Release Notes

Product Name: RealAnalytics

Track/Build Number: UMG 3.1

Project Type: Defect Fixes

|  |  |  |
| --- | --- | --- |
| **Document Classification** | Internal Use Only | |
| **Department Name** | Consumer Analytics | |
| **Document Number** | **Version** | **Document Owner** |
| UMG- Release Notes 3.1 | 3.1 | Udaya Kiran SS |
| **Reviewed on** | **Review Frequency** | **Effective Date** |
|  | As needed | 14-09-2015 |
| **Prepared by** | **Reviewed by** | **Approved by** |
| Nagamani Basa | Udaya Kiran SS |  |

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**Note: All the sections and fields in this document should be updated**

# Summary

This release note is being prepared to move 3.1 into Stress environment, as a precursor to moving to production environment.

# Description of the change

Please provide following details.

Business features for release 3.1

|  |  |
| --- | --- |
| Category | Feature |
| Improve publishing | [UMG-4021](http://jira.altisource.com/browse/UMG-4021) – Excel I/O definition reuse |
| [UMG-4017](http://jira.altisource.com/browse/UMG-4017) – Download Support packages |
| [UMG-4014](http://jira.altisource.com/browse/UMG-4014) – Facility to download manifest |
| Improve platform availability | [UMG-4013](http://jira.altisource.com/browse/UMG-4013) - Restart a modelet once it crashes |
| [UMG-3988](http://jira.altisource.com/browse/UMG-3988) - Criteria Priority |
| Ease model usage | [UMG-4130](http://jira.altisource.com/browse/UMG-4130) - Double values should accept integer values as well |
| [UMG-4012](http://jira.altisource.com/browse/UMG-4012) - UMG is giving RSE000804 error while passing the null value for the optional Numeric or optional integer or optional boolean value. |
| [UMG-3901](http://jira.altisource.com/browse/UMG-3901) - Support Factor data type |

Ability to run Hubzu R model, so that Analytics team can integrate with RA platform.

* 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: | Production |
| 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: | Stress |
| 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. me2.war
  4. modelet.one-jar.jar
* ***Back Up below existing schema of MySQL DB***
  1. *umg\_admin*
  2. *Ocwen*
* ***Ensure we have connectivity to restart all modelets from the ME2 Server***
  1. *Sandeep to provide the steps*

# Implementation

Follow the below steps during deployment process

**Shutdown all servers**

Shutdown all UMG modules in 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 and ME2).

War Extracted Location: /opt/tomcat/webapps

War Location: /opt/tomcat/webapps

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

**Log4j Changes in for all Modelets**

Please add attribute shutdownHook="disable" to Configuration tag in log4j2.xml file in all **externalized properties** of all components.

(Please note, after adding this attribute, Configuration tag should look like <Configuration status="debug" packages="com.ca.framework.core.logging.appender" shutdownHook="disable">)

**Change Default Version to R-3.2.1 in NFS**

Please rename the R version by following below commands:

1. Login to NFS Mount Server(admin or runtime or modelet)

2. cd /sanpath/supportpackage/R

3. mv 3.1.2 3.2.1

**DB Scripts execution**

Obtain the scripts from the Real Analytics GIT Repository:

**REFER to Appendix for GIT Repository Details**

Run db scripts in the following order

1. Release-notes\Release-3.1\Common-DB-Scripts\UMG-3.1-admin\_schema-ddl.sql
2. Release-notes\Release-3.1\Common-DB-Scripts\UMG-3.1-admin\_schema-dml.sql
3. Release-notes\Release-3.1\PROD\UMG-3.1-prod\_admin\_schema-dml.sql (**Please check and update the values as per the environment**)
4. Release-notes\Release-3.1\Common-DB-Scripts\ UMG-3.1-ocwen-schema-dml.sql

**WAR and JAR Locations**

Me2:

<http://atlas.altidev.net/artifactory/realanalytics/com/ca/umg/me2/3.1.0-SNAPSHOT-153/me2-3.1.0-SNAPSHOT-153.war>

Modelet:

<http://atlas.altidev.net/artifactory/realanalytics/com/ca/umg/modelet/3.1.0-SNAPSHOT-153/modelet-3.1.0-SNAPSHOT-153-onejar.jar>

Runtime:

<http://atlas.altidev.net/artifactory/realanalytics/com/ca/umg/umg-runtime/3.1.0-SNAPSHOT-153/umg-runtime-3.1.0-SNAPSHOT-153.war>

Admin:

<http://atlas.altidev.net/artifactory/realanalytics/com/ca/umg/web-ui/3.1.0-SNAPSHOT-153/web-ui-3.1.0-SNAPSHOT-153.war>

**Update release version**

Update the RA release version to 3.1 in the umg.properties which is present in the externalized properties folder.

***umg-ver=3.1***

**Restart all the components**

* 1. Start deploying modules in this order

Admin

Runtime

ME2

Modelet Processes

* 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** 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://10.52.90.134/umg-me2/modelExecEngine/getAllModeletInfo**

(Load Balancer URL of ME2)

* 1. Logs will be present in one of the ME2 logs
* 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

**Log4j Changes in for all Modelets**

Please remove attribute shutdownHook="disable" to Configuration tag in log4j2.xml file.

( Configuration tag should look like <Configuration status="debug" packages="com.ca.framework.core.logging.appender">)

**Rollback release version**

Update the RA release version to 3.0 which is present in the umg.properties of externalized properties folder.

***umg-ver=3.0***

**Change Default Version to R-3.1.2**

Please rename the R version by following below steps:

1. Login to any server(admin or runtime or modelet)

2. cd /sanpath/supportpackage/R

3. mv 3.2.1 3.1.2

**DB Scripts execution**

Obtain the scripts from the Real Analytics GIT Repository: **REFER to Appendix for GIT Repository Details and** Run db scripts in the following order

1. Release-notes\Release-3.1\Common-DB-Scripts\Rollback\UMG-3.1-admin\_schema-ddl-rollback.sql
2. Release-notes\Release-3.1\Common-DB-Scripts\ Rollback\UMG-3.1-admin\_schema-dml-rollback.sql
3. Release-notes\Release-3.1\PROD\ Rollback\UMG-3.1-prod\_admin\_schema-dml-rollback.sql
4. Release-notes\Release-3.1\Common-DB-Scripts\ Rollback\UMG-3.1-ocwen-schema-dml-rollback.sql

**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

Admin

Runtime

ME2

Modelet Process

* 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** 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 Repository Details

|  |  |
| --- | --- |
| Clone URL | http://atlas.altidev.net/stash/scm/ra/umg.git |
| Branch | DEVELOP |

# 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 |

# 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.

**Modelet Server 1**

1. Start modelet\_R\_7902 in Modelet Server 1 (2 Cores and 8GB Ram)

**Modelet Server 2**

1. Start modelet\_R\_7902 in Modelet Server 2 (2 Cores and 8GB Ram)

2. Start modelet\_Matlab\_7900 in Modelet Server 2 (2 Cores and 8GB Ram)

3. Start modelet\_Matlab\_7901 in Modelet Server 2 (2 Cores and 8GB Ram)

**Modelet Server 3**

1. Start modelet\_R\_7902 in Modelet Server 3 (4 Cores and 16GB Ram)

2. Start modelet\_Matlab\_7900 in Modelet Server 3 (4 Cores and 16GB Ram)

3. Start modelet\_Matlab\_7901 in Modelet Server 3 (4 Cores and 16GB Ram)

**Modelet Server 4**

1. Start modelet\_R\_7902 in Modelet Server 4 (4 Cores and 16GB Ram)

2. Start modelet\_Matlab\_7900 in Modelet Server 4 (4 Cores and 16GB Ram)

3. Start modelet\_Matlab\_7901 in Modelet Server 4 (4 Cores and 16GB Ram)

**Modelet Server 1**

1. Start modelet\_Matlab\_7900 in Modelet Server 1 (2 Cores and 8GB Ram)

2. Start modelet\_Matlab\_7901 in Modelet Server 1 (2 Cores and 8GB Ram)

**Modelet Server 3**

1. Start modelet\_R\_7903 in Modelet Server 3 (4 Cores and 16GB Ram)

**Modelet Server 4**

1. Start modelet\_R\_7903 in Modelet Server 4 (4 Cores and 16GB Ram)

# Modelet Restart Steps(Rollback)

**Modelet Server 1**

1. Start modelet\_R\_7902 in Modelet Server 1 (2 Cores and 8GB Ram)

**Modelet Server 2**

1. Start modelet\_R\_7902 in Modelet Server 2 (2 Cores and 8GB Ram)

2. Start modelet\_Matlab\_7900 in Modelet Server 2 (2 Cores and 8GB Ram)

3. Start modelet\_Matlab\_7901 in Modelet Server 2 (2 Cores and 8GB Ram)

**Modelet Server 3**

1. Start modelet\_Matlab\_7900 in Modelet Server 3 (4 Cores and 16GB Ram)

2. Start modelet\_Matlab\_7901 in Modelet Server 3 (4 Cores and 16GB Ram)

3. Start modelet\_R\_7902 in Modelet Server 3 (4 Cores and 16GB Ram)

4. Start modelet\_R\_7903 in Modelet Server 3 (4 Cores and 16GB Ram)

**Modelet Server 1**

1. Start modelet\_Matlab\_7900 in Modelet Server 1 (2 Cores and 8GB Ram)

2. Start modelet\_Matlab\_7901 in Modelet Server 1 (2 Cores and 8GB Ram)