



User Manual

IntelliBAS Version 2.7

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1.0 Introduction

1.1 IntelliBAS

The IntelliBAS, abbreviated BAS-Component, is an intelligent Windows Component that offers a website and desktop application the service to easily address and access local resources (hardware, files, applications, etc.) from the website and from a windows application.

intelliBAS is a component / SDK specifically optimized for web applications, yet it could be integrated in Windows Applications very easily. Via this dual approach it is time & effort saving to share your business logic among your web application and desktop application.

With the carefully designed interface and the built-in wizard mode, the intelliBAS component is lightweight, easy to use yet very powerful. You can typically do your TWAIN scanning job, File Uploading job, Fingerprint Enrollment etc. in several lines of code. High-level acquisition support is provided for ease of use, and low-level functionality is provided for flexibility and control in even the most demanding applications.

With intelliBAS, you can use (or develop) sophisticated plugins (called BIO Device Plugins) to automatically collect the data from a camera, scanner, document. IntelliBAS is capable of transferring result biometric data in many different possibilities.

By default intelliBAS is always shipped with the enhanced TWAIN plugin and FileUpload plugin. With this TWAIN plugin, you can easily write a code snippet that controls any TWAIN compatible digital camera in a web page or desktop application. After acquiring images and optionally editing them, the result will be uploaded to web server, inserted in a database or saved on the local disk. With the FileUpload plugin you can easily integrate a mechanism in your website to allow a user to upload multiple files (of different types) simultaneously.

This document is written to give understanding of the IntelliBAS HOST.

1.2 IntelliBAS Versions

IntelliBAS offers you the functionality of working with multiple biometric plugins. IntelliBAS package come with these built-in plugins.

- File Upload
- Twain

Other Device Plugins are available upon request and after contacting our sales!

1.3 IntelliBAS Components

A system is always a set of elements and composition and so IntelliBAS is also composed out of three different components:

- **IntelliBAS Host**
This is the host application which should be installed on the windows client. This application operates as a black-box and is the link between the website, the device plugins and the storage plugins.
In case IntelliBAS is integrated in a desktop application, there is NO need to use this host application.
- **Device Plugin**
A device plugin contains the (business) logic to access / address the local resource. A device plugin will ensure that all features / functionalities of the coupled resource are accessed or could be addressed via the web or desktop application.g. Twain Device Plugin, Lumidigm FingerPrint Device plugin, 3M Document Scanning Device Plugin, etc.
- **Storage Plugin**
A storage plugin is the link between the BAS host and the website. The web service will contain the logic to pass the result objects to the website. If no plugin is used, acquired data will be returned to the website via POST method.

NOTE: Storage plugin is optional; IntelliBAS can also work without StoragePlugin.

In case IntelliBAS is used in a desktop application, use of the Storage Plugin is otiose.

1.4 About IntelliBAS Service

The IntelliBAS Host exists out of a Windows Service and a configuration form. The Bio Acquisition Service (BAS) is simple windows service that runs on the client desktop and listens to BAS related process calls.

A windows service is a long-running executable that performs specific tasks and which is designed to run without user intervention. Windows services can be configured to start when the operating system is booted and run in the background as long as Windows is running.

When BAS is called from web, the windows service invokes the device and desired result is returned to the destination.

1.5 Accessing the Bio Acquisition Service

A website that integrates the IntelliBAS component will use a SilverLight control to access and pass the object to the windows service.

Here the SilverLight control works as a bridge between web and desktop and it is used to communicate with the Bio Acquisition Service and website.

SilverLightComponent is the heart of IntelliBAS. The purpose of Silver Light control is to communicate with Website and BAS service to invoke device, get acquired data, error notification, warning and etc.

1.6 intelliBASKey Features

intelliBAS comes loaded with a barrage of great functionality, rich features for easy capturing of biometric data and uploading it. A few key features of intelliBAS are discussed as under:

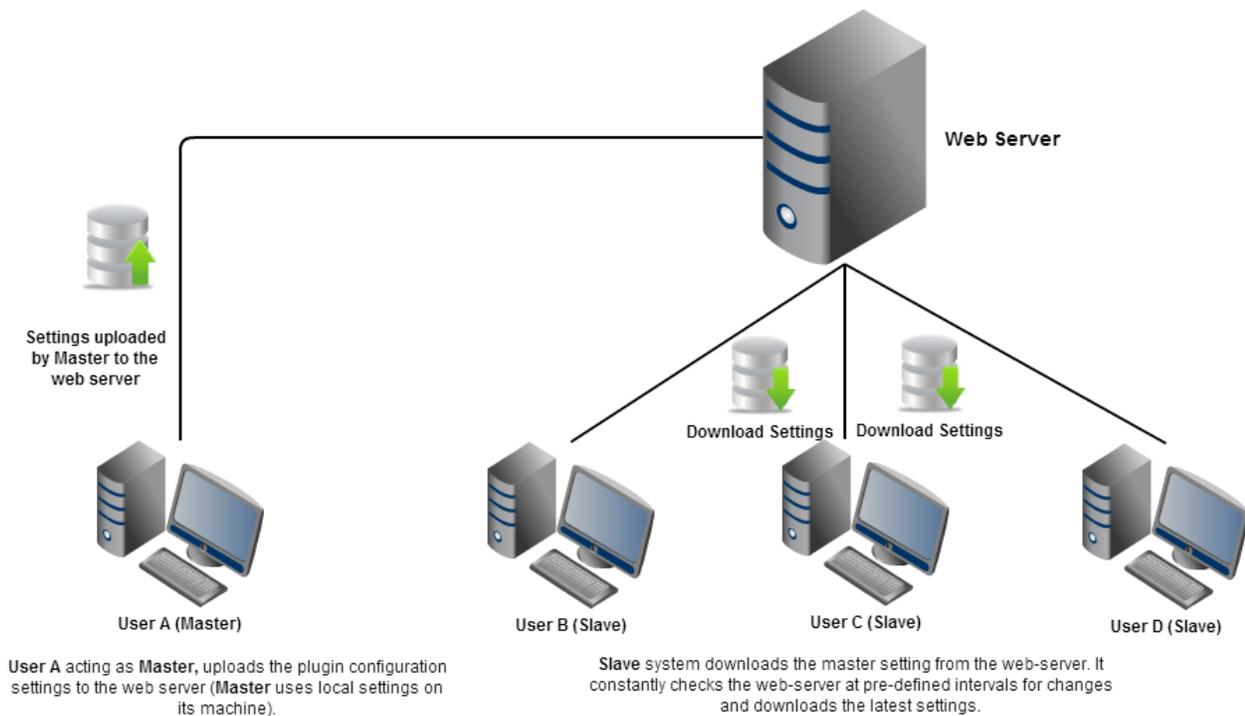
- **Supports diverse range of Hardware Devices**

intelliBAS supports a wide range of hardware devices for uploading data to website. You can configure 'n' number of hardware device with intelliBAS, according to your data uploading needs.

- **Master Slave Option**

The Master- Slave feature is an intelligent feature that can be used when you want multiple intelliBAS users to share the same configuration settings that are uploaded by the master.

The advantage of this setting is that you would not have to configure intelliBAS settings for each and every machine individually, thus saving time and reducing errors.



Master-Slave Configuration

- **User Authentication Feature**

For providing extra security and implementing access control to your website you can use intelliBAS's 'User Authentication' feature. To allow only authenticated users to access the web and upload data, you can create users with credentials that can be passed to website for accessing it.

- **Post Device Selection**

Post Device Selection feature allows you to enable intelliBAS to search for other devices when the default configured devices are not available.

- **Lock Now Feature**

To instantly lock your intelliBAS application, to prevent unauthorised or inadvertent changes, you can use the lock now button. Once the application is locked, you can unlock it only after providing valid credentials.

- **Data Transfer Mechanism**

intelliBAS boasts of four different data transfer mechanisms for uploading your data to the website. These are:

- Asynchronous Data Transfer (Using Storage plugin)
- Synchronous Data Transfer (Using Storage plugin)
- Bypass Storage Plugin and
- Bypass Storage Plugin- without Web Service

Depending on your speed and data needs, you can choose from the four mechanisms according to your requirements.

- **Themes and Skins for Customization**

You can choose from a wide range of cool skins and themes to match your tastes and personalize intelliBAS according to your preferences.

2.0 Software Package and System Requirements

The following sections specify the software package and the system requirements for the IntelliBAS product.

2.1 Software Package

Software package includes the following:

1. Setup file (setup.exe)
2. Serial number for activating the software

2.2 System Requirements

Below you'll find the system requirements to run the IntelliBAS product on your computer properly. Always install the latest Microsoft updates and service packs.

- Supported Operating Systems:
 - Windows 7
 - Windows XP
- Supported Architectures:
 - x86
 - x64 (in 32 bit mode)
- Hardware Requirements:
 - Recommended minimum for good performance: Dual Core or higher with 1GB RAM or more.
 - Minimum disk space: 100 MB.
 - One free USB 1.0 (or higher) port to connect biometric devices to the PC (if applicable). For some biometric devices USB 2.0 is required; we advise the use of a USB 2.0 port. Otherwise the biometric data transfer speeds will be much lower than usual.
- Prerequisites:
 - Microsoft .NET Framework 4.0
 - Microsoft SilverLight 4.0 or higher
- Security:
 - Installation: during the installation, installation privileges are required.
 - Operation: during the operation of IntelliBAS read/write privilege are required. This folder contains the different setting files.

3.0 Installation and Support

3.1 Managing Software Installation

The following are the steps for the installation of an IntelliBAS Application: Run setup.exe.

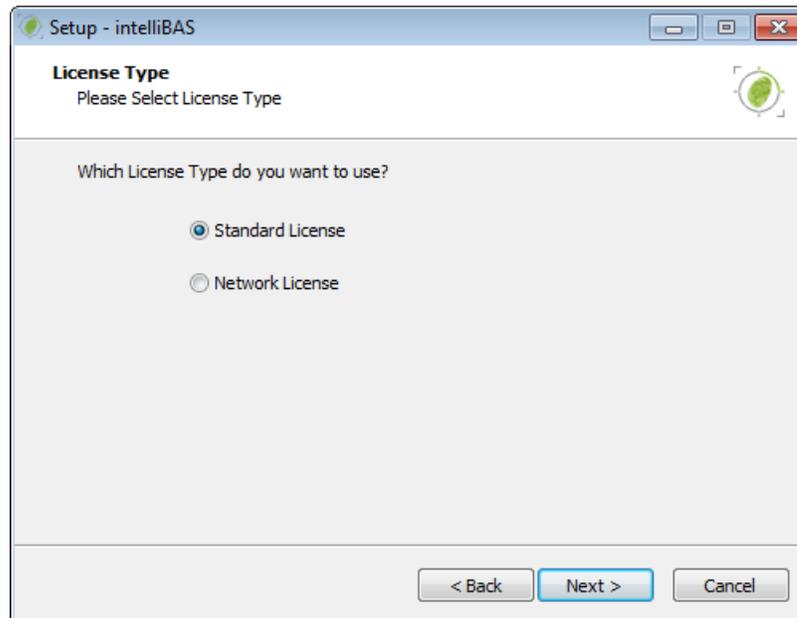
Press <Next> to initiate the installation procedure of IntelliBAS Application.



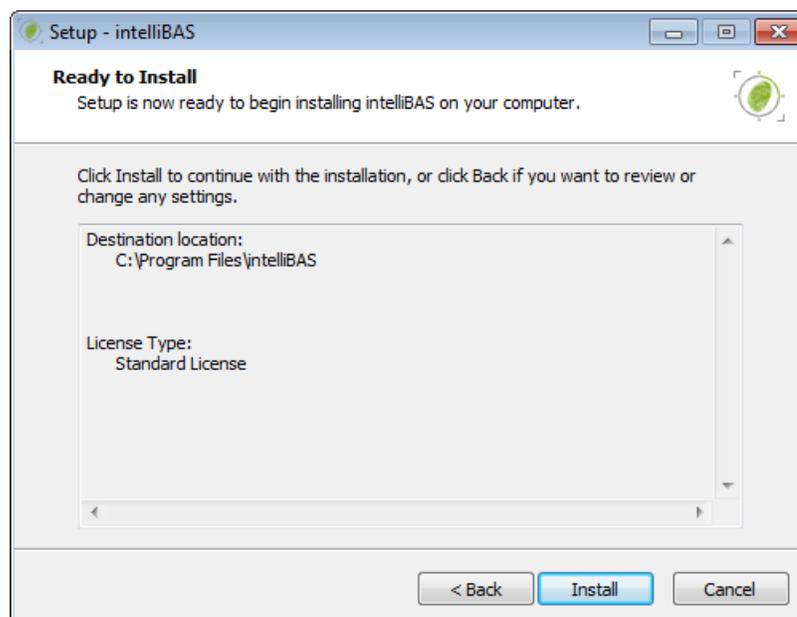
1. Select the license type. There are two types of licenses for intelliBAS installation: Standard License and Network License.

Installation with Standard License:

- I. Select Standard license and click <Next>.

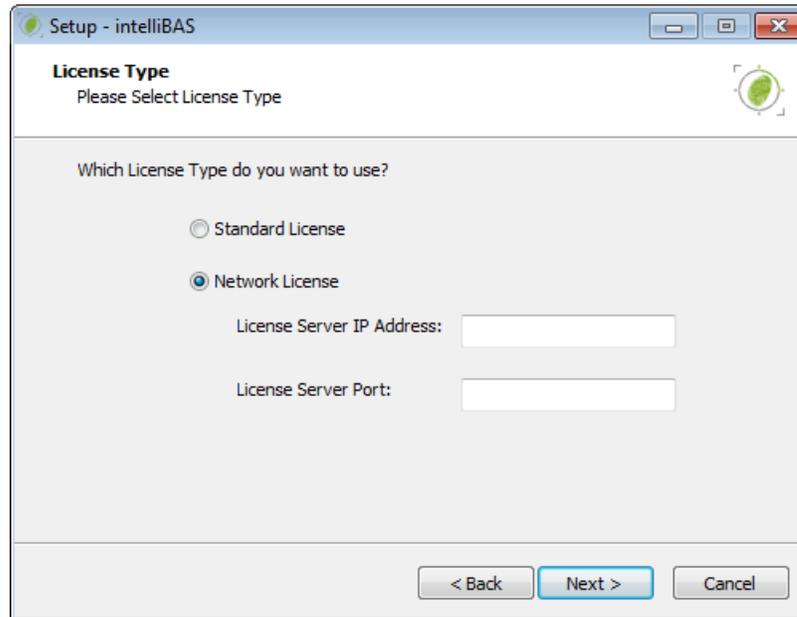


- II. Click <Install> to initiate installation of intelliBAS with Standard License.

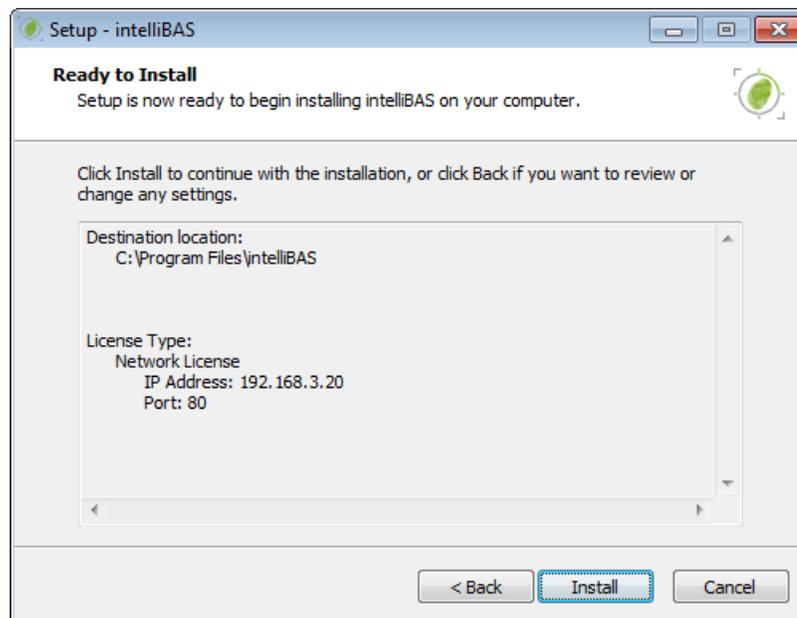


Installation with Network License:

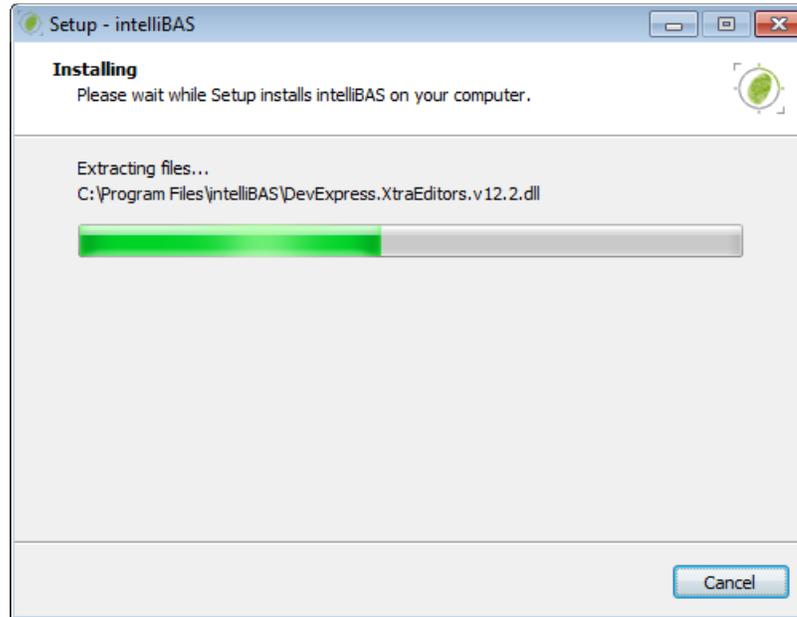
- I. To install intelliBAS with Network license user has to click on Network license and enter the following fields:
 - **License Server IP Address:** Enter the IP address of the machine with server license
 - **License Server Port:** Enter Port number of the machine with server license



- II. Click <Install> to initiate installation of intelliBAS with Network License



2. Installation process in progress.



3. The installation process has been successfully completed.
Click <Finish> to exit the Setup.



3.2 Managing License ^{NEW}

intelliBAS has introduced two types of licensing mechanism- Server license and Local license. While installing the intelliBAS, the user will be asked to select the type of license he wants to install.

- **Server License:** Select this option to use the server's license on multiple client machines.

For using server license the user has to enter the following details:

- **Server's IP:** Enter the IP address of the server's machine.
- **Port Number:** Enter the port number of the server's machine.

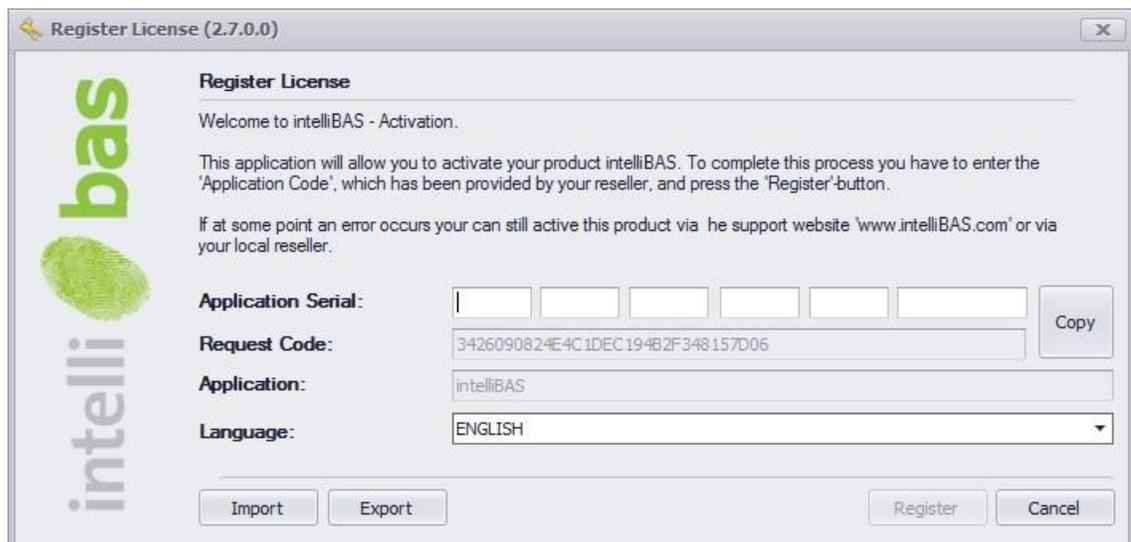
At a time, a server license can support n number of running client machines, here 'n' depends on the particular network license.

- **Local License:** Select this option to use the local license on the machine. The local license will be installed using license register tool, on the user's machine. User will have to manually register their intelliBAS in order to activate it. The process for registering local license is explained below.

Managing Local License Registration

The intelliBAS license can be activated **online** with internet connection. The steps below will help you to register the IntelliBAS software:

1. Go to 'Start' and select 'All Programs'.
2. Select the IntelliBAS application.
3. Select Register.



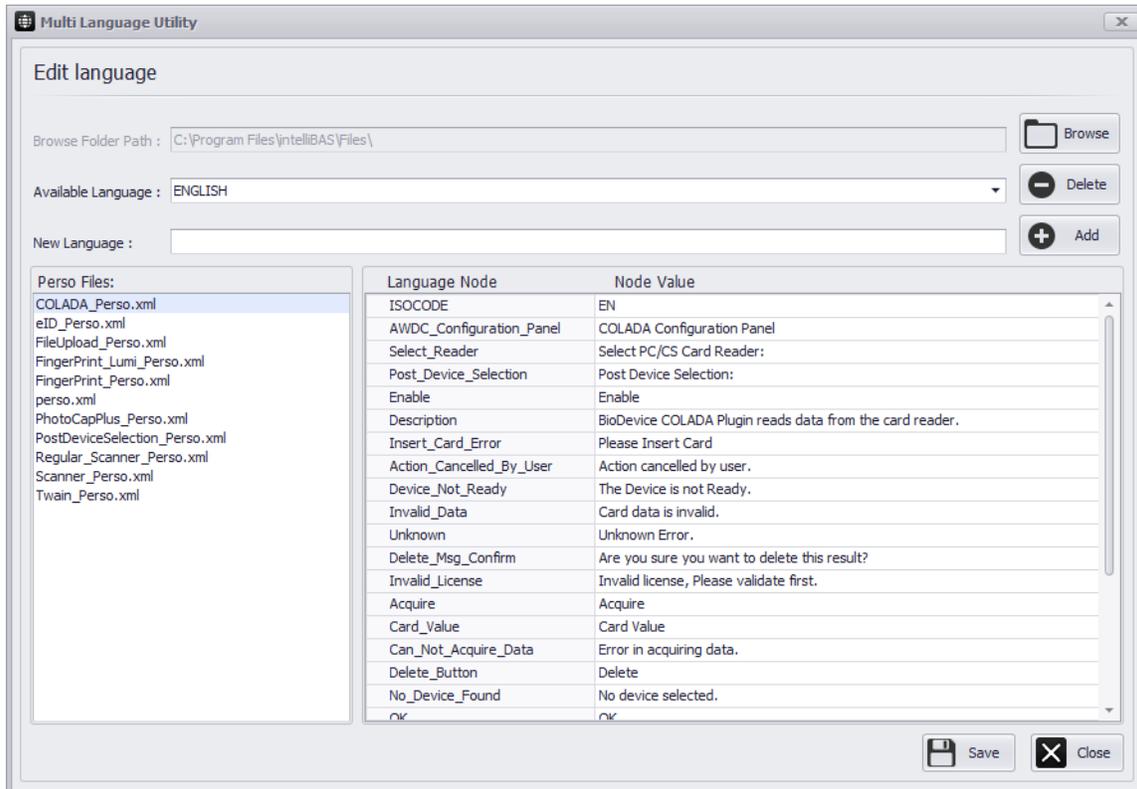
4. Now enter the Application Serial code that is provided with the Software Package.
5. Press the Register button.

6. “Congratulations! Your product’s license is now registered” message box appears for notifying successful validation.

NOTE: If you do not get this message box, something went wrong during the registration.

3.3 Manage Language

Add language utility allows the user to update control caption of the intelliBAS host and plugins as well as add new languages to intelliBAS.



Edit Language Window

- **Browse:** This option allows you to browse the folder in your system where the perso files are stored. You can directly add the files from the folder.
- **Available Language:** Available language option shows the drop down list of the available languages.
- **New Language:** User can add new language with this option. Enter the name of the language and click **Add** button to add the new language.
- **Perso Files:** Perso files list shows all the Multilanguage perso files available.
- **Language Nodes:** Language node lists the language nodes related to a selected perso file.
- **Node Value:** Node value refers to the control caption visible to the user in the host application and plugin interface. The user can assign or change the caption by changing the node value for a new language.

- **Delete Button:** To delete a particular language from the list of available languages, the user can select that language and click 'Delete' button.

Additionally, a user can also edit and assign new control captions for the intelliBAS host and plugins, by changing 'Node Values' for already existing (i.e. available) languages.

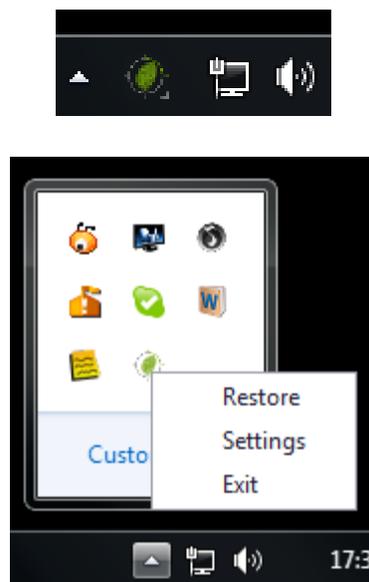
NOTE: Language node is an identifier that will be passed by the plugin. The value for each language node can be assigned by the user.

4.0 Initiating operations with IntelliBAS application

The first time when IntelliBAS application starts, the loading time might be considerably high because the license is checked and the plugins are loaded and configured. Once IntelliBAS is started, the application will continue running in the background on your system. So, the next time the IntelliBAS application is called, it will take less than a second to load.



If IntelliBAS is running in the background, icon will be displayed in the system tray. By double-clicking on this icon, IntelliBAS will be restored.



5.0 IntelliBASApplication

5.1 Introduction

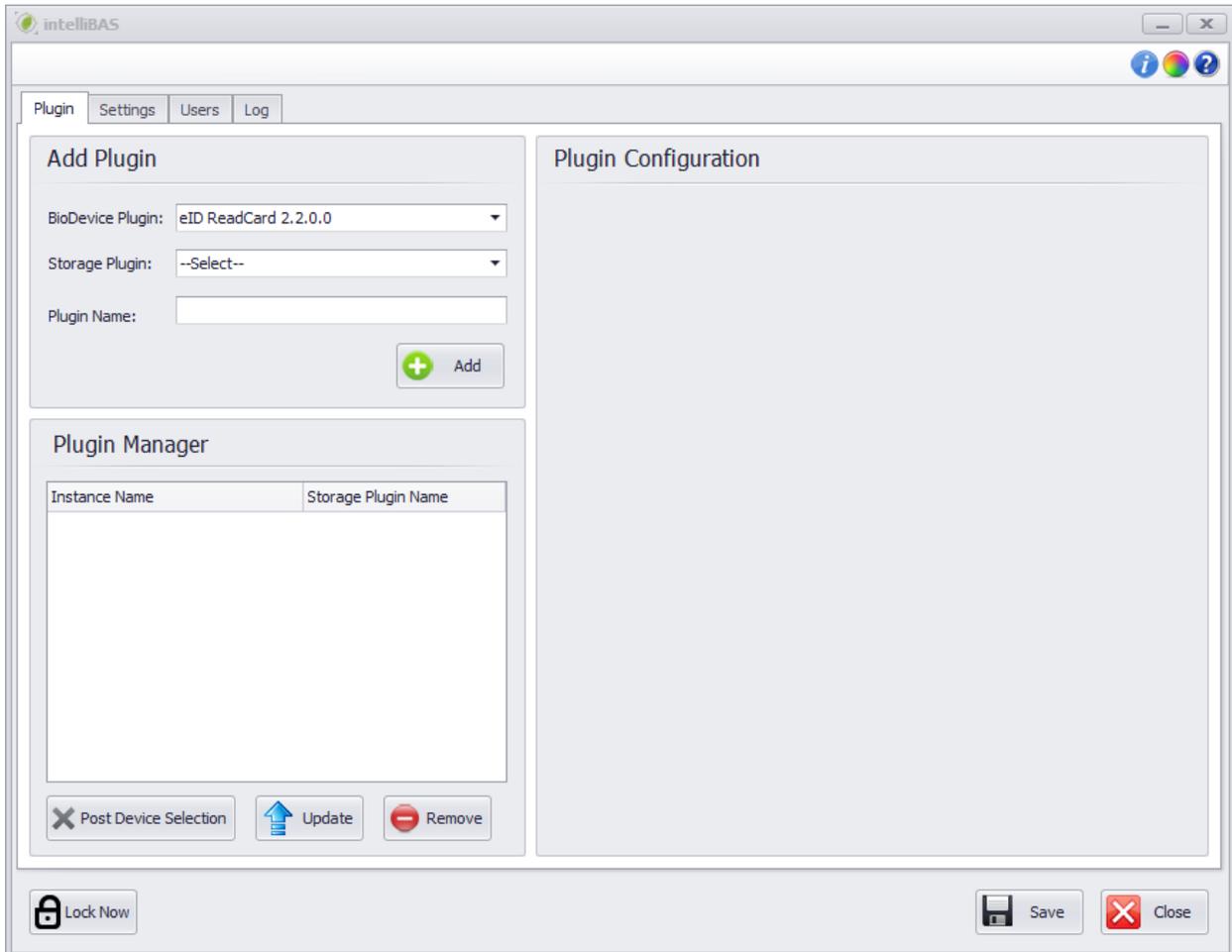
IntelliBAS is a user-friendly application to use biometric devices such as Twain/WDM devices, Fingerprint readers, Card readers, Passport scanner and many more. To get a full list (and detailed) feedback of all device plugins already supported by IntelliBAS, contact our sales!

User needs to configure these devices via IntelliBAS application and then they can be invoked from the web based application.

The main purpose behind IntelliBAS is to provide complete solution for biometric data capture and usage. Our mission is to keep it user-friendly, secure and fast.

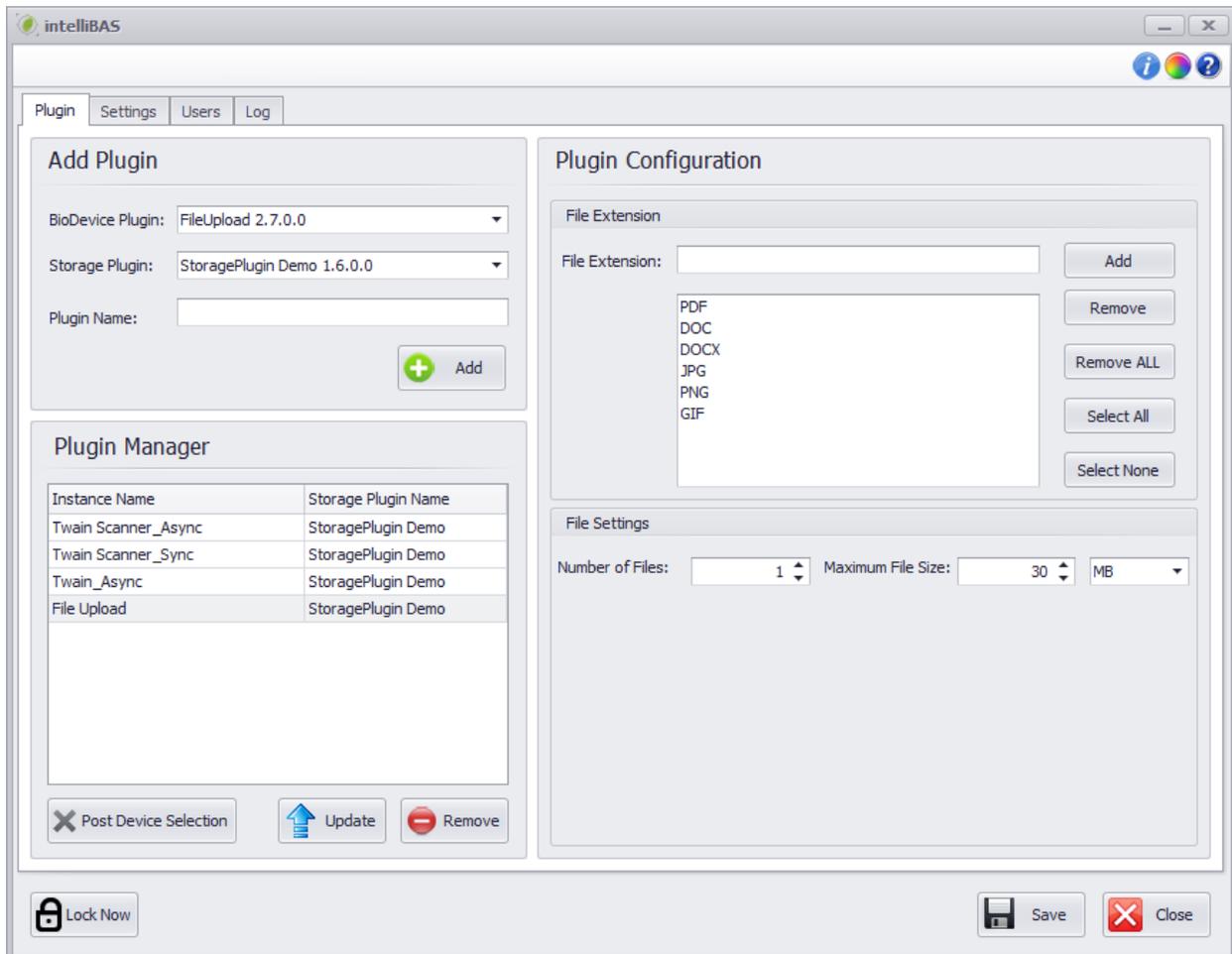
5.2 IntelliBAS Host Application

IntelliBAS host application enables you to configure biodevice plugins and set other data transfer options. The graphical user interface of host application is designed simple and user friendly.



intelliBAS Application Window

5.2.1 Plugin Tab



intelliBAS

Plugin Settings Users Log

Add Plugin

BioDevice Plugin: FileUpload 2.7.0.0

Storage Plugin: StoragePlugin Demo 1.6.0.0

Plugin Name:

 Add

Plugin Configuration

File Extension

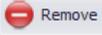
File Extension:

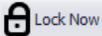
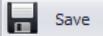
PDF
DOC
DOCX
JPG
PNG
GIF

 Add
 Remove
 Remove ALL
 Select All
 Select None

File Settings

Number of Files: Maximum File Size: MB

 Post Device Selection  Update  Remove

 Lock Now  Save  Close

Plugin Tab

There are total three groups in plugin tab and they are as follows.

a. Add Plugin

When a user accesses the intelliBAS application from the website then, the website passes the device settings while invoking the plugins. In such case the user does not have to explicitly add the plugin instances using 'Add Plugin' option.

'Add Plugin' group box contains functionality to add the plugin instance. There are total four controls in this group.

- BioDevice Plugin

This combo box lists all the plugins available with IntelliBAS package. The plugin names are displayed with their version in this combo box.

- Storage Plugin

All the storage plugins are listed in the storage plugin combobox along with their versions.

- Plugin Name

The name of the instance should be written in this textbox. This plugin name will be used by the website which will integrate the IntelliBAS. All the plugin names need to be unique and should be according to the ones used in website.

- Add Button

'Add button' will add the plugin instance of selected plugin with selected storage plugin and the instance name given by user. The instance will be immediately visible to the plugin list in plugin manager group.

b. Plugin Manager

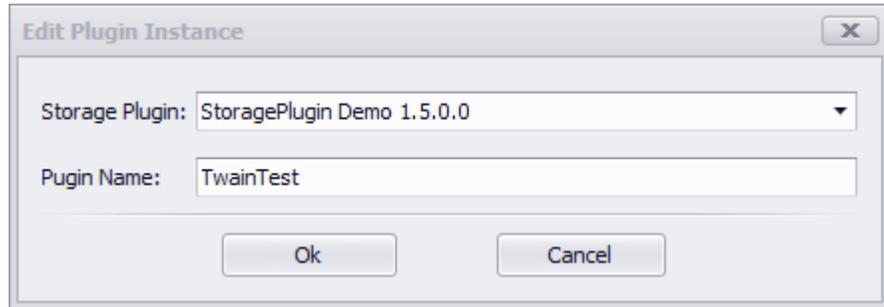
Plugin manager will display all the plugin instances and allows user to update or remove them. It contains three controls.

- Plugin List

This list displays all the plugin instances along with their storage plugin names. When the selection is changed from the list, corresponding configuration panel of that plugin will be displayed in plugin configuration groupbox.

- Update Button

'Update button' allows user to update the particular plugin instance. On clicking it, a dialog box will be displayed which allows the user to update plugin type as well as plugin storage type.



Edit Plugin Instance Window

- Remove Button

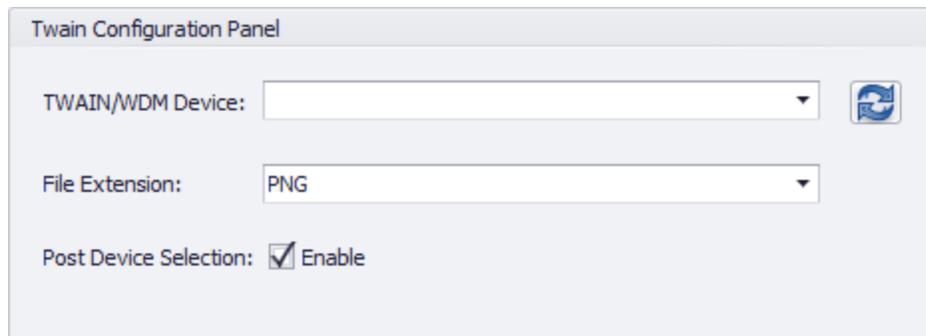
'Remove button' allows the user to remove the particular instance. As soon as the instance is removed from the list, the configuration panel also gets clear and the next plugin instance is selected.

- Clear Post Device Selection

Using this option, the user can clear the post device selection files stored for a particular device.

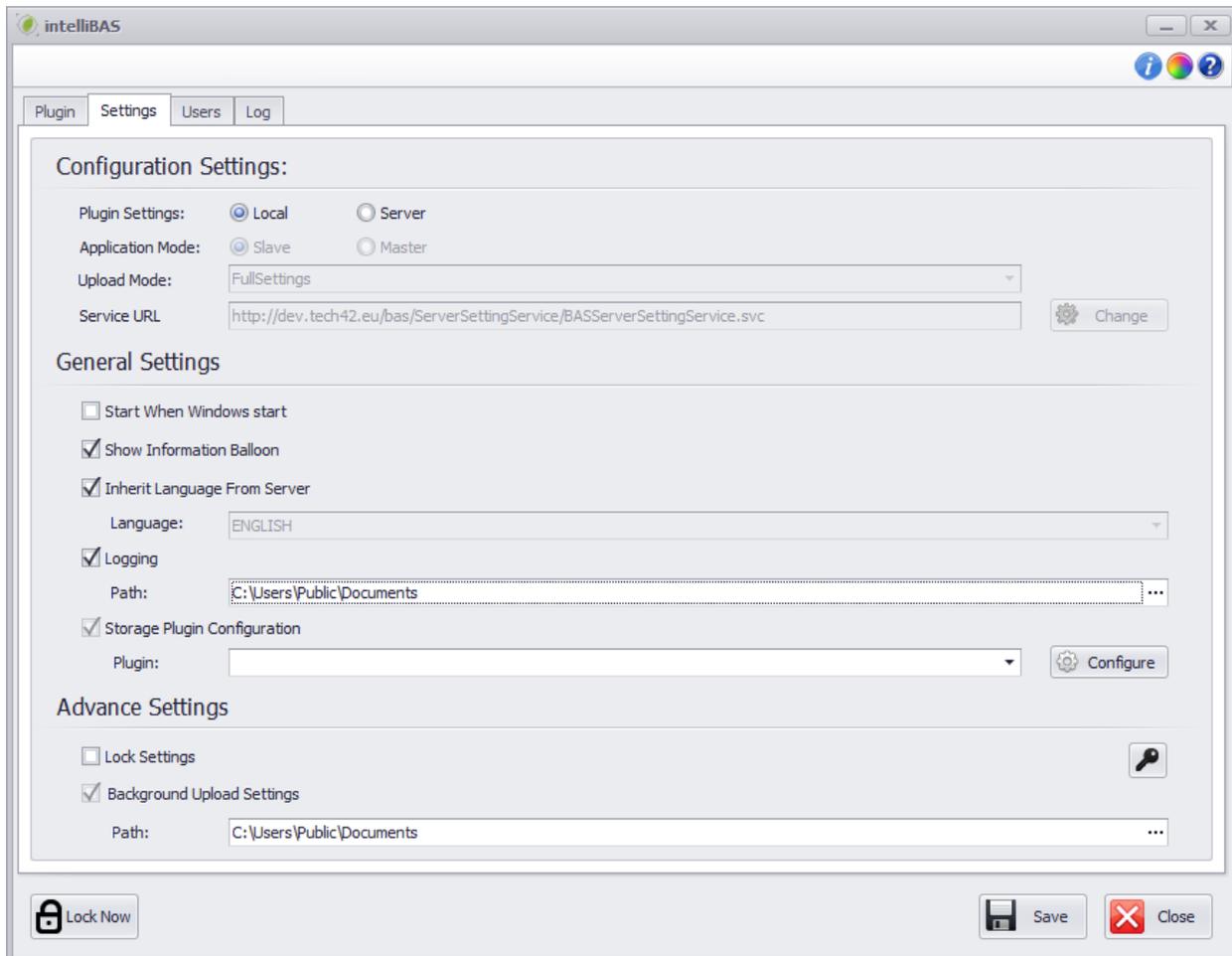
c. Plugin Configuration

The configuration panel of the particular plugin is displayed here in this groupbox. And also when plugin list selection is changed, the new configuration panel is loaded into this group.



Twain Configuration Panel

5.2.2 Settings Tab ^{NEW}



Settings Tab

There are three settingsgroups in the settings tab.

a. Configuration Settings

Configuration Settings of the IntelliBAS are provided in this group.

- Plugin Settings

Using Plugin Settings, the user can select the type of plugin settings to be used by intelliBAS application.

- **Local:** Enables local settings when plugin is invoked from web.
- **Server:** Enables server settings (settings stored on web-server) when plugin is invoked from web.

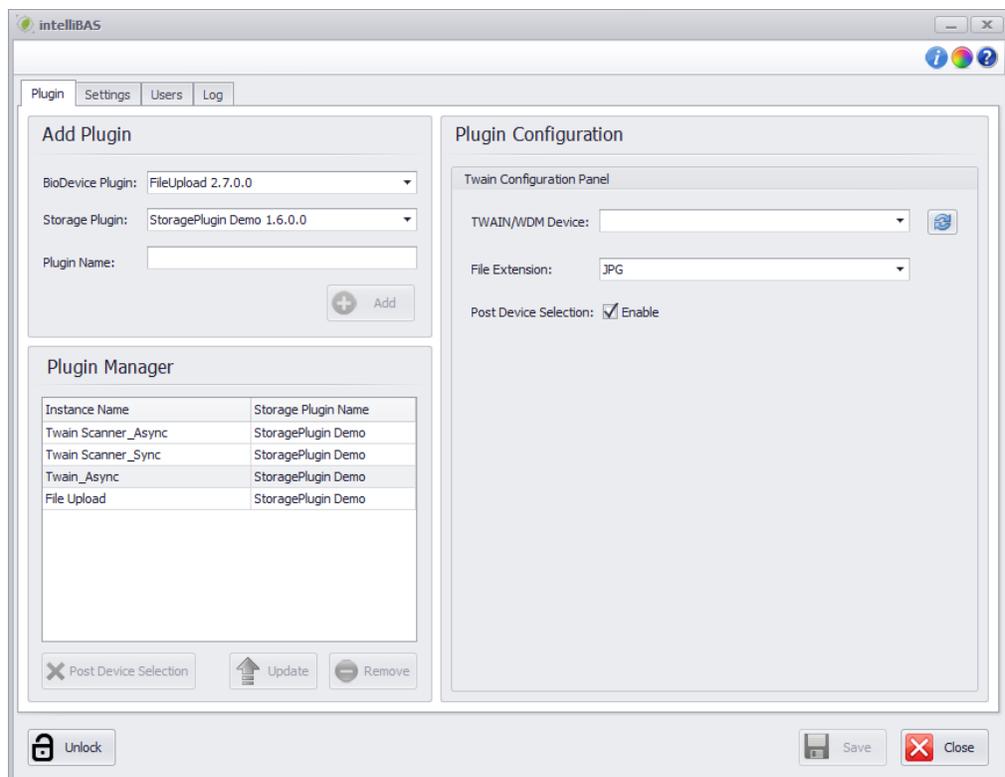
- IntelliBAS Mode

When 'Server' settings are used, this option gets enabled. Using this option, the user can select the mode in which the application will run. The user can select between 'Slave' and 'Master' mode.

- **Slave Mode:** In 'Slave' mode, the user cannot change the configuration settings of the plugins, on server.

The plugin configuration tab gets disabled and the 'Slave' can download settings from the web-server (as uploaded by the master) and use them when plugin is invoked.

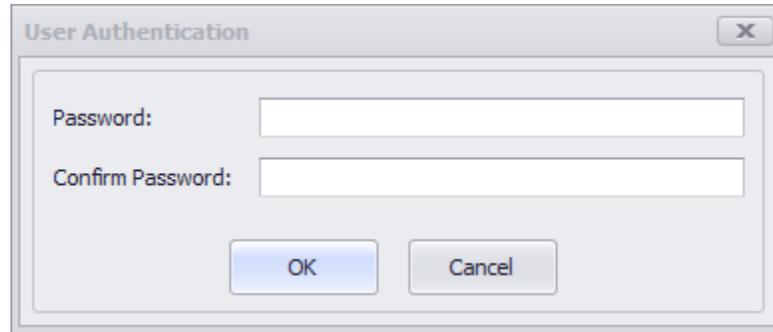
The advantage of Slave mode configuration is that multiple users can use the same configuration.



Disabled Plugin Tab in Slave mode

- **Master Mode:** In 'Master' mode, the user can change the configuration settings and upload them to web server.

For selecting master mode, the user is prompted to enter the password and confirm it. See default password in [5.2.10](#).



User Authentication Window

- Upload Mode **NEW**:

In the master mode the client can upload settings to the server. The upload mode allows user to select the way he wants to upload the settings to the server.

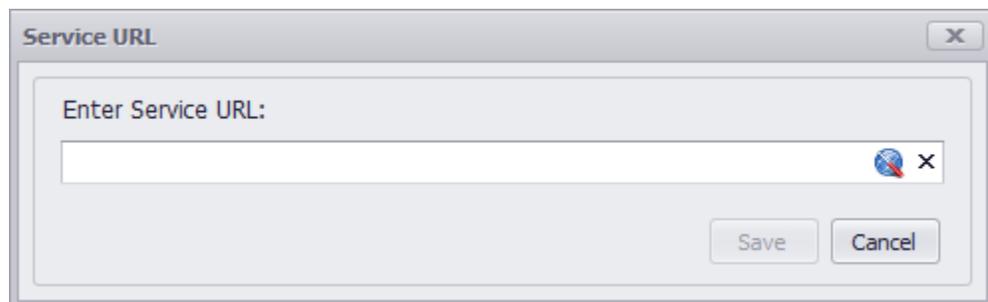
- **Full Settings:** In the full settings mode all the settings i.e. the plugin configuration settings as well as the intelliBAS configuration settings, are uploaded to the server and reflected in slave instance.
- **Plugin Settings:** In the plugin settings mode only the plugin configuration settings are uploaded to the server.

NOTE: Upload Mode field is enabled only when the intelliBAS application is working in the master mode.

- Service URL

For availing the web server services, the user has to enter the service URL. This option will be enabled only when 'Server' base settings are used. User can test the connectivity of URL by clicking the test connection button.

The option to 'Save' the link will be enabled only if the URL is valid/ authentic and compatible with intelliBAS.

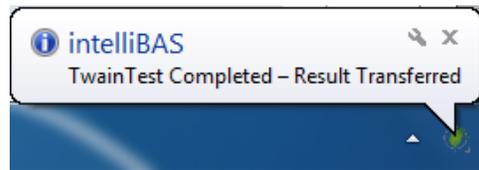


Service URL Window

b. General Settings

General settings of IntelliBAS are provided in this group.

- **Start IntelliBAS when Windows Start**
If the checkbox is checked, the IntelliBAS application start when windows starts. Else user has to run the application manually.
- **Show Information Balloon**
If this checkbox is checked, the general information about the execution of application will be shown in the balloon in the taskbar system tray.



- **Inherit Language From Server**
If this checkbox is checked, user does not need to select the language manually. The language will be inherited by IntelliBAS from the web server.
And also if the checkbox is checked, the Language combo box will be disabled as it is of no use on this case.
- **Language**
If the language is not inherited from server, user can select language from this combo box. It will take effect from the very next startup of the IntelliBAS.
- **Logging Settings**
User can enable or disable the log generation by this settings attribute. If this setting is enabled, the log is enabled and the log path input field enables. User has to configure path where log file should be stored.
- **Storage Plugin Configuration** ^{NEW}
Using storage plugin configuration the user can select the storage plugin and set its entire configuration from one place.
User can select the storage plugin from the drop down list and click the 'Storage Plugin' button to get to the Storage Plugin Configuration window, from where user can set all the settings corresponding to the selected plugin.



Storage Plugin Configuration

c. Advance Settings

Advanced Settings of IntelliBAS are provided in this group:

- Lock Settings

If this checkbox is checked, the settings get locked; so that any unauthorized person cannot change the configuration of IntelliBAS Plugins.

On checking this checkbox, the user can lock the configuration on next application start up. To change configuration when the application is locked, user has to press unlock button and provide the correct password.

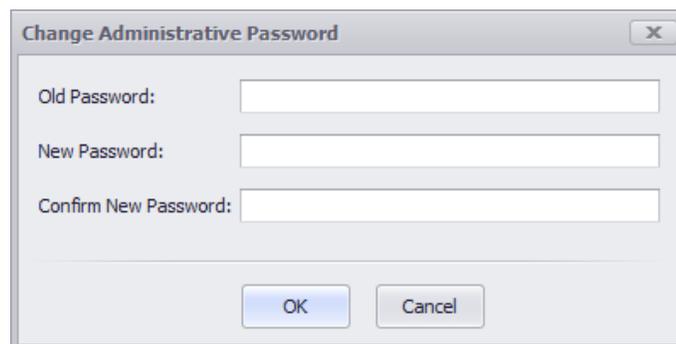
- Background Upload Settings

If background upload is enabled, then user has to configure this background upload path. In case of background upload, this directory will be used as temporary directory.

- Change Password

This option enables the master user to change the existing password. For changing the administrative password, the user has to add the existing password and new password in the 'ChangeAdministrative Password' window.

Only 'Master' user has the right to change the administrative password.



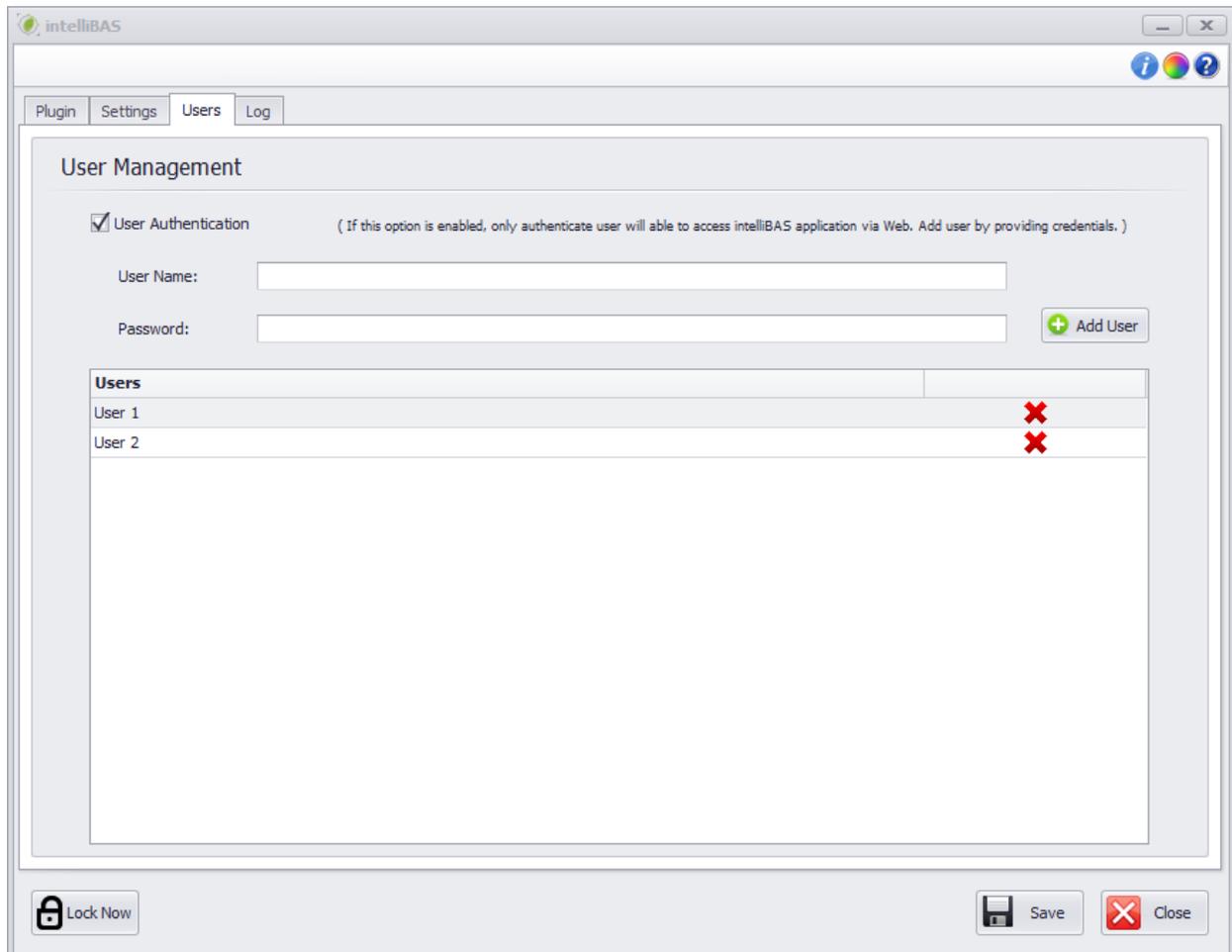
Change Administrative Password Window

- Lock Now Button

This option allows the user to lock the intelliBAS configuration immediately instead of on next startup.

To lock the settings, user has to click the 'Lock Now' button and enter the password. The configuration will be locked immediately. On the next start-up the configuration will be unlocked by default.

5.2.3 Users Tab



Users Tab

This tab contains the User Management configurations:

- **User Authentication**
 User Authentication feature can be enabled/disabled with this configuration setting. On enabling this configuration, only authenticated users will be able to access intelliBAS application from web.
 When intelliBAS is accessed through web, the host website has to pass valid credentials and if credentials are verified by intelliBAS, then only the process will continue.
 If this box is checked, the username and password combo box will be enabled.

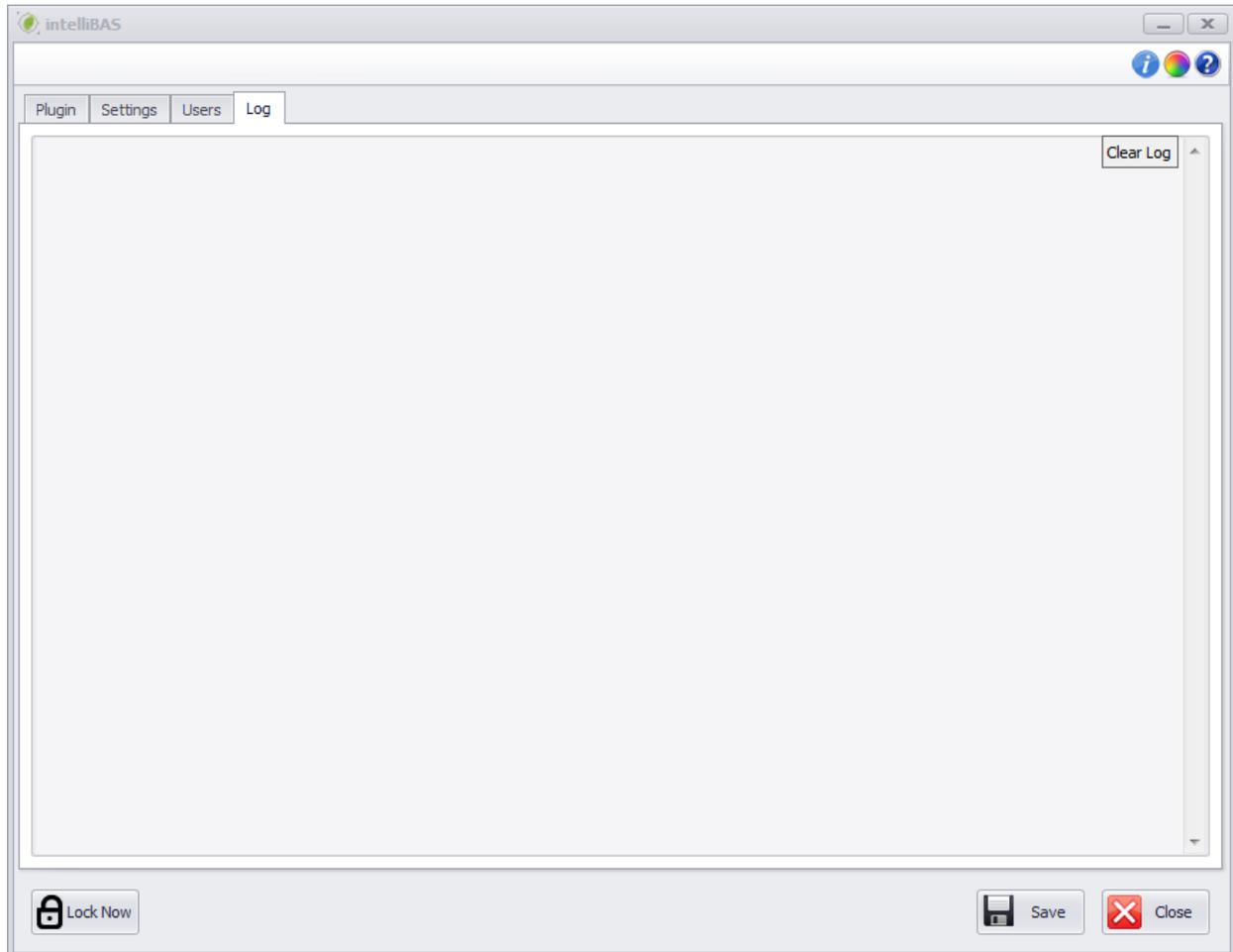
- User Name
User has to provide the username for new user in this field.
- Password
User has to provide the password for new user in this field.
- Add User Button
Clicking this button will simply add the new User with the specified username and password.
- User List
The list will list all the users which are currently added to the application. Users can be removed by clicking the 'Delete' icon inline.

To bypass the login pop-up while accessing the intelliBAS application from web, the website has to pass the 'User credentials' that were stored by the intelliBAS application.

NOTE: To save all the changes, user has to click 'Save' button otherwise all the changes will be reverted on next application startup.

5.2.4 Log Tab

The log tab is used to show the log to the user. As soon as the application starts, it generates log so the user can trace the control flow.



Log Tab

This log will contain technical as well as non-technical information about the execution of IntelliBAS. It will list all the actions performed and all the detail about the execution of IntelliBAS. Clicking the '**Clear Log**' button will clear the log from IntelliBAS application and the log file as well.

5.2.5 Save

In the bottom right corner of the application, you will find “Save” button. This save button is for saving plugin instance, individual plugin settings and IntelliBAS settings.

When user presses the save button, IntelliBAS will check for the storage plugin integration and Host settings. It will validate whether the settings are properly set or not. It will show appropriate message on error saving the settings and instances.

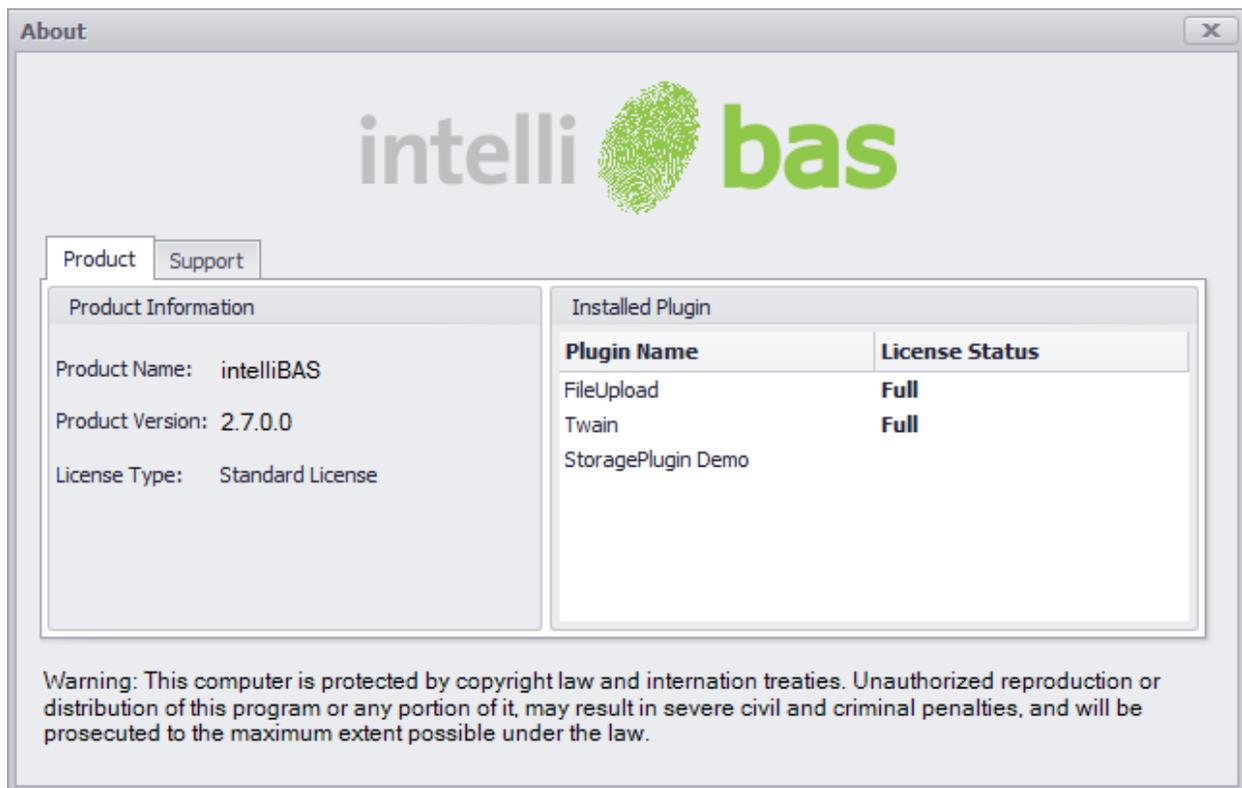
5.2.6 Close

When user closes the application, it will continue running in system tray. But when user presses the ‘Close’ button on bottom right corner of the host application, the application will close and will not run in taskbar system tray as well.

5.2.7 About

User can find ‘About’ button on top right corner of the host application. By pressing the about button, user will be able to open the about form of IntelliBAS.

About form will list all the details about IntelliBAS including plugin list that IntelliBAS supports, system diagnostics and manufacturer’s information.





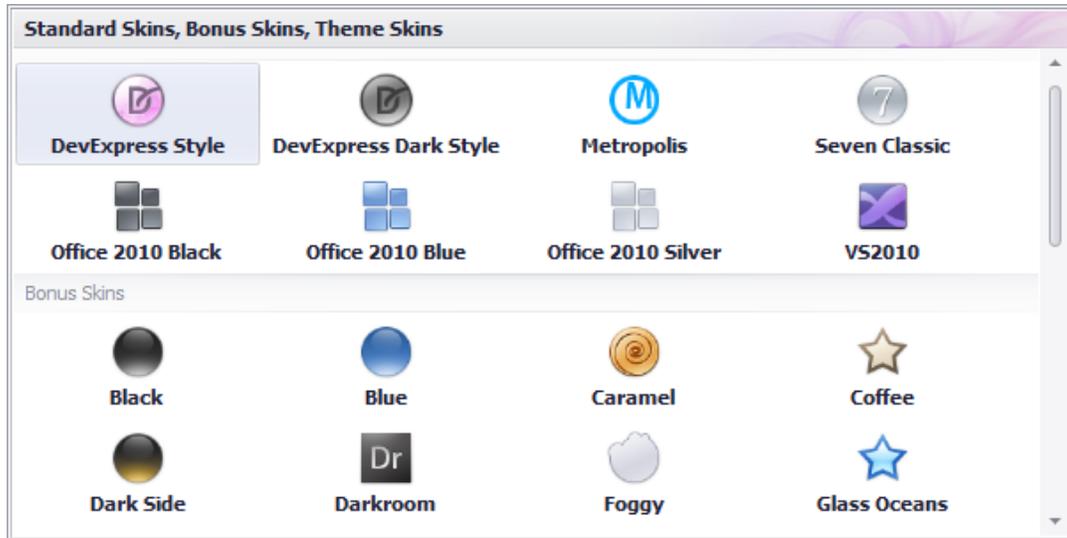
License Information

The About option also show the Licensing Information of the IntelliBAS host application. The 'About' option show the current version of License that is being used by the host software.

It displays whether the current version of the installed software is validated 'Full version' or the 'Demo version'.

5.2.8 Skins

Permanent things radiate monotonous feelings so IntelliBAS supports several skins for the host application. By clicking skins button, a pop-up will display and user will be able to select the skin.



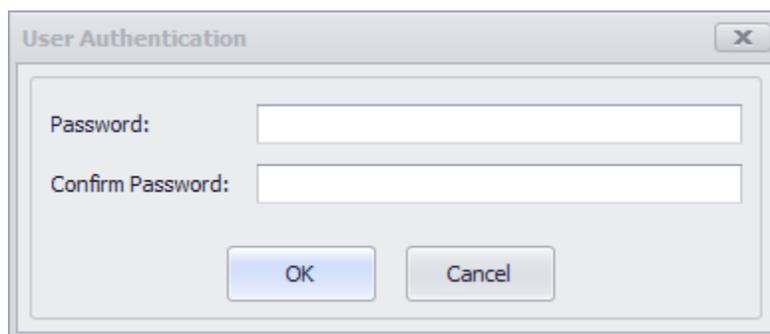
Skins Window

5.2.9 Help

On the top right corner of the application, you will find help button. Clicking the help button will load user manual PDF file for help.

5.2.10 Unlock

While loading the IntelliBAS, if the settings are locked, user will have to enter password first to make any changes in IntelliBAS. An input box will pop-up on clicking the unlock button.



User Authentication Window

NOTE: Unlock button will only be visible, if the lock settings option is selected during previous configuration. Default password will be '1234'. User can change password via 'Change Password' functionality.

6.0 IntelliBAS Data Transfer Modes

There are ways to transfer data to the web server from where the plugin call was made. They are described as follows.

6.1 With Storage Plugin

BioDevice Storage plugin is used to transfer data in this approach. Generally it is a .NET assembly (DLL) is used mostly to refer web service.

After successful acquisition of biometric data or when schedule to upload temporary data to the host website, IntelliBAS will call linked Storage Plugin to upload the data on web server

They are designed in such a way that they can be used in two modes.

- **Synchronous Transfer**

While this mode is used, it will directly upload files to the destination. It will certainly take more time than that of asynchronous transfer. The transfer speed depends upon the speed of your internet.

The web will take time to reflect the data. And also it will physically upload the data on the destination.

- **Asynchronous Transfer**

While this mode is used, background upload path is used and files are temporarily stored. Data will immediately reflect on the website and mean while it will silently be uploaded from the temporary directory to the web server via linked Storage Plugin with requested PluginInstance (Bio DevicePlugin). Temporary files will be deleted once data is uploaded to the web server.

Here user gets quick response. And also it seems faster.

Storage plugin is a safer way to transfer data and it is faster as well. Storage plugin provides better option to upload data on the host website.

6.2 Bypass Storage Plugin

The use of Web Services on the World Wide Web is expanding rapidly as the need for application-to-application communication and interoperability grows.

If Storage Plugin is not linked with the requested BioDevice Plugin instance, then intelliBAS will simply return acquired biometric data as a XML to the website host website can save data from this XML and update the website for acquired data based on the requirement

In this approach, there are two ways to transfer data to the web.

- **With Web-Service**

If there is web-service available to the destination, then BAS will directly call that web service and transfer data to the destination via same web-service.

This webservice will be called from JavaScript, and a SilverLight component is used to call the JavaScript.

- **Without Web-Service**

In case there is no web-service is available to the destination, the biometric data will be converted into xml object and the xml object will be transferred via code behind function.

Same way, if platform is PHP, then this call will be made by server script. Acquired result XML can be uploaded to the web server from code behind server page/script.

7.0 IntelliBAS Biodevice Plugins

IntelliBAS is a generic application which supports multiple biodevice plugins. IntelliBAS is based on Managed Extensibility Framework (MEF) to support multiple plugin.

IntelliBAS architecture is made in such a way that, if any changes are made to the biodevice plugins, there is no need to change the host application. User only has to replace the old dlls with new and the IntelliBAS is ready to work.

IntelliBAS supports following plugins.

- **File Upload**

File upload plugin uploads files of various formats to the destination. It also provides multiple files to be uploaded at a time with various formats.

- **Twain**

Twain plugin will be used to capture/get image from the applications and devices. It supports all the application and devices on the machine that uses twain driver on the system.

It allows capture/get photo in various extension.

Each biodevice plugin contains business logic and graphical user interface. It contains one configuration panel that will be loaded into the IntelliBAS application, it will contain a Result user control (In case plugins are used with desktop application), and other functionality forms.

To know more about other bio device plugins, please contact your reseller.