

## 1. Installation Guide

### 1.1 System Prerequisites

- MySQL database engine 5.1 or later versions. Make sure the innodb engine is active.
- Java Runtime Environment 5 or later.

### 1.2 System Installation

Follow the following steps:

- Download system binaries from the site (put link out here)
- Unzip the file DAFv2.bin.zip (ex. X:\DAFv2.bin)
- Use the command line to change the working directory to the extracted folder (X:\DAFv2.bin)
- Use the DAFv2Installer.jar to setup the system. DAFv2Installer can work into two modes
  - o Batch Mode
  - o Interactive Mode

Both modes are described in details in following subsections.

#### 1.2.1 Batch Mode

You can pass all arguments to DAFv2Installer.jar in one step; DAFv2Installer.jar has options representing each of installations keys described in table 1.2.

Ex. java -jar DAFv2Installer.jar -salt abc -dbroot root ...etc.

This command will set the salt key to “abc” and DB admin to “root”.

The following table illustrates all options.

| Option    | Key          | Description  | Mandatory |
|-----------|--------------|--|-----------|
| -salt     | Salt Key     | Encryption in DAFv2 has two keys; the salt key is one of them. Admin can choose any salt key in installation, this value will be used all over DAFv2 | Yes       |
| -dbroot   | DB admin     | When admin installs MySQL database engine, he should create a full privileged User like “root” for example, this user is the DB admin.               | Yes       |
| -rootpwd  | DB admin PWD | The password of DB admin   | Yes       |
| -dbserver | DB server IP | The IP or server name which holds the  | Yes       |

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|             |                              |   |     |
|-------------|------------------------------|---|-----|
|             |                              | database engine, this values used by installer with the DB admin credentials in order to install DAF02 schema. i.e. 172.16.0.43 is the IP of the Database server  |     |
| -dbport     | DB server port               | The port of MySQL database, the default value is 3306. You should make sure that this port is opened through your firewall (if exists)  | Yes |
| -dbusr      | DB User                      | DAFv2 is not using root account_ as default user_ for reading/writing in DAF02 database, instead it creates a simple user with execute and select privileges only. DB user represents this simple user. | Yes |
| -dbpwd      | DB Password:                 | The password of DB user   | Yes |
| -bkip       | Backup Server IP             | DAFv2 need a server to save jobs the finished backup phase; this server could be your workflow storage server. For safety sake, we recommend to separate the workflow storage server and backup server. | Yes |
| -bkusr      | Backup Server User Name      | User with read/write access on the backup server.   | Yes |
| -bkpwd      | Backup Server User Password: | The password of backup server user.   | Yes |
| -domname    | Domain Name                  | This key used in LDAP authentication, it represent the name of you domain. If you don not need to use authentication through LDAP you an ignore the this value  | No  |
| -domip      | Domain IP                    | The IP of your domain controller.   | No  |
| -ldapport   | LDAP Port                    | The port used by LDAP, default is <b>389</b>  | No  |
| -actdir     | IsActiveDirectory            | If your LDAP server is Active Directory then you should type 1, otherwise type 0.   | No  |
| -bindbase   | BindBase                     | The bind base of LDAP server. Ex. dc=local,dc=bibalex,dc=dom  | No  |
| -searchbase | SearchBase                   | Theserach base in LDAP server. Ex. dc=local,dc=bibalex,dc=dom   | No  |

**Table 1.1 installation Options**

### 1.2.2 Interactive Mode

- Run DAFv2Installer.jar as following  
java -jar DAFv2Installer.jar
- In the shell, DAFv2Installer.jar will start responding to you by enquiring you to enter some values. Some of these values are obligatory and some are optional. Use table 1.2 to understand the functionality of each keys.

| Key                          | Description   | Mandatory |
|------------------------------|---|-----------|
| Salt Key                     | Encryption in DAFv2 has two keys; the salt key is one of them. Admin can choose any salt key in installation, this value will be used all over DAFv2  | Yes       |
| DB admin                     | When admin installs MySQL database engine, he should create a full privileged User like “root” for example, this user is the DB admin.  | Yes       |
| DB admin PWD                 | The password of DB admin  | Yes       |
| DB server IP                 | The IP or server name which holds the database engine, this values used by installer with the DB admin credentials<br><br>in order to install DAF02 schema. i.e. 172.16.0.43 is the IP of the Database server | Yes       |
| DB server port               | The port of MySQL database, the default value is 3306. You should make sure that this port is opened through your firewall (if exists)  | Yes       |
| DB User                      | DAFv2 is not using root account_ as default user_ for reading/writing in DAF02 database, instead it creates a simple user with execute and select privileges only. DB user represents this simple user.       | Yes       |
| DB Password:                 | The password of DB user   | Yes       |
| Backup Server IP             | DAFv2 need a server to save jobs the finished backup phase; this server could be your workflow storage server. For safety sake, we recommend to separate the workflow storage server and backup server.       | Yes       |
| Backup Server User Name      | User with read/write access on the backup server.   | Yes       |
| Backup Server User Password: | The password of backup server user.   | Yes       |

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|                   |  |    |
|-------------------|--|----|
| Domain Name       | This key used in LDAP authentication, it represent the name of you domain. If you don not need to use authentication through LDAP you an ignore the this value | No |
| Domain IP         | The IP of your domain controller.  | No |
| LDAP Port         | The port used by LDAP, default is <b>389</b>   | No |
| IsActiveDirectory | If your LDAP server is Active Directory then you should type 1, otherwise type 0.  | No |
| BindBase          | The bind base of LDAP server. Ex. dc=local,dc=bibalex,dc=dom   | No |
| SearchBase        | Theserach base in LDAP server. Ex. dc=local,dc=bibalex,dc=dom  | No |

**Table 1.2 installation keys**