

GMAT 2013a Release Process

This page is used to track the process and progress of the R2013a release.

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Target Date: April 16, 2013

Tasks

All dates are referenced to 12:00 noon EDT.

For example, a deadline of March 15 should be interpreted as March 15, 12:00 noon EDT.

Early Tasks

These are long-lead early tasks that can be completed before the detailed release cycle.

Use "(/)" for the checkmark (✓).

Task	Who	Status	Notes
Get updated legal statement/license	SPH	✓	Needed by Code Freeze.
Update sample scripts	SPH	✓	Needed by App Freeze. <ul style="list-style-type: none">• Write examples that demonstrate new functionality• Clean up all errors and warnings• Remove deprecated fields
Write draft Release Notes	JJKP	✓	Needed by App Freeze. See Writing Release Notes
Update standard descriptive text	SPH	✓	Needed by App Freeze. Will be used in User Guide, websites, release announcement. Commet from SPH: See Welcome to GMAT in user guide
Update info on public-facing websites	JJKP	✓	Needed by Release Day. See the list of sites . Update this list as well, if necessary. <i>Updated major sites before announcement. Minor ones can be updated a bit later.</i>

Update release announcement contacts	SPH	✓	Needed by Release Day. Located here .
Put in order for additional icons	SPH	✓	(if necessary) Needed by Visual Freeze.

For QA Complete (March 20)

QA complete means that all known bugs are being tracked, all bug fixes are verified and documented, and the release process can begin.

Use "(/)" for the checkmark (✓).

Task	Who	Status	Notes
Verify that all known bugs are checked into JIRA	(All)	✓	
Complete all JIRA verifications	(All)	✓	
Complete QA wrap-up tasks	DSC, SPH, JJKP, RQ	✓	<ul style="list-style-type: none"> GUI rename/delete
Address all JIRA tickets awaiting feedback	(All)	✓	

For Visual Freeze (Mar 27)

Visual Freeze finalizes all graphical changes to the software, so that screenshots, documentation, and TestComplete can be updated.

Use "(/)" for the checkmark (✓).

Task	Who	Status	Notes
Update links in GMAT.ini	JJKP	✓	<ul style="list-style-type: none"> Help links Welcome page links <p><i>Is this really a viz freeze issue?</i></p>
Update link tests in TestComplete	SJH	✓	<ul style="list-style-type: none"> Help buttons Welcome Page links Help menu links <p><i>This was delayed because of some last-minute behavior changes, but nothing here was required for Visual Freeze this time.</i></p>
Update About panel	LOJ	✓	<i>Not needed for R2013a</i>
Update splash screen	TGG	✓	<ol style="list-style-type: none"> Update SplashScreen.psd in GmatDevelopment\moredata\graphics\splash Use GIMP to save a flattened TIF file and overwrite splash screen in GmatDevelopment\application\data\graphics\splash. <p><i>This was delayed until (TBD) to allow the team to vote on the final design at the 3/28 team meeting.</i></p>
Update icons	SPH	✓	If there are any updates, additions, deletions.
Update gmat_startup_file.txt	JJKP	✓	<ul style="list-style-type: none"> Update formatting, comments Switch to release configuration
Switch to release configuration in script test system	JJKP	✓	Use new rundef.R2013aInternal.template.m. <i>Ran public configuration manually on JJKP's machine on 2013-03-27 build. Decided to run manually on RCs only. For next time, need to figure out a way to assemble public release without manual intervention.</i>
Complete visual updates	(All)	✓	<i>Fixed all visual issues known before Visual Freeze.</i>

For Code Freeze (April 5) (was April 3)

Code Freeze is a freeze on the software itself before final testing.

Use "(/)" for the checkmark (✓).

Task	Who	Status	Notes
Update EOP files	WCS	✓	Update eopc04_08.62-now and run smoke tests.
Update files w/ updated legal statement	LOJ	✓	
Update license text	LOJ	✓	Update application/License.txt file.
Final bug fixes	(All)	✓	

For next release: Consider branching the repo here, instead of after release. We need to allow people to continue working on unrelated items while release work is ongoing.

For App Freeze (April 5) (was April 3)

App Freeze is a freeze on all application bundle files beyond data and code. This includes documentation, sample scripts, stuff in the `extras` folder, etc.

Use "(/)" for the checkmark (✓).

Task	Who	Status	Notes
Update <code>README.txt</code>	JJKP	✓	Update with major release highlights.
Update extras folder	JJKP	✓	Notepad++ syntax coloring file
Update PDF files in docs folder	SPH/DJC	✓	<ul style="list-style-type: none"> Done (DJC) <code>GMAT-Architectural-Specification.pdf</code> Done (DJC) <code>GMATEstimationSpecification.pdf</code> Done (SPH) <code>GMATMathSpec.pdf</code> Update watermark: "Draft for Release R2013a" Put into <code>application/docs</code> folder, and individual doc source folders
Gather list of compatibility changes since last release	(Feature leads)	✓	<ul style="list-style-type: none"> Deprecated fields Removed & disabled fields Anything a user would need to know to make R2012a scripts compatible with this release. <p><i>For this release, put a generic blanket statement regarding the change from beta status to production status and point to wiki page.</i></p>
Update Release Notes	JJKP	✓	
Update screenshots in User Guide	(Feature leads)	✓	
Test User Guide instructions & code	(Feature leads)	✓	<ul style="list-style-type: none"> Tutorials Common Tasks script snippets reference page examples
Update Windows installer package	JJKP	✓	

Testing of Release Candidate 1 (April 5–12)

This will start with the 2013-04-05 daily build. **Repeat this phase until tests check out.** Steve will make the call.

Use "(/)" for the checkmark (✓).

Task	Who	Status	Notes
Update <code>README.txt</code>	JJKP	✓	(For RC2+) Update with any late-breaking notes.
Build Windows installer	JJKP	✓	Version string: R2013a-rc#
Bundle Windows zip	JJKP	✓	Version string: R2013a-rc#

Run TestComplete smoke tests	TGG	✓	These are tests on the packaged versions of GMAT: the installer and the zip bundle.
Run TestComplete system test missions	JMB	✓	These are tests on the packaged versions of GMAT: the installer and the zip bundle.
Run script test system	JJKP	✓	Run the internal installer tests on T4 and the public installer tests on Joel's machine. Run .zip bundle tests afterwards on same build to compare.
Test all sample scripts	SPH	✓	At a minimum these need to be run individually by hand. I ran them by adding the folder, and they run so fast I missed some pretty big problems. Ideally, these should all be in script regression tests. Many but not all already are regression tested.
Run TestComplete full regression tests	TGG	✓	(For final RC only)

Notes

- While this cycle is ongoing is a good time to do wiki updates and cleanup.

Stage Release (April 15)

This is a soft release, putting all the files in place and updating information. Then on release day, we only need to send the announcements.

Use "(/)" for the checkmark (✓).

Task	Who	Status	Notes
Bundle source code and upload to SourceForge	DJC	✓	<ol style="list-style-type: none"> 1. Export the trunk code from svn that is used for the release build when that build is started 2. Wait for a go/nogo call from testing on the build 3. Archive the following folder trees into a zip file: src, plugins, build 4. Move the zip file to SF 5. Mark as "staged" 6. Download the upload and check it
Bundle data and upload to SourceForge	DJC	✓	<ol style="list-style-type: none"> 1. Use the same export as used for the source bundle 2. Wait for a go/nogo call from testing on the build 3. Archive the following folder tree into a zip file: application/data 4. Move the zip file to SF 5. Mark as "staged" 6. Download the upload and check it
Upload Windows installer to SourceForge	JJKP	✓	Download, install, and run after uploading.
Upload Windows zip to SourceForge	JJKP	✓	Download and run after uploading.
Post README.txt on SourceForge	JJKP	✓	
Post internal & public release files to MESA network	JJKP	✓	
Branch and tag repositories	DJC	✓	At least tag the test system; consider branching also if the burden on the repo is low.
Make SourceForge repository backup	JJKP	✓	<p>Follow SourceForge's instructions.</p> <p>Perform the backup on the Linode server and download the resultant .zip file, since the local network blocks rsync.</p>

Release Day (April 16)

Use "(/)" for the checkmark (✓).

Task	Who	Status	Notes
Make files visible on SourceForge	SPH	✓	

Send out release announcement	SPH		<ul style="list-style-type: none"> Mention GSFC in the announcement Don't include large attachments.
Post release announcement on SourceForge	DJC		
Post release announcement on GMAT Blog	JJKP		

Post-Release

Use "(/)" for the checkmark ().

Task	Who	Status	Notes
Party!	(All)		<ul style="list-style-type: none"> Darrel is visiting sometime in April. Let's do something then.
Print materials	JJKP		<ul style="list-style-type: none"> Printed documentation (reference booklet, full User Guide) Release CDs
Conduct postmortem review	SPH		This includes gathering feedback, holding the postmortem meeting, and documenting the results.
Submit NTR for next release	SPH		
Spring cleaning	?		General cleanup of infrastructure: <ul style="list-style-type: none"> Wiki \\mesa-file\595\GMAT get rid of old SVN branches anything else?

Notes for postmortem

Please add your notes to the [Release R2013a Process Notes](#) document.

Compatibility changes

This is a list of compatibility changes since R2012a that need to be captured in the release notes.

- Spacecraft.CurrA1MJD parameter is deprecated
- ImpulsiveBurn.V, ImpulsiveBurn.N, ImpulsiveBurn.B parameters are deprecated
- non-Earth planet NutationUpdateInterval field is removed
- restricted setting CoordinateSystem Epoch, Primary, Secondary, XAxis, YAxis, ZAxis fields
- restricted setting CoordinateSystem Origin field

See [Writing Release Notes](#)

Running script test system

In the steps below, "#" is the RC number and "<config>" is "internal" or "public".

- Install the version being tested.
 - Check "Enable MATLAB interface".
 - Leave "Associate file types" unchecked.
- Update the test system repo.
- Run:


```
>> diary('..\log\R2013a-rc#-<config>.log')
```
- Run:


```
>> preparegmat('C:\Path\To\GMAT')
```
- Copy the appropriate template (autorundef.R2013aInternal.template.m or autorundef.R2013aPublic.template.m) to a new name and fill in the values:
 - RunDef.Build: "R2013a-rc#-<config>"
 - RunDef.GmatExe: path to installed GMAT.exe
 - RunDef.RegressionBuild: last build date if testing RC1, otherwise, "R2013a-rc#-<config>"

6. Run:
>> gmatteest <name of rundef.m>
7. Run:
>> diary('off')
8. Post results to network using robocopy:
>robocopy "C:\path\to\output\R2013a-rc#" "\\mesa-file\595\GMAT\TestResults\win7\R2013a-rc#-<config>"
/E /MT /LOG:robocopy.txt

Issues for RC3

- [GMT-3794](#) (still open)
- [GMT-3826](#)
- Run graphics regression tests (still open)
- Run toolbar/menubar regression tests

Issues for RC2

- [GMT-3745](#) - fix
- [GMT-3794](#) - fix
- [GMT-3795](#) - fix
- [GMT-3797](#) - fix
- [GMT-3817](#) - fix if time allows
- [GMT-3816](#) - don't fix
- [GMT-3803](#) - don't fix
- Update scripts for estimation functionality - fix
- What to do about MATLAB Interface in bundle? - update installer if time allows
- Proper covers on the PDF User Guide - fix
- Run graphics regression tests - fix