Guidelines for the Installation

of

Waqf Estate & Waqf Property Archived Documents Management System
[WAMSI-DMS] v1.0

Minorities Affairs Informatics Division
National Informatics Centre (HQ), Government of India
New Delhi
Guidelines for the Installation

of

Waqf Estate & Waqf Property Archived Documents Management System
[WAMSI-DMS]

NIC-MoMA-WAMSI-DMS-SWv1.0-DOCv1.0.0

Prepared by:

Project Management Unit (Waqf), NIC (HQ), New Delhi

Reviewed by:

Mr. Naeem Ahmed, Technical Director, NIC (HQ), New Delhi

Approved by:

Mr. Sanjay S. Gahlout, DDG (NIC) & Chairman (Project Management Committee) of WAMSI

All right reserved. No part of this document, including interior design, cover design and icons, may be reproduced or transmitted in any form, by any means (i.e., electronic, photocopying, recording, or otherwise) without the prior written permission of the Director General, National Informatics Centre, New Delhi
### Amendment Log

<table>
<thead>
<tr>
<th>Version No.</th>
<th>Date</th>
<th>Change Number</th>
<th>Brief Description</th>
<th>Section Change</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.0.0</td>
<td>01-Jan-2011</td>
<td></td>
<td>Installation Guidelines of WAMSI-DMS v1.0</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
# Table of Contents

**Executive Summary**  --------------------------------------------  5

**Softwares to be installed before installing WAMSI-DMS**  -------  6

1. **MS-Window XP Operating System**  ---------------------------------  7

2. **Java 1.6.0**  -------------------------------------------------  7

3. **Apache Ant 1.8.0 or later**  -----------------------------------  15

4. **Apache Tomcat 5.5**  ------------------------------------------  19

5. **PostgreSQL 8.2**  ------------------------------------------------  23

**How to create Database in PostgreSQL**  -----------------------------------  28

**Installation of WAMSI-DMS**  ---------------------------------------  31

**Import Dublin Core Structures into WAMSI-DMS**  ----------------------  37
Executive Summary

A Document Management System (DMS) is a computer system (or set of computer programs) used to track and store electronic documents and/or images of paper documents.

**Waqf Estate & Waqf Property Archived Documents Management System** (referred hereinafter as **WAMSI-DMS**) digitally stores the Waqf Properties related Old Archival Documents depicting the legally ownership rights of the Waqf Properties. These Archival Documents pertaining to each property are Waqf Deed, Record of Right, Gazette Notification, Registration Form etc.

The Output of **Waqf Estate & Waqf Property Archived Documents Management System – Bulk Data Updation Utility** (referred hereinafter as **BDU**) i.e. **Dublin Core Structures** will be the Input for the WAMSI-DMS.

Some of the Features of WAMSI-DMS are
- Authentication
- Personalized accessibility
- Metadata display
- Bulk Documents Upload
- Ease of Access the Archived Documents with various Browsing options
- Normal Searching & Advance Searching with Metadata Fields.
- Archived Documents Download
Installation of Pre-Requisite Softwares

Following Softwares are required to be installed (as per the Order given below) before WAMSI-DMS Installation:

1. MS-Window XP Operating System on exclusive PC for WAMSI-DMS (Preferably Newly formatted PC having two partitions C & D, “C” with an allocation of 50-60 GB and “D” is allocated rest of the disk space)
2. Java 1.6.0 (or Standard SDK) Download from Internet
3. Apache Ant 1.8.0 or later (or any Java Make tools) Download from Internet
4. Apache Tomcat 5.5 Download from Internet
5. PostgreSQL 8.2 Download from Internet
1. MS-Window XP Operating System

Presuming MS-Window XP Operating System is already installed in the PC

2. Java 1.6.0 Installation

- User may check whether java is available in the system. This can be checked using Command prompt. In command prompt the User has to type "java –version" (w/o quotes) and Press Enter Key.

- System may display one of the below messages
  - If it displays the version of java such as java version “1.6.0_22” it means Java is already installed in the system then Java Installation is not required.
  - If it displays as “java” is not recognized as an internal or external command. This means java is not available in your PC then Java Installation is required.

- Installation steps
  - Step 1: User to Run the File ‘Java_ee_sdk-5_08-jdk-6u17-windows.exe’ provided by NIC-PMU for the installation of java in his PC and follow the instructions step by step:
Step 2: Click Next Button:

Step 3: Click “Yes” button to agree to the license and then click the Next Button.
- Step 4: Click Next Button

![Image of Java EE 5 SDK Update & Installation Wizard with 'Next' button highlighted]

- Step 5: Click the 'Create Directory Button'. Directory will automatically be created as installation directory. User to click Next Button.

![Image of confirmation dialog asking to create directory with 'Create Directory' button highlighted]
- Step 6: User to Enter & Re-enter the password “admin123” and then click the Next Button

- Step 7: Click the Next Button
Step 8: Click Install Now Button

Installation is going on:

Step 9: Click Skip Registration Button and then Click Next button
Step 10: Click Finish Button in order to complete the installation process

Step 11: Set the Environment Variable for Java

- Go to My Computer icon on the desktop, Right click on that icon & select Properties option.

- Click the Advance tab & then click the Environment variable button
Select the path and then click the Edit Button:

Add the path of the java jdk bin i.e., C:\Sun\SDK\jdk\bin at the end of the Variable value, separated by semicolon (;) and click cascading OK Buttons.

Restart the PC System:

The user can cross check for the successful installation in the system by going again back to Command Prompt & type Java-version in that.
The System will confirm the installation by displaying the Java version. It should show the java version as “1.6.0.1”
3. Apache Ant 1.8.0 or later Installation

User may check the availability of Apache ant whether it is installed in the PC by typing `ant -version` Command in command prompt. If it is not installed in the User PC then the System will display “Ant is not recognized as an internal or external command”. If it is already installed in the User PC then the System will display the version of Apache Ant.

- **Installation steps**
  - Step 1: Copy the **apache-ant-1.8.0** folder from the folder provided by NIC-PMU.
Step 2: Paste the apache ant folder into C Drive:

- Step 3: Set the Environment Variable for Apache Ant
  - Go to My Computer icon on the desktop, Right click on that icon & select Properties option.
Click the Advance tab & click the Environment Variables Button

Select Path and then click the Edit Button:

Add the path of the apache-ant bin i.e., C:\apache-ant-1.8.0\bin at the end of the Variable value, separated by semicolon (;) and click cascading OK Buttons.
Restart the System:

User may check the installation of Apache Ant by entering `ant --version`. It should display the version as `apache ant version 1.8.0`.

The installation of Apache Ant is complete.
4. Apache Tomcat 5.5 Installation

Installation steps

- Step 1: Double click on the ‘apache-tomcat-5.5.28.exe’ file provided by NIC-PMU

- Step 2: Click Next

- Step 3: Click “I Agree” Button
Step 4: Click “Next” Buttons

Step 5: Enter Password “admin123” & click Next
Step 6: Click the Browse option to select the jdk/bin file located on the following URL C:\Sun\SDK\jdk\bin

Or User can directly copy the path of the jdk i.e. C:\Sun\SDK\jdk\bin

Installation is going on:
Step 7: Click Finish to complete the installation

Tomcat is successfully installed.
5. PostgreSQL 8.2 Installation

Installation steps

- Step 1: Double click on the ‘postgresql-8.2.11.1’ provided by NIC-PMU

- Step 2: User to run the `postgresql-8.2.msi` (window installer packager) file by double clicking on the folder.
Step 3: Click the ‘Start’ button

Step 4: Click “Next” Button after closing all Windows programs already running in the PC

Step 5: Click “Next” Button
Step 6: Click “Next” Button

Step 7: Enter and re-enter the Account password “postgres123” and then click the “Next” button.

Step 8: Enter and re-enter the Account password “postgres123” and then click the “Next” button.
Step 9: Click “Next” Button

Step 10: Click “Next” Button

Step 11: Click “Next” Button
Step 12: click “Finish” Button.

**PostgreSQL is successfully installed**

*The softwares (java, Apache Ant, Apache tomcat, PostgreSQL) have been successfully installed in User’s PC. The Next step is to create Database in PostgreSQL & to install WAMSI-DMS*
How to create Database in PostgreSQL

For creating Database for WAMSI-DMS, User needs to follow the below two steps:

- Create a 'Login Role' (user) called `dspace` with the password `dspace`
- Create a database named by SWB Abbreviation (e.g., `hr` for Haryana SWB) owned by the user `dspace`, with UTF-8 encoding

**PROCEDURE**

- Step 1: Open `pgAdmin III` & then click on the PostgreSQL Database Server to select connect option:

- Step 2: Enter the Password "postgres123" & click “OK” Button
Step 3: **Create New Login:** Right click on the Login Role for creating a New Login Role for DMS database

Step 4: Create Role name *dspace* then enter and re-enter Password *dspace*

Login Role for DMS database created
o Step 5: **Create Database:** Right click on the Database and select New Database option

![Database creation](image1.png)

o Step 6: Create a database (e.g., **mh** for Maharashtra SWB) owned by the user **dspace**, with UTF-8 encoding

![Database creation](image2.png)

Database “mh” successfully created
Installation of WAMSI-DMS

- Step 1: Copy the WAMSI-DMS Source Code (dspace-1.4.2-source_wakf.zip File or wamsi-dmsv1.0-hr.zip for Haryana Wakf Board) provided by NIC-PMU into D drive.
- Step 2: Extract the Zip File.
- Step 3: Open Command Prompt
- Step 4: Go to WAMSI-DMS Source code using command `D:\` and then `cd dspace-1.4.2-source_wakf`
National Informatics Centre

- Step 3: Run “ant fresh_install”

- Step 4: The Command Prompt should return “BUILD SUCCESSFUL”

- Step 5: Go to build folder using “cd build” command
Step 6: User to run the following command

```plaintext
Copy dspace.war "C:\Program Files\Apache Software Foundation\Tomcat5.5\webapps"\mh.war
```

(NOTE: Here every SWB will write its own SWB Abbreviation in order to choose the war file. e.g Maharashtra SWB will write mh.war while Haryana SWB will write hr.war)

Or

Incase User is not able to run the command properly, the User can follow the below steps which are equivalent to run the above command

1. Copy the **dspace.war** file from the URL: `D:\dspace-1.4.2-source_wakf\build` into the Tomcat Webapps Folder (URL: `C:\Program Files\Apache Software Foundation\Tomcat 5.5\webapps`).
2. Rename **dspace.war** file as **mh.war** (e.g., for Maharashtra SWB).
Step 7: Start the Tomcat service

- Start->All Program->Apache Tomcat5.5->select Monitor Tomcat
- Tomcat Monitor shortcut can be seen on the right side of task bar.

- Press Right click on this icon, it shows different option like configure, Start Tomcat, Stop Tomcat etc. User Can Start & Stop tomcat service from here.

- Step 8: Open Internet Explorer & type the URL: http://localhost:8080/mh

  **DMS Login page will be displayed**
The display of the above screen* will ensure the successful installation of WAMSI-DMS. Now the User will import the Dublin Core Structures (Output of BDU Utility) into WAMSI-DMS.

* Incase Login page is not displayed, Please Contact NIC-PMU
Import Dublin Core Structures into WAMSI-DMS

- Step 1: Run Command prompt
- Step 2: Type `D:\`
- Step 3: Type `cd maharashtra`

(Note: `maharashtra` folder is already created by the process of “ant fresh_install” for Maharashtra SWB, for other SWBs contact NIC-PMU or see it through Windows Explorer for sub-directories in D:\ resembling your SWB Name)

- Step 4: Type `cd bin`

```
C:\WINDOWS\system32\cmd.exe
Microsoft Windows XP [Version 5.1.2600] (C) Copyright 1985-2001 Microsoft Corp.
C:\Documents and Settings\nic\d:
D:\cd maharashtra
D:\maharashtra>cd bin
D:\maharashtra\bin>
```

- Step 5: Run the following command

```
dsrun org.dspace.app.itemimport.ItemImport --add --eperson=dspace@localhost.localdomain --collection=123456789/2 --source=c:\maharashtraWB\ --mapfile=D:\mapfile\24jan2011
```

Where:
- `source` is the path of the BDU Outputs folder (i.e., Dublin Core Structures location), `mapfile` “mapfile” sub-folder should be created once in D:\ and specify the file name (e.g., 24jan2011) for logging the activities of this import session.
For e.g., if for Maharashtra SWB the import is being done on 24-Jan-2011 & The output of BDU has been stored in a folder ‘MaharashtraWB’ in D drive, then the command to be run in the command prompt is

```
dsrun org.dspace.app.itemimport.ItemImport --add --eperson=dspace@localhost.localdomain --collection=123456789/2 --source=D:\maharashtraWB\ --mapfile=D:\mapfile\24jan2011
```

User can cross check the successful import by login into the WAMSI-DMS and Browse/Search the imported Documents through Metadata Fields.

Sets of Username & Password with different privileges for logging into WAMSI-DMS System are already sent to SWB over email.