

Lasernet

by Formpipe

Lasernet
Connector for
Microsoft
Dynamics AX 2012
Release notes
4.1.0.0

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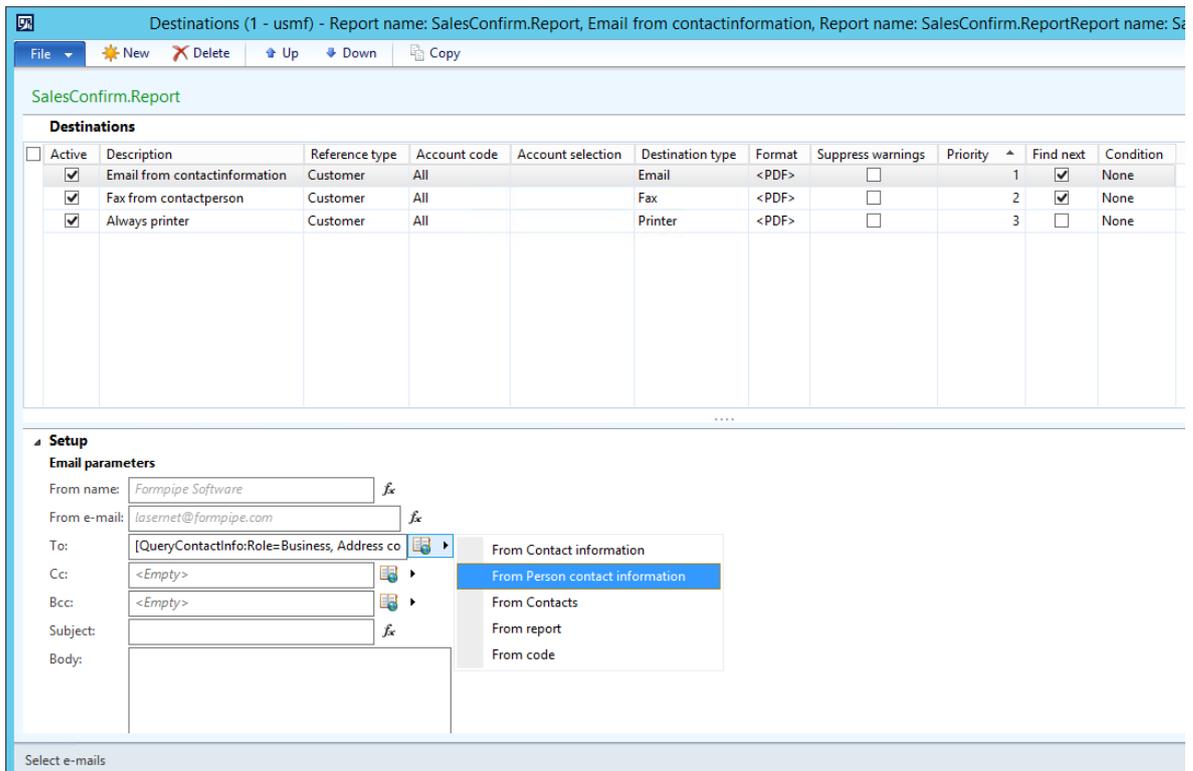
Report overview

Fix report

Fix report has been added to the report overview to give the option to multi select and fix several of reports in the same run.

Destinations

Rules for the destination can now be defined as a combination of the contact person and contact information.



Destinations

Active	Description	Reference type	Account code	Account selection	Destination type	Format	Suppress warnings	Priority	Find next	Condition
<input checked="" type="checkbox"/>	Email from contactinformation	Customer	All		Email	<PDF>	<input type="checkbox"/>	1	<input checked="" type="checkbox"/>	None
<input checked="" type="checkbox"/>	Fax from contactperson	Customer	All		Fax	<PDF>	<input type="checkbox"/>	2	<input checked="" type="checkbox"/>	None
<input checked="" type="checkbox"/>	Always printer	Customer	All		Printer	<PDF>	<input type="checkbox"/>	3	<input type="checkbox"/>	None

Setup

Email parameters

From name: *fx*

From e-mail: *fx*

To: *fx*

Cc: *fx*

Bcc: *fx*

Subject:

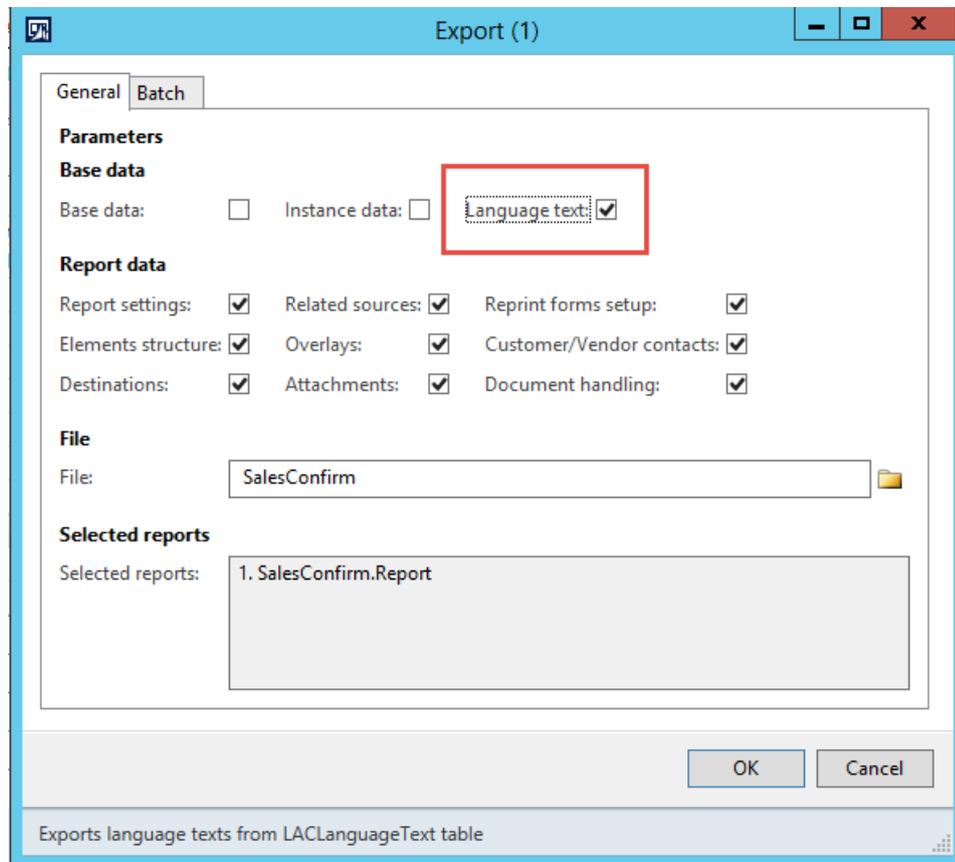
Body:

Select e-mails

- From Contact information
- From Person contact information**
- From Contacts
- From report
- From code

Export

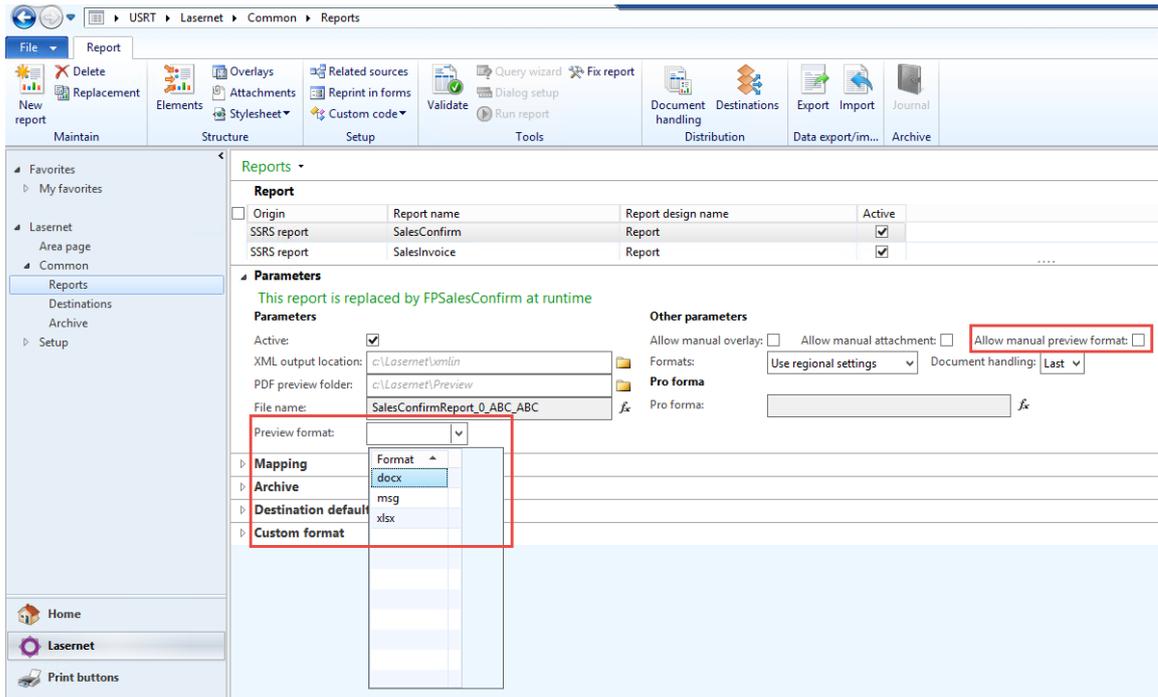
Includes now an option to export Language text.



Preview format

In previous versions of the connector, the preview format was always PDF. It is now possible to configure/type in any other formats like EXCEL (xlsx), Word (docx), Message file (.msg) as example.

It is also possible to identify if this format is allowed to be changed within the printer dialog. (The format can also be selected within the default destinations)



USRT > Lasernet > Common > Reports

File > Report

Report

Origin	Report name	Report design name	Active
SSRS report	SalesConfirm	Report	<input checked="" type="checkbox"/>
SSRS report	SalesInvoice	Report	<input checked="" type="checkbox"/>

Parameters

This report is replaced by FPSalesConfirm at runtime

Parameters

Active:

XML output location: c:\Lasermet\xmlin

PDF preview folder: c:\Lasermet\Preview

File name: SalesConfirmReport_0_ABC_ABC

Preview format: **docx**

Mapping

Archive

Destination default

Custom format

Other parameters

Allow manual overlay: Allow manual attachment: **Allow manual preview format:**

Formats: Use regional settings Document handling: Last

Pro forma

Pro forma: f

Archive

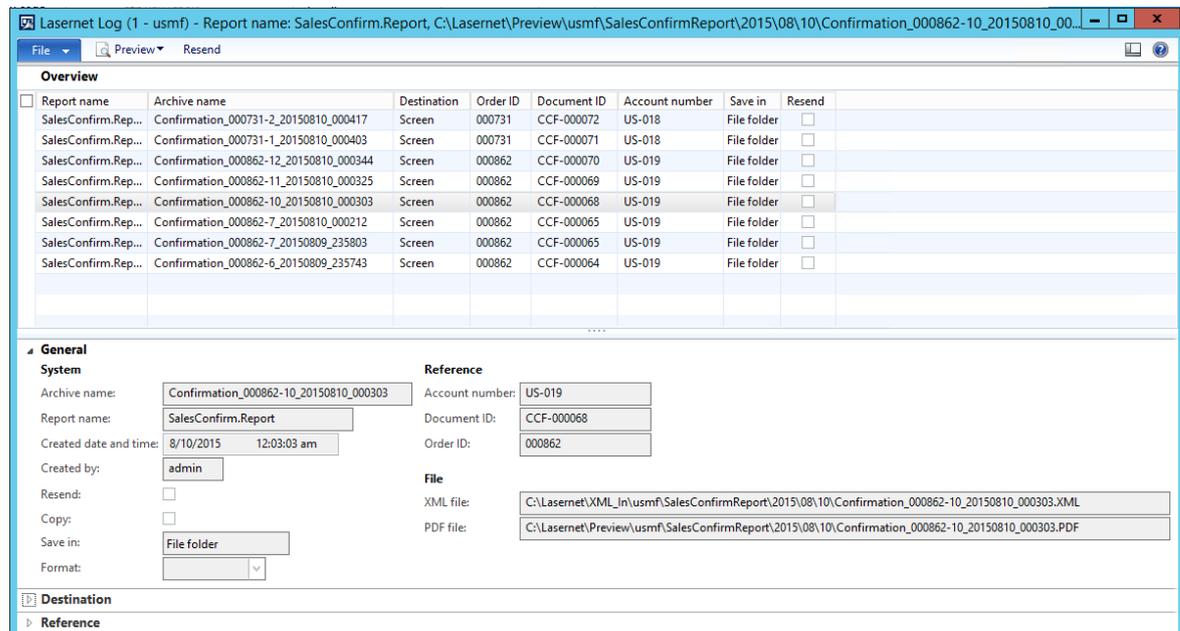
Archive parameter

Archive identifies how the archive behavior should be:

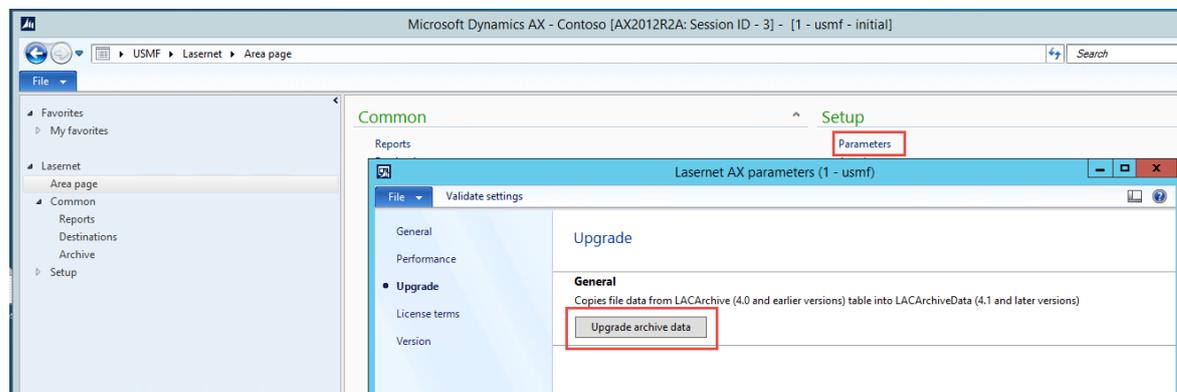
- No** No archiving
- Default** This is like the behavior in the previous versions of the Connector and it will reflect what's select within the field Pro forma in the group Parameters
- Manual** The selection within the Printer-dialog defines if the PDF and/or the XML file should be archived.

Archive structure

The table structure within Lasernet Archive is redesigned to archive better performance. This redesign requires a job to be executed to move data from the old table structure to the new table structure.



This job can be executed from **Lasernet Parameter - Upgrade**



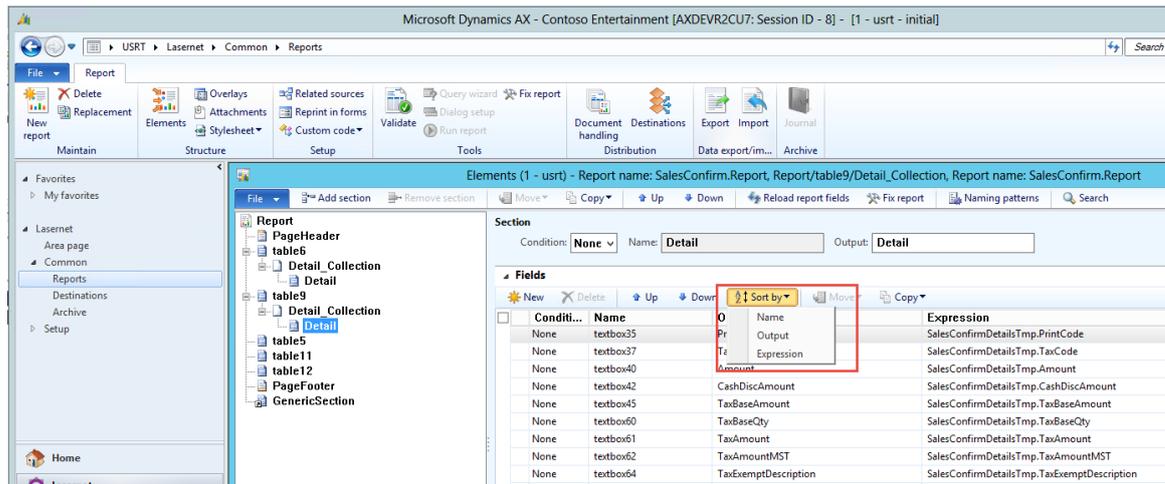
Elements

Copy

Copy can now automatically replace none-existing table/fields within the destination report.

Range / Sorting

By using the **Sort by** feature it is possible to make an alphabetic sort based on either Name, Output or expression.



Datatype

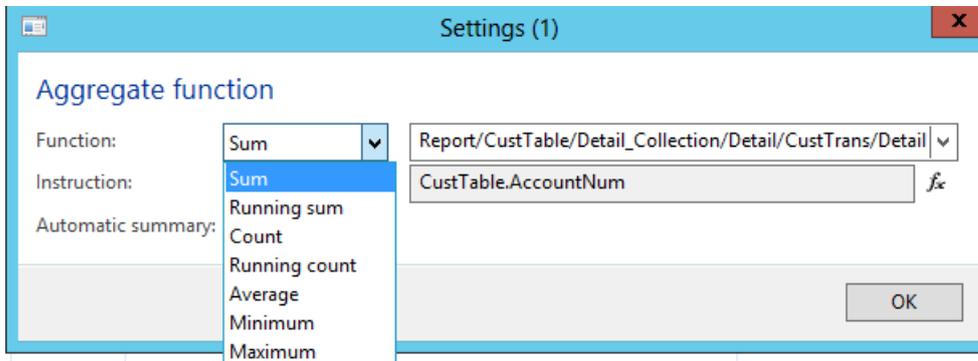
Only used Data types within the connector are now shown within the Data type. The following types has been added

Resolve label By selecting this option it is possible to make a label-translation for a field containing a label. As example this could be a field from the table 'LogisticsAddressCountryRegionTranslation'. The fields 'LongName' and 'ShortName' in this table contains a label.

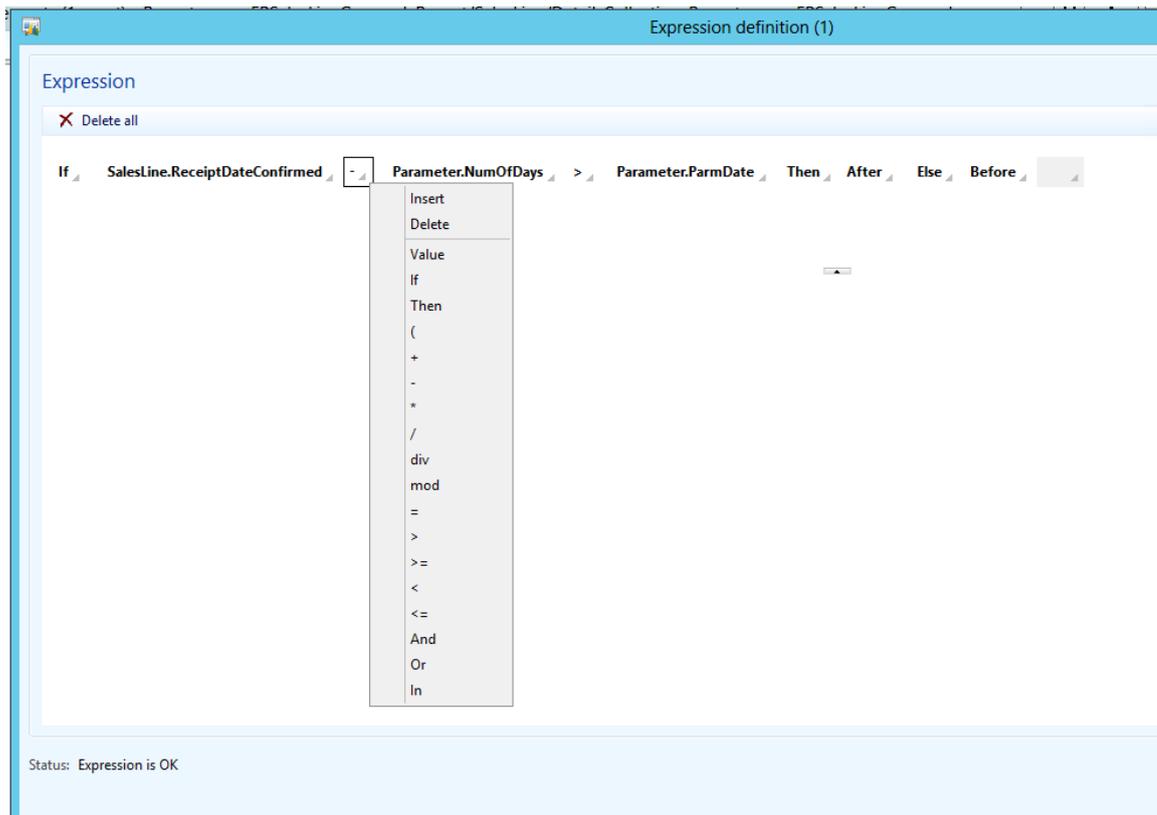
CData Is used for encoding HTML within the XML-document

Expression

Aggregate can be selected and used for Sum, Running Sum, Count, Running Count, Average, Minimum and Maximum. It is also possible to select the grouping for the aggregate.

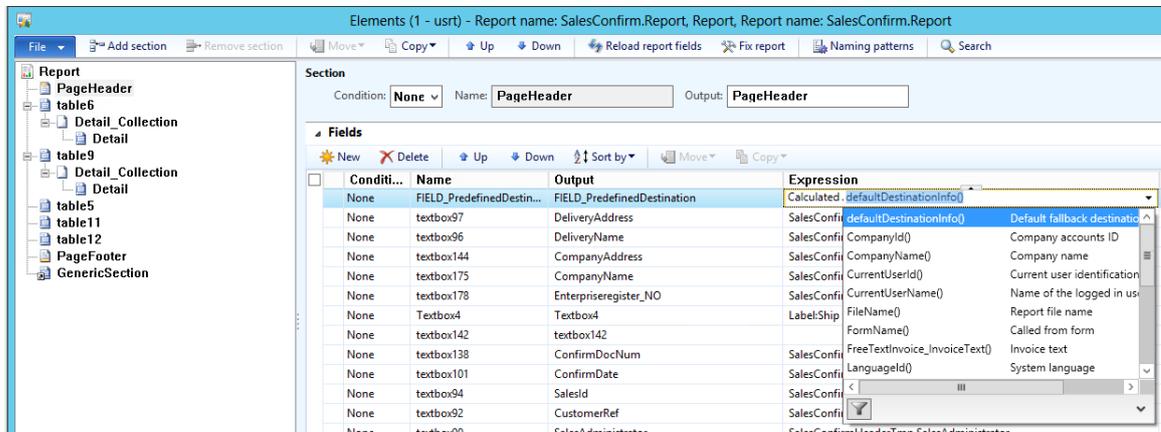


An expression within the expression can be selected to do calculation (+, -, *, /, DIV and mod etc.) and to do flow like if, then, else, last, changed etc. Any values and fields can be used within the expression.



Destination info

Information regarding the selected destination within the printer dialog can be retrieved by using `Calculated.defaultDestinationInfo()` within the elements.



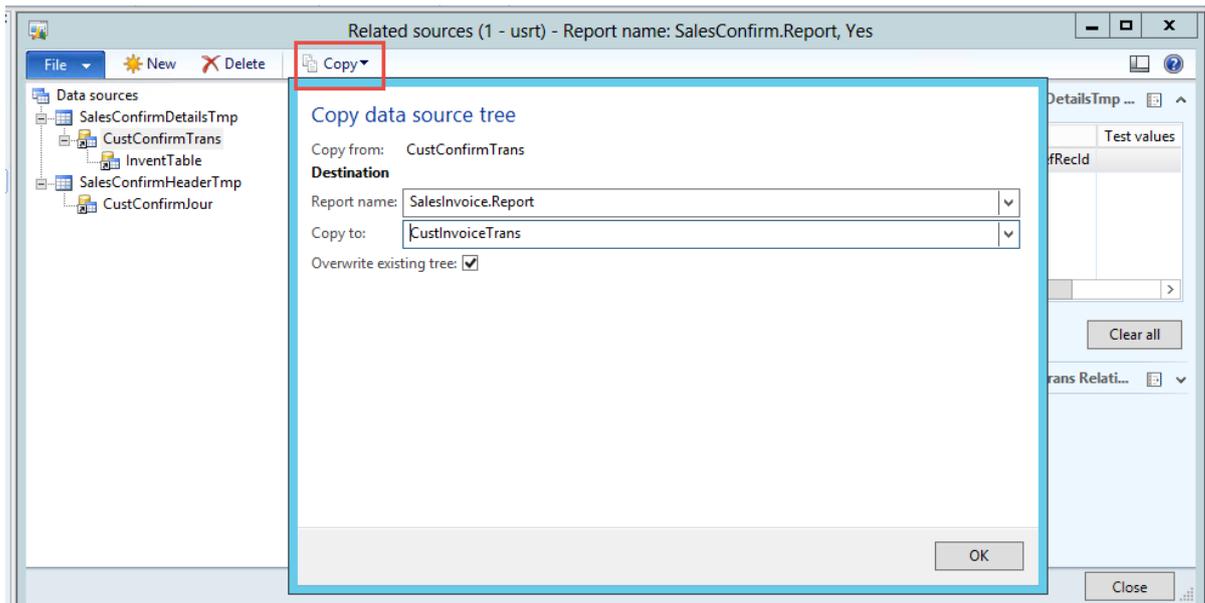
It returns information like the following:

```
- <FIELD_DefaultDestination>
  <DestType>Use predefined destinations</DestType>
  <DefaultDestinationType>Email</DefaultDestinationType>
  <MailFromName />
  <MailFrom />
  <MailTo>ThisIsTheFallback@destination.com</MailTo>
  <MailCC />
  <MailBCC />
  <MailSubject>This is the fallback Email subject</MailSubject>
  <MailBody>This is the fallback Email body</MailBody>
</FIELD_DefaultDestination>
```

Related sources

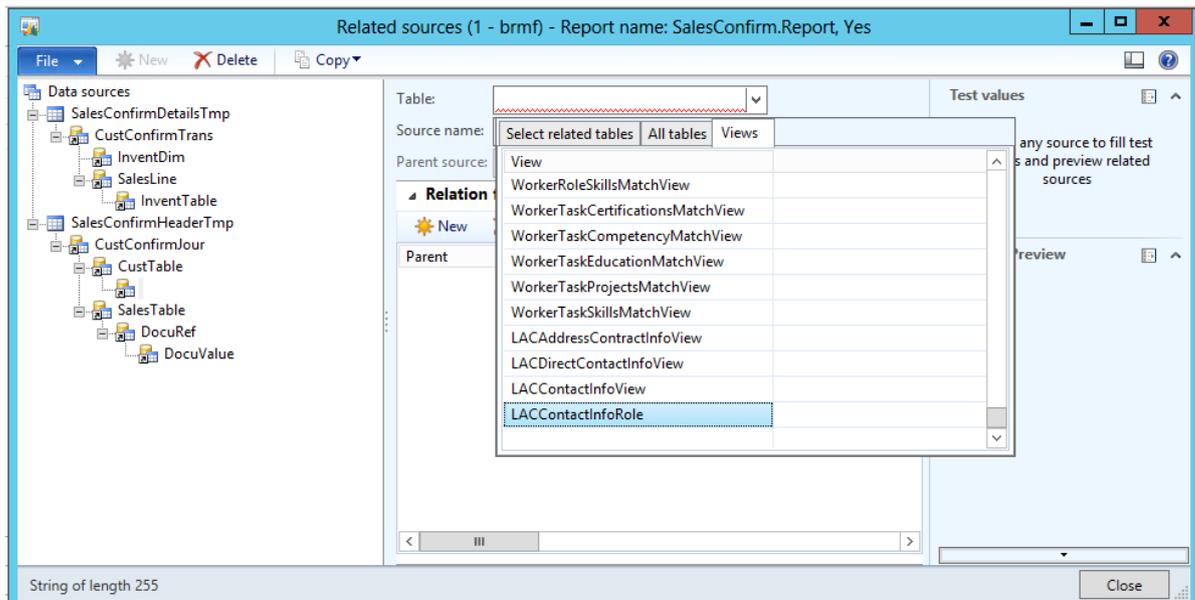
Copy of related sources

A collection/substructure of tables can be copied to any other report with prompting for non-existing tables within the destination report. Most information would automatically be replaced when doing the copy.



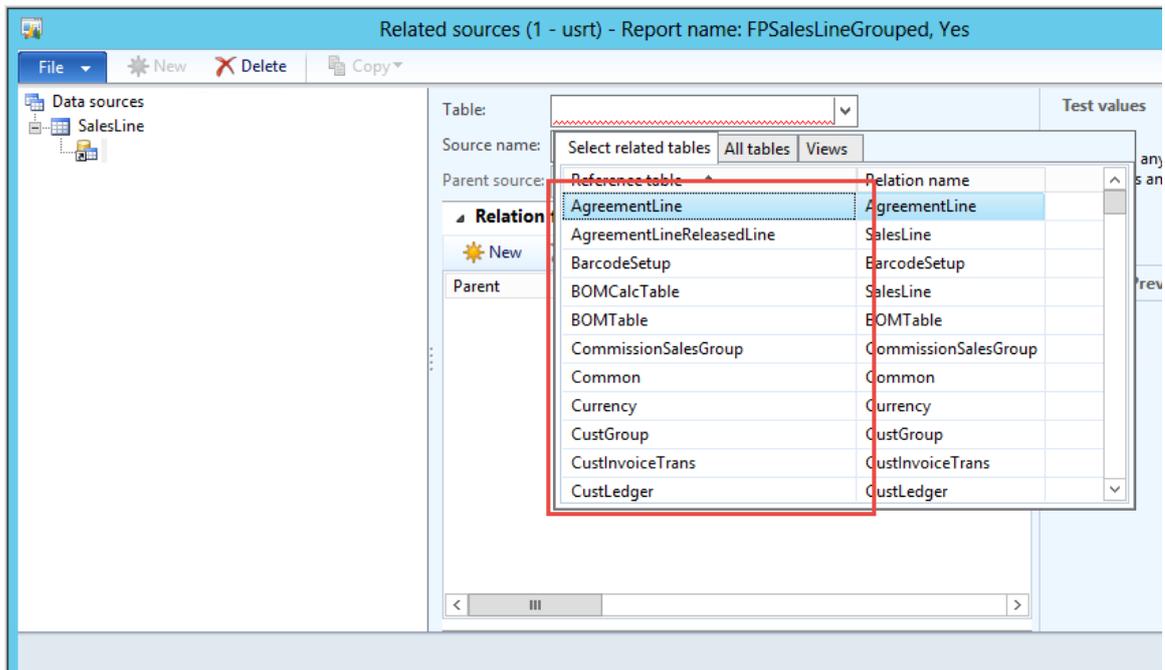
View

The view 'LACAddressInfoRole' has been added to make it easier to find information regarding addresses.



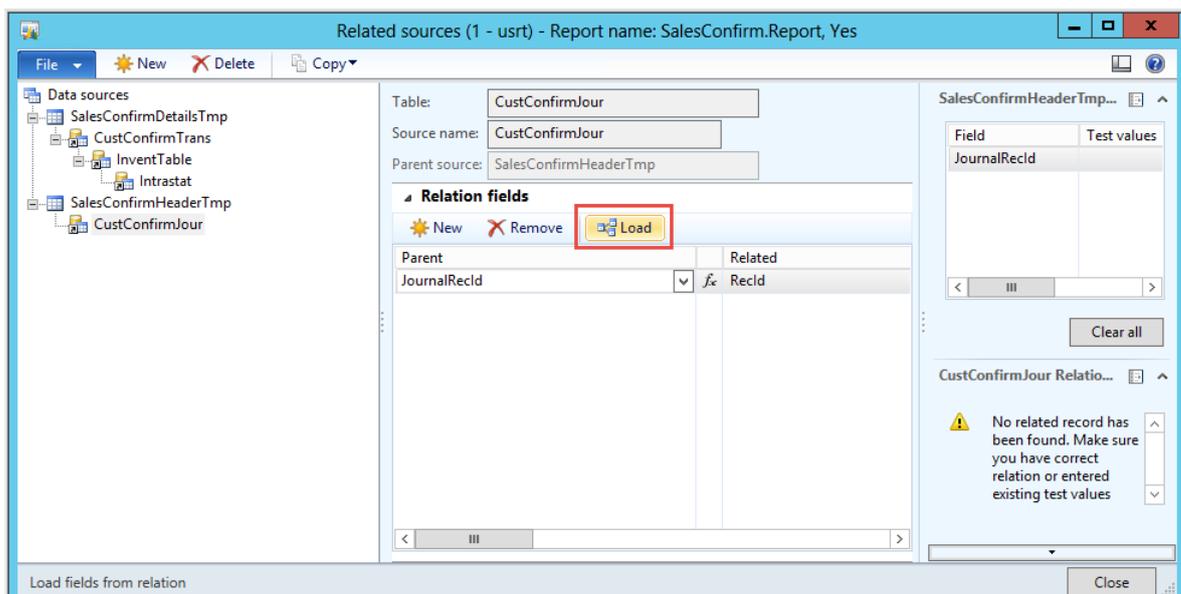
Table

Tables within the table lookup are now sorted alphabetical.



Load

Relation can be reloaded by using the **Load** button. This is very useful when same data sources needs to be added several times. When same data source are used several times it will complain about an already existing name which need to be changed. **Load** can then be used to reload/configure the relation.



Dialog setup

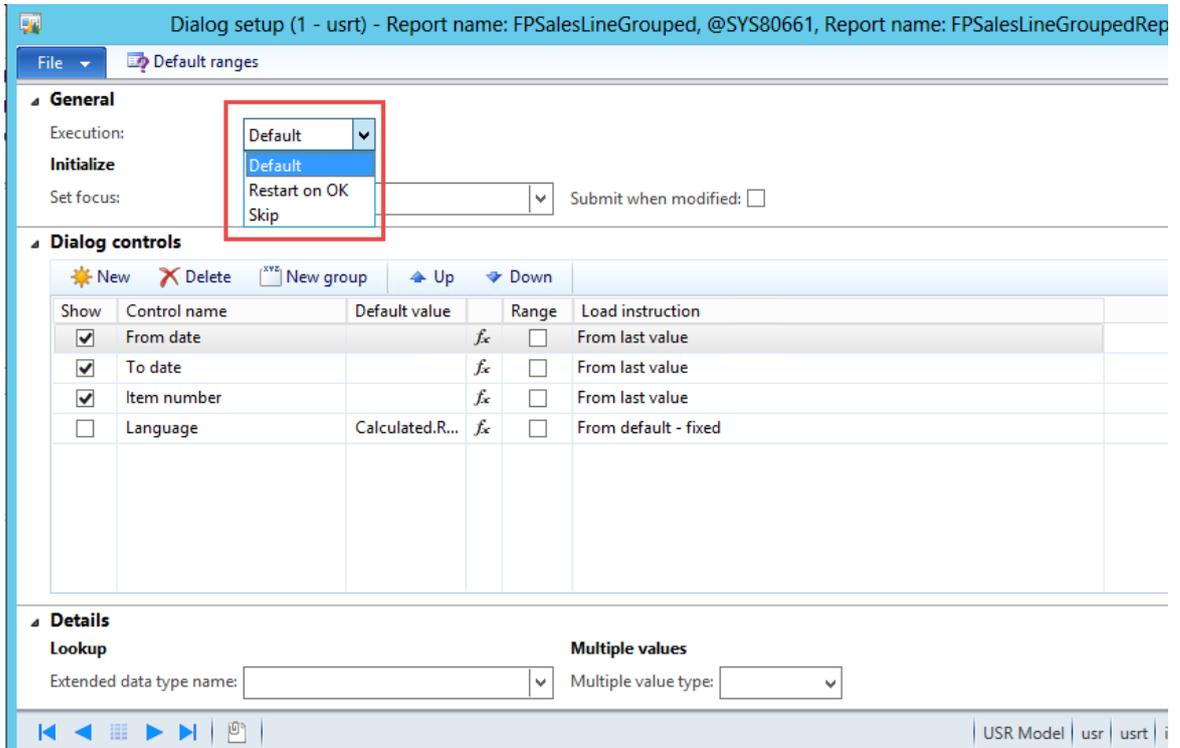
The dialog setup has been extended and it is now possible to make a “relation” between the metadata and changes to the application.

Execution:

Default The report dialog are shown every time the report are executed

Restart on OK The report dialog are automatically restarted after OK are selected within the report dialog

Skip The report dialog are not shown



Dialog setup (1 - usrt) - Report name: FPSalesLineGrouped, @SYS80661, Report name: FPSalesLineGroupedRep

File Default ranges

General

Execution: Default

Initialize

Set focus: Default Restart on OK Skip Submit when modified:

Dialog controls

New Delete New group Up Down

Show	Control name	Default value	Range	Load instruction
<input checked="" type="checkbox"/>	From date		fc	From last value
<input checked="" type="checkbox"/>	To date		fc	From last value
<input checked="" type="checkbox"/>	Item number		fc	From last value
<input type="checkbox"/>	Language	Calculated.R...	fc	From default - fixed

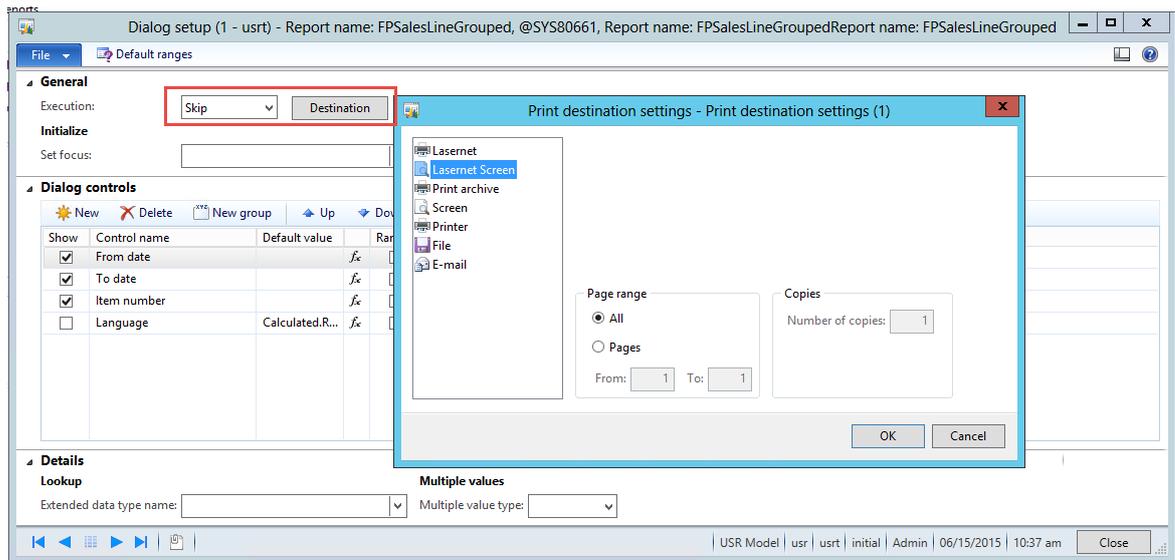
Details

Lookup **Multiple values**

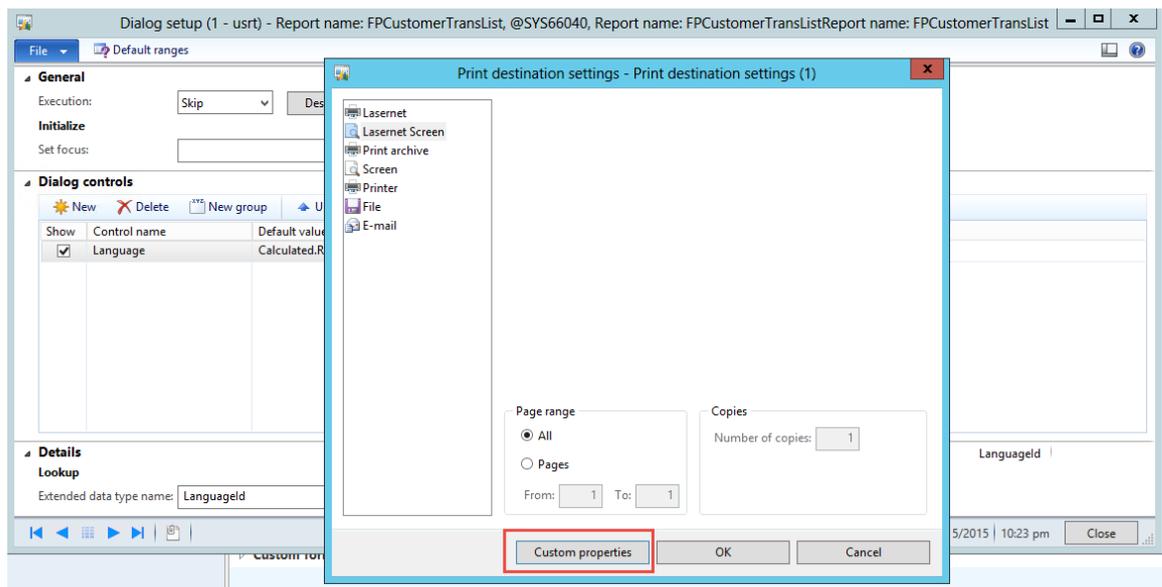
Extended data type name: Multiple value type:

USR Model | usr | usrt | i

Skip has been introduced to give the option to run reports without showing the report dialog. When **Skip** are selected it is possible to define the printer destination for the report.



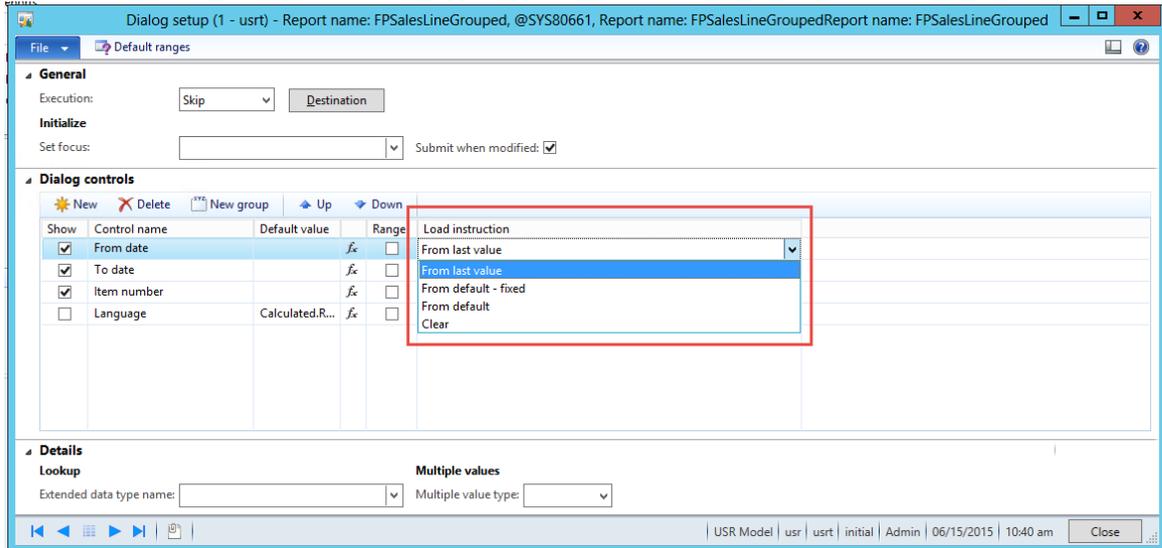
When **Skip** are selected within execution it is possible to configure any existing custom properties which will be added when the report are executed. Custom properties will only be shown if any are created within LAC2012.



Set focus Indicate which field should have focus.

Submit When modified will execute the report (like clicking ok) when the field gets modified.

Load Instruction indicate the default value for the field when report dialog are shown:



From last values

Always show the last value enter into the field

From default – fixed

Will always show the value defined within Default value and it is not possible to change the value. The field are locked.

From default

First time the values are shown from the Default value, but the value can be changed when executing the report.

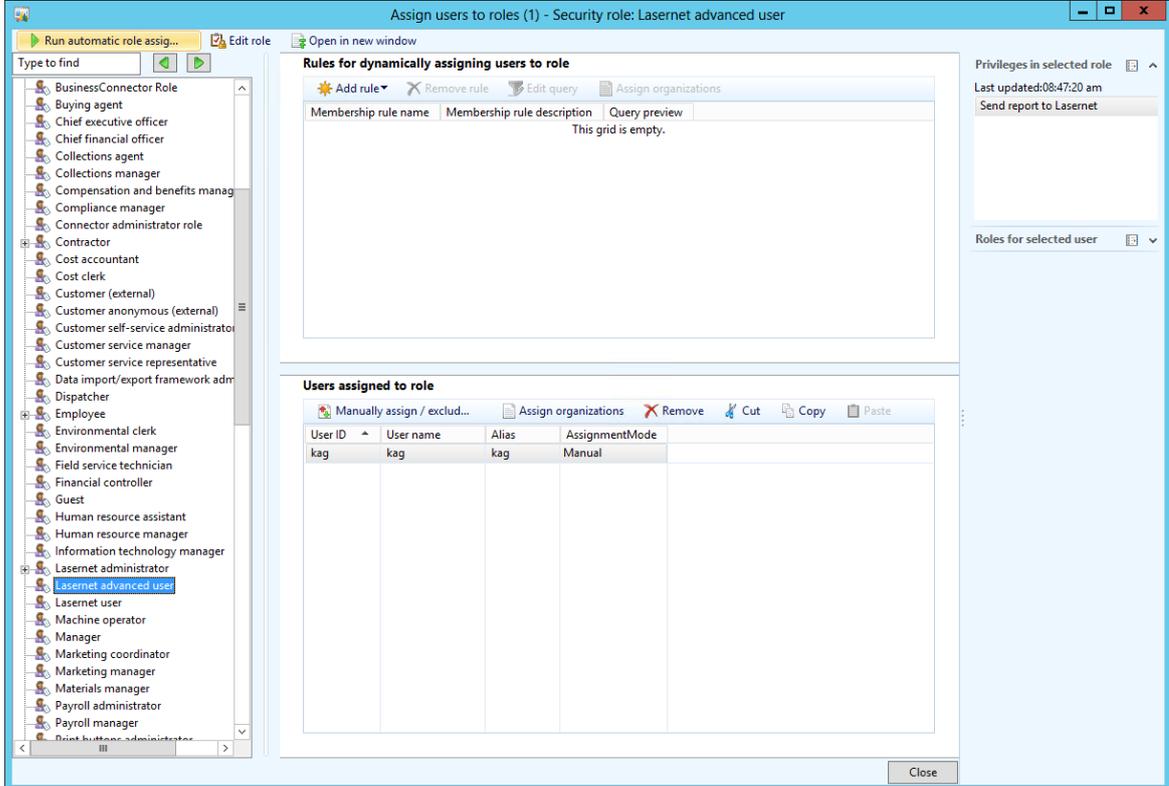
Clear

Empty/clear the value every time the report dialog are opened/shown.

It is possible to enrich the report dialog by extending a class within AX2012. Because of this feature, the report dialog within the connector can reuse any business logic by extended a class.

Security role / Lasernet advanced user

The role 'Laseret advanced user' has been added to give the option for none Laseret administrators (users not allowed to configure reports for Laseret) the option to select both the Laseret and Standard destinations (destinations for SSRS).



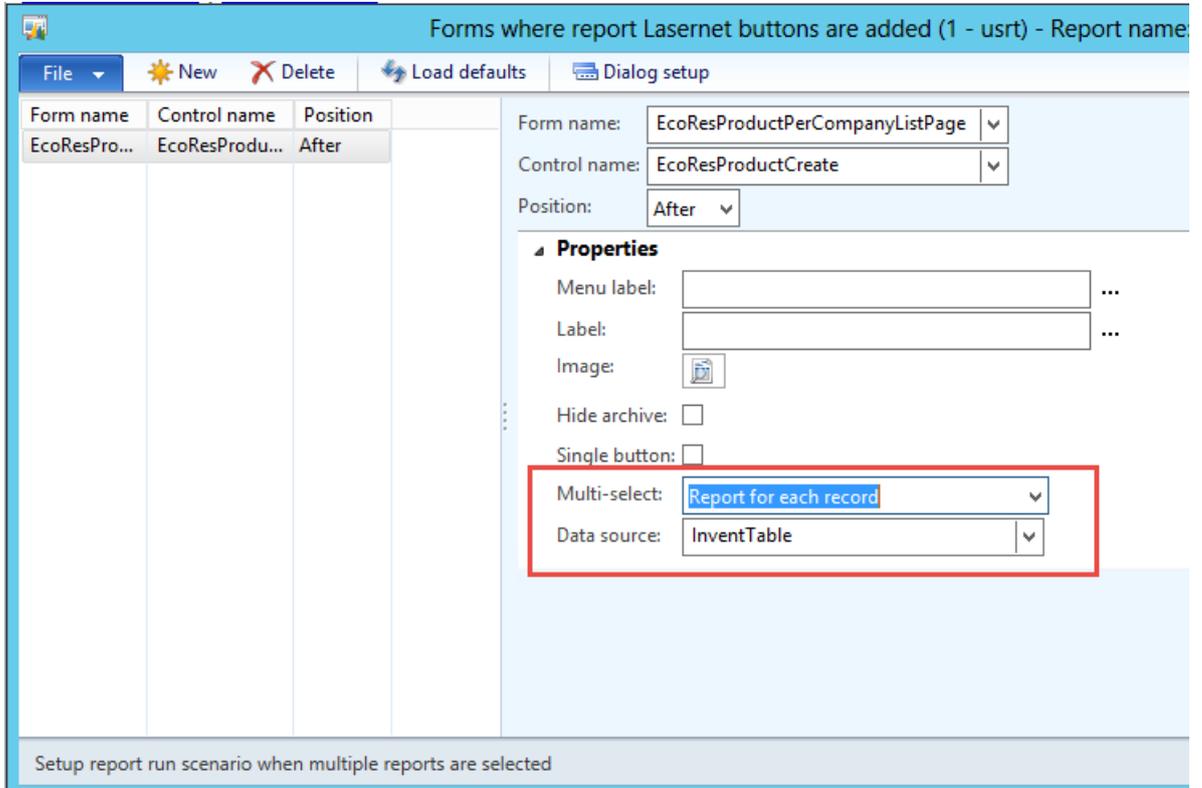
The screenshot shows the 'Assign users to roles (1) - Security role: Laseret advanced user' window. The interface includes a search bar, a list of roles on the left, and a central area for managing rules and users. The 'Users assigned to role' section contains the following table:

User ID	User name	Alias	AssignmentMode
kag	kag	kag	Manual

The right-hand panel shows 'Privileges in selected role' with 'Send report to Laseret' and 'Roles for selected user'.

Reprint in forms

When using multiselect on a form with more than one datasource it is possible to select the primary table used for the multi-selection.



The screenshot shows the 'Forms where report Lasernet buttons are added (1 - usrt) - Report name' configuration window. The interface includes a menu bar with 'File', 'New', 'Delete', 'Load defaults', and 'Dialog setup'. A table on the left lists configuration items:

Form name	Control name	Position
EcoResPro...	EcoResProdu...	After

The right-hand side displays the configuration for the selected item:

- Form name: EcoResProductPerCompanyListPage
- Control name: EcoResProductCreate
- Position: After

The **Properties** section includes:

- Menu label: [text box]
- Label: [text box]
- Image: [image icon]
- Hide archive:
- Single button:
- Multi-select:** Report for each record (highlighted with a red box)
- Data source: InventTable

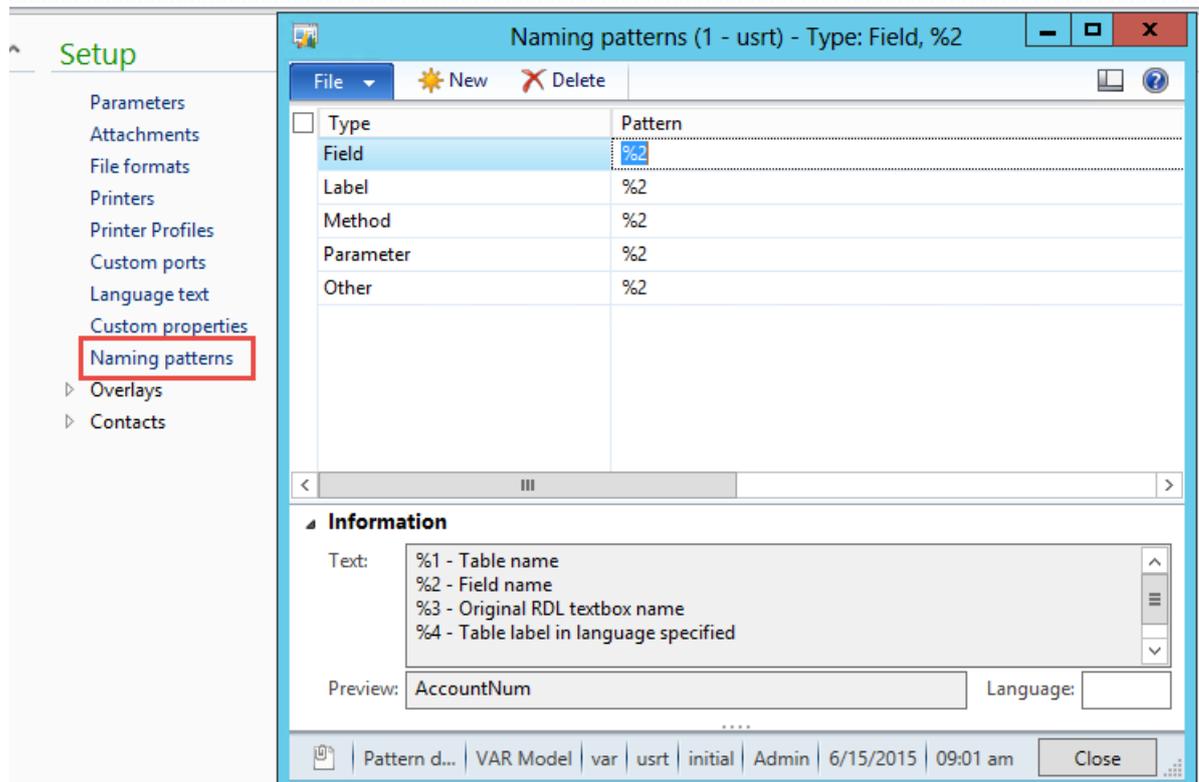
A status bar at the bottom reads: 'Setup report run scenario when multiple reports are selected'.

Naming patterns

In previous versions of the connector the fields was always prefix with the Tablename. By using the **Naming patterns** it is possible to define the behavior when reloading fields (also by using OneClick).

As example this can be useful when same naming would be liked to be used across different reports or if a report should be replaced by a query-report (report replacement)

Because of the same naming the same design can then be used within the Lasernet developer. **Naming patterns** are defined in general, but also for each report. It is possible to override the definition of the naming pattern on the report level.



Elements (1 - usrt) - Report name: SalesConfirm.Report, Report, Report name: SalesConfirm.Report

File Add section Remove section Move Copy Up Down Reload report fields Fix report **Naming patterns** Search

Report

- PageHeader
- table6
 - Detail_Collection
 - Detail
- table9
 - Detail_Collection
 - Detail
- table5
- table11
- table12
- PageFooter
- GenericSection

Section

Condition: None Name: PageHeader Output: PageHeader

Fields

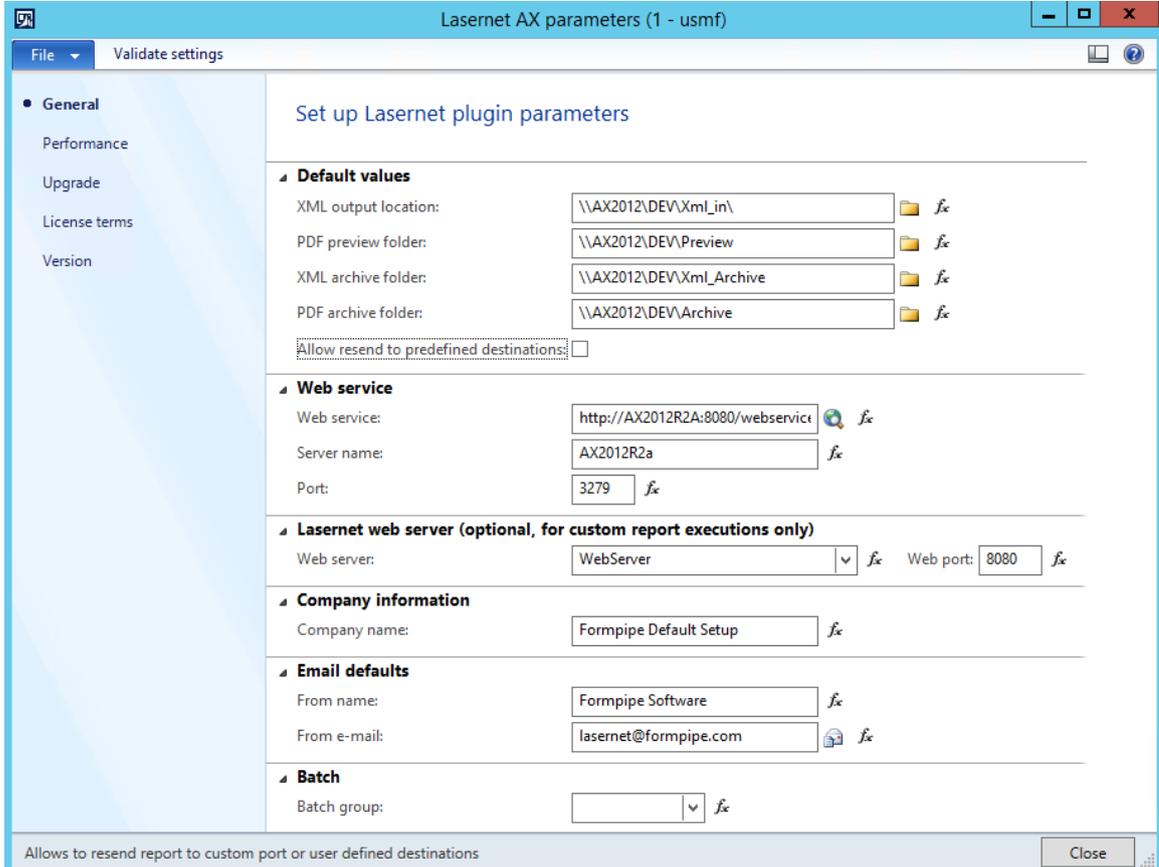
Condition	Name	Output	Expression	Type
None	textbox97	DeliveryAddress	SalesConfirmHeaderTmp.DeliveryAddress	String
None	textbox96	DeliveryName	SalesConfirmHeaderTmp.DeliveryName	String
None	textbox144	CompanyAddress	SalesConfirmHeaderTmp.CompanyAddr...	String
None	textbox175	CompanyName	SalesConfirmHeaderTmp.CompanyName	String
None	textbox178	Enterpriseregister_NO	SalesConfirmHeaderTmp.Enterpriseregist...	String
None	Textbox4	Textbox4	Label:Ship to:	String
None	textbox142	textbox142		String
None	textbox138	ConfirmDocNum	SalesConfirmHeaderTmp.ConfirmDocNu...	String
None	textbox101	ConfirmDate	SalesConfirmHeaderTmp.ConfirmDate	Date
None	textbox94	SalesId	SalesConfirmHeaderTmp.SalesId	String
None	textbox92	CustomerRef	SalesConfirmHeaderTmp.CustomerRef	String
None	textbox90	SalesAdministrator	SalesConfirmHeaderTmp.SalesAdminstr...	String
None	textbox88	PaymentCondition	SalesConfirmHeaderTmp.PaymentCondi...	VarSt...
None	textbox22	PurchaseOrder	SalesConfirmHeaderTmp.PurchaseOrder	String
None	textbox176	textbox176		String
None	textbox141	textbox141	Label:Number	String
None	textbox110	textbox110	Label:Date	String
None	textbox95	textbox95	Label:Sales order	String
None	textbox89	textbox89	Label:Payment	String
None	textbox85	textbox85	Label:Requisition	String

Details

Load report element structure from report RDL file in AOT

Parameters

Within the Lasernet parameters it is possible to select the value by using an expression. This are useful when the Lasetnet connector are configured as a virtual setup. As example the senders Email address could be different in different companies.



Lasernet AX parameters (1 - usmf)

File Validate settings

Set up Lasetnet plugin parameters

Default values

XML output location: \\AX2012\DEV\Xml_in\ *fx*

PDF preview folder: \\AX2012\DEV\Preview *fx*

XML archive folder: \\AX2012\DEV\Xml_Archive *fx*

PDF archive folder: \\AX2012\DEV\Archive *fx*

Allow resend to predefined destinations:

Web service

Web service: http://AX2012R2A:8080/webservice *fx*

Server name: AX2012R2a *fx*

Port: 3279 *fx*

Lasernet web server (optional, for custom report executions only)

Web server: WebServer *fx* Web port: 8080 *fx*

Company information

Company name: Formpipe Default Setup *fx*

Email defaults

From name: Formpipe Software *fx*

From e-mail: lasernet@formpipe.com *fx*

Batch

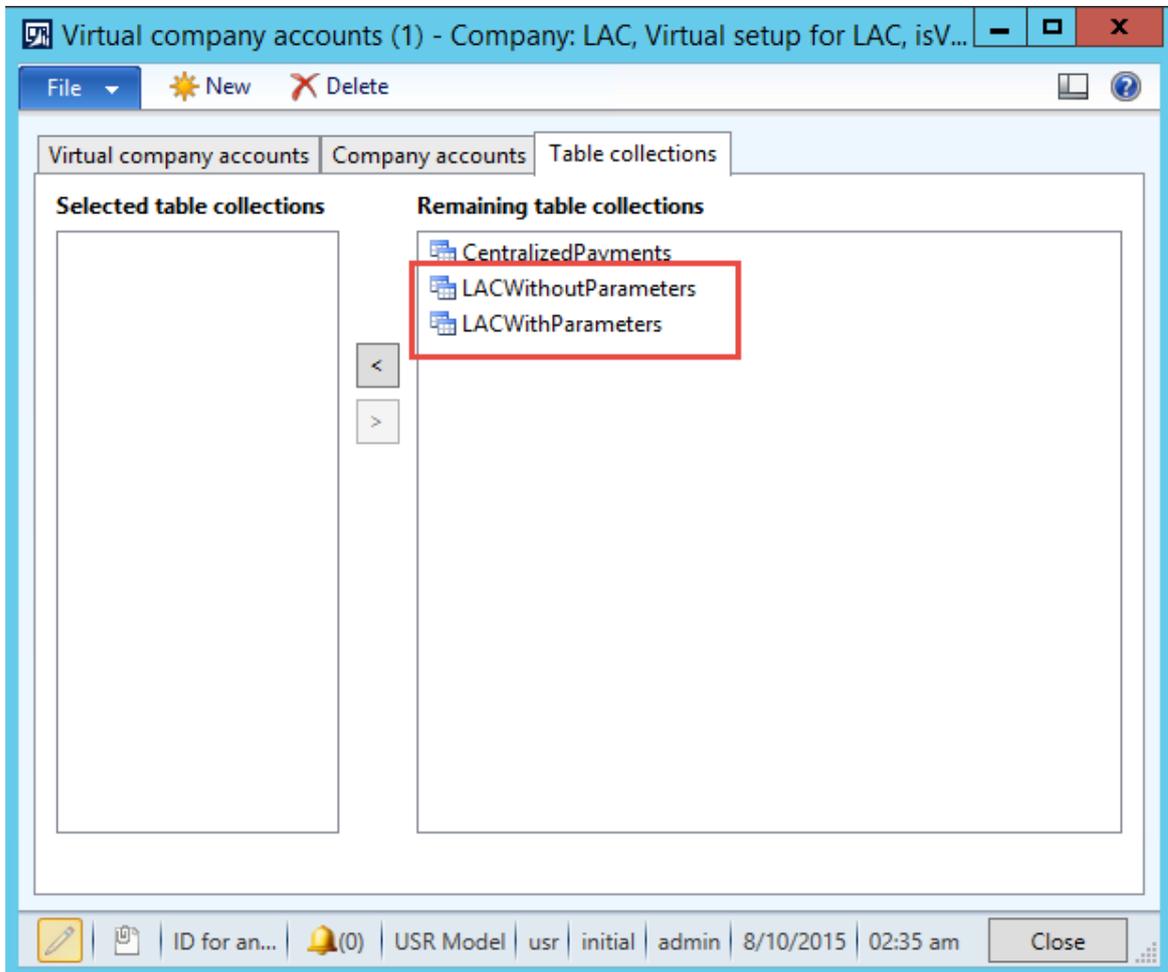
Batch group: *fx*

Allows to resend report to custom port or user defined destinations

Close

Table Collections

The table collections LACWithParameters and LACWithoutParameters is introduced for setup in a Virtual configuration. By using a table collection in the configuration there is no need to make export and import to make a change within many companies.



General / Enhancements

Manual archiving

New feature allowing manual archiving control from report print destination dialog.

CData element type

XML CData type sections are introduced for report elements. This new feature allows passing HTML formatted values to Lasernet

Naming patterns

Naming patterns is introduced for report element suggested name generation. Generic and report specific rules now can be created to generate element names

Better exception handling

Exception handling is revised to provide more information when errors appear.

Advanced user role

Lasernet advanced user role is introduced. This role allows users not only to print reports to LAsernet destinations, but also to AX standard destinations. Basically this role removes limitation to print only to LAC destination, when report is setup for LAsernet.

Aggregate functions

Aggregate functions is introduced in report elements. Aggregate functions like sum, count, running count and running sum are introduced. Also summary aggregates and group summarization is enabled in report elements. That opens up more possibilities for report value calculations.

Query based report multi-run data source name

Due to some issues on more complex forms, multi run data source name is introduced for query based report execution setup. Now it's possible to specify what data source in form should be used for multi-run report.

Expressions on report elements

Expressions is introduced in report element value calculations. This opens up a lot of new possibilities on report element value control, parameter value generation and etc. Aggregate functions like 'running Count' and 'running Sum' are enabled in Expressions as well.

Query based report performance tuning

Query based report performance is increased. Extensive process tuning and modifications led up to 2x faster query based report execution.

Default destination info node generation

New method generating default destination information XML node is introduced.

Copy related sources

Copy function is added to related sources. New function allows copy related data sources trees from one report to another, automatically updating all necessary relations and fields.

Copy report elements with value source replacement

Copy function for report element has been enhanced, allowing replacement of value sources when copying to another report.

Archive performance tuning

Archive was suffering from bad performance due to limited possibilities in data structure. New much better performing data structure has been created for archive, splitting reference and file data into separate tables. Indexes were optimized for maximum

performance. Also upgrade automation process has been created to help migrating old archive data into new structure.

Report section lookup with search

Report section lookup dialog now has search functionality.

Sorting report elements by value expression

Report elements is now sorted by value expression display value.

Language text exporting introduced

It is now possible to control language text exporting.

Payment advice report split per account

Used as workaround for some customers now introduced in LAC module – splits payment advice report per customer/vendor account.

Preview format

Preview format is introduced. This new feature allows preview report in other formats like DOCX, XLSX, MSG, TXT and etc. Preview format can be set exclusively for report, or modified in printer settings dialog.

Forcing report to run in specific language

New control allowing report execution forced execution in specific language. This allow run reports in specified language regardless of its original language.

Parameters with expressions

Expressions were introduced for pretty much all parameter fields. That opens up more dynamic configuration and scaling possibilities for the Lasernet connector.

Code quality update

Overall code quality reviewed and most object were tuned to meet compiler Level 4 requirements. Full XML documentation is written for LAC module. Also module is checked and optimized using Microsoft Life Cycle services customization analysis.

Query based report dialog automation

Additional features added to control query based report dialog. Now dialog can run in silent mode with predefined printer settings. Also it can auto submit itself when certain field is modified, auto focus on specified field, reopen itself after report is printed and etc.

Custom code upgrades and API

Custom code class and query based report execution classes are now open for extensions. There are endless possibilities to customize your report using core LAC classes, and extending them. Now they are designed to support extensions and different scenarios.

Fix wizard formulas auto replacement

Fix wizard now updates formulas in copied elements to support referenced report items. This brings any report fixing worry-free experience.

Fetching information from contact person contact information

There was possibility to get contact information query from customer, but no option to get contact information from contact persons. This option are added.

Bug fixes

Query preview

Error was thrown on query criteria preview with multiple data sources. Problem was generating the same control names for preview. Name generation function has been updated in `LACQueryPreview.generateControlName()`

GIRO report execution

GIRO report was required to be mapped in Lasernet, to be able to process it when using web service preview.

One click add to report data type initialization

Data type was not initialized when adding field to report using one click function. Also number of decimals now is initialized

Missing some relations in related sources

When loading related tables for InventTable, - DocuRef table was missing. Error was that foreign relations were not loaded in lookup.

Query wizard created fields switching to BLOB (Base64 File)

If you change data type of query wizard created field to BLOB, - it is still not getting encoded. Query service was not supporting this feature. Now it's added and works the same way as with custom added fields.

ParameterInfo and language text resolve method

Error was produced when report source query did not had query name specified. Along the way language text resolve was fixed for long texts.

Related with Related Sources not initialized on destinations

Example of problem: printer name is not fetched from related data source when initializing destination.

Renaming referenced controls in RDL page header/footer

Fixes report fix wizard problem related to ReportItems! In page header footer that is copied to body section. Previously these items were not renamed and that caused error when deploying, as they were referencing control names in original page header/footer, rather than to a copy inside RDL body.

PSAProjInvoice parmUseUserDefinedDestinations parameter problem

PSAProjInvoice was setting `parmUseUserDefinedDestinations` to TRUE when printing to screen copy/original. That is different from all other reports where this parameter is set to FALSE in such cases. This fix changes this parameter to the default setting in AX2012.

Max license users

Now maximum number of users available is 8388607 (a little above 8 millions) – previous version was 32767.

Query based report custom relation fields

When creating custom report with query wizard, custom relation fields where not filled correctly, and was ignored afterwards.

Reprint form setup defaults update

It adds a few previously missing controls in default report reprint form setup.

Range lock updates on query-based reports

Ranges remain locked if query contains last value, where ranges where locked.

Cheque printing setup fix

In order to setup Cheque_US report for printing, there was required setup of VendPaymRefReport_BE report.

Enabling Document types in attachments

Document types were not possible to setup and file name was corrupted in the attachments.

Report setup last values

If last value loaded on report name finder, and report was not setup for Lasernet – it was still possible to select the LAC2012 destination. LAC2012 destination has to be explicitly disabled when no report setup found.

Query range lock and container fields in lookup

Fixes problems with locking ranges on dialogs of query based reports. Also allows to select container field for table in Formula fields.

Sort style sheet update

Due to not linear processing of some reports XML, some elements was processed in the middle of node attribute processing, throwing “Attribute and namespace node cannot be added to the parent element after a text, comment, pi or sub-element node has already been added.” Exception. Fix was separating attribute and element templates and processing node attributes first, and then processing node elements.

Additional fix for sub-report initialization

Sub-report parameters map was not initialized when trying to get DynamicId. This hotfix add sub-report parameters initialization.

Range locks additional fix and relation fixed field fix in query wizard

Fixes range locks in query based report execution. Also loading query relations in query wizard was faulty when one of fields was fixed.

Disappearing range list in query wizard

Disappearing range list in query wizard when loaded second time.

RDL ReportItems references update in fix wizard

Fixes some problems with ReportItems references update when copying Page header/footer to report body.

Item image missing in query wizard

DateTime image was missing on fields in query wizard

Related table lookup sorting by name

Tables was not sorted by name, when looking up for related tables.

Dot (.) was not possible in overlay file name generation

Enables . (dot) in overlay name generation.

Silent auto-fix while importing

Auto fixing when importing data. Problem was the tree control which was not initialized, and that was required to make successful fix after import.

Sample value in overlay or file name

It fixes small problem with empty sampleValue on FileName or Overlay

Import update problem fix

Import was deleting all data related to report. This was due to delete actions invoked during report delete procedure. Please note that database logging should not be enabled on LACReport for this to work, as database logging on specific table modifies skipDeleteActions() method by ignoring it. This is known issue with AX2012

Error on validating reports

Error: "An error occurred while parsing EntityName. Line 1, postion 22." Was occurring when validating reports.

Run time data update after related sources modification

Run time data was not updated when modifying related sources.

Replacement lookup too strict

Replacement report lookup method was filtering out too many reports.

VendOutPaym_Cheque configuration for Lasernet

Due to problems with report name finding it was not possible to configure VendOutPaym_Cheque for Lasetnet.

Related sources preview initialization

Value sources was not initialized properly in related sources preview form.

Related sources validation after import, missing parent table

Records was not shown in related sources tree if error was found in related sources relation or if parent table was missing.

Custom numeric format with fixed decimal

It was not possible to specify custom numeric format with fixed decimal.

SalesInvoice posting updates in R1CU7

Sales invoice report data was not initialized correctly in AX2012 R1CU7 version

CLR to Anytype crash

When caching compiled XSL an error was thrown while converting CLR into anytype.

GIRO update on execution info passing

On certain conditions GIRO report was not returning execution info and failing to merge with main report.

PSAProjInvoice default relations

Default relations were missing for PSAProjInvoice report

Report value lookup error

When looking up for report value, error was thrown due to missing segment index.

Empty values regional settings script to crash

Empty values were causing regional settings script to crash

Custom date format crash

Custom date format was crashing on certain conditions.

Missing data from execution info

Some data about report printout status was missing on report contract.

Parameter info crashing on missing data source

Parameter info generation was crashing when nodes was initialized in inner context.

One click add controller not fully initialized

There was missing update for value calculation controller in one click value add dialog.

Change sequence error

In certain conditions, change sequence was producing error.

Compiled XSL caching

Compiled XSL caching was producing errors for some AOS'es. Try and catch was added to avoid errors in caching.

Query based report label performance

Added single label resolve call in query based report buildup.

UTCDateTime conversion problem

There was wrong UTC date time conversion to string for some languages.

Query reports in batch

Query reports did not had access to multi record data when running in batch.

CLR object not initialized in value controller

When running in batch RegEx object was not initialized due to permission problems.

Controller initialization on event handler

Controller object was not always initialized on event handler in LACUtils.SRSReportRunController_startupOperation.

Query based sub-report does not return data

Query based sub-report was returning empty string under certain conditions.

File preview when it's accessible only from AOS

Under some configurations it was not possible to preview files only accessible from AOS side.

File log tts error

File log was locking table in certain conditions. User session and better tts control was added.

Long method names in query wizard

Long method names was cut in query wizard.

Query based report preview

Query based report preview was not possible due to an issue in the report contract data.

Resending replacement report controller pack validation

When resending replacement report controller pack was not validated properly before execution.

Email Fn buttons on forced report

Fn buttons had to be disabled on email resending, when force resend was not used.

Failed initialize related sources main preview

Object was not initialized when using related sources main preview

Query report replacement initialization

Replacement report section initialization was required value sources to initialize properly.

Related sources new button

Related sources new button was enabled when it was supposed to be disabled.

Custom format bulk initialization for query based reports

Custom format was not initialized properly when generating query based report.

Report replacement archiving issues

On certain conditions, report replacement was not archived properly.

Multi run report rerun with all form data

Query based reports did not had all data for rerun with multi run data from caller form.
