

SAS®Marketing Operations Management 6.0 R14 Update 1

What's New Document



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SAS® Marketing Operations Management 6.0 R14 Update 1: What's New Document

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Features Document for 6.0 R14 Update 01

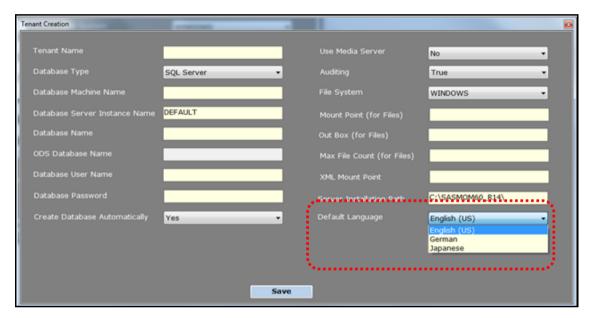
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1.1 Internationalization and Localization (pre-production)

R14 Update 1 provides a significant set of functionality to deliver internationalization support. This provides the foundation to enable the product to be adapted to various languages and regions so companies can implement a version of MOM in a language other than English. The internationalization support in this release can be characterized as being at a pre-production level, as additional functionality for production-level support will be delivered in a subsequent release.

In addition to the initial internationalization functionality, R14 Update 1 also provides localized Japanese and German versions. Japanese version has been labeled as production level based on the linguistic support present. German version is labeled as a pre-production level. We expect to add support for other languages in subsequent releases.

For R14 Update 1, MOM supports a single language per instance or tenant. This means that all users within a MOM instance will access the application in the same language. The language selection is configured during the tenant creation.



1.1.1 What's in scope for this relese

The following is an overview of functionality that will appear in a localized lanaguage in this release:

- Login page
- Navigation pane items, list labels, and button names



Form labels



Number formats based on selected language



Date formats based on selected language



- Notifications
- Standard reports list categories, names, and descriptions
- Status values for standard entities, such as Activity status



• Standard reports – labels, date formats, number formats, and standard entity status values

1.1.2 What's not in scope for this release

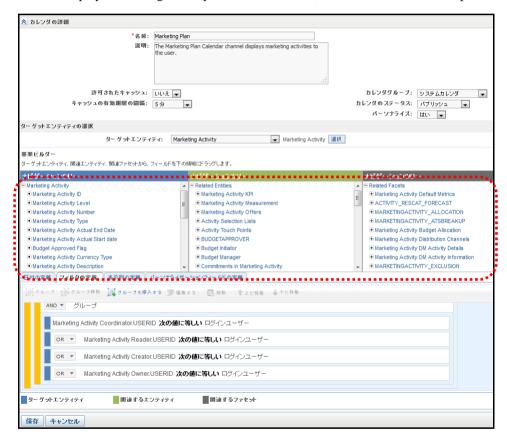
The following is an overview of internationalization limitations in R14 Update 1:

- Operating System is English only
- Installation and configuration will be English only
- Full support for multiple languages within single instance/tenant not supported
- Database in English only schema names (tables, fields, relationship names, etc.) must be in English



• Audit reports will contain some statements in English only

• Schema display text in English only – used in calendars, dashboards, and ad hoc reports



• Dashboard administration – dashboard names & description, page names & description, and predefined channel names & descriptions in English only





- Error logs in English only
- System errors in English only

1.2 Performance & Stability

R14 Update 1 builds upon the performance improvements in R14 by further improving application response times. The specific improvements are as follows:

1.2.1 Improved response time for on-screen calendar display and export to PDF

Code changes related to the performance for Gantt View's display have been completed. The new code changes are now using single class to generate the hierarchy and Calendar bars. This has reduced the processing time for displaying individual item in left and right panes.

The Gantt chart calendar shows items expanded by default to 3rd level. An 'Expand All' button allows you to expand the complete hierarchy.

Calendar Performance Tests					
		Time to Load		Data volumes range for testing	
		New Code		Old Code	1 month = 500 - 1500 activities
Calendar names	Time Period	SAS Machine	Customer Machine	Customer Machine	3 months = 1500 - 4000 activities
<customer> Group AFS</customer>	1 month	0m 13s	0m 16s	0m 41s	
	3 month	0m 20s	0m 21s	2m 12s	Customer Machine Specs
Consumer	1 month	1m 32s	1m 51s	>15m	Browser IE 8.0.6001.18702
	3 month	2m 33s	2m 41s	> 20m	Flash Player 10.1.53.64
Banking Group	1 month	0m 31s	0m 39s	2m 30s	
	3 month	0m 56s	1m 13s	>10m	SAS Machine Specs
Bank of <x></x>	1 month	0m 13s	0m 18s	0m 36s	Browser IE 8.0.6001.18702
	3 month	0m 20s	0m 23s	1m 30s	Flash Player 11.3.300.265
Business	1 month	0m 6s	0m 06s	0m 25s	
	3 month	0m 8s	0m 09s	0m 49s	
<x> Consumer</x>	1 month	0m 32s	0m 33s	>5m	
	3 month	0m 50s	0m 51s	>10m	

For PDF generation from the Calendar, with the help of a new PNG encoder (PNGEncoder2) for bitmap to PNG conversion, a PDF report is generated within 48 Seconds which was taking 05 Min 40 Sec previously.

There is a limit on the number of activities that may be exported to PDF. The limit is 1500 activities. Exporting a PDF for more than 1500 activities from Gantt view gives a message of limitation on number of activities which can be exported.

1.2.2 Dashboard service performance changes

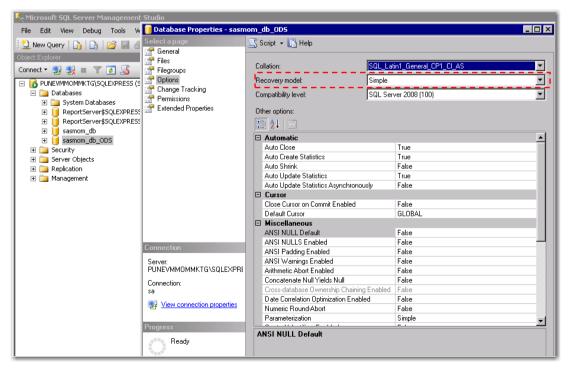
The Dashboard display service which used to take about 40 seconds for 1000 records while generating hierarchy, now takes approximately 3 seconds.

1.2.3 Achieving Stability in High Load, High Concurrency Environment

- Restructuring database access code to reduce the time required for transactions This change drastically reduced number of deadlock exceptions logged during in a 50 user load runner test with no think time.
- Use of in-memory XML modifications to manage concurrent access of files.
- Improvements of XML file operation transactions.
- 4. Refined transaction management Includes selective use of Distributed Transaction Coordinator and a database setting for transaction isolation for reducing deadlocks
- Optimized use of Memory when fetching large amount of data Memory usage for fetching 100 MB data was brought down from 2.2 GB to 200 MB
- Parameterization of all queries in MOM to maximize reuse of cached query plans 6.
- Reduction in database hits for looking up object metadata by ensuring all lookups happen from cache 7.
- Optimized handling of Cataloger jobs in Queue Manager service—Resource consumption brought down from 1.5 GB to 50 MB
- Optimized Session management by caching the session data and reducing frequency of database updates for session refresh
- 10. Elimination of frequent loading of tenant XML by performing the lookup from cached copy
- 11. Optimization of time required to add attributes to facets Time taken to update facet was reduced from minutes in double digits to few seconds
- 12. Minimization of session creation by Windows services Text Cataloger service
- 13. Reduction of time taken to display Perform List screen when the list is large
- 14. Optimization of stored procedure for Plan User Access report
- 15. Reduction of Memory consumption for ad-hoc reports transactions

1.2.4 Database Recommendation for ODS

Database recovery model to be set as "Simple" mode rather than "Full" mode to minimize the growth of ODS log files in the ODS database.

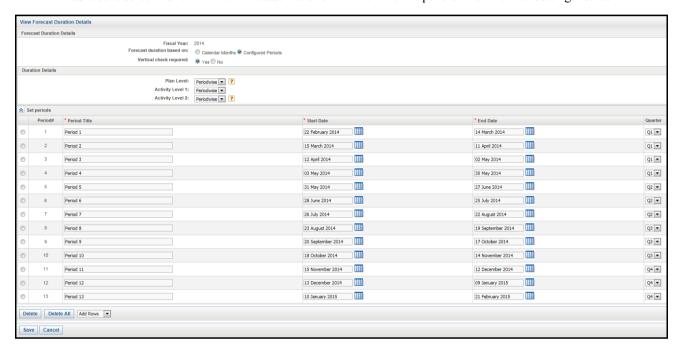


1.3 Strategic Planner

1.3.1 Flexible Periods for Budget Forecasting

The MOM R14 release introduced functionality for forecasting according to configurable periods in addition to the standard calendar months orientation. For example, some retailers use 13 defined periods instead of 12 months for fiscal year planning. R14 Update 1 extends the flexible planning functionality in R14 by adding the following enhancements:

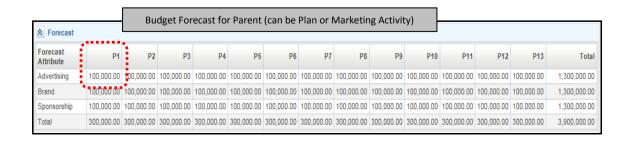
• Admin user interface for configuring periods in a fiscal year: Go to 'Planner Admin' from the left on the Dashboard screen. Click on the 'Forecast Duration' link on the left pane of the 'Planner Settings' screen.

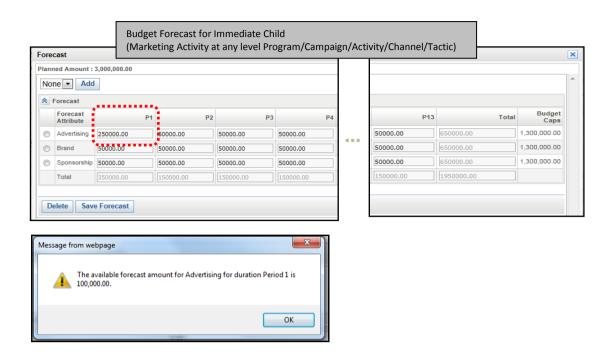


For each fiscal year, the admin can select either a 'Calendar Months' or 'Configured Periods' orientation. With a period-wise configuration, the periods can be defined with associated start and end dates and quarters.

- Validation to ensure that forecast for each period does not exceed the parent level amount for the same period. The validation is performed in two areas:
 - The forecasted amount allocated for the attribute at child level (like Marketing Activity- any level) for a specific duration should not be greater than the forecasted amount configured at immediate parent level (can be Plan or Marketing Activity) for the same attribute and duration.
 - The forecasted amount allocated for the attribute at parent level (like Plan or Marketing Activity- any level) for a specific duration should not be less than the forecasted amount configured at immediate child level (Marketing Activity) for the same attribute and duration.

The system displays an error message if there is a problem with the validation. Below is an example to illustrate the validation.

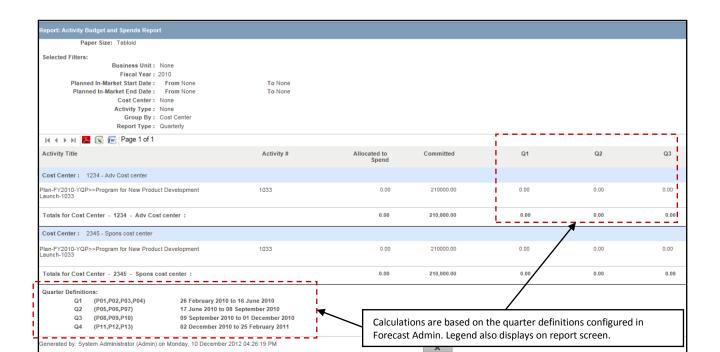




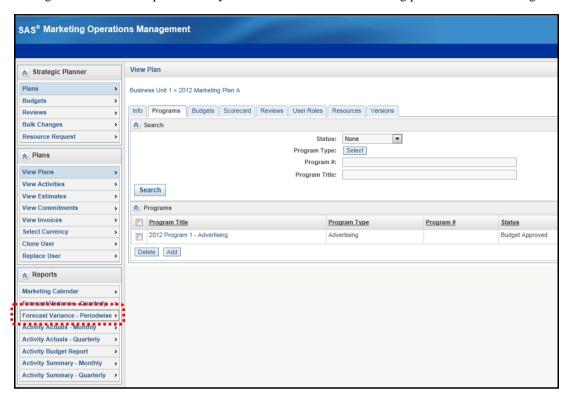
Existing standard reports in Planner that display a quarterly view of data have been modified to comply with quarterly definitions for configured periods in the Forecast Admin user interface. In addition, all quarterly reports display the quarter definitions with associated periods and dates for reference.

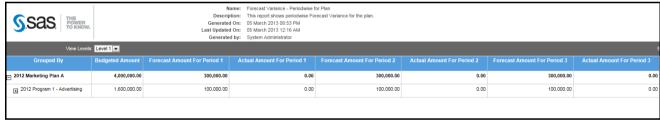
The following standard SAS MOM reports display data according to defined quarters:

- Activity Budgets and Spend
- Activity Actuals
- Financial Account Spend
- Recovery Sheet 4.
- **Activity Summary**
- Forecast Variance

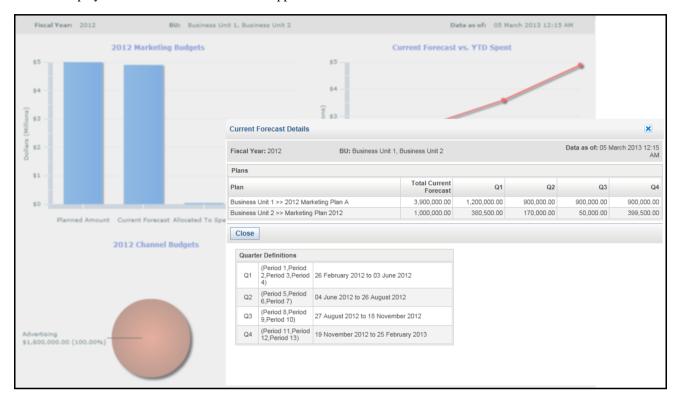


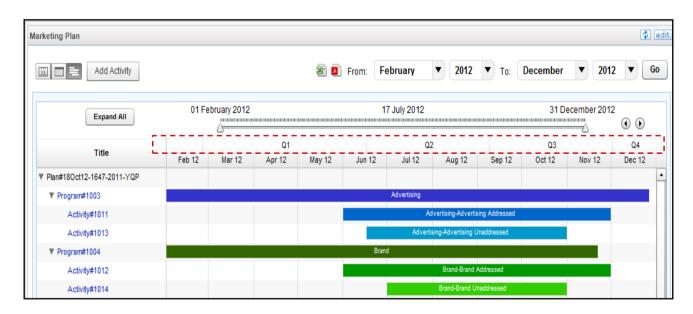
A new embedded ad-hoc report for Forecast Variance by period has been added to the left navigation pane in Strategic Planner. This report will only be accessible for customers using period-wise forecasting functionality.

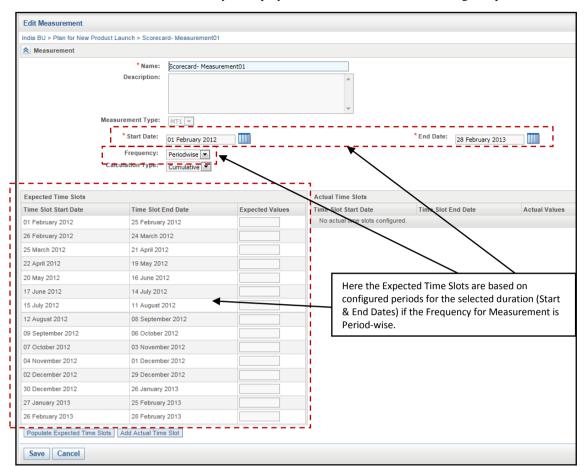




Dashboards and Calendar Gantt Views that present a quarterly view of data now display data according to the
period and quarter definitions configured in the Forecast Admin user interface. Quarter definitions also are
displayed when users drill into data on applicable dashboards.





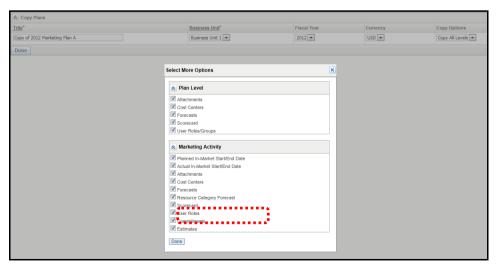


Scorecards now have the ability to display measurement time slots according to a period-wise configuration.

1.3.2 Resource Category Forecasts

The MOM R14 release introduced functionality for viewing Resource Category Forecasts and rollups for plans and activities directly in Strategic Planner. R14 Update 1 adds the following enhancements to the Resource Category Forecasts in Planner functionality:

The 'Copy Plan' capability allows you to easily create a new plan based on an existing plan. When you copy a plan, you now have the option to copy Resource Category Forecast data in addition to other plan information.



 When you create saved versions of plans and activities, the saved versions will now include Resource Category Forecast and rollup data.

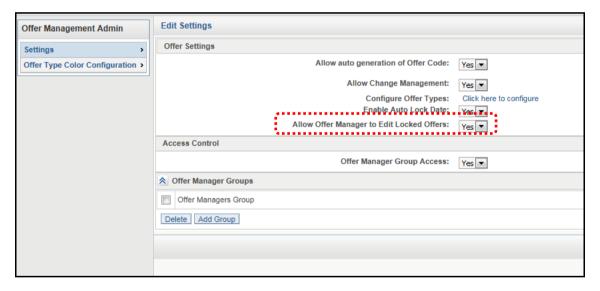
1.4 Offer Management

1.4.1 Editing Locked Offers

Many marketing organizations need to be able to create and track a large number of offers used in various promotions. The Offer Management module in MOM enables marketing organizations to efficiently manage all marketing offers in a central, searchable repository. The offers can be stored with all relevant details and published via Offer Calendars to ensure broad visibility to all relevant stakeholders within the organization.

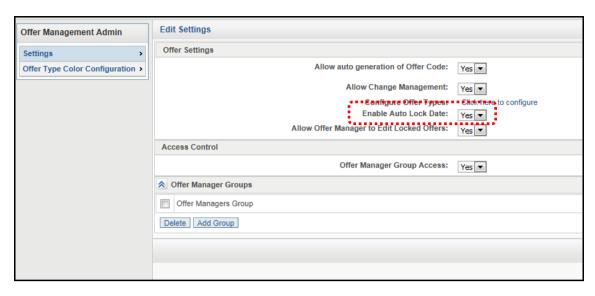
Within the Offer Management module, Offer Managers can "lock" offers to prevent further changes to an offer after creation. This gives Offer Managers sufficient control to ensure that no unwanted changes are made to offers prior to or during the in-market dates. Prior to this release, locking an offer prevented any edits by any users. R14 Update 1 enhances the locking capabilities by providing the flexibility to configure the system to allow Offer Managers to edit locked offers. This capability applies to users specifically assigned to an Offer Manager group in the Admin user interface. To do so follow the instructions below:

- 1. Go to the 'Offer Management Admin' via the left pane of the Dashboard screen.
- On the Settings screen of the Offer Management admin click on the 'Edit' button on the extreme right corner of the screen. The settings can then be edited.
- 3. Select 'Yes' for the 'Allow Offer Manager to Edit Locked Offers' setting.



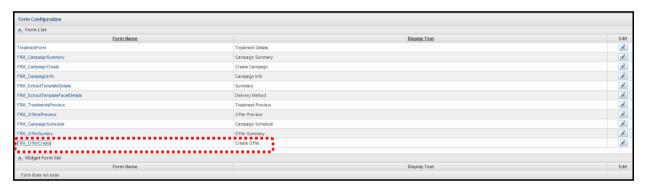
1.4.2 Auto lock offers on defined date

As described above, the Offer Management module enables offers to be locked to prevent unwanted changes prior to or during in-market dates. Prior to this release, offers could only be locked manually by selecting one or more offers and clicking the 'Lock' button. R14 Update 1 enhances the locking functionality by enabling administrators to configure the setting of an auto lock date based on the 'Offer Valid From' date. For example, as a best practice, a company may choose to auto lock offers two weeks before the date the offer goes live in the market.

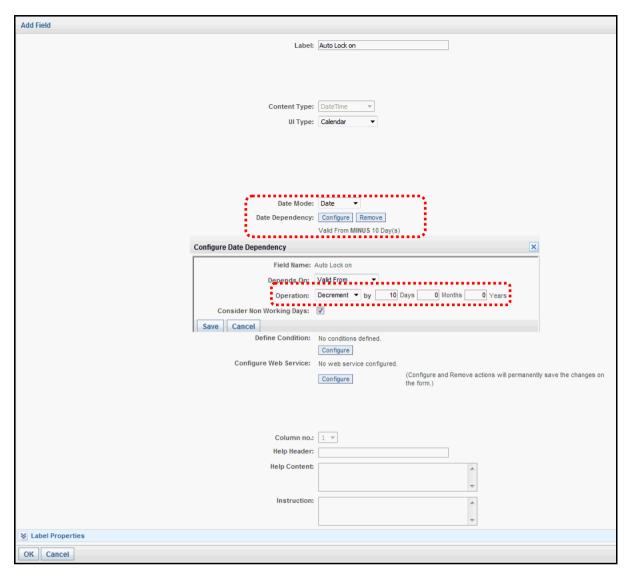


The default date for the auto lock is set to 10 days prior to the 'Valid From' date. To configure this follow the steps below:

- Go to the 'UI Framework' on the left pane under Configuration of the Dashboard screen. A new window with the solution list will be displayed.
- Click on the 'Campaign Manager' link to see the form list. 2.

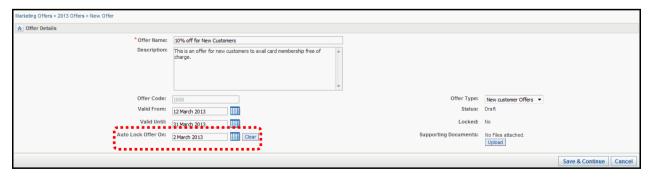


- Click on the 'FRM_OfferCreate' link.
- The form details are displayed. Click on the pencil icon next to the 'Auto Lock Offer On' field to view the field details.



5. On the 'Add Field' screen the date dependency can be configured by clicking on the 'Configure' button. A 'Configure Date Dependency popup is displayed. Edit the 'Operation' field to suit your requirements.

If the above feature is switched on then an end user can enter the 'Auto Lock Offer On' date while creating or modifying the offer. The default date is what is set by the admin (See above). This can be edited. The offer gets locked on this date automatically. Only the Offer Manager can edit the offer after it is locked.

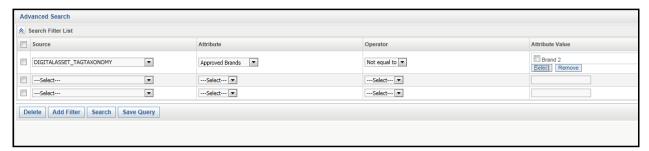


1.5 Digital Asset Management

1.5.1 Additional Support for 'Not Equal to' Operator in Advanced Search

The Digital Asset Management (DAM) module has advanced search capabilities to enable users to quickly find assets based on search parameters. The advanced search option allows users to define filter expressions by selecting attributes, operators (such as contains, equal to), and values. R14 Update 1 enhances the advanced search capabilities by adding support for the 'Not equal to' operator for multi-select fields. Consider the following example to illustrate a use case for this functionality.

A company has defined a metadata field called 'Approved brands' to select the approved brands that can use a digital asset. Because multiple brands can be approved for an asset. 'Approved brands' is set up as a multiselect field. An end-user then would like to get a list of assets approved for all brands except brand 2. The user constructs a filter for 'Approved brands NOT EQUAL TO brand 2'.



1.5.2 Include Asset Description in Excel batch cataloging tool

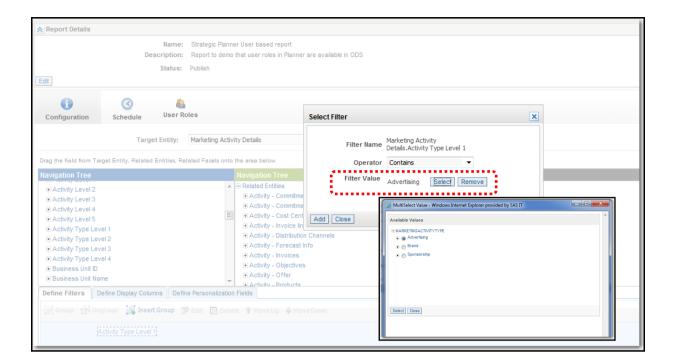
To enable efficient cataloging of multiple assets, the DAM module includes functionality to upload multiple files en masse via an Excel batch cataloging tool. The Excel sheet enables users to catalog assets along with associated metadata. The Excel sheet is enhanced in R14 Update 1 by adding support for the asset description field.

Note: This enhancement only applies to the Windows macro – without dialog (excel sheet for batch cataloging).

1.6 Ad-Hoc Reports

1.6.1 Show Named Hierarchy Values in Ad-hoc Report Filters

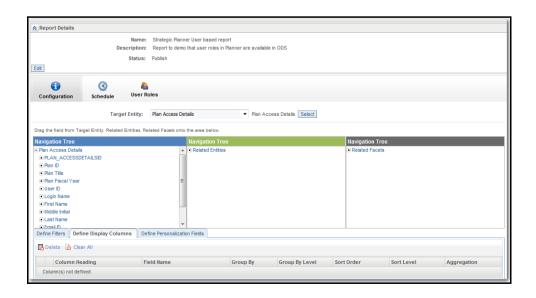
When creating ad-hoc reports, users can define filters to customize the data included in the report. R14 Update 1 enhances the filter user experience by displaying the values available for selection for fields with named hierarchy values. For example, you might want to create a report showing all activities of type 'Advertising'. When you define the filter, the user interface for selecting filter values displays all available activity types so you can easily select 'Advertising'.



1.6.2 More data available for Ad-hoc reporting

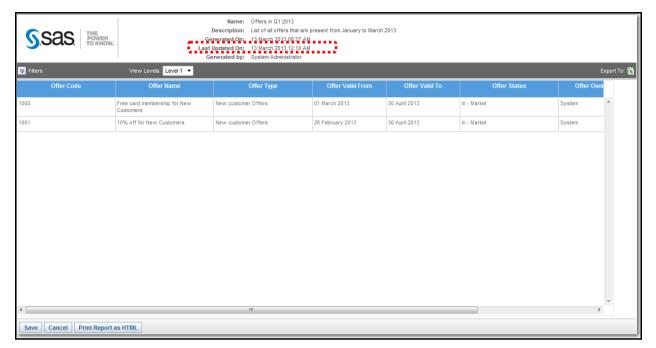
The Ad-hoc reporting tool pulls data from an Operational Data Store (ODS) that is specifically designed for ease of reporting. In the past few releases, the ODS has been enhanced to include more information from the MOM database, and we expect to continue to make more data available in the ODS in subsequent releases. The goal is to enable users to create valuable reports against the broad set of data in MOM. R14 Update 1 continues to enhance the ODS by adding support for the following data:

- Offers from the Offer Management module. Users can now create reports on offers and associated metadata.
- User role data from Strategic Planner is included in two new target entities for ODS Plan Access Details and Marketing Activity Access Details. With these additions, you can easily pull out a list of users and their roles for plans and activities in Strategic Planner. This enables reporting capabilities such as 'List of Activities owned by user X' or 'List of Activities that include user X as reader'.



1.6.3 Display of Last Updated Date on Ad-hoc Reports

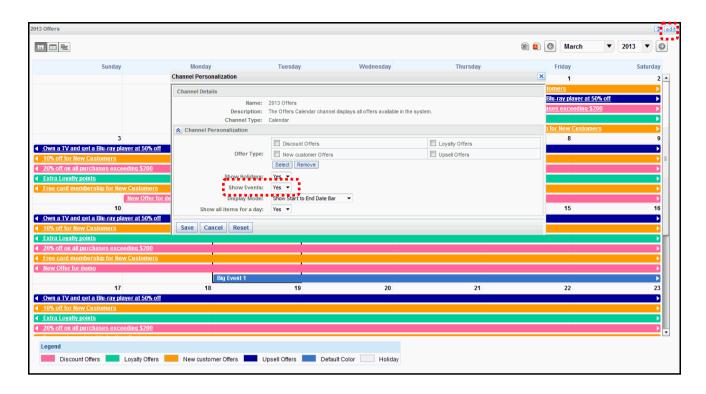
The Ad-hoc reporting tool pulls data from an Operational Data Store (ODS). This ODS database is scheduled to be updated with data from the MOM database at a frequency of once a day. The date and time of last update of data is now reflected while creating and viewing an Ad-hoc report on the screen.



1.7 Calendars

1.7.1 Showing Events on all Calendars

Users can create and track marketing events directly from the Events Calendar. Events are a separate entity from marketing activities in Strategic Planner. Users can create and track events without using Strategic Planner. R14 Update 1 provides an enhancement to extend the visibility of events throughout the organization by providing a configuration capability to display events on all calendars in MOM. On any calendar click on the 'edit' button on the extreme right corner, a channel personalization popup is displayed. To include events on the calendar, select 'Yes' for the 'Show Events' option.

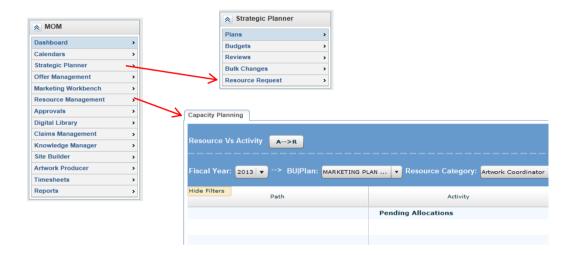


1.8 Resource Management

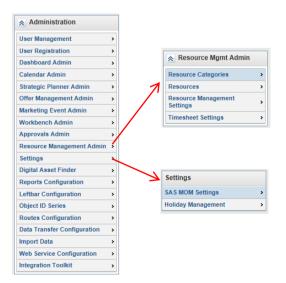
1.8.1 Navigation and Nomenclature Changes

In preparation for some planned future enhancements, R14 Update 1 has the following navigation and nomenclature changes in Resource Management:

- The 'Resource Planner' left navigation pane menu item has been renamed to 'Resource Management'
- The 'Resource Allocation' functionality has been renamed to 'Capacity Planning'



- The access point for 'Resource Request' has been moved from the 'Resource Planner' left navigation menu item to the 'Strategic Planner' left navigation menu item.
- The 'Resource Management' left navigation menu item under 'Tools' has been removed. That functionality is now accessible under the 'Resource Management Admin' and 'Settings' left navigation menu items in the Administration section.



1.9 Marketing Workbench

1.9.1 Assets in DAM linked to Workbench objects

Many MOM customers catalog assets in DAM as part of an asset creation process managed in Workbench. For example, at the end of a review process an asset for a deliverable in Workbench might be catalogued in DAM, so it is accessible from the digital library. Based on customer feedback, R14 Update 1 modifies the behavior of assets in DAM linked to Workbench items when the Workbench items are deleted. The specific changes address the following use cases:

- A Deliverable Manager catalogs an asset for a deliverable in DAM and subsequently the deliverable is deleted. R14 Update 1 modifies the behavior for this use case such that if a deliverable is deleted, the assets are still accessible in DAM.
- A Deliverable Manager catalogs an asset for a deliverable and then the asset is transferred to a task in the deliverable. The task contributor adds metadata for the asset and these updates are reflected in DAM. The task is then deleted in Workbench. R14 Update 1 addresses this use case by adding a configuration option to prevent an asset from being deleted in DAM if a task is deleted per the use case described above.

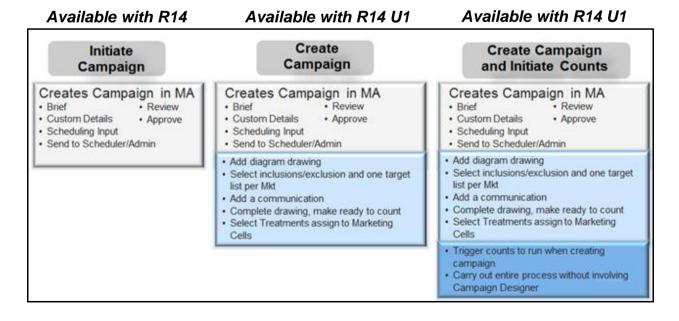
1.10 Integration

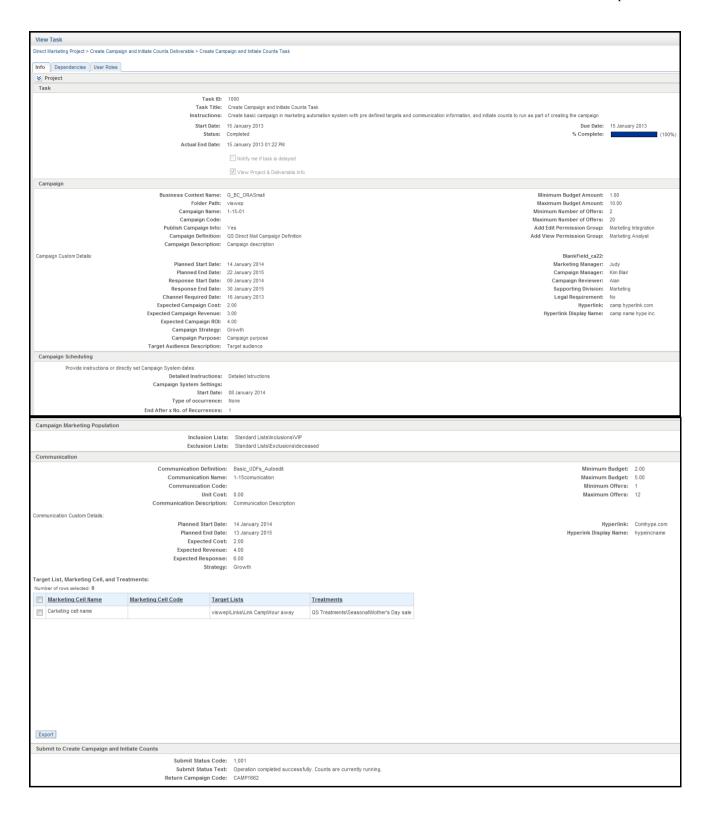
1.10.1 MOM-Marketing Automation integration enhancements

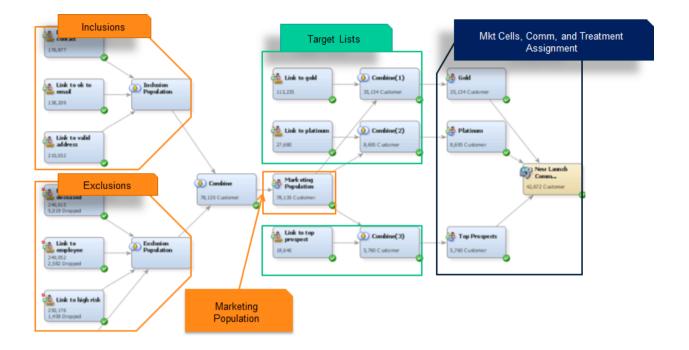
The integration between SAS Marketing Operations Managements and SAS Marketing Automation (MA) enables users in MOM to perform functions such as creating campaigns in CI Studio directly within the MOM user interface. The outof-the-box functionality provides integration between Marketing Workbench and SAS Customer Intelligence Studio Selection Campaigns (part of SAS Marketing Automation). The goal is to help Marketing Services and Campaign Designer teams work together more efficiently in the campaign creation process.

The integration is enabled by web services along with pre-configured Marketing Workbench workflows to support a range of campaign creation options for MOM users. The integration setup utility will create a Marketing Workbench project with three deliverables and associated tasks.

R14 Update 1 builds upon the integration capabilities in prior releases by enabling MOM users to do more aspects of the campaign creation process. Specifically, this release extends the campaign creation capabilities for MOM users to include diagram drawing components. The chart below summarizes the new capabilities in R14 Update 1, as reflected in the two new pre-configured deliverables: 'Create Campaign' and 'Create Campaign and Initiate Counts'.



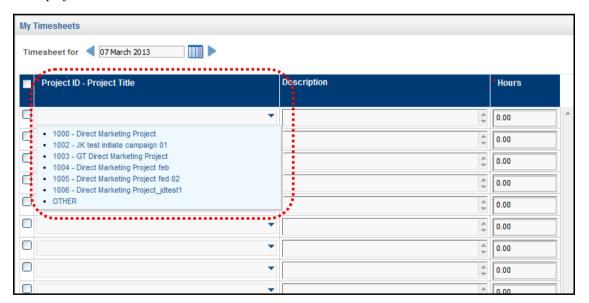




1.11 Timesheets

1.11.1 Usability enhancement

Timesheets work with Resource Management functionality to provide visibility into actual time spent by resources on specific projects. The functionality enables resources to submit their daily hours of work against assigned projects. Based on customer feedback, the Timesheets user experience has been enhanced by merging the Project ID and Project title fields into one column. This enables easier project selection by allowing users to view both Project ID and Project Title in the project selection interface.



1.12 Integration of SAS MOM and SAS SDM

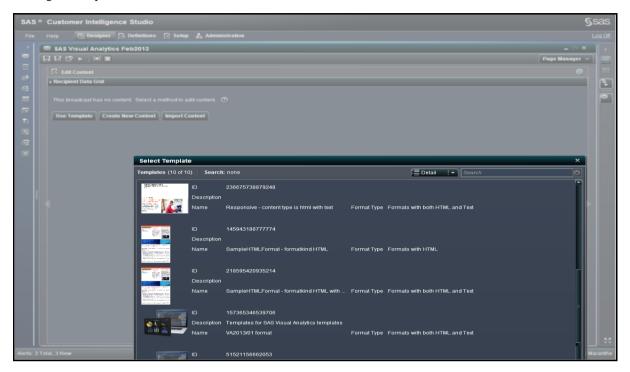
SAS Digital Marketing (SDM) Version 6.1 offers the e-mail marketer enhanced e-mail design capabilities with templates and digital asset management using SAS Marketing Operations Management (MOM) Version R14 Update 1. SAS MOM provides SDM with an e-mail template management and creation capability using MOM's Artwork Producer and Digital asset management via the DAM module.

What does this mean for SDM customers?

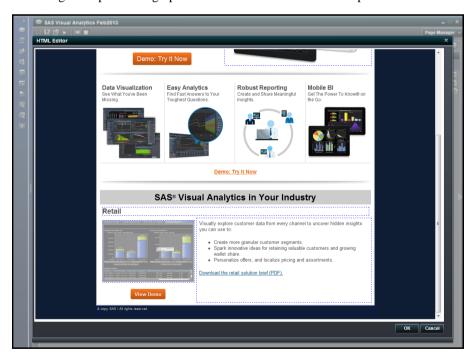
Users will no longer need to separately install a 3rd party editor. A new HTML e-mail editor is included with the product. A marketer can create e-mail content starting from scratch using the new html editor.



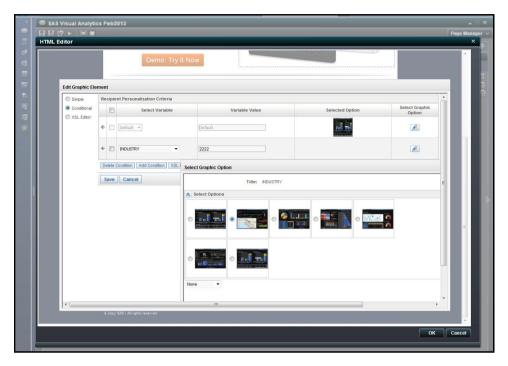
• The marketer also has an option to leverage capabilities of SAS MOM and select from pre-created e-mail templates coming from SAS MOM Format Designer in Artwork Producer. See below a list of templates within SDM coming from a published list from MOM Artwork Producer.



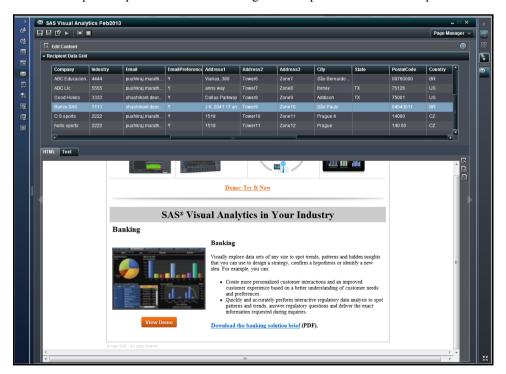
• The marketer also has an option to point and click and modify the text and graphical elements on the email template. This invokes the Artwork Producer point and click capabilities within SDM. See below the dotted lines indicating the replaceable graphical and text elements on the template.



The marketer can specify conditions for personalization of the text and graphical elements on the email. The personalized content is retrieved based on taxonomy rules associated with the digital assets from the Digital Asset Manager (DAM) in SAS MOM.



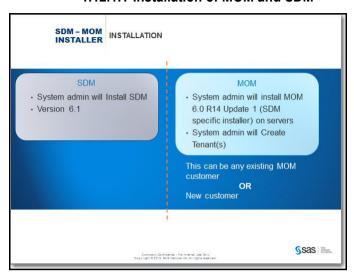
Here's a sample of a personalized email being sent to a preselected set of recipients:



For SAS employees: To read more details of the SAS SDM version 6.1, click here: http://smportal.sas.com/products/customer-intelligence/Pages/newin.aspx

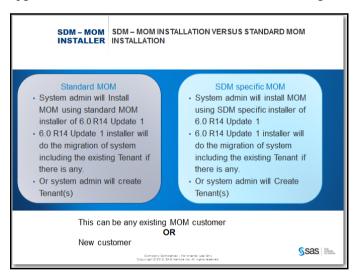
1.12.1 Setup and Configuration for the integration in SAS MOM

1.12.1.1 Installation of MOM and SDM



1.12.1.2 Choosing the correct MOM installer variation

There are 2 variations of the MOM installer starting version R14 Update 1 – one for the MOM customer who can enable SDM if required and one for the SDM Only customer. The SDM Only customer can on obtaining the necessary licenses upgrade to the full MOM version. See details later in this guide.



Following are the subset of MOM modules that are visible if the "SDM only" installation is run.



1.12.1.3 Running the Integration Toolkit from MOM

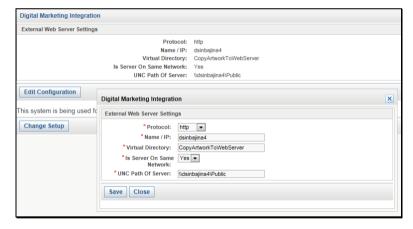
Any user with administrative rights can run the integration toolkit for Digital Marketing Integration. The toolkit can be run from the left task pane link within MOM > Administration pane.



This toolkit will make the following changes in the system:-

1.12.1.4 Setting the external webserver details in the configuration file:

When the Integration toolkit is executed for the first time, following settings are required:



External Web Server Settings:

These are the settings required to identify the web server in the integration setup that will hold the images that are included in the email. The images will be downloaded from this server when an email recipient opens an email sent via SDM or requests for downloading images in the email.

Protocol: - Choose from http or https. This is required for preparing the Image Path for the generated artwork, which is pushed on external web server when broadcast is executed / preview email is sent from Digital Marketing.

Name/IP: - Enter the Name/IP of external webserver where final artwork and images will get copied, when broadcast is executed / preview email is sent from Digital Marketing.

Virtual Directory: - Enter Virtual Directory location. This is required for preparing the Image Path for the generated artwork. Graphic element images included in the email broadcasts will be present under this virtual directory.

Is Server on Same Network: - Indicate if the web server machine is on the same network as the MOM installation or a different network.

UNC Path of Server: - This will be needed only if the web server is on the same network as the MOM installation. Enter Target Path where the artwork and images will get copied.

NOTES:

- UNC path should be the same folder as the folder to which virtual directory is referring or pointing.
- If external webserver is not on same network, system will use one web service to transfer the files from MOM solution server to External web server for this to work. Copy the "IntegrationMTOM" folder located in MOM installer in "Folder SDM integration" onto the external web server and then create a virtual directory "IntegrationMTOM" pointing to this copied folder.
- Above information can be updated even after utility is run. User can hit the 'Edit Configuration' to change the value for the external web server attributes.

When the above Settings are saved by clicking the "Save Configuration" button, the following changes occur automatically in the MOM system as required by the integration. Read relevant details in sections below:

- Database scripts required for installing the entities and facets are executed
- The data transfer configuration is set.
- The form XMLs are copied



1.12.1.5 Data transfer configuration changes for Artwork Format

When the data transfer configuration is set by the utility, here is what happens in the background. A new data transfer configuration (FORMAT_ARTWORK) is created to transfer the data from FORMAT to ARTWORK entity. Following script is run for this:-

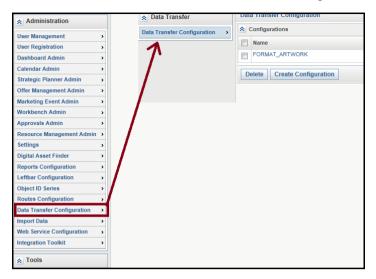
```
VALUES
```

```
(30227961240306,
             'Format Artwork',
             'FORMAT ARTWORK',
             'FORMAT',
             'ARTWORK',
             'Format',
             'Artwork')
INSERT INTO [ALOM AUTHORIZATION]
            ([AUTHORIZATIONID]
            ,[OBJECTID]
            ,[OBJECTTYPE]
           , [ACCESSORID]
            ,[ACCESSRULECLAUSEID]
            , [ACCESSORTYPE]
            ,[PRIVILEGENAME]
            ,[PRIVILEGEVALUE]
            , [PARENTACCESSORID])
     VALUES
            (139997925485867,
            30227961240306,
             'ENTITY',
            500,
            69240497087840,
             'EVERYONE',
             'DELETE',
            4,
            0)
```

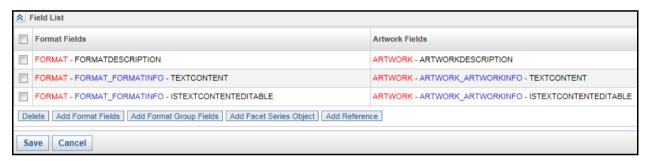
Once the above records are inserted in database successfully, following xml file is copied under the xml mount point location.



However if the data transfer configuration already exists with the same name, a warning message is shown to the user as seen in screen shot above. In this case, data transfer configuration needs to be modified manually as shown below:-



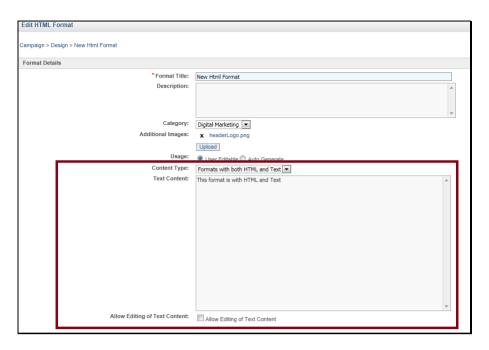
Add the following mapping between the format and artwork fields if they are missing: -



1.12.1.6 Format Details form changes for Artwork Producer with new Content Type fields

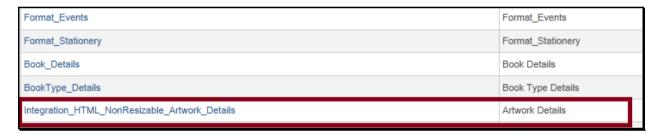
Here is how the format details form is updated with the fields related to the content type. Following new fields are added within Format Designer of Artwork Producer:-

- Content Type
- Text Content
- Allow Editing of Text Content



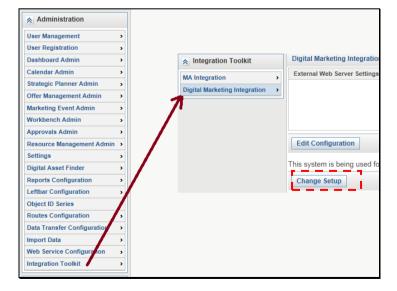
1.12.1.7 New form added in Artwork Producer Form List

A new form is added to the artwork producer form list in the UI Framework. This form is related to the taxonomy page that appears before the point and click page.

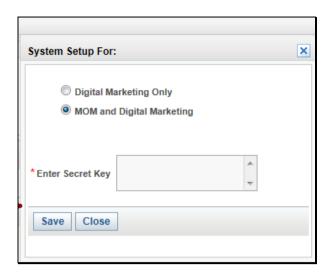


1.12.1.8 Upgrading an "SDM only" customer to "MOM and SDM"

Click on the Change Setup button in the integration Toolkit section of MOM.



Using this, installation mode can be switched from 'Digital Marketing Only' to 'MOM and Digital Marketing'.



Switching from 'Digital Marketing Only' to 'MOM and Digital Marketing' needs a secret key to ensure that the customer has the necessary licenses to use full MOM as compared to the SDM only license held previously. On entering the Secret Key, an authentication is performed and then the necessary changes are effected to allow all of the MOM modules to be enabled and used.

NOTE: To secure a secret key, you will need to contact Technical Support – SAS SDM or SAS MOM.