

# NASA SOFTWARE RELEASE REQUEST AUTHORIZATION FOR DEVELOPERS

Date of Request: MM/DD/YY	Full Name of Requestor:		
Software Title and Abbreviation:			
Software Version No.			
Technology Case Number: GSC- List here any other Related Case Numbers:			
Is there a Previous version of the Software? <input type="checkbox"/> Yes <input type="checkbox"/> No If yes, has the earlier version of the software been released? <input type="checkbox"/> Yes <input type="checkbox"/> No Please list all previous Version Numbers and Dates (if applicable):			
Is there related software? <input type="checkbox"/> Yes <input type="checkbox"/> No If yes, has any of the related software been released? <input type="checkbox"/> Yes <input type="checkbox"/> No If no, is a software release request pending for any related software? <input type="checkbox"/> Yes <input type="checkbox"/> No If yes, please provide details:			
For what GSFC Code was the software developed? For what project was the software originally developed?	Was the software developed under contract? <input type="checkbox"/> Yes <input type="checkbox"/> No If Yes, Contract Number: COR Name:	Was the software developed under a Grant? <input type="checkbox"/> Yes <input type="checkbox"/> No If Yes, Grant Number: PI Name:	
List all Innovators involved: (Please use additional sheets if necessary)			
Name:	Email:	Phone:	Employment Status: <input type="checkbox"/> GE <input type="checkbox"/> SB <input type="checkbox"/> LE <input type="checkbox"/> NP <input type="checkbox"/> CU <input type="checkbox"/> Other:
Organization Name:			
Organization Code:			
Percentage of Contribution:			
Name:	Email:	Phone:	Employment Status: <input type="checkbox"/> GE <input type="checkbox"/> SB <input type="checkbox"/> LE <input type="checkbox"/> NP <input type="checkbox"/> CU <input type="checkbox"/> Other:
Organization Name:			
Organization Code:			
Percentage of Contribution:			
Name:	Email:	Phone:	Employment Status: <input type="checkbox"/> GE <input type="checkbox"/> SB <input type="checkbox"/> LE <input type="checkbox"/> NP <input type="checkbox"/> CU <input type="checkbox"/> Other:
Organization Name:			
Organization Code:			
Percentage of Contribution:			
Name:	Email:	Phone:	Employment Status: <input type="checkbox"/> GE <input type="checkbox"/> SB <input type="checkbox"/> LE <input type="checkbox"/> NP <input type="checkbox"/> CU <input type="checkbox"/> Other:
Organization Name:			
Organization Code:			
Percentage of Contribution:			
Technical Point of Contact (Person Who Knows the Most About the Software):			
Full Name:	Company Name:		
Company Address:			
Mail Code:	Organization Code:	Phone:	
E-Mail Address:			

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Government Point of Contact (If Technical Point of Contact Is a Contractor):	
Full Name:	Agency Name:
Mailing Address:	
Organization Code:	Phone:
E-Mail Address:	
Description of Software:	
What Type of Code Will Be Released? <input type="checkbox"/> Executable <input type="checkbox"/> Source <input type="checkbox"/> Executable and Source	
<b>Type of Release Requested (To be Filled by SRA Authorized Official):</b>	
<input type="checkbox"/> Government Purpose Only Release <input type="checkbox"/> Project Release <input type="checkbox"/> IntraNASA <input type="checkbox"/> Interagency <input type="checkbox"/> U.S. Release (Recipient Must Be U.S. Person Or Company) <input type="checkbox"/> U.S. and Foreign Release (All U.S. Persons And Allowed Foreign Nationals) <input type="checkbox"/> General Public Release <input type="checkbox"/> Open Source Release	
If Your Software Release Type Is General Public or Open Source or if it is Safety-Critical, has a Code Review Been Performed to Discover Any Residual Security and Privacy Risks? <input type="checkbox"/> Yes <input type="checkbox"/> No (See <b>IMPORTANT</b> below) <b>IMPORTANT:</b> Please use the "Global Concerns Statement" file to complete Safety Critical Review. Attach a copy of the completed questionnaire to this document when submitting it for review. Any questions concerning this Review, Please Contact GSFC ITSM. (Kanitra Tyler, 301-286-6173 email: <a href="mailto:Kanitra.tyler@nasa.gov">Kanitra.tyler@nasa.gov</a> )	
Has the Software Been Screened to Determine if the Software Documentation, Embedded Files, Code, or Other Artifacts Contain Any Personally Identifiable Information (PII)? <input type="checkbox"/> Yes <input type="checkbox"/> No If you have questions, please consult your Center Privacy Manager for assistance. If No, Explain: A Frequently Asked Questions (FAQ) Document Addressing NASA PII Can Be Found at: <a href="http://insidenasa.nasa.gov/ocio/information/info_privacy/pii_faq.html">http://insidenasa.nasa.gov/ocio/information/info_privacy/pii_faq.html</a>	
Are There Any Programmatic Restrictions On Release of Your Software (i.e. only release executable, competition sensitive)? <input type="checkbox"/> Yes <input type="checkbox"/> No If Yes, Explain:	
Has the software been offered for sale, lease, or license to the public? <input type="checkbox"/> Yes <input type="checkbox"/> No If Yes, Explain:	
Is this software protected by patent or patent pending? (Any questions concerning this please contact the ITPO Office, 301-286-5810) <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Don't Know If Yes, please provide details:	
Is there a copyright notice displayed in the software? <input type="checkbox"/> Yes <input type="checkbox"/> No If Yes, please provide a copy of the notice displayed:	
Does the software documentation contain owner's manuals, user's manuals, installation instructions, operating instructions, design details, algorithms, processes, flow charts, formulae, or other related material that would enable particular NASA software or functional equivalents thereof, to be reproduced or created? <input type="checkbox"/> Yes <input type="checkbox"/> No If Yes, Have you submitted it through GSFC e-DAA process? <input type="checkbox"/> Yes <input type="checkbox"/> No	

# NASA SOFTWARE RELEASE REQUEST AUTHORIZATION FOR DEVELOPERS

Is the Software Section 508 Compliant?  Yes  No (See **IMPORTANT** below)  
**IMPORTANT:** Please use the "Section 508 Compliance Matrix" file to complete the appropriate matrix. Attach a copy of the completed matrix to this document when submitting it for review. Questions concerning applicability of requirements should be directed to the GSFC designated Section 508 Compliance Coordinator, Betsy Sirk, [betsy.sirk-1@nasa.gov](mailto:betsy.sirk-1@nasa.gov)

What Is The Classification And Safety Critical Designation Of The Software?  
**NOTE:** Refer to NPR 7150.2, Appendix E and NASA-STD-8739.8, Appendix A for an explanation of the classifications and safety critical designations for software.

Does the Software Comply With the Software Engineering and Assurance Requirements of NPR 7150.2 and NASA-STD-8739.8, Software Assurance Standard, for the Applicable Software Classification?  Yes  No (See **IMPORTANT** below)  
**IMPORTANT:** Please use the "Instructions for Use of Compliance Matrices for Software Classifications" file to complete the appropriate matrix for the class of software to be released. Attach a copy of the completed matrix to this document when submitting it for review. Questions concerning applicability of requirements should be directed to the local designated Software Engineering Technical Authority (for NPR 7150.2, Tamra K. Goldstein, [tamra.k.goldstein@nasa.gov](mailto:tamra.k.goldstein@nasa.gov)) or Software Assurance Technical Authority (Sue Sekira; [susan.j.sekira@nasa.gov](mailto:susan.j.sekira@nasa.gov), ) (for NASA -STD-8739.8). Any additional questions concerning this review, please contact the ITPO Office, 301-286-5810.

If Software Does **NOT** Comply, Are the Deviations/Waivers Documented and Approved?  Yes  No  
 (Please Attach Relevant Deviations/Waivers)

Is the Software Safety-Critical as Defined In **NASA-STD-8739.8**?  Yes  No

If Yes, Does It Comply With the Software Safety Requirements of NASA-STD-8719.13, Software Safety Standard?  Yes  No

If No, Are the Deviations/Waivers Documented and Approved?  Yes  No (Please Attach Relevant Deviations/Waivers)

What Is the Software's Technology Readiness Level (TRL) as Defined in NPR 7120.8, NASA Research and Technology Program and Project Management Requirements? TRL Level: 1 (See Attachment 2 - TRL Level Chart)

Does Your Software Include Any Embedded Computer Databases?  Yes  No  
 If Yes, Explain:

Does Your Software Use or Call Any Third Party Software or Libraries? (i.e. Open Source, Freeware, Shareware)

(a) Open Source: <input type="checkbox"/> Yes <input type="checkbox"/> No	(b) Proprietary/Commercial: <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Other
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If Yes, List the Pieces of Software, Under What License They Were Obtained, and the URL for the License: (Please attach a copy of the license if available)

Do You Plan to Distribute Any of the Third Party Software?  Yes  No

If Yes, Identify Which Pieces of Software:

Are There Any Known Export Restrictions That Apply to the Software?  Yes  No  
 If Yes, Explain (e.g., EAR or ITAR Controlled): (See **IMPORTANT** below)

**IMPORTANT:** Please use the "GSFC Export Control" file to complete the Export Control Process. Attach a copy of the completed questionnaire to this document when submitting it for review. Questions concerning Export Control should be directed to the designated GSFC Export and Import Control Program, 301-286-6388.

Was Software Development Funded By the Military?  Yes  No  
 If Yes, Explain Predominant Application(s) – (Military, Civil, or Both):

Does Your Software Contain Embedded Firewall Information or Require Ports to be Opened in the Firewall for Proper Operation?  
 Yes

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If Yes, Explain:

Does Your Software Contain Embedded Credentials (e.g., Username/Password, Certificates, Encryption Keys)?  Yes  No  
 If Yes, Explain:

Does Your Software Analyze Network Traffic?  Yes  No  
 If Yes, Explain:

Does Your Software Use or Include Encryption?  Yes  No  
 If Yes, Explain:

Has the Software Application Data Owner Been Consulted to Ensure that Your Software Documentation, Embedded Files, Code, or Other Artifacts Do Not Contain Residual SBU Data?  Yes  No  
 If No, Explain:

## Technical Concurrence and Recommendations

**GUIDANCE:** The Technical POC is the technical person listed on the first page of this form (can be either a contractor or NASA employee). The NASA POC is the NASA employee most familiar with the software (could be the COR for a NASA contract/grant).

Technical POC Name (Printed)	Signature	Date
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Recommendations:

NASA POC Name (Printed)	Signature	Date
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Recommendations:

## Project or Program Office Concurrence and Recommendations

**GUIDANCE:** The Project/Program Office person is the NASA lead for the project/program under which the software was developed. If the software isn't specific to a project or program, this person would be the NASA manager for the organization responsible for creation of the software.

Project/Program Office Name (Printed)	Signature	Date
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Recommendations:

## SOFTWARE TECHNOLOGY READINESS LEVEL CHART

Level	Definition	Software Description	Exit Criteria
1	Basic principles observed and reported	Scientific knowledge generated underpinning basic properties of software architecture and mathematical formulation.	Peer reviewed publication of research underlying the proposed concept/ application.
2	Technology concept or application formulated	Practical application is identified but is speculative, no experimental proof or detailed analysis is available to support the conjecture. Basic properties of algorithms, representations & concepts defined. Basic principles coded. Experiments performed with synthetic data.	Documented description of the application/concept that addresses feasibility and benefit
3	Analytical and/ or experimental critical function or characteristic proof-of-concept	Development of limited functionality to validate critical properties and predictions using non-integrated software components	Documented analytical/experimental results validating predictions of key parameters
4	Component or breadboard validation in laboratory	Key, functionally critical, software components are integrated, and functionally validated, to establish interoperability and begin architecture development. Relevant Environments defined and performance in this environment predicted.	Documented test performance demonstrating agreement with analytical predictions. Documented definition of relevant environment.
5	Component or breadboard validation in a relevant environment	End-to-end Software elements implemented and interfaced with existing systems/simulations conforming to target environment. End-to-end software system, tested in relevant environment, meeting predicted performance. Operational Environment Performance Predicted. Prototype implementations developed.	Documented test performance demonstrating agreement with analytical predictions. Documented definition of scaling requirements.
6	System/subsystem model or prototype demonstration in a relevant environment	Prototype implementations of the software demonstrated on full-scale realistic problems. Partially integrate with existing hardware/software systems. Limited documentation available. Engineering feasibility fully demonstrated.	Documented test performance demonstrating agreement with analytical predictions.
7	System prototype demonstration in space	Prototype software exists having all key functionality available for demonstration and test. Well integrated with operational hardware/software systems demonstrating operational feasibility. Most software bugs removed. Limited documentation available.	Documented test performance demonstrating agreement with analytical predictions
8	Actual system completed and flight qualified through test and demonstration	All software has been thoroughly debugged and fully integrated with all operational hardware and software systems. All user documentation, training documentation, and maintenance documentation completed. All functionality successfully demonstrated in simulated operational scenarios. V&V completed..	Documented test performance verifying analytical predictions
9	Actual system flight proven through successful mission operations	All software has been thoroughly debugged and fully integrated with all operational hardware/software systems. All documentation has been completed. Sustaining software engineering support is in place. System has been successfully operated in the operational environment.	Documented mission operational results