

# FunctionAuthnConfiguration



This feature depends on V3.4.0 of the IdP software.

**Current File(s):** *conf/authn/function-authn-config.xml*

**Format:** Native Spring

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## Overview

The authn/Function login flow is an extension point that allows authentication to be handled by a deployer-supplied Function object, which can be written in Java, a scripting language, etc. It simplifies authoring certain kinds of custom login flows (essentially it provides the "flow" part) and potentially simplifies some [MultiFactorAuthnConfiguration](#) scenarios by moving some of the logic into a separate component.

## General Configuration

Use *authn/function-authn-config.xml* to configure this flow. Only a couple of beans are defined, chiefly the core of the flow, a required bean named **shibboleth.authn.Function.ResultLookupStrategy**, of type `Function<ProfileRequestContext, Object>`

If the function returns a null, then authentication fails (this is how to signal a controlled failure). Otherwise, the function can return a String (the username), a [Principal](#), or a [Subject](#), and the system will construct an appropriate [AuthenticationResult](#) around whatever is returned.

## Reference

### Beans

Bean ID	Type	Default	Function
shibboleth.authn.Function.resultLookupStrategy	<code>Function&lt;ProfileRequestContext, Object&gt;</code>		A function to produce the authentication result (see above)
shibboleth.authn.Function.resultCachingPredicate	<code>Predicate&lt;ProfileRequestContext&gt;</code>		An optional bean that can be defined to control whether to preserve the authentication result in an IdP session
shibboleth.authn.Function.addDefaultPrincipals	Boolean	true	Whether to add the content of the <code>supportedPrincipals</code> property of the underlying flow descriptor to the resulting <a href="#">Subject</a>

## Notes

None