Changes in 2.6.2

New ini file entries
COMMAND WAIT TIMEOUT
This command should only be changed from the default if instructed by Lantica Technical Support.

QUICK NET CHECK TIMEOUT
This command should only be changed from the default if instructed by Lantica Technical Support.

HEARTBEAT FAIL MAXIMUM
This command should only be changed from the default if instructed by Lantica Technical Support.

HEARTBEAT INTERVAL
This command should only be changed from the default if instructed by Lantica Technical Support.

HEARTBEAT TIMEOUT
This command should only be changed from the default if instructed by Lantica Technical Support.

DISPLAY ADVANCED COMMANDS
This causes a number of the more advanced commands that usually do not appear in the button-view menu to appear in the button-view menu, including:
- Application Utilities!Merge Application
- Application Utilities!Trim Application
- Search Menu!Search Commands!Next Matching Record in Current Results
- Results Commands!Sort
- Results Commands!Export Data
- Results Commands!Import Data
- Results Commands!Copy
- Results Commands!Mass Update
- Results Commands!Sort By Timestamp
- Record Commands!Calculate (F8)
- Navigation!Next Matching Record

Valid settings: ON | OFF
Example: DISPLAY ADVANCED COMMANDS: ON
Default: OFF

New Features
- Information and tools added to the Server Admin dialog

New Functions

FormDependentValueFiltered(LE, FormName, LE_name, operation, ...)
Type: Forms/Records
Parameters: LE as element reference, FormName as string, LE_name as string, operation as int, ... as string
Returns: Nothing

FormDependentValueFiltered operates identically to FormDependentValue, except that it only looks at records meeting the specified search criteria,

This command takes four standard arguments and an unlimited number of optional arguments.

Standard arguments: the element to affect, the form name of the form to monitor, the element name of the element to operate on, and an operation to perform.

The optional arguments specify which records to include in the calculation. They are specified as LE_name =<search spec>.

The allowed operations (defined in sbasic_include.sbas) are:

SUBFORM_DEPENDENCY_OPERATION_SUM
SUBFORM_DEPENDENCY_OPERATION_AVERAGE
SUBFORM_DEPENDENCY_OPERATION_HIGH
SUBFORM_DEPENDENCY_OPERATION_LOW
SUBFORM_DEPENDENCY_OPERATION_CONCATENATE
SUBFORM_DEPENDENCY_OPERATION_COUNT

This command can be used, for example, to have a Popcalc element on the Countries form that automatically updates whenever a Cities subrecord is added, deleted or changed and produces an average of the Population LE including only those records where Population is equal to or greater than 100,000. Normally, this would be placed in GLOBAL CODE.

```
#include "sbasic_include.sbas"

FormDependentValueFiltered(Popcalc, "Cities", "Population",
SUBFORM_DEPENDENCY_OPERATION_AVERAGE, "Population=>=100000")
```

Once the code is called, whenever a new city is added, a population is changed, or a city is deleted, the value of Popcalc (the LE on the parent form) will be automatically updated to reflect the new average.

This command produces an average of the Population LE including only those records where Population is equal to or greater than 100,000 and the City begins with "a".

```
#include "sbasic_include.sbas"

FormDependentValueFiltered(Popcalc, "Cities", "Population",
SUBFORM_DEPENDENCY_OPERATION_AVERAGE, "Population=>=100000", "City=a..")
```

See Also: FormDependentValue

@HostName()
Type: State Information
Parameters: None
Returns: string

Returns the TCP/IP host name.

See Also: @UserID

@ShareGlobalStatics()
Type: State Information
Parameters: None
Returns: int

Returns the state of the ShareGlobalStatics flag for the current form.

```
vInt = @ShareGlobalStatics()
```

See Also: ShareGlobalStatics()

ShareGlobalStatics(state)
Type: State Information
Parameters: state as int
Returns: Nothing

ShareGlobalStatics() sets a flag on the current form to control whether a form opened by Open Form in a New Tab will share the current form's Global Static variables. Valid values are 0 (false) and 1 (true). Defaults to 0.

Setting this flag causes the form opened by Open Form in a New Tab to share the Global Static variables from the current form. Changes to the values of these variables will affect both forms.

```
ShareGlobalStatics(1)
ShareGlobalStatics(0)
```

See Also: @ShareGlobalStatics()

@XResultSetNew(filename, db)
Type: External Database Application Management
Parameters: filename as string, db as string
Returns: int

This command is the best way to obtain a new, empty result set for the purpose of adding new records.

@XResultSetNew takes two arguments:

filename - the filename of the application to open. If the records you want are in the current application, you can use @FN for the filename.

db - the name of the database in that application.

```
#include "sbasic_include.sbas"

var vRSHandle as int

        vRSHandle = @XResultSetNew("Customers.db", "Customers")
        if(vRSHandle > -1)
        {
                XResultSetCreateNewRecord(vRSHandle)
                XResultSetValue(vRSHandle, "First", "William")
                XResultSetValue(vRSHandle, "Last", "Halpern")
                XResultSetClose(vRSHandle)
        }
```

See Also: @XResultSetCurrentForm, @XResultSetSearch

SBasic Function Changes

@Sendmail: Now accepts an optional EncodeType argument specifying the encoding type to use for the binary attachment (if present). Valid EncodeType values are 0 (X-UUEncode) or 1 (Base64). The default EncodeType is 0. If the recipient is receiving your binary attachments with incorrect encoding, try changing the EncodeType to 1.

XResultSetValue: Now accepts multiple field name/value pairs to set multiple field values with a single round-trip to the server.

XResultSetOpenForm: Now always opens a new tab.

July 2016

Changes in Sesame 2.6

Addenda

User Guide, chapter 16 – Using the Application Utilities

Page 428. Merge Application
Add note: When you click on an application name in the "Select an Application File to Merge" dialog, the merge procedure will commence. The application selected – either a DB file or a DSR file - will be merged into the current DSR. If the application to be included has security and the host application does not have security, the merged application will acquire the security of the target application. In this case, when the merge is completed, a password dialog will be displayed. Enter a valid user ID and password to open the new merged application. If at this password dialog you click "Cancel", you are Just cancelling the opening of the merged application – the merge has already occurred. If you do not have a valid user ID / password combination for the target application (the one being merged into your original DSR), then you will not be able to open the new merged application. For this reason it is essential to make a backup of your original application before the merge process, as recommended in the User Guide. It would also be sensible to ensure you have a valid user ID / password combination for the target application before you commence the merge process

New ini file entries

USER PASSWORD EXPIRES
Sets the number of days a password is allowed to be used before it expires.
Valid settings are any whole number greater than or equal to 0. A setting of 0 means passwords never expire.
Example: USER PASSWORD EXPIRES: 30
Default: 0

PASSWORD MAXIMUM ATTEMPTS
Sets the number of failed log in attempts allowed before the system will stop bringing up the login dialog.
Valid settings are any whole number greater than or equal to 0. A setting of 0 means no limit.
Example: PASSWORD MAXIMUM ATTEMPTS: 3
Default: 0

PASSWORD MUST CONTAIN SYMBOL
If ON, passwords must contain at least one non-alphanumeric character.
Valid settings: ON | OFF
Example: PASSWORD MUST CONTAIN SYMBOL: ON
Default: OFF

PASSWORD MUST CONTAIN MIX CASE
If ON, passwords must contain both uppercase and lowercase characters.
Valid settings: ON | OFF
Example: PASSWORD MUST CONTAIN MIX CASE: ON
Default: OFF

PASSWORD MUST CONTAIN NONALPHA
If ON, passwords must contain at least one non-alphabetic character.
Valid settings: ON | OFF
Example: PASSWORD MUST CONTAIN NONALPHA: ON
Default: OFF

EXEMPTED ACCOUNT
Exempts the named account (user login name) from password expiration rules. Used to exempt the account used for X-commands from expiring.
Valid settings: Account name

Example: EXEMPTED ACCOUNT: my_x_user
Default: N/A

CHILD RECORDS PROTECT PARENT
If ON, a database with subrecords acquires partial protections against deletion of subrecords or parent records open in more than one result set.
Valid settings: ON | OFF
Example: CHILD RECORDS PROTECT PARENT: ON
Default: OFF

New Command Line Switches

-dump_deletions
Causes the server to write an ASCII CSV entry representing all the data for any user-deleted record to a file named by concatenating the application Title to the Database name with a ".txt" extension. The CSV line is preceded by a line containing the IP address of the user and a timestamp. The file is stored in the current working directory (by default Sesame2). The data is written to the file immediately the deletion is confirmed. New deletions are appended to the end of the file. The file endures even when you exit from Sesame, so might grow to a considerable size over time.

New Features
- Additional facilities to improve security capabilities and control (see above).
- Ability for users to create their own new passwords when their old ones expire.
- Sesame Server logs record both failed and successful login attempts for improved tracking.
- Linux versions use the Xft font system.
- New SDesigner Application Menu option - Export Programming: Exports all Application, Form, and Report programming to a single file.
- New SDesigner Application Menu option - Import Programming: Imports all Application, Form, and Report programming from a single file.
  Warning - This can overwrite all existing application programming.
- When running a report, Sesame checks to see if the SESAME_REPORT_PATH environment variable has been previously set in the current computer's Windows operating system. If not, it creates and saves all subsequent reports to a directory named SesameReports created under the folder specified in the shortcut as the *Start In* folder on each computer.
- Scroll wheel support has been added to the PopUpMenu dropdown.
- Min/Max searching has been made better and faster.
- Opening of large Table views has been made significantly faster.
- Improved table view navigation with the use of the escape key.
- Improved export/import report design capabilities in SDesigner.
- Improved warning messages and data management for invalid data entry in numeric fields.
- Improved display of file names in reconcile, server admin, and other file listing windows to allow the user to better understand the actual files being selected rather than just seeing the application names.
- Improved internal rounding of monetary money decimals to the selected display format.
- Duplex printing now obeys the settings of the print dialog box.

New Functions

@IsEditable(LE)
Type: Element Reference
Parameters: LE as element reference
Returns: int

Returns 1 if the element is an editable type. These include:
WIDGET_TYPE_SINGLE_LINE_TEXT
WIDGET_TYPE_SINGLE_LINE_RIGHT_JUSTIFY_TEXT

```
WIDGET_TYPE_MULTILINE_TEXT
WIDGET_TYPE_MULTILINE_EDITOR
WIDGET_TYPE_COMBO_BOX
WIDGET_TYPE_RADIO_BUTTON_GROUP
WIDGET_TYPE_CHOICE_LIST
WIDGET_TYPE_MENU_BUTTON
WIDGET_TYPE_CHECK_BUTTON
WIDGET_TYPE_IMAGE
```

@IsEditable() is useful for tasks like Word merge, where you need a list of LEs that you are likely to want to use as a word merge field. You only want LEs which show data. Without @IsEditable you need at least 2 lines of code to do this, using @ElementType(ThisElement) and then analysing the numeric result.

Example
In a Loop to compile a list of editable layout elements to export for a Wordmerge export:

This:

```
var nn as Int
...
        nn = @ElementType(ThisElement)
        IF (nn=1024
        OR nn > 999 and nn < 1009)
```

Can be replaced with:

```
        IF @IsEditable(ThisElement)
```

@XMLParse(str)
Type: XML
Parameters: str as string
Returns: int

The @XMLParse function takes one argument, the XML string to parse. It returns a "handle" to the resulting XML document that the other XML commands can use to manipulate the contents. It will return -1, if it cannot open, read, or parse the specified XML string. This command sets the current node to the first node in the document.

```
var vHandle as int
var vXML as string

        vXML = "<?xml version=""1.0"" encoding=""UTF-8""?>
<Clients>
        <Client>
                <ClientId>10045</ClientId>
                <FirstName>Theodore</FirstName>
                <LastName>Monbeck</LastName>
        </Client>
</Clients>"

        vHandle = @XMLParse(vXML)
        WriteLn(vHandle)
        If vHandle <> -1
        {
                // Do other XML commands
        }
```

@CalendarExtended(CurrentDate, StartDate, EndDate, Title, Repeat, Buttons, Boxtype, Exclusion)
Type: User Interaction
Parameters: DefaultDate as date, FirstDate as date, LastDate as date, Title as string, Repeat as int, Buttons as int, Boxtype as int, Exclusion as string
Returns: string

@CalendarExtended displays an interactive calendar and returns the selected date(s) as a string array. Includes options for multiple selections, date limits, navigation, and appearance.

Parameters:
DefaultDate - the date you want the calendar to highlight by default. Set to "0000/00/00" or "" to highlight the current date.

FirstDate - the earliest date you want the user to be able to select. Set to "0000/00/00" or "" to ignore.

LastDate - the latest date you want the user to be able to select. Set to "0000/00/00" or "" to ignore.

Title: Prompt text displayed in the calendar's title bar. If Repeat is greater than 1, you can specify a string array of titles to show a different prompt for each date requested.

Repeat: Integer specifying the number of dates to request.

Buttons: Integer specifying whether Month navigation buttons, Year navigation buttons, and window elements are available.
0 - All off
1 - Turn on Month navigation buttons
2 - Turn on Year navigation buttons
4 - Turn on window elements

To turn on multiple options, add their values together. For example:
3 - Turn on Month and Year navigation buttons
7 - Turn on all buttons

Boxtype: Sets the BOX_TYPE attribute for the popup calendar. Set to 0 for a boxless calendar. Usually, Box type 1 (BOX_TYPE_FLAT_BOX if using the *sbasic_include.sbas* file) should be used. See sbasic_include.sbas for a list of valid box types and their corresponding numbers.

There are many options you can use. If you use a box type that does not include borders, e.g. Box Type 1, you then have the option of using *PopupSelectPosition()* to position the calendar the same way you can position various other Sesame popups. This allows you to give the calendar an 'embedded' look on your form.

Exclusion: String array of excluded dates. Excluded dates are deactivated in the popup calendar. Up to 1024 exclusions may be specified. Exclusions are accepted in the following formats:
Single Date - "2013/06/15"
Date Range - "2013/06/15..2013/07/20"
Day of the week, can be abbreviated to three letters - "mon;wed;fri" or "Monday;Wednesday;Friday"
Month, can be abbreviated to three letters - "mar;jun;dec" or "March;June;December"
Year - "year:2010"
Week of the month, as a number from 1 to 6 - "week:2"
Exclude weekdays (Mon-Fri) - "weekdays"
Exclude weekends (Sat-Sun) - "weekends"

The following example requests a Start Date and End Date from the user. The choices are limited to 30 days from the current date in each direction and weekends are excluded.

```
var vDates as String
var vStart as Date
var vEnd as Date

        vDates = @CalendarExtended(@Str(@Date), @Str(@Date – 30), @Str(@Date +
30), "SELECT A START DATE;SELECT AN END DATE", 2, 5, 1, "weekends")
        If Not @Error
        {
                vStart = @ToDate(@AccessStringArray(vDates, 1))
                vEnd = @ToDate(@AccessStringArray(vDates, 2))
                WriteLn("FROM " + @Str(vStart) + " TO " + @Str(vEnd))
        }
```

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