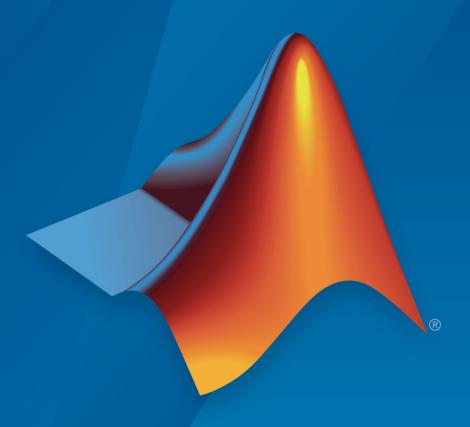
Polyspace® Code Prover™ Access™ Release Notes



MATLAB®



How to Contact MathWorks



Latest news: www.mathworks.com

Sales and services: www.mathworks.com/sales and services

User community: www.mathworks.com/matlabcentral

Technical support: www.mathworks.com/support/contact_us

T

Phone: 508-647-7000



The MathWorks, Inc. 1 Apple Hill Drive Natick, MA 01760-2098

Polyspace[®] Code Prover[™] Access[™] Release Notes

© COPYRIGHT 2019 by The MathWorks, Inc.

The software described in this document is furnished under a license agreement. The software may be used or copied only under the terms of the license agreement. No part of this manual may be photocopied or reproduced in any form without prior written consent from The MathWorks, Inc.

FEDERAL ACQUISITION: This provision applies to all acquisitions of the Program and Documentation by, for, or through the federal government of the United States. By accepting delivery of the Program or Documentation, the government hereby agrees that this software or documentation qualifies as commercial computer software or commercial computer software documentation as such terms are used or defined in FAR 12.212, DFARS Part 227.72, and DFARS 252.227-7014. Accordingly, the terms and conditions of this Agreement and only those rights specified in this Agreement, shall pertain to and govern the use, modification, reproduction, release, performance, display, and disclosure of the Program and Documentation by the federal government (or other entity acquiring for or through the federal government) and shall supersede any conflicting contractual terms or conditions. If this License fails to meet the government's needs or is inconsistent in any respect with federal procurement law, the government agrees to return the Program and Documentation, unused, to The MathWorks, Inc.

Trademarks

MATLAB and Simulink are registered trademarks of The MathWorks, Inc. See www.mathworks.com/trademarks for a list of additional trademarks. Other product or brand names may be trademarks or registered trademarks of their respective holders.

Patents

MathWorks products are protected by one or more U.S. patents. Please see www.mathworks.com/patents for more information.

Contents

R20	19b
User Authentication: Use LDAP search filters to restrict number of users to authenticate	1-2
User Management: Update list of users from LDAP database or LDIF file	1-2
R20	19a
Project Dashboard: Track progress of code quality via Polyspace results	2-2
Project Dashboard: Compare Polyspace Code Prover results against Software Quality Objectives	2-4
Collaborative Review Support: Review Polyspace Code Prover results and source code in web browser	2-5
Collaborative Review Support: Share Polyspace Code Prover results using web links	2-7
Project Authorization Management: Create and enforce authorization policies for access to project	2-8
Bug Tracking Tool Support: Create JIRA issues for Polyspace Code Prover results and assign to developer	2-9

R2019b

Version: 2.1

New Features

Bug Fixes

User Authentication: Use LDAP search filters to restrict number of users to authenticate

In R2019b, if you use your organization's Lightweight Directory Access Protocol (LDAP) to authenticate users, you can filter for and load a subset of users from your LDAP database when you start Polyspace[®] Code Prover[™] Access[™]. Previously, you loaded all LDAP users listed under the **LDAP base** that you specified when you started Polyspace Code Prover Access.

To filter the LDAP users, use the new **LDAP search filter** field in the Cluster Operator settings for the **User Manager** service. For more information, see "Use Your Organization LDAP".

User Management: Update list of users from LDAP database or LDIF file

In R2019b, if you remove users from your organization's Lightweight Directory Access Protocol (LDAP) database or from the Polyspace Access embedded LDAP LDIF file, you can update the list of users stored in the Polyspace Access database. Previously, users that were removed from the LDAP database or from the LDIF file were still visible in the list of users you selected when assigning findings or managing project permissions.

To update the list of users stored in the Polyspace Access database, append /users/list/removed to the URL that you use to "Open the Polyspace Access Web Interface". Only an **Administrator** can perform this operation. For more information, see "Manage LDAP Users in Polyspace Access".

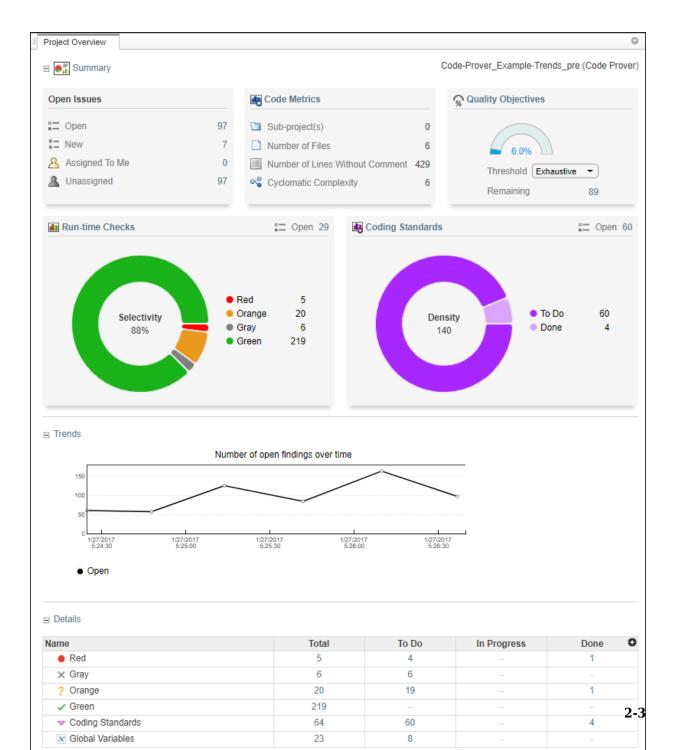
R2019a

Version: 2.0

New Features

Project Dashboard: Track progress of code quality via Polyspace results

Summary: In R2019a, you can track the progress of the code quality of your projects using the new intuitive Polyspace Code Prover Access **DASHBOARD**. When an analysis run is uploaded to the Polyspace Access database, the dashboard updates to give a snapshot of all the available findings, including a progress trend for number of findings compared to previous runs.

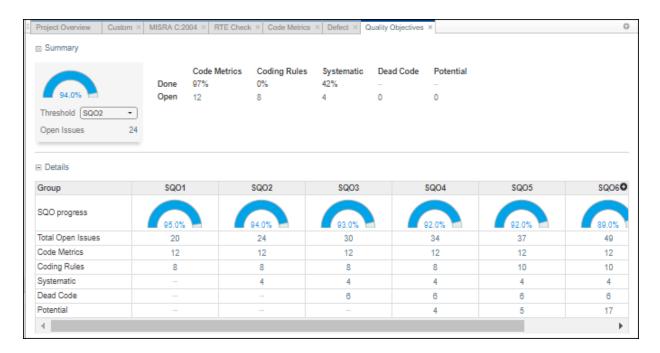


Additional Benefits:

- *Prioritize reviews:* See new and open issues that have not been fixed or justified, then open a detailed results list for just those issues. You can drill down on a set of findings filtered by new, open, unassigned, by family of findings, or by file.
- Aggregate results for multiple projects: If your team works on multiple projects, you
 can move all of those under an umbrella project and view a snapshot of the code
 quality for all your team's projects.
- Authenticate client access: The web interface is behind a login. Only users with a
 Polyspace Code Prover Access license and the appropriate credentials can view the
 dashboard from their web browser.

Project Dashboard: Compare Polyspace Code Prover results against Software Quality Objectives

Summary: In R2019a, check the quality of your code against pre-defined quality objective thresholds using the new Polyspace Code Prover Access **Quality Objectives** dashboard web interface. Use the thresholds to establish PASS/FAIL criteria for the code quality of your projects. For instance, the dashboard displays the progress and remaining open issues across thresholds and categories of findings. Use the available dropdown menu to select a threshold and see a more detailed view of completion by category of finding.

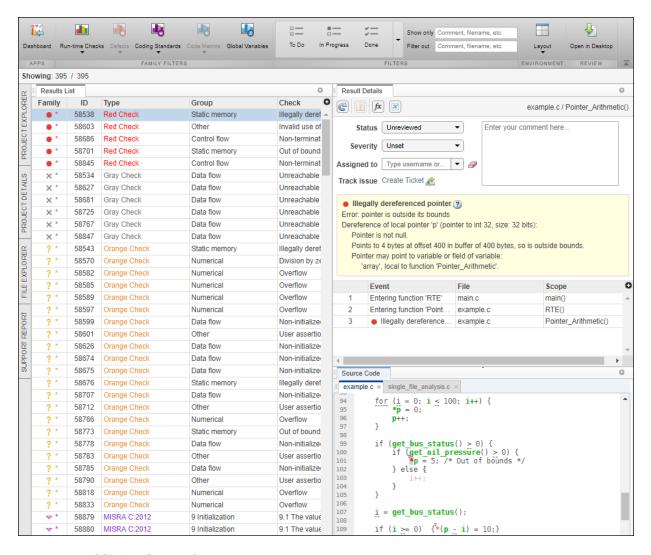


Additional Benefits:

• Achieve better quality code: The dashboard lets you drill down to categories of open issues for each threshold. Click a cell in the table to open a list of findings you need to address to pass a given quality objective threshold.

Collaborative Review Support: Review Polyspace Code Prover results and source code in web browser

Summary: In R2019a, review Polyspace analysis findings and view the findings in your source code using the new Polyspace Code Prover Access **REVIEW** web interface. You do not need to install a Polyspace product on your machine to open and review analysis results.



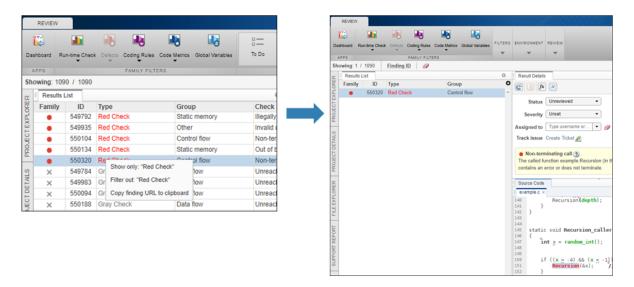
Additional Benefits:

- Facilitate collaborative review: The web interface streamlines the review efforts of your team. For instance:
 - During a team meeting, findings can be assessed and assigned to developers.

- Developers can log into the web interface to review findings assigned to them, and determine whether to justify the findings or fix them.
- A project manager can track the progress of the review by filtering the list of results for findings that are still open.
- Authenticate client access: The web interface is behind a login. Only users with a
 Polyspace Code Prover Access license and the appropriate credentials can view the
 results from their web browser.

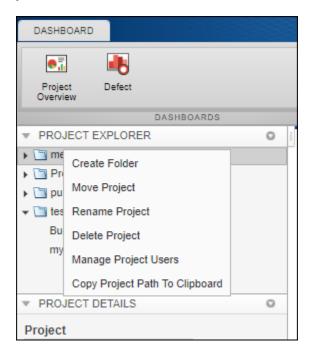
Collaborative Review Support: Share Polyspace Code Prover results using web links

Summary: In R2019a, you can right-click an analysis result in the Polyspace Code Prover Access interface to obtain a URL that you can share with other team members. The link that you provide opens the Polyspace Code Prover Access interface and displays the finding along with the corresponding source code.



Project Authorization Management: Create and enforce authorization policies for access to project

Summary:In R2019a, you can manage project users in Polyspace Code Prover Access by right-clicking a project in the **PROJET EXPLORER** and assigning roles to member of your team. The roles authorize or forbid users from viewing projects.

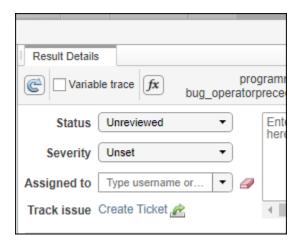


Additional Benefits:

- Restrict access to your source code: Use the authorization policy to restrict who can view the source code you upload with your analysis results.
- *Display relevant projects only:* When they log in to Polyspace Access, users can only see projects for which they are administrators, owners, or contributors. Use the authorization policy so that team members only see projects that they are working on.

Bug Tracking Tool Support: Create JIRA issues for Polyspace Code Prover results and assign to developer

Summary: In R2019a, Polyspace Code Prover supports integration with the JIRA software. If you have an instance of the JIRA software, after you configure Polyspace Code Prover, you can create a JIRA ticket to track Polyspace findings. The ticket is populated with details of the finding and a link to open that finding in Polyspace Access. You can add the ticket to any existing JIRA project.



Once you create a ticket, the **Result Details** pane in the Polyspace Code Prover web interface displays a link to the corresponding JIRA issue.