



extend 9.2.5

A large, decorative graphic consisting of multiple overlapping, wavy blue lines that create a sense of motion and depth. The lines are in various shades of blue, from light to dark, and are arranged in a complex, swirling pattern that dominates the lower half of the page.

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 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 every attempt is made to keep links up-to-date, Micro Focus cannot guarantee that external links will always work as expected.

extend System Requirements



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

Hardware Requirements

extend software has the following requirements:

For Windows:

- The amount of disk space needed to install the ACUCOBOL-GT development system is typically less than 35 MB.
- AcuBench® requires at least 20 MB for installation.
- You need an additional 40 MB to install all of the other extend products.
- Use of .NET controls with the Run time and Thin Client requires .NET Framework 4.0.

For all other platforms:

- The amount of disk space needed to install all extend products is typically less than 35 MB.

Supported Operating Systems

For a list of the supported operating systems, check the Product Availability section on the Micro Focus SupportLine Web site: <http://supportline.microfocus.com/prodavail.aspx>.

Additional Requirements

AcuServer:

- Each server machine must be networked to UNIX, Linux, and Windows clients with TCP/IP. TCP/IP is not sold or supplied by Micro Focus.
- All servers must have a copy of the AcuServer license management file.
- Windows clients can run any TCP/IP software that uses a WINSOCK2 compliant `ws2_32.dll`.
- Unless you have an unlimited license for AcuServer, all UNIX servers must run the current version of `acushare`, which is included on the AcuServer distribution media.
- All servers must have a copy of the license file activated by the product installation script. This file is named `acuserve.alc`.
- Client machines must have an ACUCOBOL-GT AcuServer-enabled run-time. All Windows run-times Version 5.0 and later are AcuServer-enabled. To verify that your UNIX run-time is AcuServer-enabled, type `runcbl -v` in a Command prompt and look for this line.

```
AcuServer client
```

On SCO UNIX and NCR Tower systems, you will also need their optional NFS software package.

- Servers being accessed by the ACUCOBOL-GT Web run-time must have a multiple-user ACUCOBOL-GT run-time license that accommodates each concurrent user that is anticipated. (If you anticipate 100 concurrent users of the Web run-time, you need a 100-user run-time license on the server in addition to the AcuServer license file. Alternatively, run-time users can install a local or network floating license for the run-time themselves.

AcuBench:

- Intel Pentium III CPU, 300 MHz; Intel Pentium IV, 2 GHz recommended
- 128 MB of RAM recommended
- 120 MB of available hard disk space recommended

- mouse
- 800 x 600 VGA display or better; 1024 x 768 VGA display recommended

AcuSQL:

- Your COBOL application must run on a Windows system or a UNIX system supported by Micro Focus. Unless otherwise indicated, the references to Windows in this manual denote supported Windows operating systems. Where necessary, individual versions of those operating systems are referred to by their specific version numbers.
- AcuSQL must be installed with the ACUCOBOL-GT development system on your Windows or UNIX system.
- If using a database other than Microsoft SQL Server, you must have a working ODBC level 2 API connection to your database, including any required networking software support.
- For SQL Server, if running the AcuSQL interface to Microsoft SQL Server, you must have the SQL Server client software from Microsoft. Use the Query Analyzer to see if the SQL Server client software from Microsoft is on your system. For information on opening the Query Analyzer, see the SQL Server client documentation. If the Query Analyzer opens and you are able to connect to the database, the client libraries are most likely all present. Your SQL Server data source may be hosted on one or more of the supported server operating systems.
- If you are running the AcuSQL interface to MySQL, you must have the following software:
 - MySQL 5.0 Database Server Version 5.0.18 or later (Generally Available release). Testing was done with MySQL 5.0.18 Standard.
 - MySQL Connector/ODBC Version 3.51.11 or later (Generally Available release). Testing was done with the `libmyodbc3-3.51.12.so` library. This file is available from <http://dev.mysql.com>.

You can check the version of your server by connecting using `mysql`. The version prints upon connection. For example:

```
[testing ]: mysql
Welcome to the MySQL monitor. Commands end with ; or \g.
Your MySQL connection id is 29 to server version:
5.0.18-standard
Type 'help;' or '\h' for help. Type '\c' to clear the buffer.
```

Once in MySQL, you can also use the following:

```
mysql> select version();
+-----+
| version() |
+-----+
| 5.0.18-standard |
+-----+
1 row in set (0.09 sec)
```

- If your application accesses DB2 data, IBM's DB2 Connect™ software is recommended. Access to DB2 databases has been tested with DB2 Connect. However, any vendor's properly configured ODBC level 2 API connectivity software should work. Your DB2 data source may be hosted on one (or more) of the supported operating systems.

Acu4GL (for ODBC) driver requirements:

Your ODBC driver must include the following functions:

- all Core ODBC driver functions
- the Level 1 function `SQLColumns`
- the Level 1 function `SQLTables`

Depending on the method of record locking you choose, your driver may also need to support some of the following function calls. See `A_ODBC_LOCK_METHOD` in the extend online help for more information.

- `SQLSetStmtOption`
- `SQLSetScrollOptions`

- SQLExtendedFetch
- SQLSetPos

To test the capabilities of your ODBC driver, we have included a driver test program on your Acu4GL for ODBC installation disks. You can also consult your driver documentation to ensure that it meets these requirements.

extend Installation Release Notes

Refer to the extend product's installation guides.

What's New

The following items are new for this release:

New in Past Releases

New in 9.2.4

- RMNet includes new functions `HttpSetConnectTimeout` and `HttpSetTimeout`
- Support for additional SQL functions
- Initialization file can include SQL Commands

New in 9.2.3

- Propagating COLOR properties in screen section

New in 9.2.2, 9.2.1, 9.2.0

- Improved 64-bit support
- New control styles and properties
- Sortable grid columns
- Configurable ODBC driver used for SQL Server
- Support for the new SQL Server type DATE Change Number
- Increased BIG5 character set range
- XDBC query enhancement

Resolved Issues

The following are resolved issues for the extend products.

AcuBench ECN List

This section includes the ECNs relating to AcuBench:

ECN-WB937: AcuBench fails when setting default control options

Change Number: ECN-WB937

Type of Change: Correction

Incidents: 2804084

RPI Number: 1097239

Product: AcuBench

Module: AcuBench

New Version: 9.2.5

Machines Affected: Windows

Known Versions Affected: Unknown

Description of problem or enhancement

AcuBench would possibly fail when setting default options for controls.

ECN-WB938: Accelerator keys do not work when CAPS-LOCK is on

Change Number: ECN-WB938

Type of Change: Correction

Incidents: 2798389

RPI Number: 1097140

Product: AcuBench

Module: acubench.exe

New Version: 9.2.5

Machines Affected: Windows only

Known Versions Affected: 8.0.0 and later

Description of problem or enhancement

When Caps Lock is on, accelerator keys for the menu and toolbars did not activate any action. For example, pressing **Alt-t** should display the Tools menu. But if Caps Lock is on, pressing **Alt-t** would do nothing.

Acu4GL ECN List

This section includes the ECNs relating to Acu4GL:

ECN-GL539: CHAR fields with low-values can not be read

Change Number: ECN-GL539

Type of Change: Correction

Incidents: None

RPI Number: 607492

Product: Acu4GL

Module: MSSQL

New Version: 9.2.5

Machines Affected: Windows only

Known Versions Affected: 9.2.2 and later

Description of problem or enhancement

If a PIC X(n) field was part of a key and contains low-values on a START, then the wrong record of the file could have been read on the next READ NEXT. This was due to the implementations of ECN-GL517 and ECN-GL528.

ECN-GL540: Acu4GL for MSSQL can not handle server/instance syntax

Change Number: ECN-GL540

Type of Change: Correction

Incidents: 2800608

RPI Number: 1096919

Product: Acu4GL

Module: MSSQL

New Version: 9.2.5

Machines Affected: Windows only

Known Versions Affected: All

Description of problem or enhancement

A recent version of Microsoft SQL Server introduced new naming syntax for servers: `Servername\Instancename`. Acu4GL for SQL Server treats this as a path and strips the `Servername` portion.

This is actually the correct behavior. If users use a mix of Vision and SQL Server, and use FILE-PREFIX with a value that contains multiple directory levels such as `\usr\data\ar`, then Acu4GL strips the information from the file name before trying to open it.

A new configuration variable `A_MSSQL_STRIP_PATH_INFO` prevents the interface from doing this.

When set to the default value of `TRUE`, then the interface behaves as it always has. When set to `FALSE`, the interface ignores the name.



Note: Setting this variable to `FALSE` and using `FILE-PREFIX` with your SQL Server tables can cause unpredictable results. Use caution when using these variables in combination. Connecting to a single server/instance and using the `A_MSSQL_DEFAULT_CONNECTION` variable with that server/instance value may be a better way to handle an instance on a server that has multiple instances. However, this does not allow you to connect to multiple instances.

ECN-GL541: WHERE constraint not resetting

Change Number: ECN-GL541

Type of Change: Correction

Incidents: 2811553

RPI Number: 1098230

Product: Acu4GL

Module: MSSQL

New Version: 9.2.5

Machines Affected: Windows

Known Versions Affected: 9.2.2 and later

Description of problem or enhancement

When using the ACU4GL WHERE constraint, executing a START resets the variable so that you do not use it again. This was not happening.

ECN-GL542: Fail to return open fail with SQL Server 2012

Change Number: ECN-GL542

Type of Change: Correction

Incidents: 2811551

RPI Number: 1098267

Product: Acu4GL

Module: MSSQL

New Version: 9.2.5

Machines Affected: Windows

Known Versions Affected: All

Description of problem or enhancement

If SQL Server is set to be case dependent with table names or databases, the interface may not get any column information. This may cause SQL Server to fail opening the file while still returning SUCCESS. Future file accesses would fail with error 47,02.

ECN-GL543: A_MSSQL_DEADLOCK_LOOPS causes failure

Change Number: ECN-GL543

Type of Change: Correction

Incidents: 2784659

RPI Number: 1098599

Product: Acu4GL

Module: MSSQL

New Version: 9.2.5

Machines Affected: Windows

Known Versions Affected: 9.0.0 and later

Description of problem or enhancement

When setting A_MSSQL_DEADLOCK_LOOPS to a non-zero value, the interface would return an error on almost any file operation.

ACUCOBOL-GT ECN List

This section includes the ECNs relating to ACUCOBOL-GT:

ECN-4319: Frame controls display differently in 9.2

Change Number: ECN-4319

Type of Change: Correction

Incidents: 2788810

RPI Number: 1096270

Product: ACUCOBOL-GT

Module: Run Time

New Version: 9.2.5

Machines Affected: Windows

Known Versions Affected: 9.2.0 and later

Description of problem or enhancement

Previous versions of ACUCOBOL-GT would paint frame control text with an opaque background. Version 9.2.0 modified this so that frames are painted with a transparent background. This causes the look of the frame control with text to look different than in previous versions.

The painting behavior is now determined by the semantics of the COBOL object. To get the old behavior, you must compile your COBOL object with an older compiler, or with the -Z91 option, or that any value less than 92. If you can recompile your programs, then you should set up colors the way you want them with the new options given in version 9.2.0 and later.

ECN-4321: Client pings not sent on time set by AGS_PING_TIME

Change Number: ECN-4321

Type of Change: Correction

Incidents: 2672126

RPI Number: 1091997

Product: ACUCOBOL-GT

Module: Run time and Socks

New Version: 9.2.5

Machines Affected: All

Known Versions Affected: All

Description of problem or enhancement

Client pings were not sent to the server according to the time set by *AGS_PING_TIME*. It was common for the period between the pings to be twice set by that configuration variable. This was caused by a timing issue between the run time and the socket layer.

ECN-4322: COMBO-BOX drop down has too many lines

Change Number: ECN-4322

Type of Change: Correction

Incidents: 2800943

RPI Number: 1096947

Product: ACUCOBOL-GT

Module: Run Time

New Version: 9.2.5

Machines Affected: Windows

Known Versions Affected: 8.0.0 and later

Description of problem or enhancement

The Microsoft combo box changed behavior when using native controls. In this case, the combo box drop down does not honor the height of the control specified when the control was created.

There is a new property that Microsoft provides to limit the size of the drop down. ACUCOBOL-GT now uses this property so that native control combo boxes act like old-style combo boxes.

ECN-4323: Socket close would wait for data from peer

Change Number: ECN-4323 Status: Complete Type of Change: Correction Priority: Low Incidents: 2783809 RPI Number: 1095124 Date: 2014-11-03 Product: ACUCOBOL-GT Module: socks New Version: 9.2.5 Machines Affected: all Known Versions Affected: all

Description of problem or enhancement

When closing a socket the AGS layer would attempt to receive any remaining data from its peer. This operation would cause the process closing the socket to pause even though the data it may have received

would be ignored. This ECN changes this behavior to not try to receive data when closing the socket, thus avoiding the pause.

ECN-4325: Run time fails when sorting a grid with empty lines

Change Number: ECN-4325

Type of Change: Correction

Incidents: 2698870

RPI Number: 1094322

Product: ACUCOBOL-GT

Module: Run Time

New Version: 9.2.5

Machines Affected: All

Known Versions Affected: 9.2.0 and later

Description of problem or enhancement

When using the new sorting feature of the grid control, the run time would fail if one of the rows was empty.

ECN-4326: TRANSPARENT labels on tabs with ACTIVE-TAB-COLOR

Change Number: ECN-4326

Type of Change: Correction

Incidents: None

RPI Number: 603361

Product: ACUCOBOL-GT

Module: Run time

New Version: 9.2.5

Machines Affected: Windows

Known Versions Affected: 9.2.0 and later

Description of problem or enhancement

When a label with the TRANSPARENT style is placed on a TAB control that uses both TAB-BACKGROUND-COLOR and ACTIVE-TAB-COLOR, and they specify different background colors, the label would have a background that was the same as the TAB-BACKGROUND-COLOR, and not the ACTIVE-TAB-COLOR.

ECN-4327: Multiple array indexes and DECIMAL-POINT IS COMMA

Change Number: ECN-4327

Type of Change: Correction

Incidents: 2799972
RPI Number: 1096787
Product: ACUCOBOL-GT
Module: Compiler
New Version: 9.2.5
Machines Affected: All
Known Versions Affected: All

Description of problem or enhancement

When using DECIMAL-POINT IS COMMA, array indexes with multiple dimensions without a space after the comma separator were not parsed correctly.

For example, `data-item(1,1)` generated compiler errors stating that more subscripts were needed.

ECN-4329: Fail when using ActiveX control

Change Number: ECN-4329
Type of Change: Correction
Incidents: 2804876
RPI Number: 1097337
Product: ACUCOBOL-GT
Module: Run time
New Version: 9.2.5
Machines Affected: Windows
Known Versions Affected: 9.2.0 and later

Description of problem or enhancement

When a property or method returns a dispatch table, the run time would release it, causing a MAV later on in the program.

ECN-4331: Hot-key changed numeric grid values

Change Number: ECN-4331
Type of Change: Correction
Incidents: 2807801
RPI Number: 1097696
Product: ACUCOBOL-GT
Module: Run time New Version: 9.2.5
Machines Affected: All
Known Versions Affected: 9.1.0 and later

Description of problem or enhancement

When using a hot-key program in a grid with the cursor on a numeric cell with a size larger than 9, the contents of the cell could be modified even if the hot-key program did not modify it.

ECN-4332: Preprocessor option shows errors in commentary

Change Number: ECN-4332

Type of Change: Correction

Incidents: 2801684

RPI Number: 1097041

Product: ACUCOBOL-GT

Module: ccbl

New Version: 9.2.5

Machines Affected: All

Known Versions Affected: All

Description of problem or enhancement

When using the -Lp preprocessor option on a file, errors or warnings would be shown for text that is in commentary, such as the REMARKS section.

ECN-4333: Incomplete NetDefGen depending on screen settings

Change Number: ECN-4333

Type of Change: Correction

Incidents: None

RPI Number: 603564

Product: ACUCOBOL-GT

Module: NetDefGen

New Version: 9.2.5

Machines Affected: Windows only

Known Versions Affected: All

Description of problem or enhancement

If your screen settings were set to show larger fonts, then the NetDefGen screen would be incomplete. Note that this happened even if using the default font size (125%). The program only looked correct if the settings were at Smaller - 100%

ECN-4335: Native combo-box fails to redisplay on tab switch

Change Number: ECN-4335

Type of Change: Correction

Incidents: 2808301

RPI Number: 1097780

Product: ACUCOBOL-GT
Module: Run time
New Version: 9.2.5
Machines Affected: Windows
Known Versions Affected: All

Description of problem or enhancement

When a drop-list combo-box was on a tab control, it would sometimes not show up when the user switched tabs. This only happened with native controls.

ECN-4337: Thin client fails

Change Number: ECN-4337
Type of Change: Correction
Incidents: 2808259
RPI Number: 1098088
Product: ACUCOBOL-GT
Module: Run time
New Version: 9.2.5
Machines Affected: All
Known Versions Affected: All

Description of problem or enhancement

The thin client would fail and even disappear if the COBOL program was performing intensive file I/O without querying the user for input and you tried to interact with the thin client screen such as trying to activate a different control.

The thin client would send an event to the run time and expect a response such as EVENT-FAIL. But because the run time was busy with file I/O, it would never check the thin client socket. This caused causing the thin client to time out and exit.

This ECN is only active when the configuration variable *FILE-IO-PROCESSES-MESSAGES* is set to ON. But if your COBOL program does heavy file I/O without any screen input, you may already have this set.

As a work around, modify your code to occasionally ACCEPT some input, with a timeout, so that the thin client receives an occasional response to events.

ECN-4338: XML GENERATE fails to encode special characters

Change Number: ECN-4338
Type of Change: Correction
Incidents: 2812189
RPI Number: 1098350
Product: ACUCOBOL-GT
Module: Run time
New Version: 9.2.5

Machines Affected: All

Known Versions Affected: All

Description of problem or enhancement

When XML GENERATE encountered special characters in data (such as quotes or ampersands) it would not encode these per the XML standard (", &).

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 Needed by Micro Focus SupportLine

When contacting Micro Focus SupportLine, please include the following information if possible. The more information you can give, the better Micro Focus SupportLine can help you.

- The name and version number of all products that you think might be causing an issue.
- Your computer make and model.
- System information such as operating system name and version, processors, and memory details.
- Any detailed description of the issue, including steps to reproduce the issue.
- Exact wording of any error messages involved.
- Your serial number or works order (WO) number.

To find out these numbers, look in the subject line and body of your Electronic Product Delivery Notice email that you received from Micro Focus, or on the box in which the product was supplied, and on the red card supplied in the DVD case .

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