# SAGA-NAREGI Adaptor

# Install Guide

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# 1 Introduction

This document is the SNA (SAGA-NAREGI Adaptor for Job Management) Installation guide.

# 2 What is SNA?

SNA is the SAGA adaptor that is required to use a cluster system by NAREGI.

## 2.1 Files to be installed

SNA will be installed under the directory specified in the environment variable, $SAGA_LOCATION. The following files will be installed.

$SAGA_LOCATION/lib/libsaga_adaptor_naregi_job.a
       SAGA Job Package archive library for SNA

$SAGA_LOCATION/lib/libsaga_adaptor_naregi_job.so
       SAGA Job Package shared library for SNA

$SAGA_LOCATION/share/saga/saga_adaptor_naregi_job.ini
       SAGA Job Package adaptor configuration file for SNA

# 3 How to install

This chapter describes how to install SNA.

## 3.1 Pre-installation

There are requirements and environmental variables to be prepared before to install SNA.

### 3.1.1 Requirements

The following is required to install SNA.
- SAGA Environment
- SAGA source code

In order to setup SAGA environment for SNA, please refer to "SNA Environment Setup Guide".

### 3.1.2 Environment variables

The following environment variables are required to compile and install SNA.

- SAGA_LOCATION

    It is the directory where SAGA is installed. (i.e. /usr/local/saga)

- SAGA_ROOT

    It is the directory where SAGA source code exists.
    (i.e. /home/user/work/saga-cpp-1.3.3)

$SAGA_LOCATION is required to compile and execute SAGA applications. $SAGA_ROOT is required to compile SNA but it is not specified when SAGA applications are compiled and executed.

### 3.2   Compile and Install

The following is the steps to compile and install SNA.

(1) Extract the distributed file.

    $tar jxvf sna-1.0.tar.bz2

(2) Change directory to naregi_job directory.

    $ cd sna-1.0/adaptors/naregi/naregi_job

(3) Execute "make install"

    # make install

# 4   Configuration

This chapter describes configurations of SNA.

## 4.1   Adaptor configuration file

This section explains about the adaptor configuration file that is $SAGA_LOCATION/share/saga/saga_adaptor_naregi_job.ini.

### 4.1.1 [saga.adaptors.naregi_job]

*name*
>   "naregi_job" is specifed. No change in typical use.

*path*
>   "[saga.location]/lib" is specified. No change in typical use.

*enabled*
>   You can disable SNA by specifying "false" here. No change in typical use.

### 4.1.2 [saga.adaptors.naregi_job.cli]

This is reserved for future use.

### 4.1.3 [saga.adaptors.naregi_job.wfml.transfer]

This section defines the default values of the transfer activity.

WallTimeLimit
>   This defines the WallTimeLimit attribute in the transfer elements. The default value is "300" if this attribute is not specified.