

# Grouper TIER status

Over the last two years, Grouper has completed:

- [Grouper instrumentation](#)
- [Real time loader updates](#)
- [Attestation](#) - reminders to managers of ad hoc groups to periodically review memberships
- [TIER API](#) - Grouper web service implementation of TIER API, including in the grouper installer
- [Grouper loader in UI](#) - Configure, diagnose, monitor, run grouper loader jobs in the UI
- [Subject source diagnostics in UI](#) - Diagnose subject source configuration issues
- [Ongoing progress in TIER packaging for Grouper](#)
- [UI accessibility improvements](#)
- [Improve GSH with groovy shell](#)
- [Ongoing PSPNG updates](#)

Our plan for the end of 2018 is

- [Messaging to WS integration](#)
- [Deprovisioning](#)
- Migrate old UIs to the new UI
- Configure subject sources via UI
- Store some configuration in the database
- Rules in UI?
- Compare / migrate access in UI?
- Expire dates in groups and other objects?