



extend 9.1.1

A large, stylized graphic of a blue wave or ribbon that curves and loops across the lower half of the page. The wave is composed of multiple parallel lines in various shades of blue, creating a sense of motion and depth.

Release Notes

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extend Release notes

These release notes contain information that might not appear in the Help. Read them in their entirety before you install the product.



Note: This document contains a number of links to external web sites. Micro Focus cannot be responsible for the contents of the website or for the contents of any site to which it might link. Web sites by their nature can change very rapidly and although we try to keep our links up-to-date, we cannot guarantee that they will always work as expected.

extend System Requirements

For system requirement, see each product's documentation

This product includes software developed by the University of California, Berkeley and its contributors.

extend Installation Release Notes

Refer to the extend product's installation guides.

What's New

The following items are new for this release:

- In ACUCOBOL-GT, the `A4GL-WHERE-CONSTRAINT` now resets after `START`
- ACUCOBOL-GT allows 8.x entry-field size calculation with 3-D and native controls
- Acu4GL for DB2 runs on 64-bit machines
- Acu4GL has a new configuration variable to pre-fetch keyset data
- In AcuXDBC, when you add two or more tables to a query in Microsoft Query, it will now automatically create a "join" between the tables when it recognizes a primary key (one or more fields that uniquely identify each record in a table). Join lines show the relationships of the data in the tables
- In AcuXDBC, file name Aliases now allow you to specify files in directories that are not part of the `FILE_PREFIX` from the configuration file

Known Issues

This section provides important information that may impact your use of the extend product line.

AcuBench Version and License Expansion

extend 9.1.1 contains AcuBench 9.0.1. You must expand the AcuBench license code and key with a 9.0.1 activator. For this release, there is a 9.0.1 activator included in the AcuBench directory.

Documentation Version

extend 9.1.1 contains extend 9.0.1 documentation.

***SHARED_LIBRARY_EXTENSION* default value change**

The default value of the *SHARED_LIBRARY_EXTENSION* configuration value has been changed to match the standard value for the host system.

The old default value was fixed as `.so`. Some systems use a different shared library extension. The new default value will match the extension used on the shared libraries in the lib directory.

You may need to update the value of the *SHARED_LIBRARY_EXTENSION* configuration variable if you were relying on it always being set to `.so`.

.NET controls with the runtime and thin client.

Use of .NET controls with the runtime and thin client requires .NET Framework 4.0.

Viewing documentation in newer browsers

When viewing extend documentation from Internet Explorer 8 or higher, it is best to run the browser in compatibility mode. In non-compatibility mode help pages with numbered lists will appear with the same number for all items in the list. This behavior may also occur with Google's Chrome, which does not have a compatibility mode.

Resolved Issues

The following are resolved issues for the extend products.

ACUCOBOL-GT ECN List

This section includes the ECNs relating to ACUCOBOL-GT:

ECN-4120: Web thin client crashes Internet Explorer

Type of Change: Correction

Incidents: 2521692

RPI Number: 1079852

Module: Thin Client

Machines Affected: Windows

Known Versions Affected: All

Description of problem or enhancement

When using the Web Thin Client to execute a COBOL program displayed in Internet Explorer, clicking the red X to close Internet Explorer could cause Internet Explorer to crash during shutdown.

ECN-4121: ACU filesystem created table entries for nonexistent files

Type of Change: Correction

Incidents: 2528787

RPI Number: 1080461

Module: fsi

Machines Affected: all

Known Versions Affected: 8.0 and above

Description of problem or enhancement

The ACU file system would erroneously store entries for nonexistent files in a table used to track file information. Opening a large number of nonexistent files would result in entries being created for each, which wasted memory and created performance issues due to the large size of the table. Entries for such nonexistent files are no longer stored in this table.

ECN-4122: Improve performance when opening many files

Type of Change: Correction

Incidents: 2528787

RPI Number: 1080461

Module: fsi

Machines Affected: All

Known Versions Affected: 8.0 and above

Description of problem or enhancement

A lookup function in the ACU file system performed poorly when many files were opened. This ECN implements a superior method of performing the lookup operation, which runs much more quickly for large numbers of files.

ECN-4124: Clean up external filename handling to reduce memory footprint

Type of Change: Correction

Incidents: 2528787

RPI Number: 1080461

Module: Runtime

Machines Affected: All

Known Versions Affected: 8.0.0 and later

Description of problem or enhancement

When tracking filenames for `SIMPLE_OPEN_OUTPUT`, the runtime would allocate memory for every file opened, which uses too much memory.

ECN-4125 : Problems with .NET program calling a COBOL program

Type of Change: Correction

Incidents: 2534348

RPI Number: 1080893

Module: ccbl32

Machines Affected: Windows

Known Versions Affected: 8.0 and later

Description of problem or enhancement

When using `--netdll` to create a .net wrapper for a COBOL program, the dll was created with code that caused an `Index Out of Bounds` exception to be thrown.

ECN-4126 : Unable to override file options with AcuThin

Type of Change: Correction

Incidents: 2534384

RPI Number: 1080819

Module: Runtime

Machines Affected: All

Known Versions Affected: 7.0.0 and later

Description of problem or enhancement

AcuThin has the ability to override options specified in the alias, by giving override on the acuthin command line. As of version 7.0, this ability was lost for options that specified file names (-c, -e, etc).

ECN-4127 : RETURN-CODE modified when a GIVING parameter is specified in RM mode

Type of Change: Correction

Incidents: 2529122

RPI Number: 1081081

Module: Runtime

Machines Affected: All

Known Versions Affected: 9.0 and later

Description of problem or enhancement

In RM-compatibility mode, a `CALL . . . GIVING` could modify the `RETURN-CODE` special parameter, even though that value was copied to the `GIVING` variable.

ECN-4128 : Crash of ACURCL under OpenVMS

Type of Change: Correction

Incidents: 2516608

RPI Number: 1080784

Module: Runtime

Machines Affected: All

Known Versions Affected: All

Description of problem or enhancement

When AcuThin connects to AcuRCL on OpenVMS you could get a memory access violation in the runtime in module `termbase` in function `w_end_paint`.

ECN-4129 : OpenVMS memory access violation calling `destroy_var`

Type of Change: Correction

Incidents: 2539338

RPI Number: 1081230

Module: Runtime

Machines Affected: All

Known Versions Affected: All

Description of problem or enhancement

When AcuThin connects to AcuRCL on OpenVMS you could get a memory access violation in the runtime in module config in function `destroy_var`.

ECN-4130: Reset the A4GL-WHERE-CONSTRAINT after START

Type of Change: Enhancement

Incidents: 2348544

RPI Number: 1069575

Module: runtime

Machines Affected: All

Known Versions Affected: All

Description of problem or enhancement

If users have different configurations at different sites, so that some files can be vision files at one site, but Acu4GL tables at another site, then the WHERE-CONSTRAINT can be difficult to use. This happens because after the WHERE-CONSTRAINT is used, it is marked empty so it won't be used again. However, if a file is a vision file, the WHERE-CONSTRAINT is not used, and might be used for the next file. For example: At site 1, files AA and AB are both SQL Server tables. At site 2, file AA is a vision file, and AB is a SQL Server table. If the COBOL program sets a WHERE-CONSTRAINT that would work with file AA, then at site 2, that WHERE-CONSTRAINT will instead be used for file AB, which will fail.

ECN-4131 : Small floating windows with Web Thin Client under IE9

Type of Change: Correction

Incidents: 2530163

RPI Number: 1080597

Module: Thin Client

Machines Affected: Windows

Known Versions Affected: All

Description of problem or enhancement

When displaying a floating window under Internet Explorer 9, the size of the window is slightly smaller than requested.

ECN-4132 : Runtime and Thin Client require .net framework 4.0

Type of Change: Correction

Incidents: 2541857

RPI Number: 1081458

Module: runtime

Machines Affected: Windows

Known Versions Affected: 9.1.0 and later

Description of problem or enhancement

The runtime and thin client require the .net framework 4.0 to be installed on the Windows computer, whether or not .net controls are used.

ECN-4133 : Debugger subscript missing length used uninitialized memory

Type of Change: Correction

Incidents: 2538356

RPI Number: 1081123

Module: runtime

Machines Affected: All

Known Versions Affected: All

Description of problem or enhancement

Omitting the length part of a subscript in the runtime debugger leads to the runtime referencing uninitialized memory. This could create unexpected results depending on the value of the uninitialized memory. The runtime debugger does not support the omission of the length part of a subscript.

ECN-4134 : Entry field control difference

Type of Change: Correction

Incidents: 2540642

RPI Number: 1081389

Module: runtime

Machines Affected: Windows

Known Versions Affected: 9.0.0

Description of problem or enhancement

Entry fields changed their look in 9.1.0, becoming taller than they should be when `WIN32-NATIVECTLS` is `TRUE`.

ECN-4135: Allow 8.x entry-field size calculation with 3-d and native controls

Type of Change: Enhancement

Incidents: 2543148

RPI Number: 1082008

Module: Runtime

Machines Affected: Windows

Known Versions Affected: 9.0.1 and later

Description of problem or enhancement

There was a bug in 8.0 in the calculation of entry-field sizes when using 3-D and Native Controls. This was fixed in 9.0.1 by ECN 4071. However, some users modified their screens based on the buggy calculation, and would like to keep their screens unchanged from 8.0. This ECN provides that capability. There is a new configuration variable, *V80-3D-ENTRY-SIZE*. When set to `TRUE`, size calculations for entry fields are done as they were in 8.0. When set to the default value of `FALSE`, entry fields are sized as they were in 7.0.

ECN-4136: MAV when using sharp grid ActiveX control

Type of Change: Correction

Incidents: 2548984

RPI Number: 1082114

Module: runtime, acuthin

Machines Affected: Windows

Known Versions Affected: 9.1.0 and later

Description of problem or enhancement

Attempting to use the Sharp Grid ActiveX control (from Data Dynamics / Grape City, <http://www.datadynamics.com>) would cause the runtime or thin client to MAV.



Note: the fix for the issue is to turn off **Data Execution Prevention**, which is a feature of an executable (.exe). Because of this, any executable that you use to load the runtime or thin client dlls must either be built with Visual Studio 2008 or earlier, or must be linked with **Data Execution Prevention** turned off. The Web runtime and thin client are the most likely candidates for failure, being loaded by Internet Explorer, but any executable that loads the runtime or thin client as dlls has this restriction. There is no way to lift this restriction.

ECN-4137: FUNCTION NUMVAL produces incorrect results when using 31-digit support

Type of Change: Correction

Incidents: 2545704

RPI Number: 1081827

Module: runtime

Machines Affected: All

Known Versions Affected: All with 31-digit support

Description of problem or enhancement

Certain uses of `NUMVAL` would produce the wrong results due to floating point rounding semantics.

ECN-4138: Alfred numeric fields display incorrect information

Type of Change: Correction

Incidents: N/A

RPI Number: 587490

Module: runtime

Machines Affected: All

Known Versions Affected: 9.1.0

Description of problem or enhancement

Alfred displays random data in numeric fields.

ECN-4139: Unable to print from Thin Client

Type of Change: Correction

Incidents: 2552057, 2542578

RPI Number: 1081667, 1082363

Module: runtime

Machines Affected: Windows

Known Versions Affected: 9.1.0

Description of problem or enhancement

When attempting to print in a Thin Client application, the thin client hangs.

ECN-4140: CVM.jar fails to load 64-bit runtime library

Type of Change: Correction

Incidents: 2544500

RPI Number: 1082228

Module: Runtime

Machines Affected: UNIX

Known Versions Affected: 9.0.0 and later

Description of problem or enhancement

When running a Java program, and attempting to call a COBOL program in a 64-bit environment, the `CVM.jar` class will not attempt to load `libruncl64.so`, and gets a load failure exception.

ECN-4141: MAV when passing numeric parameters to COBOL from Java

Type of Change: Correction

Incidents: 2544500

RPI Number: 1082228

Module: Runtime

Machines Affected: UNIX

Known Versions Affected: 9.0.0 and later

Description of problem or enhancement

When a Java class called a COBOL program with the `CVM.jar` class, and passed numeric parameters to that COBOL program, the runtime would MAV, halting the process.

ECN-4142: Illegal Instruction on AIX when calling COBOL from Java

Type of Change: Correction

Incidents: 2544500

RPI Number: 1082228

Module: Runtime

Machines Affected: AIX

Known Versions Affected: Unknown

Description of problem or enhancement

Due to the way AIX links shared object libraries, when calling COBOL from a Java program, you may get an `Illegal Instruction` error.

ECN-4143: Unable to compile with generated .def file

Type of Change: Correction

Incidents: 2546593

RPI Number: 1081887

Module: `axdefgen.exe`

Machines Affected: Windows

Known Versions Affected: All

Description of problem or enhancement

Some ActiveX controls appear to define properties of type `void`, and have `put/get` methods for them. `Axdefgen` (correctly) omits the `RETURNING void` phrase for such types, but the compiler is unable to deal with the resulting `.def` file.

We now omit such `PROPERTY-GET` methods (those that return `void`) by not including them in the `.def` file.

ECN-4144: EVENT-STATUS fails to keep value when using multiple threads

Type of Change: Correction

Incidents: 2545753

RPI Number: 1081862

Module: Runtime

Machines Affected: All

Known Versions Affected: 6.1.0 and later

Description of problem or enhancement

An uninitialized variable caused the *EVENT-TYPE* variable to not stay consistent if multiple threads were used. This could cause *ACCEPT* statements to terminate early, for example.

ECN-4145: ROW or COL 0 window doesn't take any task bar into consideration

Type of Change: Correction

Incidents: 2439179

RPI Number: 1073557

Module: Runtime

Machines Affected: Windows

Known Versions Affected: All

Description of problem or enhancement

If a user has their taskbar on the top or on the left of the screen, and a COBOL program displays a window at row 0 or column 0 (respectively), the window would appear underneath the task bar (z-order), causing the entire window not to be visible.

ECN-4146: Spurious "Illegal RETURN" when sorting

Type of Change: Correction

Incidents: 2509188

RPI Number: 1082447

Module: Runtime

Machines Affected: All

Known Versions Affected: All

Description of problem or enhancement

In some situations, seeming to relate to a failed sort in a separate thread, a new sort could halt the runtime with a message, *Illegal RETURN*.

Acu4GL ECN List

This section includes the ECNs relating to Acu4GL:

ECN-GL478 : Acu4GL memory or segmentation fault when the program exits

Type of Change: Correction

Incidents: None

RPI Number: 577282

Module: All

Machines Affected: All

Known Versions Affected: All

Description of problem or enhancement

On some systems when using some of the Acu4GL systems, such as DB2, the runtime will exit with an error: `Memory fault(coredump) or: Program received signal SIGSEGV, Segmentation fault si_code: 1 - SEGV_MAPERR - Address not mapped to object. 0x2000000077163c80:0 in __exit_handler+0x80 () from /usr/lib/hpux32/libc.so.1`
We have only seen this problem on an HP-UX Itanium system using libdb2.so.

ECN-GL492 : Wrong data returned in unused record area

Type of Change: Correction

Incidents: 2537376

RPI Number: 1081228

Module: MSSQL

Machines Affected: Windows

Known Versions Affected: 8.0.0 and later

Description of problem or enhancement

If parts of a record are unused in a table (such as `FILLER` items, or parts of `REDEFINED` items), the data that is returned into those areas is not defined. The data could be anything, instead of being left empty.

ECN-GL493 : HIGH-VALUES in comp date field converted incorrectly

Type of Change: Correction

Incidents: None

RPI Number: 1081403

Module: Oracle

Machines Affected: All

Known Versions Affected: N/A

Description of problem or enhancement

If `HIGH-VALUES` is moved to a date field that has a data type of `comp` and `4GL_ILLEGAL_DATA` is set to `TRUE`, the date is converted to `01-JAN-0001` instead of the correct value of `31-DEC-9999`.

ECN-GL495 : Wrong format data written when COBOL and SQL items don't match

Type of Change: Correction

Incidents: 2543478

RPI Number: 1081626

Module: MSSQL

Machines Affected: Windows

Known Versions Affected: 8.0 and later

Description of problem or enhancement

If a SQL Server table has a column defined as `CHAR` or `VARCHAR`, and the corresponding COBOL data item is numeric (display), earlier versions of the interface write the data exactly as it was in the COBOL data item, while newer versions interpret the data as numeric, and write a left-justified value.

ECN-GL496: Acu4GL for DB2 on 64-bit machines

Type of Change: Enhancement

Incidents: 2538515

RPI Number: 1081180, 586420, 586423, 586424

Module: DB2

Machines Affected: All

Known Versions Affected: All

Description of problem or enhancement

Acu4GL for DB2 was only available for 32-bit machines. It is now available on 64-bit machines, as well.

ECN-GL497 : Access violation when reading character field containing NULL

Type of Change: Correction

Incidents: 2538515

RPI Number: 1081180, 586420, 586423, 586424

Module: DB2

Machines Affected: All

Known Versions Affected: All

Description of problem or enhancement

When reading a character field containing null, the application may receive a memory access violation.

ECN-GL498: Spurious error 23 on START

Type of Change: Correction

Incidents: 2517601

RPI Number: 1081787

Module: MSSQL

Machines Affected: Windows

Known Versions Affected: 8.0.0 and later

Description of problem or enhancement

The called stored procedure for START was not being called correctly, resulting in errors when this stored procedure was available.

ECN-GL499: New configuration variable to pre-fetch keyset data

Type of Change: Enhancement

Incidents: None

RPI Number: None

Module: Oracle

Machines Affected: All

Known Versions Affected: 9.1.1 and later

Description of problem or enhancement

The Acu4GL/Oracle interface uses a dual cursor model when reading data from an Oracle database in order to maximize concurrency of the data. When data is read from the Oracle database, the primary key of the target records is first retrieved. This key is then used to retrieve the entire record. This model ensures the maximum concurrency of the data to insure all the information is up to date.

A new configuration variable *A_ORA_KEYSET_PREFETCH* has been added.

This variable allows the client application to pre-fetch a large number of the primary keys for the target working set. Since the keys are less likely to change than the remainder of the record's data, the impact on concurrency in most cases will be minimal.

The value of *A_ORA_KEYSET_PREFETCH* indicates the number of primary keys to retrieve in a single fetch operation.

Examples

A_ORA_KEYSET_PREFETCH 1: This is the default value.

A_ORA_KEYSET_PREFETCH 200: Instructs the interface to return 200 primary keys values in a single fetch operation.

The function of *A_ORA_KEYSET_PREFETCH* is transparent to the application requiring no modification to your COBOL logic.

The value of *A_ORA_KEYSET_PREFETCH* is checked at the time of file open and when a positioning operation such as a START or READ is performed. The interface does not reset this value, so the application should reset it to the default value of 1 when it is no longer required.

This variable can also be very useful when used in conjunction with the configuration variable *A_ORA_KEEP_START_CURSOR*.

ECN-GL500: WHEN directives incorrectly evaluated

Type of Change: Correction

Incidents: None

RPI Number: 1082059

Module: All

Machines Affected: All

Known Versions Affected: 9.1.0

Description of problem or enhancement

Under some conditions such when an `IF` condition value is all zeros, the `WHEN` condition may be incorrectly evaluated.

AcuConnect ECN List

This section includes the ECNs relating to AcuConnect:

ECN-AC092 : AcuRCL reverses client name and host name

Type of Change: Correction

Incidents: 2422279

RPI Number: 1072394

Module: acurcl

Machines Affected: UNIX

Known Versions Affected: 8.1.0 and later

Description of problem or enhancement

When querying the clients connected to a UNIX acurcl, the client hostname and username is swapped.

AcuServer ECN List

This section includes the ECNs relating to AcuServer:

ECN-AS156 : Load balance failure

Type of Change: Correction

Incidents: 2536556

RPI Number: 1081387

Module: acuserve

Machines Affected: All

Known Versions Affected: All

Description of problem or enhancement

The load balance feature is supposed to test idle time, number of users, and number of open files to determine which secondary server to use. There were two issues:

1. The test for idle time was reversed
2. The number of open files was not being reported correctly by the secondary servers

As a result, the master server could dispatch a new client connection to an overly busy server.

AcuSQL ECN List

This section includes the ECNs relating to AcuSQL:

ECN-SQL134 : Failed to free SQL Statement

Type of Change: Correction

Incidents: 2539443

RPI Number: 1081488

Module: esqlib

Machines Affected: All

Known Versions Affected: All

Description of problem or enhancement

When inserting many rows into a table, AcuSQL does not free the statement handles, causing an eventual failure due to lack of memory.

ECN-SQL135 : AcuSQL calling SQLDescribeParam() could leak memory

Type of Change: Correction

Incidents: 2539443

RPI Number: 1081705

Module: runcbl

Machines Affected: All

Known Versions Affected: All

Description of problem or enhancement

This provides a way to have AcuSQL avoid calling `SQLDescribeParam()`. We have found one implementation of this function which leaks memory. Calling this function is not required.

ECN-SQL136: AcuSQL slows down the longer it runs

Type of Change: Correction

Incidents: 2551076

RPI Number: 1082446

Module: sqlsrvr.dll

Machines Affected: Windows

Known Versions Affected: 9.0.1 and later

Description of problem or enhancement

AcuSQL for SQL Server slows down as it runs, especially when it uses many cursors.

ECN-SQL137: Sample program failed

Type of Change: Correction

Incidents: 2546953

RPI Number: 1081894

Module: sqlsrvr.dll

Machines Affected: Windows

Known Versions Affected: 8.1.0

Description of problem or enhancement

The sample program `update.sqlb` failed to rewrite rows with a failure about unknown cursor.

AcuXDBC ECN List

This section includes the ECNs relating to AcuXDBC:

ECN-XD066: Automatic join between tables in Microsoft Query

Type of Change: Enhancement

Incidents: None

RPI Number: 1073828

Module: AcuXDBC/MFXDBC

Machines Affected: Windows

Known Versions Affected: All

Description of problem or enhancement

When you add two or more tables to a query in Microsoft Query, it will now automatically create a "join" between the tables when it recognizes a primary key (one or more fields that uniquely identify each record in a table). Join lines show the relationships of the data in the tables.

ECN-XD067: AcuXDBC does not allow alternate sorting of views linked into MS Access

Type of Change: Correction

Incidents: None

RPI Number: 1080845

Module: AcuXDBC / MFXDBC

Machines Affected: All

Known Versions Affected: All

Description of problem or enhancement

AcuXDBC allows you to use the `WHEN` directive with the `TABLENAME` clause to create views containing only the records matching the `WHEN` directives criteria. The results can be linked into Microsoft Access. After the table is linked, if a user selects a column and changes the sort order, they may receive the error `Column out of range`.

ECN-XD068: When conditions with trailing spaces may not be correctly evaluated

Type of Change: Correction

Incidents: None

RPI Number: 1080594

Module: AcuXDBC / MFXDBC

Machines Affected: All

Known Versions Affected: All

Description of problem or enhancement

If a table has a `WHEN` condition with trailing spaces, the `WHEN` condition may not be properly evaluated causing fields in the `WHEN` condition not to populate. Please note that when reading records that have fields that are all spaces, you may need to set the configuration variable `null_alpha_read_empty` if you are trying to compare to a condition such as:

```
$XFD WHEN MY-CBL-FIELD > " " TABLENAME =  
MYVIEW in order for the COBOL field not to be treated as  
NULL.
```

ECN-XD070: File name Aliases now allow you to specify files in directories that are not part of the FILE_PREFIX from the configuration file

Type of Change: Enhancement

Incidents: None

RPI Number: None

Module: AcuXDBC/MFXDBC

Machines Affected: All

Known Versions Affected: All

Description of problem or enhancement

A file alias is a way to map data files, `.xfd` files, and SQL tables. It is used at runtime to dynamically reassign a file name that is referenced in an `ASSIGN` clause or if the `assign` clause is a variable, from the `FILE` directive. The filename alias is specified using the `addfile batch(/shell script) file` or the tool `xdbcutil.exe(/xdbcutil)` with the format: `xfilename#[tablename][@filename]` where `xfilename` is the XFD filename, `tablename` is the SQL tablename to use, and `dfilename` is the Vision data filename.

The `dfilename` parameter now supports a path component which will allow you to specify files in directories not listed in your configuration file's `FILE_PREFIX` parameter. Examples:

```
addfile
foo#foo#C:\AcuRelease\cb1910\AcuGT\tmp\foo
```

```
addfile
foo##C:\AcuRelease\cb1910\AcuGT\tmp\foo
```

ECN-XD071: AcuXDBC tools report error of undefined symbol on startup

Type of Change: Correction

Incidents: None

RPI Number: None

Module: AcuXDBC

Machines Affected: UNIX

Known Versions Affected: 9.1.0

Description of problem or enhancement

Version 9.1.0 AcuXDBC tools `xdbcquery` and `xdbcutil` will report the error on startup of: `***** ERROR: DLLLOAD: xvision, xvision.so: undefined symbol: ShowLicenseError`

AcuXML ECN List

This section includes the ECNs relating to AcuXML:

ECN-XML027 : Empty tags at end of record for OCCURS DEPENDING ON

Type of Change: Correction

Incidents: 2534936

RPI Number: 1080929

Module: xml interface

Machines Affected: All

Known Versions Affected: 8.0.0 and later

Description of problem or enhancement

If your data record ends with an item that `OCCURS` some number of times `DEPENDING ON` some item, then the end of the record contains an empty open/close element.

Updates and SupportLine

Our Web site gives up-to-date details of contact numbers and addresses.

Further Information and Product Support

Additional technical information or advice is available from several sources.

The product support pages contain a considerable amount of additional information, such as:

- The WebSync service, where you can download fixes and documentation updates.
- The Knowledge Base, a large collection of product tips and workarounds.
- Examples and Utilities, including demos and additional product documentation.

To connect, enter <http://www.microfocus.com> in your browser to go to the Micro Focus home page.



Note: Some information may be available only to customers who have maintenance agreements.

If you obtained this product directly from Micro Focus, contact us as described on the Micro Focus Web site, www.microfocus.com. If you obtained the product from another source, such as an authorized distributor, contact them for help first. If they are unable to help, contact us.

Information We Need

However you contact us, please try to include the information below, if you have it. The more information you can give, the better Product Support can help you. But if you don't know all the answers, or you think some are irrelevant to your problem, please give whatever information you have.

- The name and version number of all products that you think might be causing a problem.
- Your computer make and model.
- Your operating system version number and details of any networking software you are using.
- The amount of memory in your computer.
- The relevant page reference or section in the documentation.
- Your Software Support Identification Number (SHIN) if you have one (not used in all countries).
- Your serial number. To find out these numbers, look .

Alternatively, you might be asked to provide a log file created by the Consolidated Tracing Facility (CTF) - a tracing infrastructure that enables you to quickly and easily produce diagnostic information detailing the operation of a number of Micro Focus software components.

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