Release Notes

Product Name: RealAnalytics

Track/Build Number: UMG 5.0

Project Type: Minor Enhancements

|  |  |  |
| --- | --- | --- |
| **Document Classification** | Internal Use Only | |
| **Department Name** | Consumer Analytics | |
| **Document Number** | **Version** | **Document Owner** |
| UMG- Release Notes 5.0 | 5.0 | 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 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 5.0

Below Table need to update by Product Team

|  |  |
| --- | --- |
| Category | Feature |
|  |  |
|  |  |
|  |
|  |  |
|  |
|  |  |

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*

# 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

**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

* Release-notes\Release-5.0\Common-DB-Scripts\UMG-5.0-ocwen\_schema-ddl.sql
* Release-notes\Release-5.0\Common-DB-Scripts\UMG-5.0-admin\_schema-dml.sql
* Release-notes\Release-5.0\Common-DB-Scripts\AWS\_STRESS\UMG-5.0-admin\_schema-dml\_for\_stress.sql

**Update RA version:**

* Update “umg-ver” parameter to 5.0 in externalized umg.properties file.

**Update applicationContext-security.xml in UMG Admin Module Only:**

Please add below lines in applicationContext-security.xml **immediately** **after** <sec:http pattern="/version/getVersionDetails/\*\*" security="none" /> **line** and before<sec:http pattern="/\*\*" security="none" />**.**

<sec:http pattern="/api/v1.0/search/\*\*" security="none" />

<sec:http pattern="/ra-report/download/v1.0/\*\*" security="none" />

**Update db.propertoes in UMG Admin, Runtime and ME2 Modules:**

Add this new property in db.properties file of **UMG Admin, Runtime and ME2** modules

* db.maxIdleTime=28200

**Update Pattern of log file rollingRandomAccessFile in ME2**

We need to update pattern used in rollingRandomAccessFile appender.

* Open log4j2.xml property file from ra-config folder
* Move to RollingRandomAccessFile appender
* Replace value <Pattern> to **%d %p %c{1.} [%t] [%X{TENANT\_CODE}] [%X{CLIENT\_TRANSACTION\_ID}][%X{MODEL\_NAME}][%X{MODEL\_VERSION}] %m%n**
* After replacing <PatternLayout> should be same as below

<PatternLayout>

<Pattern>%d %p %c{1.} [%t] [%X{TENANT\_CODE}] [%X{CLIENT\_TRANSACTION\_ID}][%X{MODEL\_NAME}][%X{MODEL\_VERSION}] %m%n</Pattern>

</PatternLayout>

**WAR and JAR Locations**

**TODO Build numbers will be updated later on**

ME2

http://atlas.altidev.net/artifactory/realanalytics/com/ca/umg/me2/5.0.0-SNAPSHOT-2/me2-5.0.0-SNAPSHOT-2.war

Admin

http://atlas.altidev.net/artifactory/realanalytics/com/ca/umg/web-ui/5.0.0-SNAPSHOT-2/web-ui-5.0.0-SNAPSHOT-2.war

Modelet

http://atlas.altidev.net/artifactory/realanalytics/com/ca/umg/modelet/5.0.0-SNAPSHOT-2/modelet-5.0.0-SNAPSHOT-2-onejar.jar

Runtime

http://atlas.altidev.net/artifactory/realanalytics/com/ca/umg/umg-runtime/5.0.0-SNAPSHOT-2/umg-runtime-5.0.0-SNAPSHOT-2.war

**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)

**Update baseReportURL parameter from UMG Admin using sysParam screen.**

This URL should be **https://<<umg\_admin\_url>>/umg-api**

This is required to download report from tenant app, otherwise download report from tenant app will not work.

# 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://<ME2-IP>/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

**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

* Release-notes\Release-5.0\Common-DB-Scripts\Rollback\UMG-5.0-admin\_schema-dml-rollback.sql
* Release-notes\Release-5.0\Common-DB-Scripts\Rollback\UMG-5.0-ocwen\_schema-ddl-rollback.sql
* Release-notes\Release-5.0\Common-DB-Scripts\AWS\_STRESS\Rollback\UMG-5.0-admin\_schema-dml-for\_stress\_rollback.sql

**Update RA version:**

Update “umg-ver” parameter to 4.0 in externalized umg.properties file.

**Remove applicationContext-security.xml in UMG Admin Module Only:**

Please remove below two lines from this file

<sec:http pattern="/api/v1.0/search/\*\*" security="none" />

<sec:http pattern="/ra-report/download/v1.0/\*\*" security="none" />

**Remove db.propertoes in UMG Admin, Runtime and ME2 Modules:**

Please remove this new property from db.properties file in **UMG Admin, Runtime and ME2**

* db.maxIdleTime=28200

**Update Pattern of log file rollingRandomAccessFile in ME2**

* Open log4j2.xml property file from ra-config folder
* Move to RollingRandomAccessFile appender
* Replace value of <Pattern> to **%d %p %c{1.} [%t] %m%n**
* After replacing <PatternLayout> should be same as below

<PatternLayout>

<Pattern> %d %p %c{1.} [%t] %m%n </Pattern>

</PatternLayout>

**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(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 |