Release Notes

Product Name: RealAnalytics

Track/Build Number: UMG 4.1

Project Type: Minor Enhancements

|  |  |  |
| --- | --- | --- |
| **Document Classification** | Internal Use Only | |
| **Department Name** | Consumer Analytics | |
| **Document Number** | **Version** | **Document Owner** |
| UMG- Release Notes 4.1 | 4.1 | 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 move 4.1 into Prod environment, as a precursor to moving to production environment.

# Description of the change

Please provide following details.

Business features for release 4.1

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-4.1\Common-DB-Scripts\UMG-4.1-admin\_schema-dml.sql
* Release-4.1\Common-DB-Scripts\UMG-4.1-ocwen\_schema-ddl.sql

**Update RA version:**

* Update “umg-ver” parameter to 4.1 in externalized umg.properties file.

**WAR and JAR Locations**

Modelet:

<http://atlas.altidev.net/artifactory/simple/realanalytics/com/ca/umg/modelet/4.1.0-SNAPSHOT-158/modelet-4.1.0-SNAPSHOT-158-onejar.jar>

Me2:

<http://atlas.altidev.net/artifactory/simple/realanalytics/com/ca/umg/me2/4.1.0-SNAPSHOT-158/me2-4.1.0-SNAPSHOT-158.war>

Admin:

<http://atlas.altidev.net/artifactory/simple/realanalytics/com/ca/umg/web-ui/4.1.0-SNAPSHOT-158/web-ui-4.1.0-SNAPSHOT-158.war>

Runtime:

<http://atlas.altidev.net/artifactory/simple/realanalytics/com/ca/umg/umg-runtime/4.1.0-SNAPSHOT-158/umg-runtime-4.1.0-SNAPSHOT-158.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)

# 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-4.1\Common-DB-Scripts\Rollback\UMG-4.1-admin\_schema-dml-rollback.sql
* Release-4.1\Common-DB-Scripts\Rollback\UMG-4.1-ocwen\_schema-ddl-rollback.sql

**Update RA version:**

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

**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 Server 4

1. Start modelet\_R\_7903 in Modelet Server 4 (4 Cores and 16GB Ram)                <-DrunMatlab=false

Modelet Server 3

1. Start modelet\_R\_7903 in Modelet Server 3 (4 Cores and 16GB Ram)                <-DrunMatlab=false

Modelet Server 4

1. Start modelet\_R\_7904 in Modelet Server 4 (4 Cores and 16GB Ram)                <-DrunMatlab=false

Modelet Server 3

1. Start modelet\_R\_7904 in Modelet Server 3 (4 Cores and 16GB Ram)                <-DrunMatlab=false

Modelet Server 1

1. Start modelet\_R\_7902 in Modelet Server 1 (2 Cores and 8GB Ram)                  <-DrunMatlab=false

Modelet Server 3

1. Start modelet\_R\_7902 in Modelet Server 3 (4 Cores and 16GB Ram)                <-DrunMatlab=false

Modelet Server 2

1. Start modelet\_R\_7902 in Modelet Server 2 (2 Cores and 8GB Ram)                  <-DrunMatlab=false

Modelet Server 4

1. Start modelet\_R\_7902 in Modelet Server 4 (4 Cores and 16GB Ram)                <-DrunMatlab=false

Modelet Server 2

1. Start modelet\_Matlab\_7900 in Modelet Server 2 (2 Cores and 8GB Ram)          <-DrunMatlab=true

Modelet Server 1

1. Start modelet\_Matlab\_7900 in Modelet Server 1 (2 Cores and 8GB Ram)          <-DrunMatlab=true

Modelet Server 3

1. Start modelet\_Matlab\_7900 in Modelet Server 3 (4 Cores and 16GB Ram)        <-DrunMatlab=true

Modelet Server 4

1. Start modelet\_Matlab\_7900 in Modelet Server 4 (4 Cores and 16GB Ram)        <-DrunMatlab=true

Modelet Server 2

1. Start modelet\_Matlab\_7901 in Modelet Server 2 (2 Cores and 8GB Ram)          <-DrunMatlab=true

Modelet Server 1

1. Start modelet\_Matlab\_7901 in Modelet Server 1 (2 Cores and 8GB Ram)          <-DrunMatlab=true

Modelet Server 3

1. Start modelet\_Matlab\_7901 in Modelet Server 3 (4 Cores and 16GB Ram)        <-DrunMatlab=true

Modelet Server 4

1. Start modelet\_Matlab\_7901 in Modelet Server 4 (4 Cores and 16GB Ram)        <-DrunMatlab=true

# Modelet Restart Steps(Rollback)

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

Modelet Server 4

1. Start modelet\_R\_7903 in Modelet Server 4 (4 Cores and 16GB Ram)                <-DrunMatlab=false

Modelet Server 3

1. Start modelet\_R\_7903 in Modelet Server 3 (4 Cores and 16GB Ram)                <-DrunMatlab=false

Modelet Server 4

1. Start modelet\_R\_7904 in Modelet Server 4 (4 Cores and 16GB Ram)                <-DrunMatlab=false

Modelet Server 3

1. Start modelet\_R\_7904 in Modelet Server 3 (4 Cores and 16GB Ram)                <-DrunMatlab=false

Modelet Server 1

1. Start modelet\_R\_7902 in Modelet Server 1 (2 Cores and 8GB Ram)                  <-DrunMatlab=false

Modelet Server 3

1. Start modelet\_R\_7902 in Modelet Server 3 (4 Cores and 16GB Ram)                <-DrunMatlab=false

Modelet Server 2

1. Start modelet\_R\_7902 in Modelet Server 2 (2 Cores and 8GB Ram)                  <-DrunMatlab=false

Modelet Server 4

1. Start modelet\_R\_7902 in Modelet Server 4 (4 Cores and 16GB Ram)                <-DrunMatlab=false

Modelet Server 2

1. Start modelet\_Matlab\_7900 in Modelet Server 2 (2 Cores and 8GB Ram)          <-DrunMatlab=true

Modelet Server 1

1. Start modelet\_Matlab\_7900 in Modelet Server 1 (2 Cores and 8GB Ram)          <-DrunMatlab=true

Modelet Server 3

1. Start modelet\_Matlab\_7900 in Modelet Server 3 (4 Cores and 16GB Ram)        <-DrunMatlab=true

Modelet Server 4

1. Start modelet\_Matlab\_7900 in Modelet Server 4 (4 Cores and 16GB Ram)        <-DrunMatlab=true

Modelet Server 2

1. Start modelet\_Matlab\_7901 in Modelet Server 2 (2 Cores and 8GB Ram)          <-DrunMatlab=true

Modelet Server 1

1. Start modelet\_Matlab\_7901 in Modelet Server 1 (2 Cores and 8GB Ram)          <-DrunMatlab=true

Modelet Server 3

1. Start modelet\_Matlab\_7901 in Modelet Server 3 (4 Cores and 16GB Ram)        <-DrunMatlab=true

Modelet Server 4

1. Start modelet\_Matlab\_7901 in Modelet Server 4 (4 Cores and 16GB Ram)        <-DrunMatlab=true

# 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 |