	Problem	PVI3.00.02.3x18	PVI3.00.02.3114	Problem calculating the year for DATE_AND_TIME variables on Windows OPC server
400094428	Problem	PVI3.00.02.3x18	PVI3.00.02.3106	If multiple UserCollections are used in a task, the Connected event results in an InvalidArgument exception.
400091922	Problem	PVI3.00.02.3x18	PVI3.00.02.3106	Every time the CPU is restarted, new PCI link objects are generated when you connect to PviServices objects.
400079968	Problem	PVI3.00.02.3x18	PVI3.00.02.3104	PVI Manager (BrSnp) crashes when too many Ethernet ports are active.
400094477	Problem	PVI3.00.02.3x18	PVI3.00.02.3015	Problem calling the PVI functions PviLink and PviCreate on Windows 7 platforms.
400076460	Problem	PVI3.00.02.3x18	PVI3.00.02.3014	An empty SavePath parameter is added to the OPCS file
400085342	Problem	PVI3.00.02.3x17	PVI3.00.02.3114	Exception thrown when Dispose method called for a UserCollection in the collection's Disconnected event.
400088304	Problem	PVI3.00.02.3x17	PVI3.00.02.3015	RUC crashes when module uploaded with option "MT=BRT"
400085038	Problem	PVI3.00.02.3x17	PVI3.00.02.3014	After closing and reopening PviMan, tasks and task local variables are not reconnected.
400086173	Problem	PVI3.00.02.3x17	PVI3.00.02.3014	Command and Information windows can't be shown again once hidden
400082257	Problem	PVI3.00.02.3x16	V3.00.90.19 SP0x	Automation Studio online connection crashes
400066171 400081175	Problem	PVI3.00.02.3x16	V3.00.81.26 SP0x	When the NC Test window is open the online connection is lost
400086627	Problem	PVI3.00.02.3x16	PVI3.00.02.3114	Application's memory usage increases when objects are repeatedly connected and disconnected.
400087484	Problem	PVI3.00.02.3x16	PVI3.00.02.3114	Setup overwrites existing customer license DLL (BrLcMod.dll)
400084011	Problem	PVI3.00.02.3x16	PVI3.00.02.3114	No link for x64 USB dongle driver in the PVI Setup
400081358 400085157 400087084	Problem	PVI3.00.02.3x16	PVI3.00.02.3015	Transferring or compiling NC programs via PVI no longer works
400085131	Problem	PVI3.00.02.3x16	PVI3.00.02.3015	Crash caused by Korean language setting
400083690	Problem	PVI3.00.02.3x16	PVI3.00.02.3014	If synchronous read requests are made for a structure variable, calling the function again will result in insufficient RAM.
400076302 400077032 400077281	Problem	PVI3.00.02.3115	PVI3.00.02.3114	Runtime Utility Center CD doesn't run on 32-bit systems if it was created on a 64-bit system.
400077435	Problem	PVI3.00.02.3115	PVI3.00.02.3114	Using multiple "CFCreateImage" commands in the same PIL list causes an error
400077280	Problem	PVI3.00.02.3115	PVI3.00.02.3014	"Create installation package" function doesn't always use the right working directory.
400061601	New function	PVI3.00.02.3115	PVI3.00.02.3001	Global setting for the index type of array variables from the INA2000 line.
400068949	New function	PVI3.00.02.3115	PVI3.00.00.3121	The PVI Manager shows the "Trial mode is active" message window when started.
400057808	Problem	PVI3.00.02.3115	PVI3.00.00.3021	PVI crashes when writing a CPU status string with the length 0
400071802	Problem	PVI3.00.02.3114	PVI3.00.02.3112	"Include" command doesn't work with relative paths
400069860	Problem	PVI3.00.02.3114	PVI3.00.02.3112	Problems restoring CF image on BIOS devices with CFs >= 2GB
400073009	Problem	PVI3.00.02.3114	PVI3.00.02.3013	"Compare" followed by IF command does not work
400060259	Problem	PVI3.00.02.3114	PVI3.00.00.3121	TC global variables from PG2000 programs are read incorrectly.
400059678	Problem	PVI3.00.02.3108	PVI3.00.00.3121	The data pointer in the PVI callback is not ZERO for a Write-Response.
400063663	Problem	PVI3.00.02.3107	PVI3.00.02.3106	CD creation: Error message with command "CFRestore"
242102	Problem	PVI3.00.02.3107	PVI3.00.02.3101	PVI error when there are two process objects with the same name
400052878	Problem	PVI3.00.02.3107	PVI3.00.00.3121	Structure data with FBK elements and BOOLEAN variables is displayed incorrectly in the PVI
400048851	New function	PVI3.00.02.3107	PVI3.00.00.3118	PVI doesn't generate any logger files if the specified directory doesn't exist.
400042314	Problem	PVI3.00.02.3107	PVI3.00.00.3117	Error 4820 after multiple restarts of client and CPU

400063228	Problem	PVI3.00.02.3107	PVI3.00.00.3021	String variables cannot be used as default values for input dialog boxes.
400062699	Problem	PVI3.00.02.3106	V3.00.81.16	Input box for command "WriteVariableUser" appears in background
400063068	Problem	PVI3.00.02.3106	PVI3.00.00.3121	"CFService" command does not function
400062071 400062540	Problem	PVI3.00.02.3106	PVI3.00.00.3121	CD creation: File "PviLog.dll" not copied
400057670	Problem	PVI3.00.02.3106	PVI3.00.00.3021	Not all modules added to the CF image if it is created right from the project
400026013	Problem	PVI3.00.02.3105	V3.00.00.3013	"VariableList" command doesn't terminate when connection to PLC is lost
400059159 400059487	Problem	PVI3.00.02.3105	PVI3.00.00.3121	CF creation: Size of the SYSTEM partition calculated incorrectly for an ARNC0 project
400060431	Problem	PVI3.00.02.3105	PVI3.00.00.3120	In Windows 7, no USB devices are listed for performing a USB remote install
400054444	Problem	PVI3.00.02.3105	PVI3.00.00.3119	Created CD freezes when executed in service mode
400049628 400052330 400062112	Problem	PVI3.00.02.3105	PVI3.00.00.3119	CF images (.zip) can no longer be opened with older versions of PVI Transfer
400044321 400049176	Problem	PVI3.00.02.3105	PVI3.00.00.3117	When individual files are restored, not all files are copied to the CF card.
400059786 400071010 400071856	Problem	PVI3.00.02.3105	PVI3.00.00.3021	OPC server DA 3.0 doesn't return DataChanged events in Windows Vista / 7
400057533	Problem	PVI3.00.02.3105	PVI3.00.00.3019	In Windows 7 an error is generated when applying the PVI diagnostics settings.
400043745	New function	PVI3.00.02.3104	PVI3.00.00.3117	Support for 64-bit PVI Client applications
400049629 400048097	Problem	PVI3.00.02.3102	PVI3.00.00.3120	Remote install: New option for deleting only AR or application
400053520	Problem	PVI3.00.02.3102	PVI3.00.00.3119	"Logger" command: Entries with the label "Info" are displayed as "Fatal"
400064771	Problem	PVI3.00.02.3009	PVI3.00.00.3021	INACAN returns error 13076 for 5AC600.CANI-00
400047558 400054453 400061539	Problem	PVI3.00.02.3008	PVI3.00.00.3118	Windows OPC server handles BOOL arrays incorrectly
400061893	Problem	PVI3.00.02.3007	PVI3.00.00.3121	OPC server – continuous RAM consumption
400056765	Problem	PVI3.00.02.3007	PVI3.00.00.3121	Events are no longer triggered
400058083	Problem	PVI3.00.02.3007	PVI3.00.00.3119	CPU object causes Error event with the error number 0 instead of the Connected event.
400040592	Problem	PVI3.00.02.3007	PVI3.00.00.3116	OPC monitor stops responding on Windows 7 – 64 bit
400058555	Problem	PVI3.00.02.3007	PVI3.00.00.3021	BR.AN.PviServices.Value cannot be assigned directly to the System.DateTime.
400045215	Problem	PVI3.00.02.3005	PVI3.00.00.3117	Minimum subscription refresh rate for OPC server DA 3.0 is 200ms
400023802	Problem	PVI3.00.02.3001	V2.6.0.3012	PVI security dongle not detected by PVI when using Windows 2003 Server x64

Requests and problems by product/component

1A4000.02 Automation Net/PVI

Linie – INA2000

ID#400082257 : solved problem, known since V3.00.90.19 SP0x, solved since PVI3.00.02.3x16

Automation Studio online connection crashes

If the I/O Mapping window is opened in monitor mode, the online connection is lost. To restore the connection, use the "Connect" function or restart Automation Studio.

ID# 400066171, 400081175 : solved problem, known since V3.00.81.26 SP0x, solved since PVI3.00.02.3x16

When the NC Test window is open the online connection is lost

If you switch on monitor mode while the NC Test window is open, the online connection is lost. To restore the connection, use the "Connect" function or restart Automation Studio.

ID#400059678 : solved problem, known since PVI3.00.00.3121, solved since PVI3.00.02.3108

The data pointer in the PVI callback is not ZERO for a Write-Response.

The data pointer in the PVI callback of the user message "PVICALLBACK_DATA" is not ZERO if response data is not present (e.g.: for a Write-Response). However, the value in the argument data length is correct.

ID#400052878 : solved problem, known since PVI3.00.00.3121, solved since PVI3.00.02.3107

Structure data with FBK elements and BOOLEAN variables is displayed incorrectly in the PVI

If a structure variable contains at least one FBK element with at least one BOOLEAN variable, then the subsequent array elements will be incorrectly displayed in the PVI. This causes incorrect data to be provided during read access.

ID#400057808 : solved problem, known since PVI3.00.00.3021, solved since PVI3.00.02.3115

PVI crashes when writing a CPU status string with the length 0

If a status string with the length 0 (zero) is written to the CPU object, then the PVI component INA2000 line crashes.

ID#400042314 : solved problem, known since PVI3.00.00.3117, solved since PVI3.00.02.3107

Error 4820 after multiple restarts of client and CPU

ID#400061601 : new function since PVI3.00.02.3115

Global setting for the index type of array variables from the INA2000 line.

Currently, the index type (flat or dimensional indexing) can only be defined on the variable object (Parameter "/ROI"). However, it should be possible to specify the index type globally on the CPU object. This setting should then work for all connected variable objects.

PVI DataLogger

ID#400048851 : new function since PVI3.00.02.3107

PVI doesn't generate any logger files if the specified directory doesn't exist.

The path specified in the PVI monitor for logger files is not checked. If the path doesn't exist, no PVI logger files are generated.

PVI General

ID# 400081358, 400085157, 400087084 : solved problem, known since PVI3.00.02.3015, solved since PVI3.00.02.3x16

Transferring or compiling NC programs via PVI no longer works

The McModGen.dll needed to compile NC programs is no longer contained in the PVI Setup.

ID#400060259 : solved problem, known since PVI3.00.00.3121, solved since PVI3.00.02.3114

TC global variables from PG2000 programs are read incorrectly.

Global task class variables that are still contained in programs that were originally written using PG2000 cannot be correctly read using PVI 3.0.

ID#400043745 : new function since PVI3.00.02.3104

Support for 64-bit PVI Client applications

PVI Manager

ID#400094477 : solved problem, known since PVI3.00.02.3015, solved since PVI3.00.02.3x18

Problem calling the PVI functions PviLink and PviCreate on Windows 7 platforms.

If you call the functions PviLink or PviCreate (or PviLinkRequest / PviCreateRequest) immediately after executing PviInitialize, the function call is terminated without an error. The problem only occurs with Windows 7 (or Windows Vista).

ID#242102 : solved problem, known since PVI3.00.02.3101, solved since PVI3.00.02.3107

PVI error when there are two process objects with the same name

An error is not generated when creating process objects with the same name according to the naming convention "unique object names". Having multiple process objects with the same name does make it impossible to map the objects correctly.

Example: A global variable object and a task object with the same name are created on the same level in the hierarchy. Then the user tries to map local variable objects to the task object. Due to the double names, sometimes the task object and sometimes the global variable object can be mapped. The last case results in Error 12009 (illegal object hierarchy).

PVI Monitor

ID#400057533 : solved problem, known since PVI3.00.00.3019, solved since PVI3.00.02.3105

In Windows 7 an error is generated when applying the PVI diagnostics settings.

If you are not logged on to Windows 7 as the administrator, then system error 5 appears when you apply the PVI diagnostics settings.

PVI OPC Monitor

ID#400040592 : solved problem, known since PVI3.00.00.3116, solved since PVI3.00.02.3007

OPC monitor stops responding on Windows 7 – 64 bit

The OPC monitor stops responding on Windows 7 – 64 bit after it is started

PVI OPC Server DA 3.0

ID#400089605 : solved problem, known since PVI3.00.02.3x16, solved since PVI3.00.02.3x18

OPC server is not multi-instance capable

Due to a restriction the OPC server was not multi-instance capable – if the OPC server was running as multiple independent processes, then when one of the instances was closed the PVI connections for the other instances were lost.

ID#400076460 : solved problem, known since PVI3.00.02.3014, solved since PVI3.00.02.3x18

An empty SavePath parameter is added to the OPCS file

An empty SavePath string from the CSV file is entered in the OPCS file. Since the PVI manager interprets an empty yet existing SavePath as "/SP=C:\". There are errors when converting multiple OPCS files if taskswith the same name are found on both

controllers.

ID# 400076266, 400082514 : solved problem, known since PVI3.00.02.3114, solved since PVI3.00.02.3x18

Problem calculating the year for DATE_AND_TIME variables on Windows OPC server

When calculating the data of a DATE_AND_TIME tag, years later than 2000 were calculated incorrectly.

ID#400061893 : solved problem, known since PVI3.00.00.3121, solved since PVI3.00.02.3007

OPC server – continuous RAM consumption

Each time a value changes on an item, the OPC server consumes an additional 30MB of RAM

ID# 400059786, 400071010, 400071856 : solved problem, known since PVI3.00.00.3021, solved since PVI3.00.02.3105

OPC server DA 3.0 doesn't return DataChanged events in Windows Vista / 7

If the PVI OPC server DA 3.0 is running under Windows Vista or Windows 7, clients connected to the server don't receive any DataChanged events.

ID# 400047558, 400054453, 400061539 : solved problem, known since PVI3.00.00.3118, solved since PVI3.00.02.3008

Windows OPC server handles BOOL arrays incorrectly

Two elements from the variable array with the type BOOL are linked by an OR operator to an element from the OPC array.

ID#400045215 : solved problem, known since PVI3.00.00.3117, solved since PVI3.00.02.3005

Minimum subscription refresh rate for OPC server DA 3.0 is 200ms

The minimum refresh rate for OPC subscriptions is limited to 200ms. This can be too slow for high-speed applications.

ID# 400045783, 400061055 : known problem since PVI3.00.00.3119

OPC server DA 3.0 doesn't return DataChanged events in Windows Vista / 7

If the PVI OPC server DA 3.0 is running under Windows Vista or Windows 7, clients connected to the server don't receive any DataChanged events.

ID#400045640 : known problem since PVI3.00.00.3117

OPC server freezes when a client creates multiple subscriptions simultaneously

If an OPC client creates multiple subscriptions on the PVI OPC server DA 3.0 simultaneously without waiting for the corresponding responses from the server, the server can become deadlocked.

ID#400039677 : known problem since PVI3.00.00.3117

Behavior of limit alarms not completely correct on the B&R PVI OPC server DA 3.0

An active alarm will not be reset with some combinations of activated and deactivated alarms. For example, if the hi and lo alarm is deactivated within a limit alarm, then the alarm will not be reset in the area between LoLo and HiHi.

PVI Services .NET

ID#400107622 : solved problem, known since PVI3.00.02.3107, solved since PVI3.00.02.3x19

Problem when a remote connection to the PLC is interrupted

If a live remote connection to a PLC is interrupted (e.g. the cable to the PLC is disconnected) and the remote connection is then disconnected (e.g. the cable to the remote computer is disconnected), then connected objects are not reconnected when the connections to the PLC and remote computer are restored.

ID#400107622 : solved problem, known since PVI3.00.02.3x18, solved since PVI3.00.02.3x19

Automatic object connection not always working during remote connections

If the network cable is disconnected during a remote PVI connection, then PviServices objects are not reconnected once the cable has been reconnected.

It works if only the PviManager is closed.

ID#400100783 : solved problem, known since PVI3.00.02.3x18, solved since PVI3.00.02.3x18

Indexed read access on nested structure elements where an array occupies at least one level always returns the value of the same element with index 0.

If an array subelement is accessed which is indexed in a "ComplexStruct" structure variable, then this element will always return the value of the element with index 0.

Example:

TYPE

BAS_User_typ : STRUCT

Status : UINT;

```

Dgrd : STRING[5]; (*USINT[0..5]*)
FirstName : STRING[11]; (*USINT[0..11]*)
LastName : STRING[17]; (*USINT[0..17]*)
TelPrefix : UINT;
Number : UDINT;
END_STRUCT;
Alarm_Group_1_typ : STRUCT
GroupNum : USINT;
TextNum : USINT;
AckNum : USINT;
END_STRUCT;
System_Section_typ : STRUCT
SectionNum : USINT;
AlarmEncoding : USINT;
ALLock_WhereDay : USINT;
ALLock_Start : UINT;
ALLock_Stop : UINT;
Fg_ChannelCircuit : USINT;
ExtSystem : USINT;
CustomerNum : UDINT;
ProgDef : Alarm_Group_1_typ;
User : ARRAY[0..1]OF BAS_User_typ;
END_STRUCT;
END_TYPE
Accessing Variable.Value["User[1].Name"].ToString() always returns the value of Variable.Value["User[0].Name"].ToString().

```

ID#400094428 : solved problem, known since PVI3.00.02.3106, solved since PVI3.00.02.3x18

If multiple UserCollections are used in a task, the Connected event results in an InvalidArgument exception.

If a TaskCollection is created in an application and then connected using the Connect method, the error described above occurs during the Connected event.
Applications that don't use any TaskCollections of their own, but instead access the TaskCollection of the CPU object, are not affected by this problem.

ID#400096726 : solved problem, known since PVI3.00.02.3x17, solved since PVI3.00.02.3x18

When a System.Array is mapped to the Value property of an array variable, memory leaks can occur.

The application's memory consumption increases each time a value is mapped.

E.g.

```

UInt32[] sysValveArray;
BR.AN.PviServices.Variable testVar;
testVar.Value = sysValveArray;

```

Workaround:

Instead of directly mapping the values, you can also use Value.Assign, since this does not cause memory leaks and also provides better performance.

```

UInt32[] sysValveArray;
BR.AN.PviServices.Variable testVar;
testVar.Value.Assign(sysValveArray);

```

ID#400091922 : solved problem, known since PVI3.00.02.3106, solved since PVI3.00.02.3x18

Every time the CPU is restarted, new PCI link objects are generated when you connect to PviServices objects.

If a connection to the CPU is interrupted, when it is reconnected a new link object is generated when a Connect is called for that object.

Workaround:

Don't call a Connect after the connection is interrupted.

ID#400089621 : solved problem, known since PVI3.00.02.3115, solved since PVI3.00.02.3x18

When a task object is registered as static, the connected event is not triggered.

If the property "IsStatic" is set to "true" for the service object, then a subsequent "Connect" for a task object doesn't trigger the "Connected" event.

ID#400086627 : solved problem, known since PVI3.00.02.3114, solved since PVI3.00.02.3x16

Application's memory usage increases when objects are repeatedly connected and disconnected.

If Connect and Disconnect are called repeatedly in an application, the amount of memory required by the application increases because BR.AN.PviServices doesn't release certain managed objects.

Workaround:

Release, all, not just individual objects (with Disconnect), including the service object, and this problem will not occur.

ID#400085342 : solved problem, known since PVI3.00.02.3114, solved since PVI3.00.02.3x17

Exception thrown when Dispose method called for a UserCollection in the collection's Disconnected event.

An exception is thrown if you call a Dispose method for a UserCollection in that collection's Disconnected event.

Workaround:

Don't call the Dispose method directly in the Disconnected event.

ID#400085038 : solved problem, known since PVI3.00.02.3014, solved since PVI3.00.02.3x17

After closing and reopening PviMan, tasks and task local variables are not reconnected.

If the PVI Manager is closed and reopened while an application is running, previously connected tasks and task local variables are not reconnected.

ID#400083690 : solved problem, known since PVI3.00.02.3014, solved since PVI3.00.02.3x16

If synchronous read requests are made for a structure variable, calling the function again will result in insufficient RAM.

If a synchronous read request is made for a structure variable using the method `BR.AN.PviServices.Variable.Read(True)`, this causes a memory leak. The reason for this is that the allocated buffer is created again for each call, but is never released.

ID#400058555 : solved problem, known since PVI3.00.00.3021, solved since PVI3.00.02.3007

`BR.AN.PviServices.Value` cannot be assigned directly to the `System.DateTime`.

If the value class is assigned directly to a `System.DateTime` variable, then an `InvalidCastException` is thrown.

Workaround:

Assign the `System.DateTime` variable to `Value.ToDateTime()`.

ID#400058083 : solved problem, known since PVI3.00.00.3119, solved since PVI3.00.02.3007

CPU object causes Error event with the error number 0 instead of the Connected event.

This behavior can be reproduced as follows:

- 1) Establish a connection with a CPU and wait for the Connected event.
 - 2) Disconnect the cable from the CPU, which triggers the error and the Disconnected event for the CPU.
(The error number is 4808)
 - 3) Reconnect the cable. Now an Error event is triggered, but there is no Connected event.
- From this point on, the order of events is incorrect.

ID#400056765 : solved problem, known since PVI3.00.00.3121, solved since PVI3.00.02.3007

Events are no longer triggered

The following events are no longer triggered:

- Task and variable collection connected event is not triggered. (not even the first time)
- Variable connected event is not triggered after restarting.

ID#400060390 : known problem since PVI3.00.00.3121

The online connection cannot be changed if there is no connection with the CPU.

If a connection is made to a CPU that is not accessible (e.g.: cable unplugged), then the connection cannot be changed to another CPU. Changing the connection only works if the initial CPU is accessible.

The programming reason for this is that, when calling `BR.AN.PviServices.Cpu.ChangeConnection()`, the event "ConnectionChanged" is not called if a connection to a CPU was not able to be established beforehand.

ID#400059234 : known problem since PVI3.00.00.3021

Starting with Version 4.0.1.1, Error 12020 is triggered when connecting variables via the MODBUS line.

If `PviServices` is used to establish a MODBUS connection and read variables, the connection fails with PVI Error 12020. The error states that the syntax of the variable description is not correct.

The end user can only work around this error by using an earlier version of `PviServices`.

ID#400041443 : known problem since PVI3.00.00.3119

In the Connected event of a structure variable, the members are not yet initialized.

If you try to access the members of a structure variable directly in the Connected event, the members are not yet initialized.

Workaround:

Access them from outside the event and the members are initialized.

ID#400051340 : known problem since V3.00.81.18

Memory lost when writing variables in Windows CE 6.0

Memory lost when writing variables in Windows CE 6.0

ID#400046703 : known problem since PVI3.00.00.3117

The class `BR.AN.PviServices.Value` throws an exception if the constructor for an array is used with values

If the `Value` class for an array is initialized with values, a `NullReferenceException` is thrown.

The following constructs result in an exception:

Case a)

```
ulong[] aaa2 = new ulong[] { 22, 33, 44, 55, 66 };
```

```
Value v4 = new Value(aaa2);
```

Case b)

```
Value v = new Value(new int[] { 1, 2, 3 });
```

ID#400039702 : known problem since PVI3.00.00.3117

Task collection can't be changed in a "Task Connected" event.

Creating a new task object in a "Task Connected" event causes an invalid operation exception.
 Creating a new task implicitly changes the TaskCollection, thereby causing this error.
 Workaround:
 Don't create the task directly inside the event function.

PVI Setup

ID#400087484 : solved problem, known since PVI3.00.02.3114, solved since PVI3.00.02.3x16

Setup overwrites existing customer license DLL (BrLcMod.dll)

If there is a customer license DLL (BrLcMod.dll) installed on the system, it is automatically overwritten by a trial license DLL during setup.

ID#400084011 : solved problem, known since PVI3.00.02.3114, solved since PVI3.00.02.3x16

No link for x64 USB dongle driver in the PVI Setup

On the PVI setup page under PVI Tools there is no link for installing the 64-bit dongle driver.

ID# 400076302, 400077032, 400077281 : solved problem, known since PVI3.00.02.3114, solved since PVI3.00.02.3115

Runtime Utility Center CD doesn't run on 32-bit systems if it was created on a 64-bit system.

If you use the Runtime Utility Center to create a CD on a 64-bit Windows system, this CD will not run on a 32-bit Windows system.

Security Library

ID#400023802 : solved problem, known since V2.6.0.3012, solved since PVI3.00.02.3001

PVI security dongle not detected by PVI when using Windows 2003 Server x64

SNMP C-Library

ID#400079968 : solved problem, known since PVI3.00.02.3104, solved since PVI3.00.02.3x18

PVI Manager (BrSnmp) crashes when too many Ethernet ports are active.

Tools – PVITransfer

ID#400101814 : solved problem, known since PVI3.00.02.3x16, solved since PVI3.00.02.3x19

Generating a CF image no longer works without administrator rights.

ID#400098290 : solved problem, known since PVI3.00.02.3x18, solved since PVI3.00.02.3x19

"CFRestoreFiles" command doesn't work if the source directory ends with "\".

If the CFRestoreFiles command is issued with a source directory that ends with "\", then the specified files cannot be copied.

Example:

CFRestoreFiles ".\Files\", "SYSTEM:*", ""

ID#400083920 : solved problem, known since PVI3.00.02.3x17, solved since PVI3.00.02.3x18

PVI Manager doesn't open if the command line parameter "-Conn:" is used

When you use the command line parameter "-Conn:" the PVI Manager is no longer opened automatically if it is not already running.

ID#400088304 : solved problem, known since PVI3.00.02.3015, solved since PVI3.00.02.3x17

RUC crashes when module uploaded with option "MT=BRT"

If you upload a module from the controller with the parameter setting "MT=BRT", the Runtime Utility Center crashes.

ID#400086173 : solved problem, known since PVI3.00.02.3014, solved since PVI3.00.02.3x17

Command and Information windows can't be shown again once hidden

If you hide the Command or Information window, it remains hidden and there is no way to show it again.

ID# 400085131 : solved problem, known since PVI3.00.02.3015, solved since PVI3.00.02.3x16

Crash caused by Korean language setting

In the Windows region and language settings, if the option "Language for non-Unicode programs" is set to "Korean (Korea)", the Runtime Utility Center will crash when it is opened.

ID#400077280 : solved problem, known since PVI3.00.02.3014, solved since PVI3.00.02.3115

"Create installation package" function doesn't always use the right working directory.

If a different .pil file is selected in the dialog box for creating an installation package, then an incorrect working directory is used for the remainder of the process. This error then affects the relative paths within the respective .pil file.

ID#400077435 : solved problem, known since PVI3.00.02.3114, solved since PVI3.00.02.3115

Using multiple "CFCreateImage" commands in the same PIL list causes an error

If multiple "CFCreateImage" commands are executed in a PIL list, in some circumstances only the first command works. The rest of the "CFCreateImage" commands are terminated with an error.

ID#400073009 : solved problem, known since PVI3.00.02.3013, solved since PVI3.00.02.3114

"Compare" followed by IF command does not work

Using an IF command following a "Compare" command results in the IF condition not reacting correctly to the return value from the "Compare" command.

ID#400071802 : solved problem, known since PVI3.00.02.3112, solved since PVI3.00.02.3114

"Include" command doesn't work with relative paths

When executing a .pil file, relative paths are not evaluated correctly when used with an "Include" command.

ID#400069860 : solved problem, known since PVI3.00.02.3112, solved since PVI3.00.02.3114

Problems restoring CF image on BIOS devices with CFs >= 2GB

Restoring a CF image that was originally created on a smaller card (e.g. 512MB) on a larger card (>=2GB) can lead to problems under certain conditions:

- Using a BIOS device (e.g. PP400, APC620, etc.)
- CF has only one partition

The problem is that the device freezes during startup.

ID#400063663 : solved problem, known since PVI3.00.02.3106, solved since PVI3.00.02.3107

CD creation: Error message with command "CFRestore"

If the command "CFRestore" is used in a PIL file, then the CD creation process is aborted with an error message. The CD will not function afterward because it is missing the respective image file (.zp2).

ID#400063228 : solved problem, known since PVI3.00.00.3021, solved since PVI3.00.02.3107

String variables cannot be used as default values for input dialog boxes.

It is not possible to use the contents of a string variable as the default value for an input dialog box (command "InputBox"). The contents of the string variable will be ignored and the default value provided will always be just an empty string.

ID#400063068 : solved problem, known since PVI3.00.00.3121, solved since PVI3.00.02.3106

"CFService" command does not function

ID#400062699 : solved problem, known since V3.00.81.16, solved since PVI3.00.02.3106

Input box for command "WriteVariableUser" appears in background

The corresponding input window for the command "WriteVariableUser" only appears in the background and is therefore not easy for the user to see.

ID# 400062071, 400062540 : solved problem, known since PVI3.00.00.3121, solved since PVI3.00.02.3106

CD creation: File "PviLog.dll" not copied

When creating a CD, the file "PviLog.dll" is not copied over. As a result, the created CD will not run on a PC without installed PVI.

ID#400057670 : solved problem, known since PVI3.00.00.3021, solved since PVI3.00.02.3106

Not all modules added to the CF image if it is created right from the project

In certain projects, not all data (modules) will be added to the CF image (.zp2) if it is created directly from an AS project. As a result, some of the required data will be missing on the CF when restoring this image to a CF.
This problem does not occur if the CF is created directly from the corresponding AS project.

ID# 400059159, 400059487 : solved problem, known since PVI3.00.00.3121, solved since PVI3.00.02.3105

CF creation: Size of the SYSTEM partition calculated incorrectly for an ARNC0 project

If you create a CF of a project that uses ARNC0, the size of the SYSTEM partition is calculated incorrectly.
The minimum size calculated for the SYSTEM partition is too high.

ID#400060431 : solved problem, known since PVI3.00.00.3120, solved since PVI3.00.02.3105

In Windows 7, no USB devices are listed for performing a USB remote install

When attempting to generate a USB remote install structure, in some Windows 7 systems the list of available USB devices is empty.

ID#400054444 : solved problem, known since PVI3.00.00.3119, solved since PVI3.00.02.3105

Created CD freezes when executed in service mode

When a PIL file generated while creating a CD is executed in service mode, PVI Transfer freezes at the end of the process.

ID# 400049629, 400048097 : solved problem, known since PVI3.00.00.3120, solved since PVI3.00.02.3102

Remote install: New option for deleting only AR or application

The remote install mechanism provides a new option for deleting either AR or the application individually. This new option makes it possible to perform any type of remote update without having to format a partition.

ID#400053520 : solved problem, known since PVI3.00.00.3119, solved since PVI3.00.02.3102

"Logger" command: Entries with the label "Info" are displayed as "Fatal"

When a logger module is converted with the command "Logger", the converted entries are displayed with an incorrect label. Entries with the label "Info" are incorrectly displayed as "Fatal".

ID# 400049628, 400052330, 400062112 : solved problem, known since PVI3.00.00.3119, solved since PVI3.00.02.3105

CF images (.zp2) can no longer be opened with older versions of PVI Transfer

With the current version, CF images can be created in either the old (.zp) or the new (.zp2) format. If a CF image is created in the old format, it can be opened with an older version of PVI Transfer.

ID# 400044321, 400049176 : solved problem, known since PVI3.00.00.3117, solved since PVI3.00.02.3105

When individual files are restored, not all files are copied to the CF card.

When the function "Restore files to Compact Flash" is used to copy individual files to the CF card, in certain constellations not all of the files are copied to the CF.

ID#400026013 : solved problem, known since V3.00.00.3013, solved since PVI3.00.02.3105

"VariableList" command doesn't terminate when connection to PLC is lost

If the connection to the PLC is lost while reading a variable list, PVI Transfer ignores this and continues the process.

ID#400089509 : new function since PVI3.00.02.3x18

Save log file relative to .pil file

If a relative path is entered for the log file, it is evaluated as relative to the directory of the respective .pil file.

ID#400068949 : new function since PVI3.00.02.3115

The PVI Manager shows the "Trial mode is active" message window when started.

When the PVI Manager is started on a system without PVI installed, the "Trial mode is active" message window is always shown. This message can be suppressed using the following registry entry:

[HKEY_LOCAL_MACHINE\SOFTWARE\BR_Automation\PVI]

"ManDispTrial"=dword:00000000

Access to this area of the Windows registry is only possible with administrator rights.

ID# 400050425, 400081662 : new function since PVI3.00.02.3x18

Copying individual files from a CF image

The "CFBackupFiles" command has been expanded so that a CF image file can be specified as the source. This function has also been implemented for the "Tools / Back up files from CompactFlash".

WinNT CAN Treiber

ID#400064771 : solved problem, known since PVI3.00.00.3021, solved since PVI3.00.02.3009

INACAN returns error 13076 for 5AC600.CANI-00

In the INF file, the StartType is 2 (SERVICE_AUTO_START). With 5AC600.CANI-00 devices, this setting can cause problems.