IASF INSTALLATION GUIDE (Windows)

Quick advice to your query

This installation guide is prepared to enable graphical installation of IASF application.

iasf 21-Nov-13

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1 System Requirements

The system requirements are as per the requirements given for installation of Java, Apache Tomcat and PostgreSQL.

- Windows 8 (Desktop)/Windows 7/Windows Vista/ Windows XP SP2
- RAM: 128 MB; 64 MB for Windows XP (32-bit)
- Disk space: 124 MB
- Browsers: Internet Explorer 7.0 and above, Firefox 3.6 and above, Chrome

2 HOW TO INSTALL IASF AND GET STARTED

IASF CD is a bundle of three independent software, JRE7, iasf.jar and Apache Tomcat 7. Running an IASF application offline needs all these three software. The installation can be divided into 3 parts, installation of JRE 7, installation of postgres and IASF, and installation of Apache Tomcat 7.

IASF CD contains the following files:

- i. IASF_installation_lib folder
- ii. pgsql folder
- iii. apache-tomcat-7.0.41.exe
- iv. iasf.jar
- v. install
- vi. installation guide.pdf
- vii. jre-7u25-windows-i586
- viii. postgresql-9.3-1100.jdbc4.jar
- ix. tomcat-jdbc.jar

Copy all the files of IASF CD into a folder. You can also download IASF from the DOWNLOAD link of IASF site (http://iasf.cdacmumbai.in).

NOTE: *For Windows Vista or Windows 7, turn off the USER ACCOUNT CONTROL first (refer FAQ).* You may need to have administration access to the PC in order to install IASF on Microsoft Windows 2000, XP or later.

2.1 Step 1: IASF setup

Click **install**, you will be prompted to install **JAVA** (Figure 1). Click **Install** and it should open an installer (Figure 2)

You may be prompted for an administrator password or for a confirmation. Type the password, or click Continue. If your system has an older version, we recommend updating into latest version.



Figure 1: Welcome to Java



Figure 3: Successful Installation

2.2 Step 2: postgres and iasf.jar Installation

After successful installation of JAVA, it opens IASF installer (Figure 4). Click on Start button.

🛃 IASF Offline Installer	
INTELLIGENT ADVISORY ST	YSTEM For Farmers
0%	
Start Cancel	
[STDOUT] IASF offline Installation .	
[STDOUT] Click Start to begin	

a. It opens a new popup window asking IASF Installation Drive (Figure 4).

	Disease Fate	r in stallation Driv	
?	Please Ente	er instanation Driv	re (CIDIE)
-	C		

Figure 4: IASF Installation Location

b. Enter your preferred drive (C/D/E) and press OK button. It will start installation of PostgreSQL database. Installation progress is shown in the IASF installer window.

IASF Off	ine Installer	
50	INTELLIGENT ADVISORY SYSTE	Maria
La		For Farmer
	Installation is in progress	
	20%	
	Start Cancel	
[STDOUT]	pgsql\bin\comerr32.dll	
[STDOUT]	pgsql\bin\createdb.exe	
[STDOUT]	pgsql\bin\createlang.exe	
[STDOUT]	pgsql\bin\createuser.exe	
[STDOUT]	pgsql\bin\dropdb.exe	
[STDOUT]	pgsql\bin\droplang.exe	
[STDOUT]	pgsql\bin\dropuser.exe	1
[STDOUT]	pgsql\bin\dump.sql	
4	m	+

2.3 Step 3: Tomcat Apache Installation

After successful installation of postgres, it should open an Apache Tomcat installer (Figure 5).



Figure 5: Apache Tomcat 7 Installation

c. Click on Next button, it opens Licence Agreement (Figure 6).

Fomcat.	
	-
AND DISTRIBUTION	
, reproduction,	
f this document.	+
o continue. You must accept the	
	AND DISTRIBUTION , reproduction, f this document. o continue. You must accept the

Figure 6: Licence Agreement

- d. Click on I AGREE button, it should open a window for CHOOSE COMPONENT (Figure 7).
- e. You can customize the installation to start Apache service when windows start up. Click on (+) plus symbol given on the left side of Tomcat (as shown in Figure 7(a) and select/check the SERVICE STARTUP as shown in Figure 7(b). Click Next button.

Choose Components Choose which features of Ap	bache Tomcat you want to install.	The second second
Check the components you v install. Click Next to continue Select the type of install: Or, select the optional components you wish to install:	Normal Normal Tomcat Solution More and the solution More and th	Description Position your mouse over a component to see its description.
Space required: 10.8MB	Lun Examples	

Figure 7(a): Components

Check the components you want to install and uncheck the components you don't wa install. Click Next to continue. Select the type of install: Or, select the optional components you wish to install: Description Position your mou over a component see its description Set to service Startup Native
Select the type of install: Or, select the optional components you wish to install: Native Custom Description Position your mou over a component see its description
Or, select the optional components you wish to install:
V Start Menu Items V Documentation V Manager
Space required: 10.8MB

Figure 7(b): Components

Configuration			Margare Contraction
Tomcat basic configuration.			
Server Shutdown Port		8005	
HTTP/1.1 Connector Port		8080	
AJP/1.3 Connector Port		8009	
Windows Service Name		Tomcat7	
Create shortcuts for all users	()		
Tomcat Administrator Login	User Name].
(op dottol)	Password		
	Roles	manager-gui	
illsoft Install System v2.46 —			

f. You will be prompted to select JRE/JDK as shown in Figure 8. You will see the JRE path as C:\Program Files\Java\jre7, if you have installed JRE given in STEP 1. You can also select other JDK or JRE.

		the second se
ater JRE installed o	n your system.	
	iter JRE installed o	iter JRE installed on your system.

Figure 8: JRE selection

 g. Click Next button, you will be prompted to select Installation Location of Apache Tomcat. The default location is likely C:\Program Files\Apache Software Foundation\Tomcat 7.0. You can also select a different location.

Choose Install Location	The second se
Choose the folder in which to install A	Apache Tomcat.
Setup will install Apache Tomcat in the	e following folder. To install in a different folder, click
Destroyer Folder	
Destination Folder	
Destination Folder	re Foundation\Tomcat 7.0 Browse
Destination Folder	re Foundation\Tomcat 7.0 Browse
Destination Folder CAProgram Files/Apache Softwar Space required: 10.8MB Space available: 42.4GB	re Foundation (Tomcat 7.0 Browse
Destination Folder C:\Program Files\Apache Softwar Space required: 10.8MB Space available: 42.4GB	re Foundation \Tomcat 7.0 Browse

Figure 9: Apache Installation location

h. Click on Install button



Figure 10: Apache Installation Successful

Click on Finish button, it should open IASF application in a browser with URL <u>http://localhost:8080/ias</u>. Now, IASF is installed successfully on your computer. <u>It is recommended</u> to restart your computer or restart Apache Tomcat (refer FAQ).

NOTE: Two windows services have been installed to start postgres database and apache tomcat whenever you restart your computer. You need to run these services if you want to use IASF. You can also start these two services manually.

C:\Windows\sustem32\c:/ngsgl/hin/ng_ctl -D_c:/ngsgl/hin/data_l_c:/ngs
gl.log start pg.ctl: another server might be running; trying to start server anyway server starting
C:\Windows\system32>cd "C:\Program Files\Apache Software Foundation\To in"
C:\Program Files\Apache Software Foundation\Tomcat 7.0\bin>start Tomca
C:\Program Files\Apache Software Foundation\Tomcat 7.0\bin>copy startu sers\iasf\Start Menu\Programs\Startup\\ The system cannot find the file specified.
gram Files\Apache Software Foundation\Tomcat 7.0\bin\Tomcat7.exe
24 Dec 01:57:55.928 PM localhost-startStop-1 [org.quartz.core.QuartzSched er DefaultQuartzScheduler_\$_NON_CLUSTERED started. 2013 1:57:56 PM org.apache.catalina.util.SessionIdGenerator createSecure creation of SecureRandom instance for session ID generation using [SHA1PRN [1109] milliseconds. 2013 1:57:56 PM org.apache.catalina.startup.HostConfig deployDirectory beploying web application directory C:NProgram Files\Apache Software Found omcat 7. 0\webapps\manager 2013 1:57:56 PM org.apache.catalina.startup.HostConfig deployDirectory beploying web application directory C:NProgram Files\Apache Software Found omcat 7. 0\webapps\manager 2013 1:57:56 PM org.apache.catalina.startup.HostConfig deployDirectory beploying web application directory C:NProgram Files\Apache Software Found omcat 7. 0\webapps\manager 2013 1:57:56 PM org.apache.catalina.startup.HostConfig deployDirectory beploying web application directory C:NProgram Files\Apache Software Found omcat 7. 0\webapps\manager 2013 1:57:56 PM org.apache.coupte.AbstractProtocol start tarting ProtocolHandler ["http-hio=8080"] .2013 1:57:56 PM org.apache.coupte.AbstractProtocol start

Figure 11: IASF services starter

2.4 HOW TO USE

Type URL <u>http://localhost:8080/ias</u> in your browser. It will open IASF offline website as shown in Figure 12. There are three different type of users: admin user, expert user, and farmer user. You can login as per your requirement. Please refer IASF user manual for details.

Manipur	Admin	aman	welcome
Manipur	Expert	eman	welcome
Manipur	Farmer	fman	
Meghalaya	Admin	ameg	welcome
Meghalaya	Expert	emeg	welcome
Meghalaya	Farmer	fmeg	



Figure 12: IASF Offline site

You can start IASF from iasf link and desktop or from the **Startup** link of Windows Star **9**.

3 FAQ:

3.1 JRE already installed

If JAVA is already installed, a message is displayed to reinstall JAVA or Cancel the installation. You can Reinstall or Cancel.



3.2 Database already exist:

After incomplete or unsuccessful installation of IASF, iasf database might be already installed into your computer. In such case, Cancel the installation and delete pgsql folder.



3.3 Tomcat Already installed:

Reinstallation of Apache Tomcat is recommended. If you do not want to reinstall, click on **Ignore** button of alert box. IASF needs Apache Tomcat 6 or later version. If you do not reinstall, you must start Apache tomcat manually to run IASF.



nstalling Please <mark>w</mark> ait w	ihile Apache Tomcat is being installed.	
Installing Tor	ncat7 service	
Shov	Apache Tomcat Setup	
	Failed to install Tomcat7 service. Check your settings and permissions. Ignore and continue anyway (not recommended)?	
	Abort Retry Ignore	
lsoft Install S	ystem v2.46	

3.4 Connection Refused:

If pgsql folder or password.txt are already exist in the directory, you may encounter the connection refused error. Please delete pgsql folder and password.txt and install again.

3.5 **Command to check postgres database status:**

C:/pgsql/bin/pg_ctl -D C:/pgsql/bin/data -l C:/pgsql/log/pgsql.log status (Assuming that pgsql folder is under C drive)

3.6 **Reinstallation**:

- > Stop all the postgres services if already running.
- Delete folder pgsql and file password.txt
- Reinstall IASF

3.7 User Access Control

To turn UAC on or off

- 1. Open User Account Control Settings by clicking the Start button (2), and then clicking Control Panel. In the search box, type uac, and then click Change User Account Control settings.
- 2. Do one of the following:
 - To turn off UAC, move the slider to the Never notify position, and then click OK. If you're prompted for an administrator password or confirmation, type the password or provide confirmation. You will need to restart your computer for UAC to be turned off.
 - To turn on UAC, move the slider to choose when you want to be notified, and then click OK. 🕏 If you're prompted for an administrator password or confirmation, type the password or provide confirmation.

3.8 Add Expert Password

The default password of an expert, when added by an admin, is **iasf123**

3.9 Start Apache Tomcat

3.9.1 Windows XP/Windows 7

The easiest way to control Tomcat on Windows is to use the Tomcat Monitor tool. This is available by selecting Start -> All Programs-> Apache Tomcat 7.0 -> Monitor Tomcat. Once it is started you will notice a new icon on your taskbar. Right-click on the icon to start and stop the tomcat service. If you want the tomcat service to automatically start on boot-up right-click on the icon and select "Configure". Then change startup type to "Automatic".

3.10 Website cannot be opened

If it is giving error when you open URL <u>http://localhost:8080/ias</u> in your browser, restart Apache Tomcat (refer Section 3.9).

4 IASF Mobile Services

4.1 DIRECT QUERY: To send your query

 Type "IASF D MEG/MAN YOUR_QUERY" (meg=Meghalaya man=Manipur)" and send it to 51969
 For example, IASF D MEG How to control Rice Aphids

4.2 AGRICULTURAL CALENDAR:

To get Agricultural Calendar information of your state:

- Type "IASF CAL MEG" (MEG=Meghalaya) and send it to 51969
 You will receive calendar information of the current month if Today's day is between 1 to 25. Otherwise, calendar information of next month will be received.
- OR Type "IASF CAL MEG MONTH" (month: 1=January 12=December) and send it to 51969
 - You will receive calendar information of the given month.
 - Ex: iasf cal meg 3
- OR Type "IASF CAL MEG MONTH LANGUAGE_ID" (Month: 1=January 12=December Language ID: 2=English 3=Manipuri 4:Khasi) and send it to 51969
 You will receive calendar information of the given month in the given language.
 Ex: iasf cal meg 3 4

4.3 CROP INFO: To get useful crop information

- Type "IASF C MEG" and send it to 51969
 If you are a registered user, you will receive crop info of your block.
- OR Type "IASF C MEG BLOCK_NAME (minimum first four characters of your block name) and send it to 51969
 Ex: iasf c meg myll

4.4 **REGISTRATION:** To register into IASF system

• Type "IASF R YOUR_NAME, REGION_ID(3=Manipur

4=Meghalaya),DISTRICT_ID(1=Bishnupur 2=Churachndpur 3=Chandel 4=Imphal East 5=Imphal West 6=Senapati 7=Tamenglong 8=Thoubal 9=Ukhrul 10=East Garo Hill 11=East Khasi Hill 12=Jaintia Hill 13=RiBhoi 14=South Garo Hill 15=West Garo Hill 16=West Khasi Hill),VILLAGE_NAME" and send it to 51969

- Comma separator is compulsory
- Ex: iasf r krishna,3,2,imphal

4.5 CROP VARIETY INFO: To get information about crop varieties

- Type "IASF I MEG CROP_NAME" and send it to 51969
 - CropName at least minimum of 3 characters.
 - Only for registered users
 - Ex:iasf i MEG paddy

4.6 HELP INFO: To get information about different services provided by IASF

• Type "IASF H MEG" and send it to 51969 - Ex: iasf h MEG

4.7 IVRS SERVICE:

A farmer can record his voice query using IVRS service by calling to 02267870110 and follow the instruction.

4.8 EXPERTS:

A registered expert can answer, modify or invalidate a query from his mobile by a simple SMS.

- Answer or Modify a Query: Type IASF A M query_id solution For Example: IASF A M 340 This is the solution
- Invalidate a solution: Type IASF A I query_id For Example: IASF A I 340
- Answer a direct query : Type IASF A D query_id solution For Example: IASF A D 5 This is the solution

4.9 **51969 SMS Tariff**

Sl. No.	Operator	Tariff
1	Vodafone	Rs. 1
2	Uninor	60 paise
3	MTS	Rs. 3
4	Videocon	Rs. 1
5	Loop	Rs. 5
6	Idea	Rs. 1
7	Tata Docomo	Rs. 3

8	Tata Indicom	Rs. 1
9	Aircel	Rs. 1
10	Reliance	Rs. 3
11	Airtel	Rs. 1
12	BSNL	Rs. 2