

# Logging Service

## Outline

In eGovFramework 3.0 you can use **SLF4J** and **Log4j 2** for interworking with various logging frameworks and implementation of logging, respectively.

In logging service, the external repository is used to log the development and operation of the system for user to refer to the system status in a much easier, more intuitive fashion. Testing codes and operation codes are now all the same for declarative management of logging. Keep in mind, however, that performance overhead occurs if you log too much.

Though being the most commonly used for log output for convenience' sake, use of `System.out.println()` is not recommended because:

- The application server may from time to time overwrite the files when rebooted, regardless of the console log redirected into the output files;
- `System.out.println()` is not available unless in developmental / testing stage and deleting `System.out.println()` prior to operation is not recommended;
- `System.out.println()` is synchronized throughout the duration of disk I/O, thereby giving rise to decreased throughput of the system;
- Stack trace result left in the console, tracing of exception via console is not recommended; and
- Operation of codes for operation and testing may vary.

This Section describes how to use and migrate 4j and Log4j 2.

## Description

- [SLF4J](#)
- [Log4j 2](#)
  - [In-program Configuration](#)
  - [How to work the configuration files](#)