Release Notes

Product Name: RealAnalytics

Track/Build Number: UMG 7.1

Project Type: Minor Enhancements

|  |  |  |
| --- | --- | --- |
| **Document Classification** | Internal Use Only | |
| **Department Name** | Consumer Analytics | |
| **Document Number** | **Version** | **Document Owner** |
| UMG- Release Notes 7.1 | 7.1 | Udaya Kiran SS |
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| **Prepared by** | **Reviewed by** | **Approved by** |
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**Note: All the sections and fields in this document should be updated**

# Summary

This release note is being prepared to convert String to array of String in case Output defined as array

# Description of the change

Please provide following details.

Business features for release 7.1

|  |  |
| --- | --- |
| User Story | Feature |
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* Release Requester name: Product Management
* Urgency: High
* Release Risk Analysis: Medium.
  1. No major analytics releases clashing with the release
  2. Changes limited to admin capabilities
* Affected Users: **Analytics Team.**
* Unaffected User: **None**

# Release Management Approvals

Please provide Release Management Team approvals

|  |  |
| --- | --- |
| Expected Release Date |  |
| Release # |  |
| Product |  |
| Environment: | ExtUAT |
| Project Manager to confirm if final package is uploaded to SVN |  |
| Is Release communication sent to BU |  |
| Is BU Approval procured and attached? |  |
| IS IT head Approval procured and attached? |  |
| Is DMC approval procured and attached? |  |
| Any additional approvals |  |

# Environment Information

Please provide Production environment specific details so that Release can be installed.

|  |  |
| --- | --- |
| Expected Release Date |  |
| Release # |  |
| Product |  |
| Environment: | Production |
| Release Implementation Duration |  |
| Production Server Names/ IPs |  |
| Impact |  |
| Is the Change replicated in disaster recovery Environment to sync production and disaster recovery? |  |

# Data Fix Information (Tenant On boarding)

|  |  |
| --- | --- |
| Is Data fix involved |  |
| Is Data fix a SQL Statement/SQL script |  |
| QA sign off for above Data Fix(prod Data) |  |
| Does Data fix disable any triggers |  |
| Does Data fix disable any audit trails |  |
| List the fields and tables the data fix updates |  |
| Code reviewed by (Developer Name) |  |
| Code review approved by (Dev Manager) |  |
| Approved by Development Sr. Manager (Name) |  |
| Code reviewed by (QE Engineer Name) |  |
| Code review approved by (QE Manager) |  |
| Data Fix signed off by BU head |  |

# Syndicate Data Information

|  |  |
| --- | --- |
| Is Syndicate data update involved? |  |
| QA sign off for Syndicate data update (prod Data) |  |
| Pre-prod sign off for Syndicate data update (prod Data) |  |
| Approved by Analytics team Manager |  |
| Syndicate data in UAT/Preprod reviewed by (Analytics Team member name) |  |

# Model Fix Information

|  |  |
| --- | --- |
| Is Model fix involved |  |
| Is Model fix a SQL Statement/SQL script |  |
| QA sign off for above Model Fix(prod Data) |  |
| Code reviewed by (Developer Name) |  |
| Code review approved by (Dev Manager) |  |
| Approved by Development Sr. Manager (Name) |  |
| Code reviewed by (QE Engineer Name) |  |
| Code review approved by (QE Manager) |  |
| Model Fix signed off by BU head |  |

# Implementation

# Pre-Implementation

Please follow the below steps

* **Back Up the existing WAR of all the components.**
  1. umg-admin.war
  2. umg-runtime.war
  3. modelet.one-jar.jar
  4. umg-scheduler.one-jar.jar
* ***Back Up below existing schema of MySQL DB***

*NA*

* **Sanpath changes:**
  1. Rename bulk folder to bulk-file for all bulk enabled tenants
     + mv bulk bulk-file
  2. Rename batch folder to batch-file for all batch enabled tenants
     + Mv batch batch-file
  3. Create following new folders in sanpath for bulk enabled tenants
     + cd /sanpath/<tenant-name>
     + mkdir bulk-http
     + cd bulk-http
     + mkdir archive
     + mkdir inprogress
     + mkdir input
     + mkdir output
* Update umg-scheduler **application.properties** file (externalized file)
  1. Update the value of **bulk.folder.pattern** property from \*\\bulk\\input to **\*\\bulk-file\\input**
* **Tomcat Server Configuration Changes:**
  1. In web.xml of Admin and runtime servers, please add the new init-param (highlighted only) in server tag . Please find the below snippet for reference.

<servlet>

<servlet-name>default</servlet-name>

<servlet-class>org.apache.catalina.servlets.DefaultServlet</servlet-class>

<init-param>

<param-name>debug</param-name>

<param-value>0</param-value>

</init-param>

<init-param>

<param-name>listings</param-name>

<param-value>false</param-value>

</init-param>

**<init-param>**

**<param-name>showServerInfo</param-name>**

**<param-value>false</param-value>**

**</init-param>**

<load-on-startup>1</load-on-startup>

</servlet>

* 1. In server.xml of Admin and runtime servers, please add the attribute server=" " to the Connector tags. Please find the below as an example.

<Connector connectionTimeout="20000" port="8082" protocol="HTTP/1.1" redirectPort="8443" server=" "/>

<Connector port="8011" protocol="AJP/1.3" redirectPort="8443" server=" "/>

# Implementation

Follow the below steps during deployment process

**Shutdown all servers**

Shutdown all UMG modules in Ext UAT, before starting deploying any Module

*If any component doesn’t shuts down normally, Please use Kill -9 to kill the process.*

**Clean up of Tomcat Servers**

Removing wars, extracted folders and work folders from Tomcat servers (Admin, Runtime).

War Extracted Location: /opt/tomcat/webapp

War Location: /opt/tomcat/webapps

Work Folder Location: /opt/tomcat/work/Catalina/localhost

**DB Backup of following tables:**

NA

**Hazelcast configuration changes:**

NA

**DB Scripts execution**

Obtain the scripts zip file from the following link and extract the files.

<http://atlas.altidev.net/artifactory/realanalytics/com/ca/umg/umg-db/develop-SNAPSHOT-7/umg-db-develop-SNAPSHOT-7.zip>

Run DB scripts in the following order

* + - Common-DB-Scripts\UMG-7.1-admin\_schema\_common-ddl.sql
    - Common-DB-Scripts\UMG-7.1-admin\_schema\_common-dml.sql
    - Common-DB-Scripts\UMG-7.1-Ocwen\_schema\_common-dml.sql

**Update RA version:**

* Update “umg-ver” parameter to 7.1 in externalized umg.properties file.

**MySQL Configuration Changes:**

NA

**Security Configuration Changes:**

NA

**Update applicationContextSecurity.properties file:**

NA

**Tomcat and modelet start up script changes:**

NA

**Runtime log4j2.xml changes**:

NA

**Modelet LOG4j changes**:

NA

**Password Encryption:**

NA

**WAR and JAR Locations**

Runtime:

[http://atlas.altidev.net/artifactory/realanalytics/com/ca/umg/umg-runtime/develop-SNAPSHOT-7/umg-runtime-develop-SNAPSHOT-7.war](http://atlas.altidev.net/artifactory/realanalytics/com/ca/umg/umg-runtime/develop-SNAPSHOT-3/umg-runtime-develop-SNAPSHOT-3.war)

Modelet:

[http://atlas.altidev.net/artifactory/realanalytics/com/ca/umg/modelet/develop-SNAPSHOT-7/modelet-develop-SNAPSHOT-7-onejar.jar](http://atlas.altidev.net/artifactory/realanalytics/com/ca/umg/modelet/develop-SNAPSHOT-3/modelet-develop-SNAPSHOT-3-onejar.jar)

Admin:

[http://atlas.altidev.net/artifactory/realanalytics/com/ca/umg/web-ui/develop-SNAPSHOT-7/web-ui-develop-SNAPSHOT-7.war](http://atlas.altidev.net/artifactory/realanalytics/com/ca/umg/web-ui/develop-SNAPSHOT-3/web-ui-develop-SNAPSHOT-3.war)

Scheduler :

[http://atlas.altidev.net/artifactory/realanalytics/com/ca/umg/umg-scheduler/develop-SNAPSHOT-7/umg-scheduler-develop-SNAPSHOT-7-onejar.jar](http://atlas.altidev.net/artifactory/realanalytics/com/ca/umg/umg-scheduler/develop-SNAPSHOT-3/umg-scheduler-develop-SNAPSHOT-3-onejar.jar)

**Restart all the components**

* 1. Start deploying modules in this order
* Runtime
* Modelet Processes
* Admin
* UMG Scheduler
  1. Please don’t start all Modules together.
  2. Start one module and wait until that process completely up.
  3. There should be 10-15 seconds sleep time between each Modelet process.

Note: Please refer to **Modelet Restart Steps** section in this document)

# Post-Implementation

* Ensure that all Modelets are registered in Hazelcast before starting the sanity
  1. Use the below API to get dump of Pool data in Hazelcast

**http://<Runtime-IP>/umg-runtime/modelExecEngine/getAllModeletInfo**

(Load Balancer URL of ME2)

* 1. Logs will be present in one of the ME2 logs
  2. Log into UMG Admin and go to Modelet Pooling tab for checking Modelet and pool Mappings
* Perform the sanity test suite for the build.
* Once the sanity test results are verified without any issues, send a mail to all stake holders on success of the release.

# Rollback

If the system is not working as intended,

Please follow the below steps for Rollback.

**Shutdown all servers**

Please shut down all UMG modules, before starting deploying any Module

*If any component doesn’t shuts down normally, Please use Kill -9 to kill the process.*

**Clean up of Tomcat Servers**

Removing wars, extracted folders and work folders from Tomcat servers (Admin, Runtime and ME2).

War Extracted Location: /opt/tomcat/webapps

War Location: /opt/tomcat/webapps

Work Folder Location: /opt/tomcat/work/Catalina/localhost

**Rollback Sanpath changes:**

* 1. Delete bulk-http folder of all bulk enabled tenants
     + rm –rf bulk-http
  2. Rename batch-file folder to batch of all batch enabled tenants
     + Mv batch-file batch
  3. Rename **bulk-file** folder to **bulk** for all the bulk enabled tenants
     + Mv bulk-file bulk
* Update umg-scheduler **application.properties** file
  1. Update the value of **bulk.folder.pattern** property from \*\\bulk-file\\input to **\*\\bulk\\input**

**Revert hazelcast configuration changes**

NA

**Revert DB changes:**

Run following db script

* Common-DB-Scripts\Rollback\UMG-7.1-Ocwen\_schema-dml-rollback.sql
* Common-DB-Scripts\Rollback\UMG-7.1-admin\_schema-dml-rollback.sql
* Common-DB-Scripts\Rollback\UMG-7.1-admin\_schema-ddl-rollback.sql

**Update RA version:**

Update “umg-ver” parameter to 7.0.1 in externalized umg.properties file.

**MySQL Configuration Changes:**

NA

**Password Encryption:**

NA

**WAR and JAR Locations**

Copy the backed up WARs to the appropriate <TOMCAT-WEBAPPS> of all the components respectively.

**Restart all the components**

* 1. Start deploying modules in this order

Runtime

Modelet Process

Admin

Scheduler

* 1. Please don’t start all Modules together.
  2. Start one module and wait until that process completely up.
  3. There should be 1 min sleep time between each Modelet process.

Note: Please refer to **Modelet Restart Steps(Rollback)** section in this document)

# Known Issues

# Release Implementation Team

Details of the Implementation team members who will be participating in the Release. This includes Dev, QE, UAT, Product Management and Support teams.

# Appendix

GIT References

GIT URL for RA : ssh://git@inf-hub.altidev.net:7999/ra/umg.git

Please referrer to below WIKI page for setting up GIT repository in local system.

<http://wiki.altisource.com/display/CA/Local+GIT+Set+Up+and+Help+Commands>

# Modelet Restart Steps

Please follow below order for starting R and Matlab Modelets.

Below steps are specific to Production, change appropriately based on the environment.



# Modelet Restart Steps (Rollback)

Below steps are specific to Production, change appropriately based on the environment.

Please find attached file which has actual startup order of Modelets



# Notification

Release notification List.

|  |  |  |
| --- | --- | --- |
| S No. | Team Notification details | |
| 1 | Name | Dev Team |
| Email | Dev Team DL |
| 2 | Name | QE Team |
| Email | QE Team DL |
| 3 | Name | Support Team |
| Email | Support Team DL |
| 4 | Name | Product Management |
| Email | Product Management DL |
| 5 | Name | Client |
| Email | Client DL |