You can use <u>global events</u> to define custom actions that the system performs after a user signs in or out of Kentico when using <u>claims-based authentication</u>. See the **SecurityEvents** section of the <u>global event reference</u> to learn more about the available options.

Sign-in events

To set up a custom action, which the system performs after a user tries to access a restricted section of Kentico, implement a handler for the **SecurityEvents.AuthenticationRequested.Execute** event. For example, you can set up your own redirection to an identity provider.

The following code is a simple example of a <u>custom module class</u> that writes information into the system event log when a user attempts to access a restricted page or section in Kentico.

```
using CMS;
using CMS.DataEngine;
using CMS.Membership;
using CMS.EventLog;
// Registers the custom module into the system
[assembly: RegisterModule(typeof(CustomAuthenticationModule))]
public class CustomAuthenticationModule : Module
        // Module class constructor, the system registers the module under the name
"CustomAuthentication"
        public CustomAuthenticationModule()
                : base("CustomAuthentication")
        }
        // Contains initialization code that is executed when the application starts
        protected override void OnInit()
        {
                base.OnInit();
                // Assigns a handler to the SecurityEvents.AuthenticationRequested.
Execute event
                // This event occurs when users attempt to access a restricted section
of Kentico
                SecurityEvents.AuthenticationRequested.Execute += SignIn_Execute;
        }
        // Handler method that writes the URL from which the authentication request
was made into the event log
        // You can replace it with your custom code
        private void SignIn_Execute(object sender, AuthenticationRequestEventArgs e)
                string message = string.Format("Custom code handled the authentication
event on URL: {0}", e.RequestedUrl);
                EventLogProvider.LogInformation("Custom code", "SIGN_IN", message);
        }
}
```

Sign-out events

To set up a custom action that the system performs after a user signs out of Kentico, implement a handler for the **SecurityEvent s.SignOut.Before** event. For example, you can set up simultaneous sign-out from an external CRM or another system.

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The following code is a simple example of a <u>custom module class</u> that writes information into the system event log when a user attempts to sign out of Kentico.

```
using CMS;
using CMS.DataEngine;
using CMS.Membership;
using CMS.EventLog;
// Registers the custom module into the system
[assembly: RegisterModule(typeof(CustomAuthenticationModule))]
public class CustomAuthenticationModule : Module
{
        // Module class constructor, the system registers the module under the name
"CustomAuthentication"
        public CustomAuthenticationModule()
                : base("CustomAuthentication")
        }
        // Contains initialization code that is executed when the application starts
        protected override void OnInit()
        {
                base.OnInit();
                // Assigns a handler to the SecurityEvents.SignOut.Before event
                // This event occurs when users attempt to sign out of Kentico
                SecurityEvents.SignOut.Before += SignOut_Before;
        }
        // Handler method that writes the username and sign-out URL into the event log
        // You can replace it with your custom code
        private void SignOut_Before(object sender, SignOutEventArgs e)
                string message = string.Format("Custom code handled the sign-out event
for user {0} on URL {1}", e.User.FullName, e.SignOutUrl);
                EventLogProvider.LogInformation("Custom code", "SIGN_OUT", message);
        }
}
```

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