

Provisioning and Integration

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Integrating Grouper with an application may involve [Web Services](#), [Grouper Client](#), LDAP, SAML, [XMPP notification](#) or other tools. You design the integration to suit the requirements of your site.

Important decisions when designing the integration include:

- Should authorization to access the application be groups-based or permissions-based?
- Use LDAP or [Web Services](#) or SAML entitlements?
- Use cached data versus live calls?
- Use the Grouper API or a local representation?

Below are some of the methods of connecting with Grouper and examples of how to use them:

- [Change log consumers](#)
- [Grouper external subjects](#)
- [Grouper External systems configuration](#)
- [Grouper - Import to SQL](#)
- [Grouper - Loader](#)
- [Grouper Messaging System](#)
- [Grouper Provisioners](#)
- [Grouper Provisioning: PSPNG \(Legacy\)](#)
- [Grouper provisioning framework](#)
- [Grouper Shibboleth Integration \(Legacy\)](#)
- [Hooks](#)
- [Integer IDs on Grouper objects](#)
- [Subject API](#)