

# **SEED Software Release Guide**

**Version 1.6.1**

## **1. Introduction**

This documentation is for SEED version 1.6.1.

## **2. Prerequisites**

1. `bitbucket.org` account
2. `git`

### **3. Tools and terms**

#### **1. WinISO**

## 4. SEED Doc

### Introduction

The repository is hosted at <https://bitbucket.org/jcisoft/seed-doc.git>

### Branches

The central repo holds two main branches with an infinite lifetime:

master: <https://bitbucket.org/jcisoft/seed-doc/branch/master>

develop: <https://bitbucket.org/jcisoft/seed-doc/branch/develop>

The master to be the main branch where the source code of HEAD always reflects a production-ready state.

The develop to be the main branch where the source code of HEAD always reflects a state with the latest delivered development changes for the next release.

### Tags

When the source code in the develop branch reaches a stable point and is ready to be released, all of the changes should be merged back into master somehow and then tagged with a release number.

<https://bitbucket.org/jcisoft/seed-doc/commits/tag/version-1-6-1>

### Downloads

<https://bitbucket.org/jcisoft/seed-doc/get/version-1-6-1.zip>

## 5. SEED API

### Introduction

The repository is hosted at <https://bitbucket.org/jcisoft/seed-api.git>

### Branches

The central repo holds two main branches with an infinite lifetime:

master: <https://bitbucket.org/jcisoft/seed-api/branch/master>

develop: <https://bitbucket.org/jcisoft/seed-api/branch/develop>

The master to be the main branch where the source code of HEAD always reflects a production-ready state.

The develop to be the main branch where the source code of HEAD always reflects a state with the latest delivered development changes for the next release.

### Tags

When the source code in the develop branch reaches a stable point and is ready to be released, all of the changes should be merged back into master somehow and then tagged with a release number.

<https://bitbucket.org/jcisoft/seed-api/commits/tag/version-1-6-0>

### Downloads

<https://bitbucket.org/jcisoft/seed-api/get/version-1-6-0.zip>

## 6. SEED Windows

### Introduction

The repository is hosted at <https://bitbucket.org/jcisoft/seed-windows.git>

### Branches

The central repo holds two main branches with an infinite lifetime:

master: <https://bitbucket.org/jcisoft/seed-windows/branch/master>

develop: <https://bitbucket.org/jcisoft/seed-windows/branch/develop>

The master to be the main branch where the source code of HEAD always reflects a production-ready state.

The develop to be the main branch where the source code of HEAD always reflects a state with the latest delivered development changes for the next release.

### Tags

When the source code in the develop branch reaches a stable point and is ready to be released, all of the changes should be merged back into master somehow and then tagged with a release number.

<https://bitbucket.org/jcisoft/seed-windows/commits/tag/version-1-6-1>

### Downloads

<https://bitbucket.org/jcisoft/seed-windows/get/version-1-6-1.zip>

## 7. ADS SEED Gateway

### Introduction

The repository is hosted at <https://bitbucket.org/jcisoft/ads-seed-gateway>.git

### Branches

The central repo holds two main branches with an infinite lifetime:

master: <https://bitbucket.org/jcisoft/ads-seed-gateway/branch/master>

develop: <https://bitbucket.org/jcisoft/ads-seed-gateway/branch/develop>

The master to be the main branch where the source code of HEAD always reflects a production-ready state.

The develop to be the main branch where the source code of HEAD always reflects a state with the latest delivered development changes for the next release.

### Tags

When the source code in the develop branch reaches a stable point and is ready to be released, all of the changes should be merged back into master somehow and then tagged with a release number.

<https://bitbucket.org/jcisoft/ads-seed-gateway/commits/tag/version-1-6-0>

### Downloads

<https://bitbucket.org/jcisoft/ads-seed-gateway/get/version-1-6-0.zip>



## 8. BACnet SEED Gateway

### Introduction

The repository is hosted at <https://bitbucket.org/jcisoft/bacnet-seed-gateway>.git

### Branches

The central repo holds two main branches with an infinite lifetime:

master: <https://bitbucket.org/jcisoft/bacnet-seed-gateway/branch/master>

develop: <https://bitbucket.org/jcisoft/bacnet-seed-gateway/branch/develop>

The master to be the main branch where the source code of HEAD always reflects a production-ready state.

The develop to be the main branch where the source code of HEAD always reflects a state with the latest delivered development changes for the next release.

### Tags

When the source code in the develop branch reaches a stable point and is ready to be released, all of the changes should be merged back into master somehow and then tagged with a release number.

<https://bitbucket.org/jcisoft/bacnet-seed-gateway/commits/tag/version-1-6-0>

### Downloads

<https://bitbucket.org/jcisoft/bacnet-seed-gateway/get/version-1-6-0.zip>

## 9. OPC SEED Gateway

### Introduction

The repository is hosted at <https://bitbucket.org/jcisoft/opc-seed-gateway.git>

### Branches

The central repo holds two main branches with an infinite lifetime:

master: <https://bitbucket.org/jcisoft/opc-seed-gateway/branch/master>

develop: <https://bitbucket.org/jcisoft/opc-seed-gateway/branch/develop>

The master to be the main branch where the source code of HEAD always reflects a production-ready state.

The develop to be the main branch where the source code of HEAD always reflects a state with the latest delivered development changes for the next release.

### Tags

When the source code in the develop branch reaches a stable point and is ready to be released, all of the changes should be merged back into master somehow and then tagged with a release number.

<https://bitbucket.org/jcisoft/opc-seed-gateway/commits/tag/version-1-6-0>

### Downloads

<https://bitbucket.org/jcisoft/bacnet-seed-gateway/get/version-1-6-0.zip>

## 10. SEED Web APP

### Introduction

The repository is hosted at <https://bitbucket.org/jcisoft/seed-web-app.git>

### Branches

The central repo holds two main branches with an infinite lifetime:

master: <https://bitbucket.org/jcisoft/seed-web-app/branch/master>

develop: <https://bitbucket.org/jcisoft/seed-web-app/branch/develop>

The master to be the main branch where the source code of HEAD always reflects a production-ready state.

The develop to be the main branch where the source code of HEAD always reflects a state with the latest delivered development changes for the next release.

### Tags

When the source code in the develop branch reaches a stable point and is ready to be released, all of the changes should be merged back into master somehow and then tagged with a release number.

<https://bitbucket.org/jcisoft/seed-web-app/commits/tag/version-1-6-0>

### Downloads

<https://bitbucket.org/jcisoft/seed-web-app/get/version-1-6-0.zip>

## 11. SEED Report

### Introduction

The repository is hosted at <https://bitbucket.org/jcisoft/seed-report.git>

### Branches

The central repo holds two main branches with an infinite lifetime:

master: <https://bitbucket.org/jcisoft/seed-report/branch/master>

develop: <https://bitbucket.org/jcisoft/seed-report/branch/develop>

The master to be the main branch where the source code of HEAD always reflects a production-ready state.

The develop to be the main branch where the source code of HEAD always reflects a state with the latest delivered development changes for the next release.

### Tags

When the source code in the develop branch reaches a stable point and is ready to be released, all of the changes should be merged back into master somehow and then tagged with a release number.

<https://bitbucket.org/jcisoft/seed-report/commits/tag/version-1-6-0>

### Downloads

<https://bitbucket.org/jcisoft/seed-report/get/version-1-6-0.zip>

## 12. SEED Database

### Introduction

The repository is hosted at <https://bitbucket.org/jcisoft/seed-database.git>

### Branches

The central repo holds two main branches with an infinite lifetime:

master: <https://bitbucket.org/jcisoft/seed-database/branch/master>

develop: <https://bitbucket.org/jcisoft/seed-database/branch/develop>

The master to be the main branch where the source code of HEAD always reflects a production-ready state.

The develop to be the main branch where the source code of HEAD always reflects a state with the latest delivered development changes for the next release.

### Tags

When the source code in the develop branch reaches a stable point and is ready to be released, all of the changes should be merged back into master somehow and then tagged with a release number.

<https://bitbucket.org/jcisoft/seed-database/commits/tag/version-1-6-0>

### Downloads

<https://bitbucket.org/jcisoft/seed-database/get/version-1-6-0.zip>

## 13. SEED Report Publish

### Introduction

The repository is hosted at <https://bitbucket.org/jcisoft/seed-report-publish.git>

### Branches

The central repo holds two main branches with an infinite lifetime:

master: <https://bitbucket.org/jcisoft/seed-report-publish/branch/master>

The master to be the main branch where the source code of HEAD always reflects a production-ready state.

The develop to be the main branch where the source code of HEAD always reflects a state with the latest delivered development changes for the next release.

### Tags

When the source code in the develop branch reaches a stable point and is ready to be released, all of the changes should be merged back into master somehow and then tagged with a release number.

<https://bitbucket.org/jcisoft/seed-report/commits/tag/version-1-6-0>

### Downloads

<https://bitbucket.org/jcisoft/seed-report-publish/commits/tag/version-1-6-0.zip>

## 14. SEED Infrastructure

### Introduction

The repository is hosted at <https://bitbucket.org/jcisoft/seed-infrastructure>.git

### Branches

The central repo holds two main branches with an infinite lifetime:

master: <https://bitbucket.org/jcisoft/seed-infrastructure/branch/master>

develop: <https://bitbucket.org/jcisoft/seed-infrastructure/branch/develop>

The master to be the main branch where the source code of HEAD always reflects a production-ready state.

The develop to be the main branch where the source code of HEAD always reflects a state with the latest delivered development changes for the next release.

### Tags

When the source code in the develop branch reaches a stable point and is ready to be released, all of the changes should be merged back into master somehow and then tagged with a release number.

<https://bitbucket.org/jcisoft/seed-infrastructure/commits/tag/version-1-6-0>

### Downloads

<https://bitbucket.org/jcisoft/seed-infrastructure/get/version-1-6-0.zip>

## 15. SEED InstallShield

### Introduction

The repository is hosted at <https://bitbucket.org/jcisoft/seed-installshield>.git

### Branches

The central repo holds two main branches with an infinite lifetime:

master: <https://bitbucket.org/jcisoft/seed-installshield/branch/master>

develop: <https://bitbucket.org/jcisoft/seed-installshield/branch/develop>

The master to be the main branch where the source code of HEAD always reflects a production-ready state.

The develop to be the main branch where the source code of HEAD always reflects a state with the latest delivered development changes for the next release.

### Tags

When the source code in the develop branch reaches a stable point and is ready to be released, all of the changes should be merged back into master somehow and then tagged with a release number.

<https://bitbucket.org/jcisoft/seed-installshield/commits/tag/version-1-6-0>

### Downloads

<https://bitbucket.org/jcisoft/seed-installshield/get/version-1-6-0.zip>



## **16. Checking prior to release**

All bugs and issues are fixed.

## 17. Preparing Product Package

1. Create a new folder C:\seed-1-6-1;
2. Download the below file and extract to a temporary folder,

<https://bitbucket.org/jcisoft/seed-doc/get/version-1-6-1.zip>

Copy the below files to C:\seed-1-6-1\documents\,

SEED 用户手册 1.6 精简版.pdf

建筑设施能耗分析系统 SEED 用户手册 1.6.pdf

建筑设施能耗管理系统安装手册 1.6.pdf

3. Download the below file and extract to a temporary folder,

<https://bitbucket.org/jcisoft/seed-api/get/version-1-6-0.zip>

Copy the seed-api.zip to C:\seed-1-6-1\,

4. Download the below file and extract to a temporary folder,

<https://bitbucket.org/jcisoft/seed-web-app/get/version-1-6-0.zip>

Copy the below folders and files to C:\seed-1-6-1\seed-web-app\,

css

font

images

img

js

templates

api.js

help.pdf

humans.txt

robots.txt

index.html

5. Download the below file and extract to a temporary folder,

<https://bitbucket.org/jcisoft/seed-report-publish/commits/tag/version-1-6-0.zip>

Copy the below folders and files to C:\seed-1-6-1\seed-web-app\

bin

CommonReport

Dll

ReportImg

Scripts

Views

Global.asax

packages.config

Web.config

6. Download the below file and extract to a temporary folder,

<https://bitbucket.org/jcisoft/seed-windows/get/version-1-6-1.zip>

Open the SEEDWindows.sln with Visual Studio 2013, and Build Solution

Protect files in \bin\Release as below with .NET reactor,

SEEDManager.exe, SEEDCommon.dll, SEEDDBUtility.dll, SEEDModel.dll, SEEDMySQLBLL.dll, SEEDMySQLDAL.dll, and SEEDSpiderService.exe

Replace old files with protected files in \bin\Release

Open seed-windows.ism in seed-installshield with Install Shield 2015. Check if the PATH\_TO\_RELEASE\_FILES is up to date and Build.

Copy the setup.exe under [seed-installshield\seed-windows\PROJECT\_ASSISTANT\SINGLE\_EXE\_IMAGE\DiskImages\DISK1 to C:\seed-1-6-1\ and rename to SEEDManagerSetup.1.6.1.exe

7. Download the below file and extract to a temporary folder,

<https://bitbucket.org/jcisoft/ads-seed-gateway/get/version-1-6-0.zip>

Open the SEEDWindows.sln with Visual Studio 2013, and Build Solution

Protect files in \bin\Release as below with .NET reactor,

ADSSEEDGateway.exe, ADSSEEDGatewayService.exe, SEEDGatewayBLL.dll, SEDGatewayCommon.dll, SEEDGatewayDAL.dll, SEEDGatewayDBUtility.dll, SEEDGatewayModel.dll

Replace old files with protected files in \bin\Release

Open ads-seed-gateway.ism in seed-installshield with Install Shield 2015. Check if the PATH\_TO\_RELEASE\_FILES is up to date and Build.

Copy the setup.exe under [seed-installshield\ads-seed-gateway\PROJECT\_ASSISTANT\SINGLE\_EXE\_IMAGE\DiskImages\DISK1 to C:\seed-1-6-1\ and rename to ADSSEEDGatewaySetup.1.6.0.exe

8. Download the below file and extract to a temporary folder,

<https://bitbucket.org/jcisoft/opc-seed-gateway/get/version-1-6-0.zip>

Open the SEEDWindows.sln with Visual Studio 2013, and Build Solution

Protect files in \bin\Release as below with .NET reactor,

OPCSEEDGateway.exe, OPCSEEDGatewayService.exe, SEEDGatewayBLL.dll, SEDGatewayCommon.dll, SEEDGatewayDAL.dll, SEEDGatewayDBUtility.dll, SEEDGatewayModel.dll

Replace old files with protected files in \bin\Release

Open opc-seed-gateway.ism in seed-installshield with Install Shield 2015. Check if the PATH\_TO\_RELEASE\_FILES is up to date and Build.

Copy the setup.exe under [seed-installshield\opc-seed-gateway\PROJECT\_ASSISTANT\SINGLE\_EXE\_IMAGE\DiskImages\DISK1 to C:\seed-1-6-1\ and rename to OPCSEEDGatewaySetup.1.6.0.exe

9. Download the below file and extract to a temporary folder,

<https://bitbucket.org/jcisoft/bacnet-seed-gateway/get/version-1-6-0.zip>

Open the SEEDWindows.sln with Visual Studio 2013, and Build Solution

Protect files in \bin\Release as below with .NET reactor,

BACnetSEEDGateway.exe, BACnetSEEDGatewayService.exe, SEEDGatewayBLL.dll, SEDGatewayCommon.dll, SEEDGatewayDAL.dll, SEEDGatewayDBUtility.dll, SEEDGatewayModel.dll

Replace old files with protected files in \bin\Release

Open bacnet-seed-gateway.ism in seed-installshield with Install Shield 2015. Check if the PATH\_TO\_RELEASE\_FILES is up to date and Build.

Copy the setup.exe under [seed-installshield\bacnet-seed-gateway\PROJECT\_ASSISTANT\SINGLE\_EXE\_IMAGE\DiskImages\DISK1 to C:\seed-1-6-1\ and rename to BACnetSEEDGatewaySetup.1.6.0.exe

10. Download the below file and extract to a temporary folder,

<https://bitbucket.org/jcisoft/seed-database/get/version-1-6-0.zip>

Copy the below files to C:\seed-1-6-1\database\,

my-ini-config-5.7.txt

seed\_billing\_db.sql

seed\_building\_db.sql

seed\_energy\_db.sql

seed\_historian\_db.sql

seed\_user\_db.sql

11. Download the below file and extract to a temporary folder,

<https://bitbucket.org/jcisoft/seed-infrastructure/get/version-1-6-0.zip>

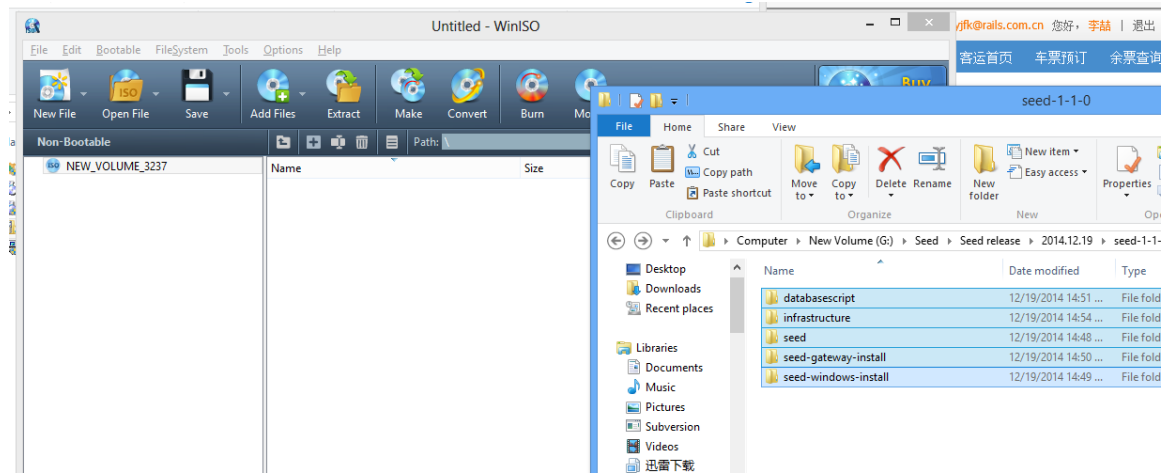
Copy the below folders to C:\seed-1-6-1\,

additional-tools

prerequisites

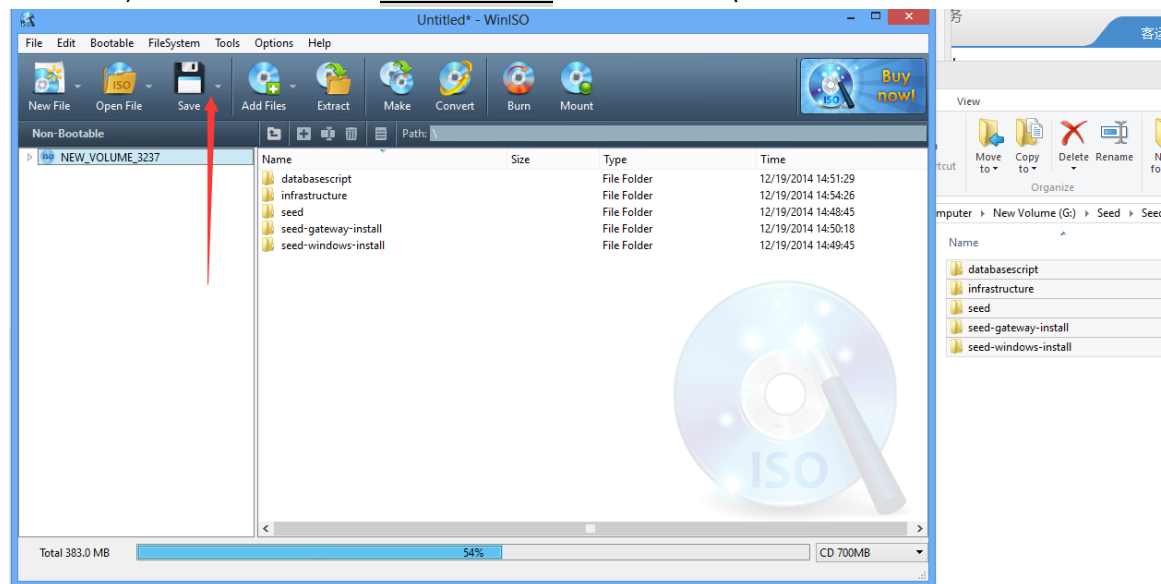
## 18. Burning Product Disc

### Open WinISO



Click Add Files and select all folders and files in C:\seed-1-6-1\ to WinISO

Click Save, enter the File name SEED-1-6-1.iso and save to C:\.



The SEED setup package has been successfully created!