



Secure Custom Web Application Logins

Version 2024.1
2024-07-02

Secure Custom Web Application Logins

InterSystems IRIS Data Platform Version 2024.1 2024-07-02

Copyright © 2024 InterSystems Corporation

All rights reserved.

InterSystems®, HealthShare Care Community®, HealthShare Unified Care Record®, IntegratedML®, InterSystems Caché®, InterSystems Ensemble®, InterSystems HealthShare®, InterSystems IRIS®, and TrakCare are registered trademarks of InterSystems Corporation. HealthShare® CMS Solution Pack™ HealthShare® Health Connect Cloud™, InterSystems IRIS for Health™, InterSystems Supply Chain Orchestrator™, and InterSystems TotalView™ For Asset Management are trademarks of InterSystems Corporation. TrakCare is a registered trademark in Australia and the European Union.

All other brand or product names used herein are trademarks or registered trademarks of their respective companies or organizations.

This document contains trade secret and confidential information which is the property of InterSystems Corporation, One Memorial Drive, Cambridge, MA 02142, or its affiliates, and is furnished for the sole purpose of the operation and maintenance of the products of InterSystems Corporation. No part of this publication is to be used for any other purpose, and this publication is not to be reproduced, copied, disclosed, transmitted, stored in a retrieval system or translated into any human or computer language, in any form, by any means, in whole or in part, without the express prior written consent of InterSystems Corporation.

The copying, use and disposition of this document and the software programs described herein is prohibited except to the limited extent set forth in the standard software license agreement(s) of InterSystems Corporation covering such programs and related documentation. InterSystems Corporation makes no representations and warranties concerning such software programs other than those set forth in such standard software license agreement(s). In addition, the liability of InterSystems Corporation for any losses or damages relating to or arising out of the use of such software programs is limited in the manner set forth in such standard software license agreement(s).

THE FOREGOING IS A GENERAL SUMMARY OF THE RESTRICTIONS AND LIMITATIONS IMPOSED BY INTERSYSTEMS CORPORATION ON THE USE OF, AND LIABILITY ARISING FROM, ITS COMPUTER SOFTWARE. FOR COMPLETE INFORMATION REFERENCE SHOULD BE MADE TO THE STANDARD SOFTWARE LICENSE AGREEMENT(S) OF INTERSYSTEMS CORPORATION, COPIES OF WHICH WILL BE MADE AVAILABLE UPON REQUEST.

InterSystems Corporation disclaims responsibility for errors which may appear in this document, and it reserves the right, in its sole discretion and without notice, to make substitutions and modifications in the products and practices described in this document.

For Support questions about any InterSystems products, contact:

InterSystems Worldwide Response Center (WRC)

Tel: +1-617-621-0700

Tel: +44 (0) 844 854 2917

Email: support@InterSystems.com

Table of Contents

Secure Custom Web Application Logins	1
1 About Creating a Custom CSP Login Page	1
2 About Creating a Custom Zen Login Page	1

Secure Custom Web Application Logins

In addition to its recommended support for REST applications, InterSystems products support two types of legacy web applications: CSP and Zen. When configuring custom login pages that use CSP and Zen, it is important that you follow recommended protocols. These protocols provide greater security and minimize incompatibilities on upgrades to new products or versions.

1 About Creating a Custom CSP Login Page

To create a custom CSP login page:

1. Ensure that the Web Gateway user (**CSPSystem**) has permissions to read the database for where the custom login page is located. Assign the desired [database resource](#) to an appropriate [role](#), and then assign that role to the **CSPSystem user**.
2. Create a subclass of the `%CSP.Login` page.
3. To customize your application's behavior, override the subclass's **Draw** methods, so that the page looks how you want. These include methods that modify the appearance of the login page and methods that modify the appearance of the security token page (if you are using two-factor authentication):
 - Login page methods — **DrawCSS3STYLE**, **DrawHEAD**, **DrawSTYLE**, **DrawTitle**
 - Security token (ST) page methods — **DrawSTHEAD**, **DrawSTTitle**

Note that the **DrawTitle** and **DrawSTTitle** methods call the **DrawTitleSection** method.

4. Invoke the subclass as needed in your application.

Important: When creating a custom login page, you must use a subclass of `%CSP.Login`. Other approaches for creating login pages in CSP applications can cause problems of various kinds.

If you have written custom login pages that do not use a subclass of `%CSP.Login` and you apply any changes from InterSystems that upgrade or secure your instance, your login pages may fail without error messages. For example, users may attempt to log in with valid usernames and passwords, but their logins will fail without any visible cause. This situation may indicate that you need to change your custom login to use the required approach.

2 About Creating a Custom Zen Login Page

When creating a custom Zen login page, use the `<loginForm>` component in accordance with the procedure described in the “[Controlling Access to Applications](#)” section of the “[Zen Security](#)” chapter of *Developing Zen Applications*.

Important: When creating a custom login page, you must use the <loginForm> component. Other approaches for creating login pages in Zen applications can cause problems of various kinds.

If you have written custom login pages that do not use the <loginForm> component and you apply any changes from InterSystems that upgrade or secure your instance, your login pages may fail without error messages. For example, users may attempt to log in with valid usernames and passwords, but their logins will fail without any visible cause. This situation may indicate that you need to change your custom login to use the required approach.