



Digi
Software Solutions

Digi Signature Sync



Index

| | |
|--|----|
| • Index | 1 |
| • Overview | 2 |
| • System Requirements | 2 |
| • Creating a Google Project | 2 |
| • G Suite Admin Console | 8 |
| • Installing Digi Signature Sync | 12 |
| • Configuring Digi Signature Sync | 17 |
| - Templates | 17 |
| - Sync Settings | 19 |
| - Activation | 19 |
| - Organizational Units | 20 |
| - Google Settings | 22 |
| - Global Settings | 22 |
| - Sync Service Settings | 22 |
| - Result Log | 23 |
| - Help | 24 |
| - Manual Sync | 25 |
| • Configuration Best Practises | 26 |
| • Account Management Portal | 27 |
| - Login to the Account Management Portal | 27 |
| - Account Management | 28 |
| - Uploading Images | 29 |
| - Downloading Previous Receipts | 30 |



Overview

Digi Signature Sync uses the Google Gmail API to sync email signatures with dynamic information to all the users in a specific google domain. To do this it requires some preparation in your Google domain to allow secure access between the application and the google domain.

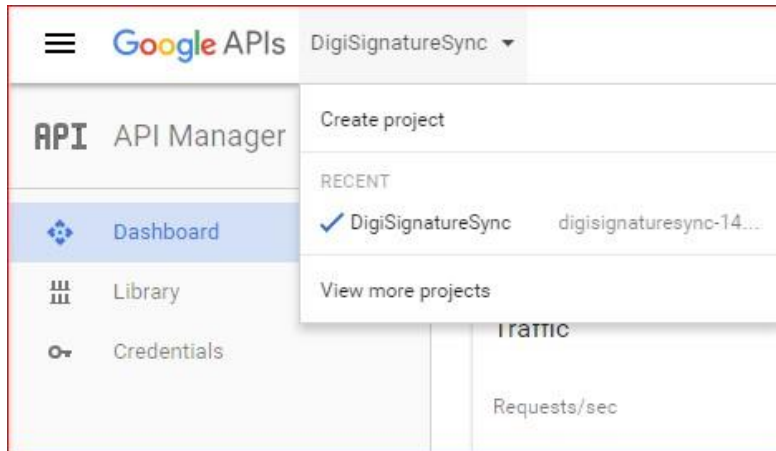
This Document is a step by step guide on how to configure both your Google domain as well as the Digi Signature Sync application.

Minimum System Requirements

- Pentium Dual Core Processor
- 2Gb Memory
- 100mb HDD Space
- 10/100 Network Card
- Internet connection with minimum 2mbps Upload speed
- Windows 7 or newer
- .Net Framework 4.5
- Active Directory Domain
- G Suite for Education or Business account

Creating a google project

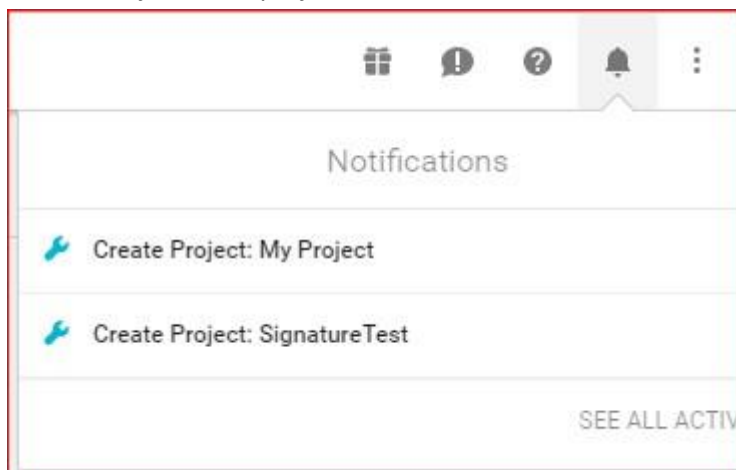
- To start the process, go to <https://console.developers.google.com>
- Sign in with your admin account
- Please note that because of regular changes applied to the layout of the google admin console there might be changes not reflected in this document at the time of writing.
- From the Project dropdown select Create project



- Type in a project name, this can be any name of your choosing. Just note that this name will be used to identify the application moving forward.
- Click create

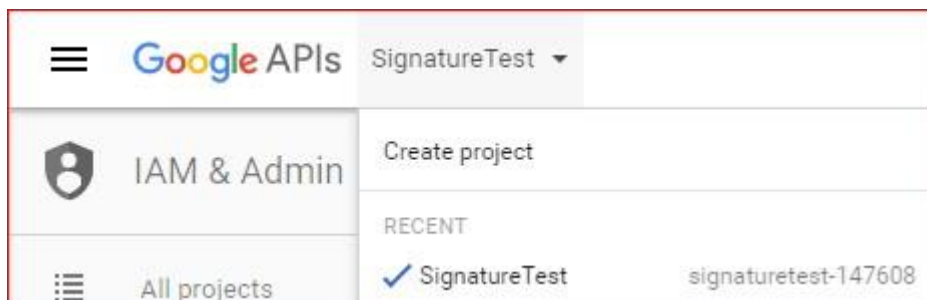


- Now you should see some activity under notifications (located on the right hand side of the page), If the project was created successfully you should see something in the line of Create Project: Your project name.

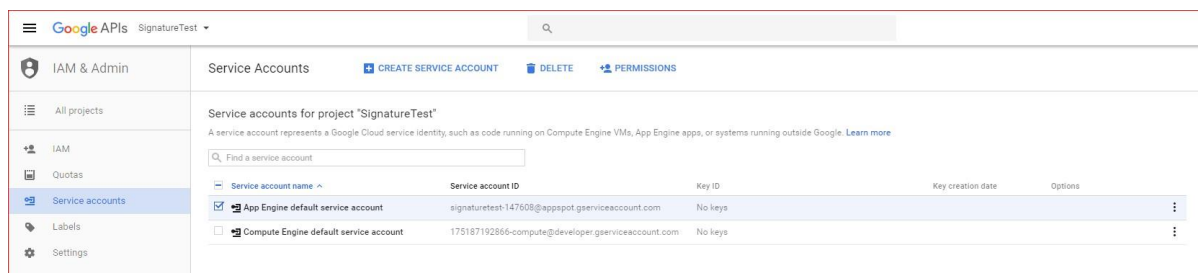


Go back to the projects drop down and select your project from the list

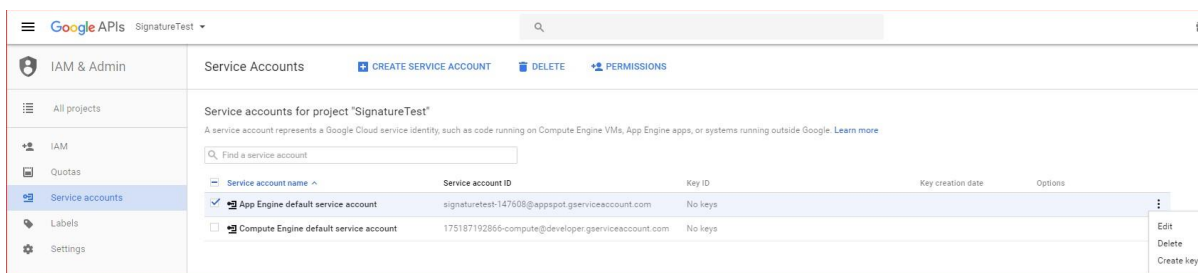
- Click on the 3 horizontal lines on the left hand side and Select IAM & Admin



- Next you have to create a service account that will manage the communication between Digi Signature Sync and the Google mail system.
- Select Service Accounts.
- Click the App Engine default service account. (Alternatively you can create a new one as well by clicking on Create Service Account at the top of the page, under Roles you will then need to select project owner, the rest of the process should still be the same)




- Once selected click on the 3 dots on the right hand side of the selected service account.
- Click on edit




- You can leave the service account name as default
- Select Enable G Suite Domain-wide Delegation (This allows the service to interact with the user accounts without requiring their credentials or consent)
- Product name for consent screen would be the name that appears if a consent screen is used. This can be any name but preferably something to Identify the application with. - Click Save

Edit service account

Service account name 

App Engine default service account

☒ Enable G Suite Domain-wide Delegation
Grants a client access to all users' data on a G Suite domain without manual authorization on their part. [Learn more](#)

 To change settings for G Suite domain, product name for the OAuth consent screen must be configured. Assign the product name below or configure the OAuth consent screen.

Product name for the consent screen

SignatureTest

[CANCEL](#) [SAVE](#) [CONFIGURE CONSENT SCREEN](#)

- You will be requested to create a private key
- Select P12 and click create

Create private key for "App Engine default service account"

Downloads a file that contains the private key. Store the file securely because this key can't be recovered if lost.

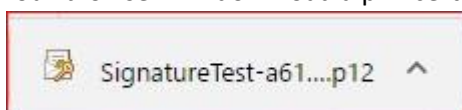
Key type

☐ JSON
Recommended

☒ P12
For backward compatibility with code using the P12 format

[CANCEL](#) [CREATE](#)

- Your browser will download a p12 certificate file



- You will be shown the secret in the certificate file, and the name of the certificate file downloaded. - Click Close

New private key

SignatureTest-a61f0d9db343.p12 has been saved on your computer. This is the only copy of the key, so store it securely.

This is the private key's password. It will not be shown again. You must present this password to use the private key. [Learn more](#)

[CLOSE](#)

- Click on View Client ID for your Service Account

| Service Accounts | | | | | |
|--|--|--|-------------------|-----------------------|--------------------------------|
| + CREATE SERVICE ACCOUNT DELETE PERMISSIONS | | | | | |
| Service accounts for project "SignatureTest" A service account represents a Google Cloud service identity, such as code running on Compute Engine VMs, App Engine apps, or systems running outside Google. Learn more | | | | | |
| <input type="text" value="Find a service account"/> | | | | | |
| Service account name | Service account ID | Key ID | Key creation date | Options | |
| <input type="checkbox"/> App Engine default service account | signaturetest-147608@appspot.gserviceaccount.com | a61f0d9db3437d3f9d0eb6bc6ac75688f901256c | Oct 26, 2016 | DwD @ | View Client ID |
| <input type="checkbox"/> Compute Engine default service account | 175187192866-compute@developer.gserviceaccount.com | No keys | | | |

- You should see all the information required a bit later during this process.
- Take note of the Client ID and second line of the Service account information

Credentials

[←](#)
[Download JSON](#)
[Delete](#)

Client ID for Service account client

Service account clients are created when domain-wide delegation is enabled on a service account.

[Manage service accounts](#)

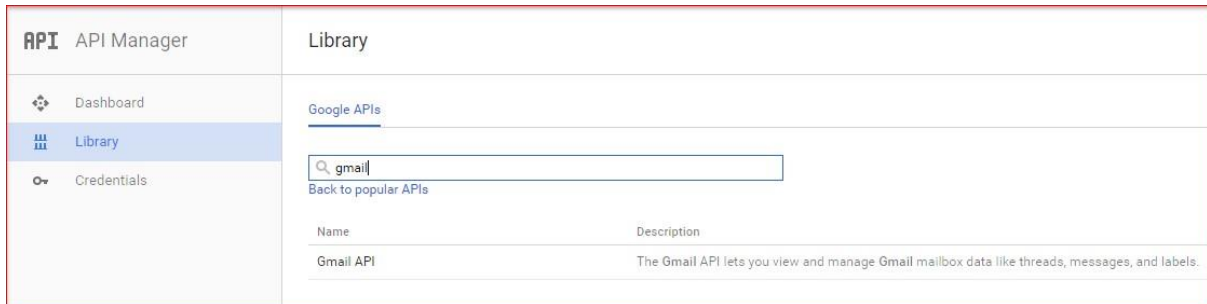
| | |
|-----------------|--|
| Client ID | 116689783871802357079 |
| Service account | App Engine default service account signaturetest-147608@appspot.gserviceaccount.com |
| Creation date | Oct 26, 2016, 10:11:54 AM |

Name

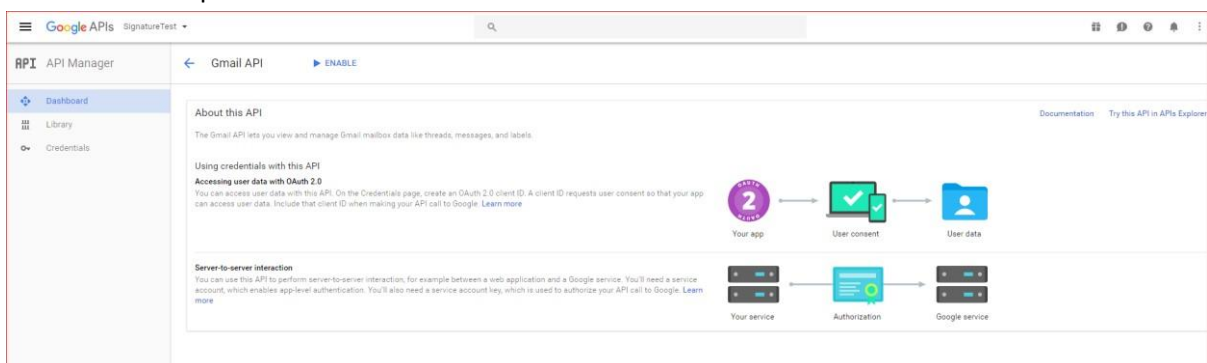
[Save](#)
[Cancel](#)

- Click on Library on the left hand side

- In the search bar type "gmail"
- Click on the Gmail API that was found

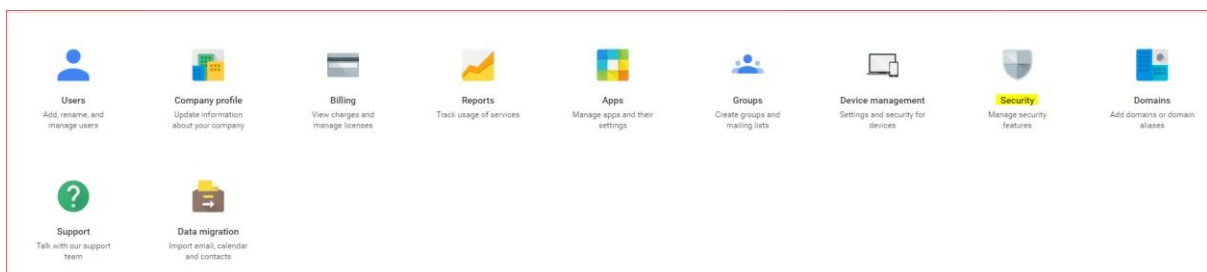


- At the top of the screen select Enable




G Suite Admin Console

- In this second part of the process you need to configure the security settings for your application in your domain by setting a scope.
- To do this go to <https://admin.google.com>
- Sign in with your Admin account
- Click Security



- On the security screen click on show more
- Then click on Advanced settings



Security

stbenedicts.co.za

Basic settings

Set password strength policies, enforce 2-step verification.

Password monitoring

Monitor the password strength by user.

API reference

Enable APIs to programmatically manage provisioning, reporting, or migration via custom-built or third-party applications.

Set up single sign-on (SSO)

Setup user authentication for web based applications (like Gmail or Calendar).

Advanced settings

Manage advanced security features such as authentication, and integrating G Suite with internal services.

- In advanced settings click on Manage API client access

party applications.

Set up single sign-on (SSO)
Setup user authentication for web based applications (like Gmail or Calendar).

^ Advanced settings

Authentication [Manage OAuth domain key](#)
Allows admins to access all user data without needing login credentials. ?

[Manage API client access](#)
Allows admins to control access to user data by applications that use OAuth protocol.

SSL for App Engine Apps
Configure SSL for custom domains to serve your App Engine application via HTTPS

Security

Manage API client access
Developers can register their web applications and other API clients with Google to enable access to data in Google services like Calendar. You can authorize these registered clients to access your user data without your users having to individually give consent or their passwords. [Learn more](#)

Authorized API clients

The following API client domains are registered with Google and authorized to access data for your users.

Client Name
Example: www.example.com

One or More API Scopes [Authorize](#)
Example: http://www.google.com/calendar/feeds/ (comma-delimited)

[Learn more about registering new API clients](#)

- In the Client Name field copy and paste the Client ID created earlier in this document

Credentials

← Download JSON Delete

Client ID for Service account client

i Service account clients are created when domain-wide delegation is enabled on a service account. [Manage service accounts](#)

Client ID **116689783871802357079**

Service account App Engine default service account
signaturetest-147608@appspot.gserviceaccount.com

Creation date Oct 26, 2016, 10:11:54 AM

Name

Save Cancel

- In the API Scope field copy and paste the following two lines separated by a comma



<https://www.googleapis.com/auth/gmail.settings.basic>
<https://www.googleapis.com/auth/gmail.settings.sharing>

| Authorized API clients | The following API client domains are registered with Google and authorized to access data for your users. |
|--|---|
| Client Name <input type="text" value="116689783871802357079"/> Example: www.example.com | One or More API Scopes <input type="text" value="https://www.googleapis.com/auth/gmail.settings.basic"/> <input type="button" value="Authorize"/> Example: http://www.google.com/calendar/feeds/ (comma-delimited) |

- Click Authorize
- Your Service account should now reflect in the list

| Manage API client access | |
|---|--|
| Developers can register their web applications and other API clients with Google to enable access to data in Google services like Calendar. You can | |
| Authorized API clients | The following API client domains are registered with Google and authorized |
| Client Name <input type="text"/> Example: www.example.com | One or More API Scopes <input type="text"/> <input type="button" value="Authorize"/> Example: http://www.google.com/calendar/feeds/ (comma-delimited) |
| 116689783871802357079 | https://www.googleapis.com/auth/gmail.settings.basic https://www.googleapis.com/auth/gmail.settings.sharing |

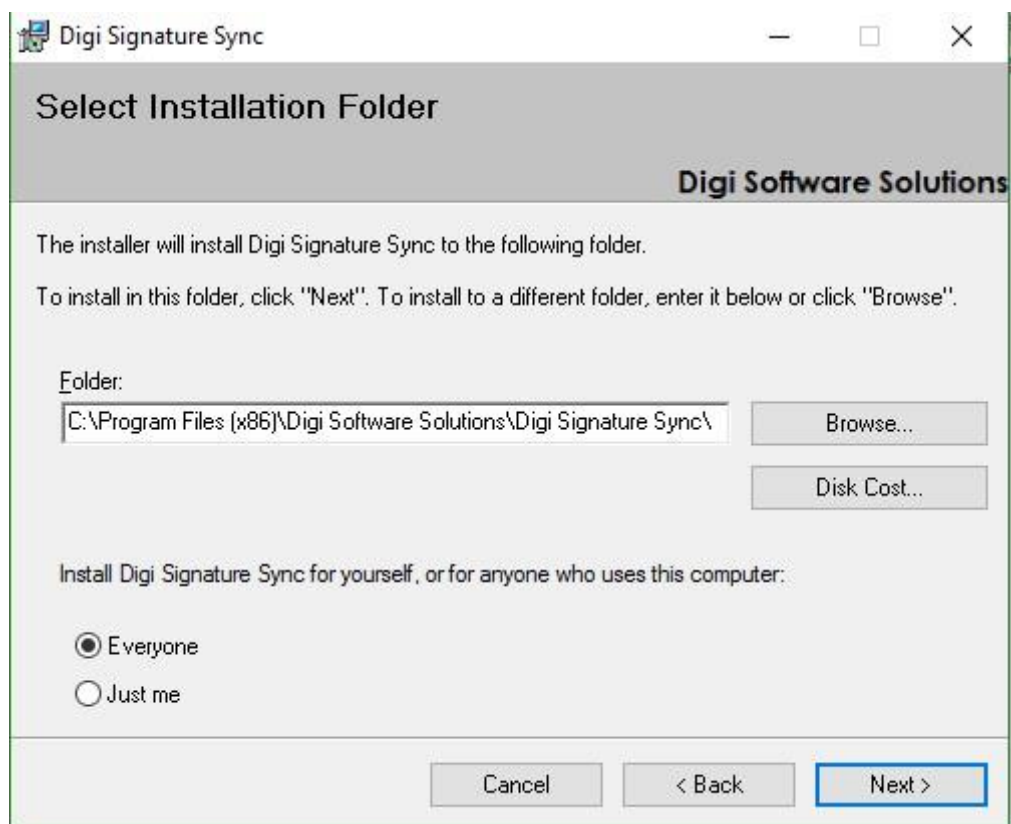
This concludes the configuration in your Google domain, it is now fully prepared to accept secure communications from the Digi Signature Sync Application.

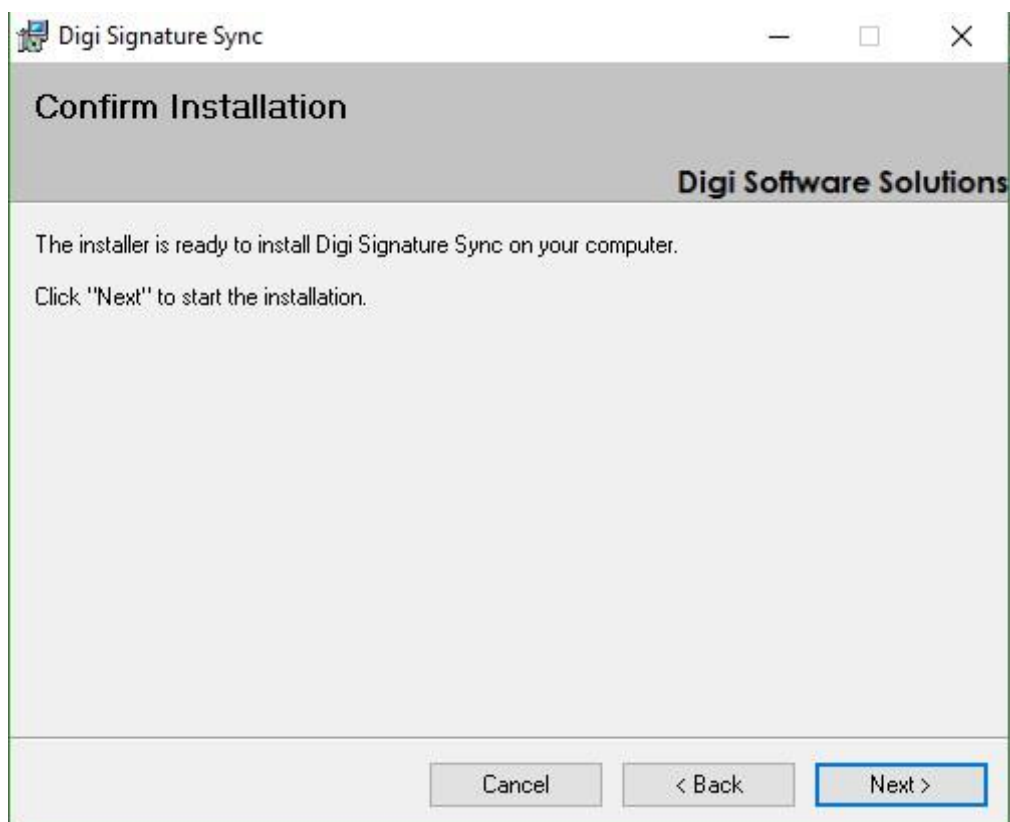
Installing Digi Signature Sync

- Run the DigiSignatureSync.msi installation file downloaded from the Digi Software Solutions website
- On the welcome page of the installer click next

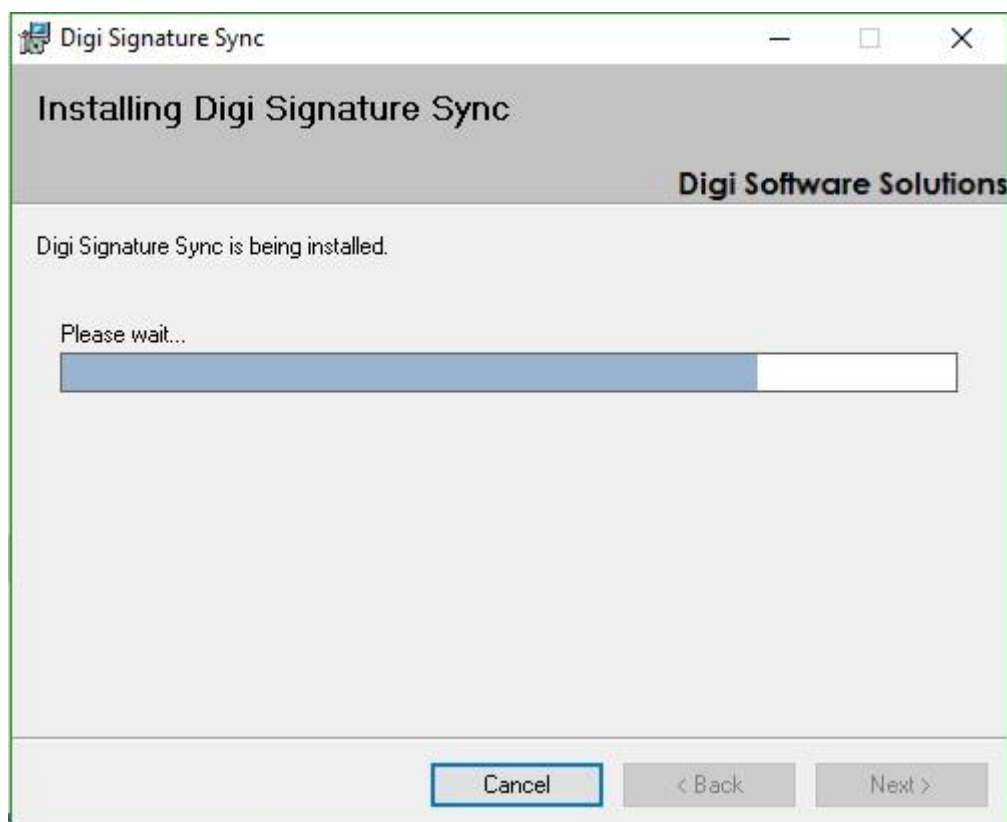


- The next screen will allow you to choose if you want to install the software for a single user or everyone that uses the computer. Select Everyone.
- You can also specify an alternate installation directory if required
- Once you are satisfied with the options click next
- On the Confirm Installation page click next again

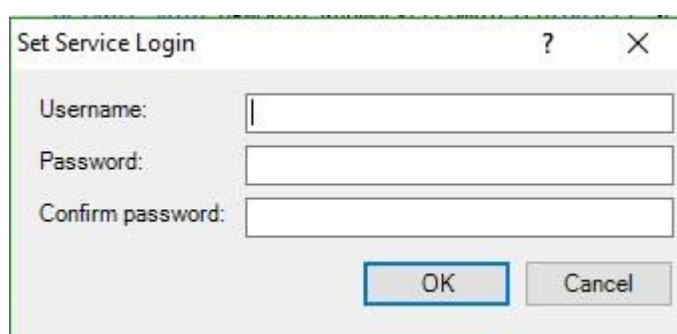




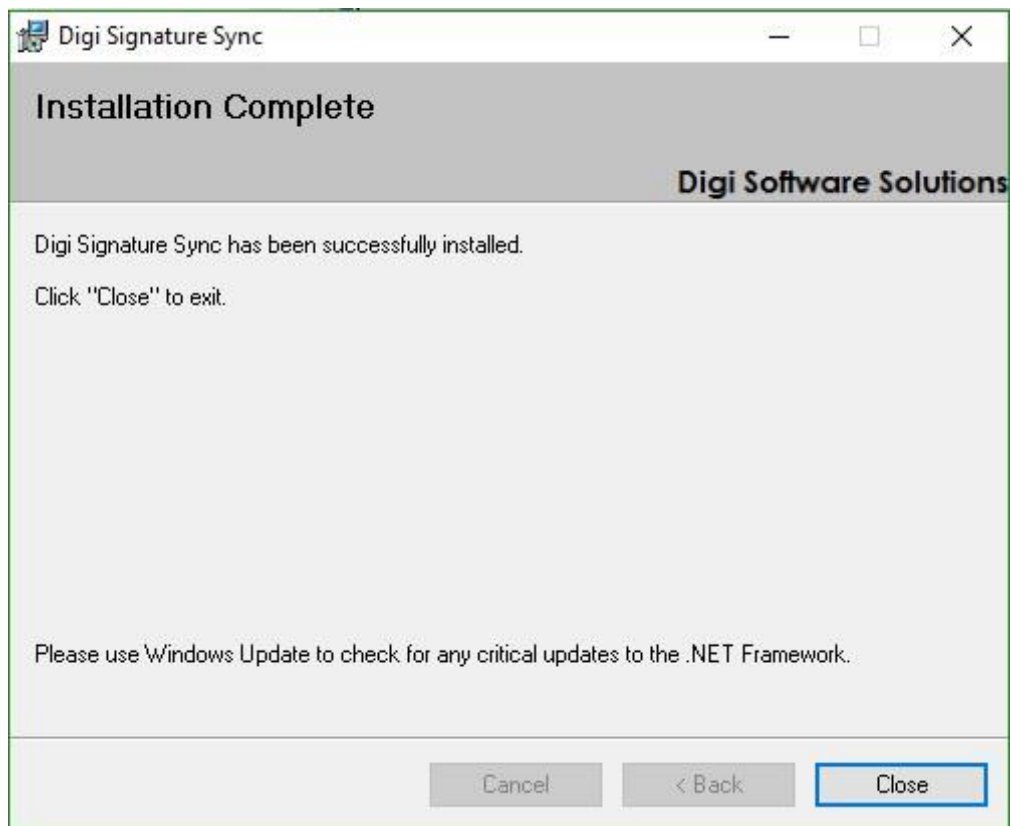
- The installation will start and just before it finishes it will request for user account information for the windows service.
- The user account the service uses needs to have Active Directory read access on all the organizational units you want to gather information from.



- Username must be entered in the following format: MyDomain\Username
- Type in the user account password
- Confirm the user account password
- Click ok



- The installation will finish and you can click on close.



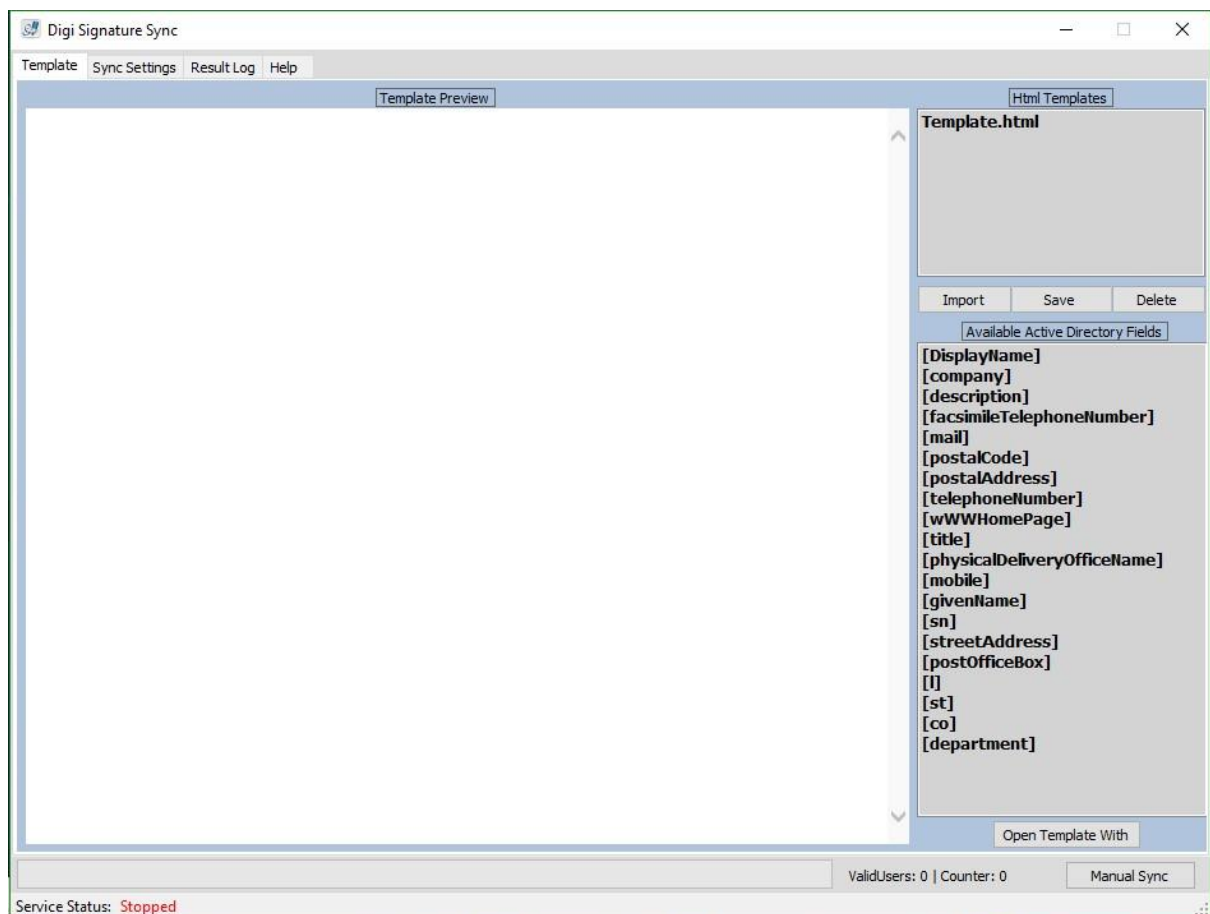
This concludes the installation portion of the software



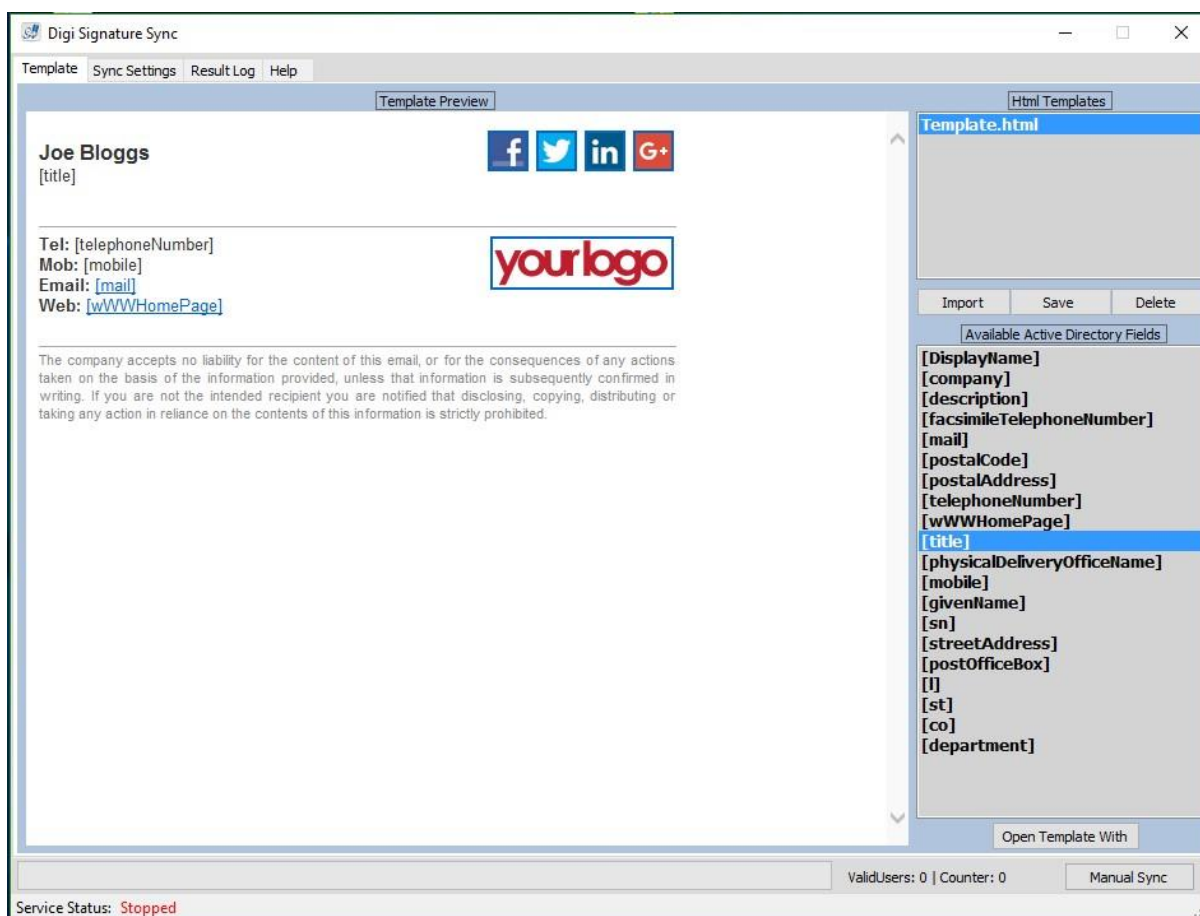
Configuring Digi Signature Sync

Templates

- Open the Digi Signature Sync application either from the desktop shortcut or the applications menu
- The application requires administrator access on the computer to be able to control the windows service and will request elevation on start up.
- The default view in the application on start-up is the Templates section where you can add, remove, edit your signature templates.



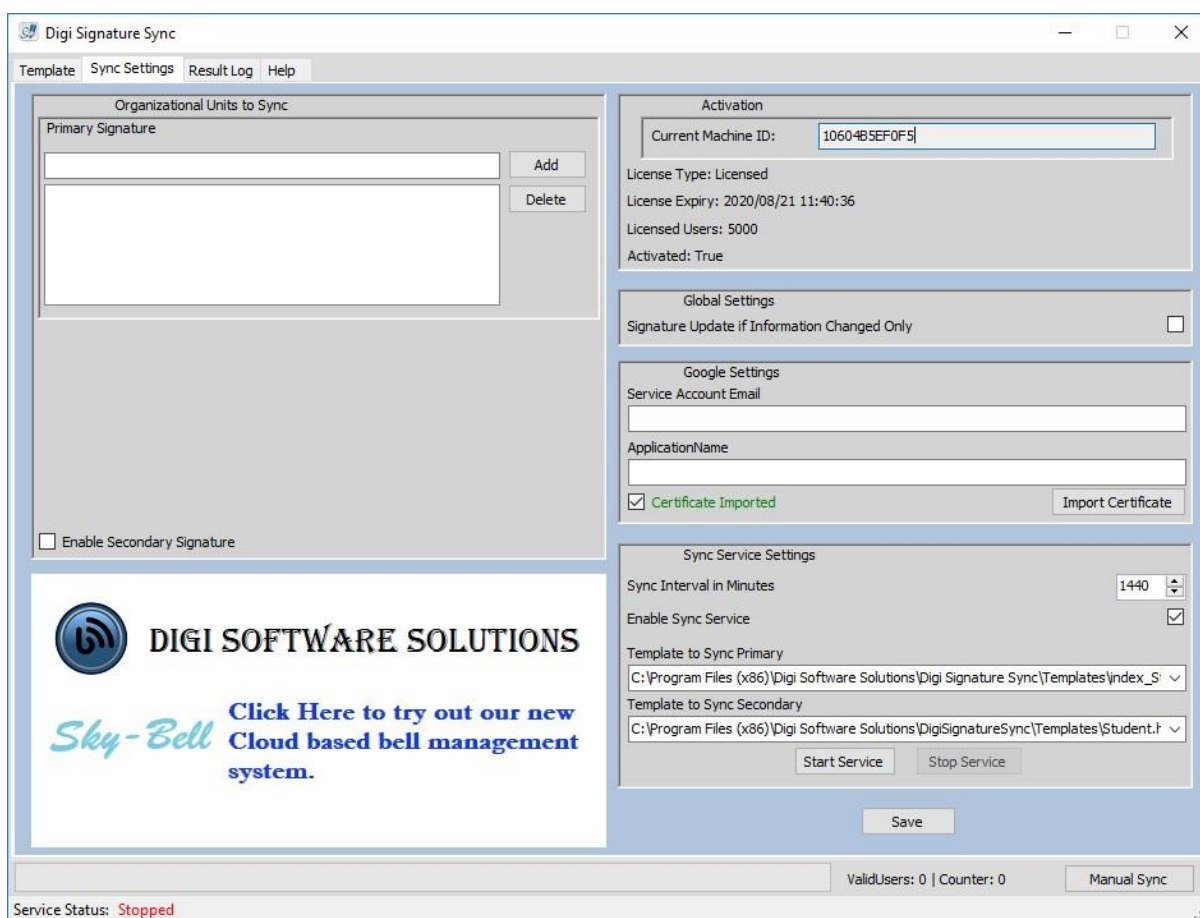
- To preview a Template, click on the Template name in the HTML Templates list
- It will load the Template into the preview pane for editing
- You can also click on Import below the HTML Templates list to select an HTML file from your local computer containing your custom signature.



- To add dynamic fields to a template, highlight the text you would like to be generated from info within Active Directory and select the desired Active Directory field you would like to retrieve the information from.
- For Example: Highlight the name "Joe Bloggs" then click on [DisplayName] from the Active Directory Fields List
- Once done this will now allow the application to dynamically add every individual users Display Name in AD into the HTML Signature before uploading it to google.
- You can also create dynamic hyperlinks.
- To create a dynamic mailto hyperlink to an individual user email address you can do the following:
 - Select the user email in the template and click on the [mail] AD field, this will replace a static email in the template with the dynamic mail flag. Now select the [mail] flag in your template you just inserted and right click on the selected text, select insert hyperlink from the menu. In the resulting window select mailto from the drop down and in the textbox below right click after the mailto: flag and select paste to insert the dynamic link [mail] as the hyperlink destination. Click OK
 - The link will turn blue once converted to a hyperlink
 - The same procedure can be followed for website links as well.

Sync Settings

- In the Sync Settings section, you can configure all the critical components within the application, these include: Organisational Units containing users, Activation of the software, Google account authentication settings, Settings to configure auto synchronisation via the windows service.



The screenshot shows the 'Digi Signature Sync' application window with the 'Sync Settings' tab selected. The interface is divided into several sections:

- Organizational Units to Sync:** Contains a 'Primary Signature' section with an 'Add' button and a 'Delete' button. Below it is a large empty text area and a checkbox labeled 'Enable Secondary Signature'.
- Activation:** Displays the 'Current Machine ID' as '10604B5EF0F5'. It also shows 'License Type: Licensed', 'License Expiry: 2020/08/21 11:40:36', 'Licensed Users: 5000', and 'Activated: True'.
- Global Settings:** Includes a checkbox for 'Signature Update if Information Changed Only'.
- Google Settings:** Features a 'Service Account Email' field, an 'ApplicationName' field, and a checkbox for 'Certificate Imported' with an 'Import Certificate' button.
- Sync Service Settings:** Includes a 'Sync Interval in Minutes' spinner set to '1440', an 'Enable Sync Service' checkbox, and two dropdown menus for 'Template to Sync Primary' and 'Template to Sync Secondary'. At the bottom of this section are 'Start Service' and 'Stop Service' buttons.

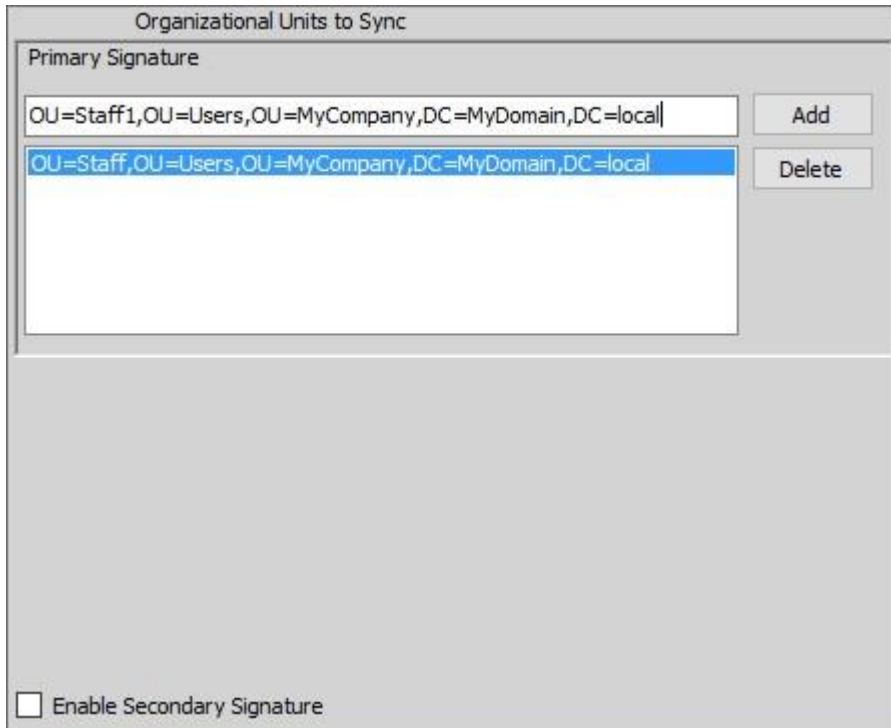
At the bottom of the window, there is a 'Save' button and a status bar showing 'Service Status: Stopped', 'ValidUsers: 0 | Counter: 0', and a 'Manual Sync' button.

Activation

- You can activate the software in the Activation section by using the Email used when purchasing the software and the key provided by Digi Software Solutions.

Organizational Units

- This section is used to control which users are synced with google and if they are part of the staff (Primary Signature) or Students (Secondary Signature) in a school environment.
- To add an organizational unit, copy the distinguished Name property of the desired OU in Active Directory and paste it into the text box next to the Add button.
- Click add to insert the OU in the list
- You can add as many OU's as you require
- To enable the secondary signature click on the Enable Secondary Signature check box
- Follow the same procedure as the primary signature to add OU's you would like to sync the secondary template to



Organizational Units to Sync

Primary Signature

OU=Staff,OU=Users,OU=MyCompany,DC=MyDomain,DC=local
OU=Staff1,OU=Users,OU=MyCompany,DC=MyDomain,DC=local

Secondary Signature

☒ Enable Secondary Signature

Google Settings

- Enter your service account email address obtained earlier when you created the google service account for your google domain
- The application name you can leave as Digi Signature Sync
- Click on Import Certificate and browse for the .p12 file retrieved from google during the service account setup.
- Once the certificate file is imported the check box shown below will have a tick and green text stating that the Certificate has been imported
- This section is required to setup a secure transmission channel between the application and the google api

Google Settings

Service Account Email

signaturetest-147608@appspot.gserviceaccount.com

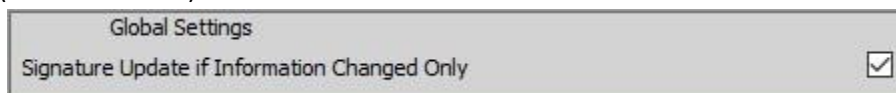
ApplicationName

Digi Signature Sync

☐ Certificate Missing

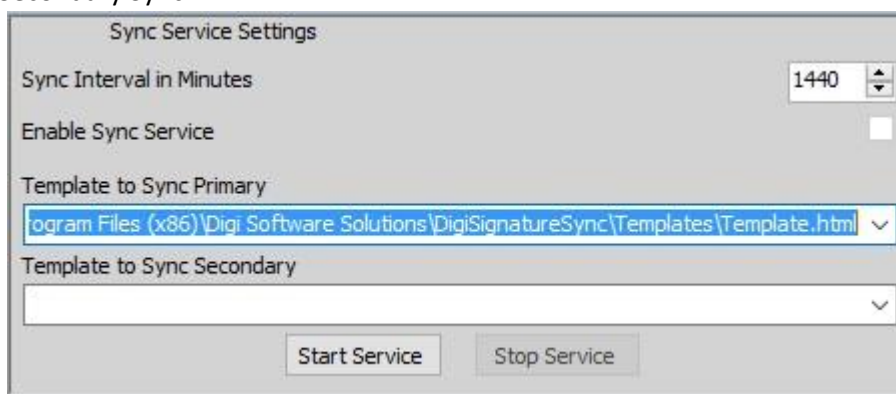
Global Settings

- Enable the “Signature Update if Information Changed Only” option to monitor changes to active directory and only update user signatures that changed since the last sync. (Recommended)



Sync Service Settings

- These settings are used to configure the auto sync interval for the windows service and to enable or disable the auto sync feature as well as setting the templates for the Primary and Secondary Sync

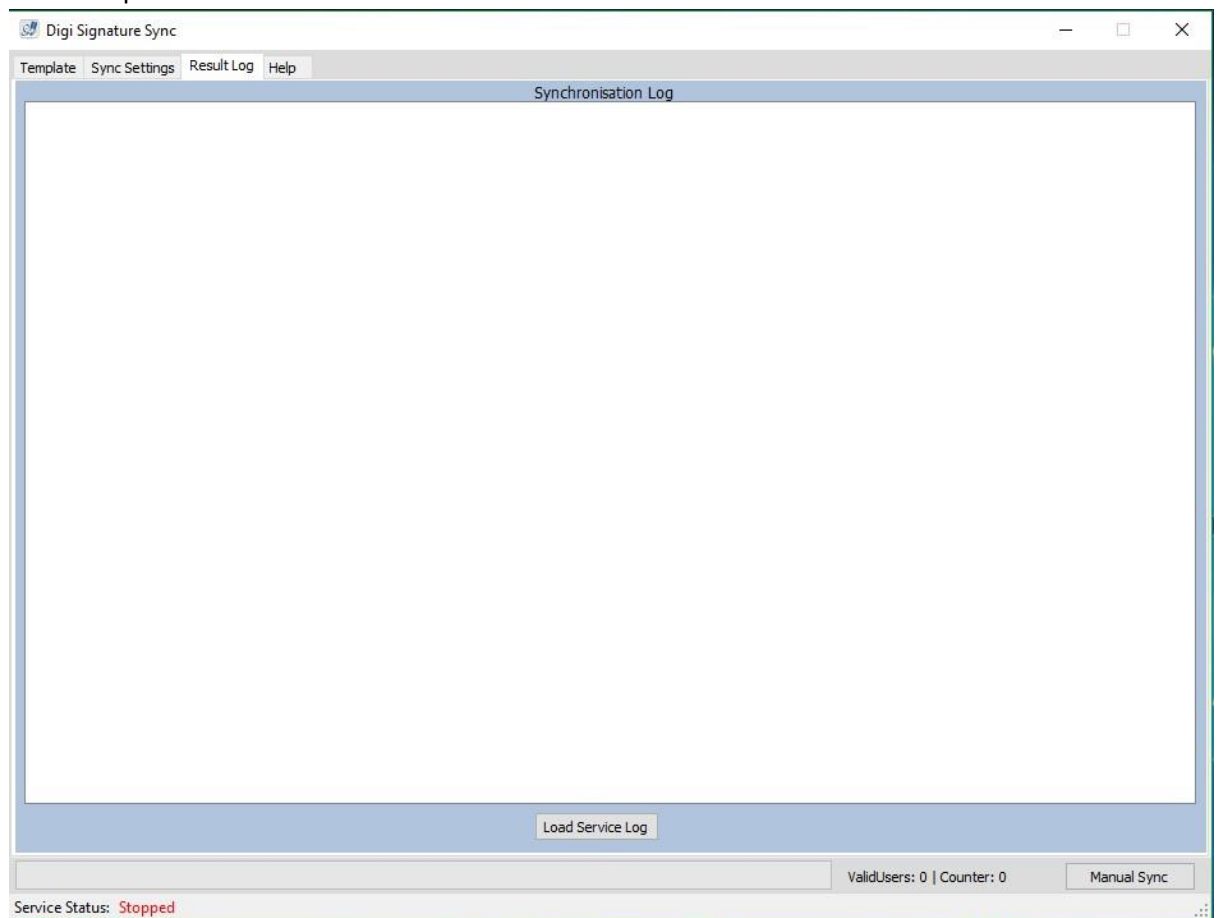


- Sync Interval is used to set the amount of minutes between each auto sync, the minimum value is 1440(24 Hours) and the maximum is 10080(7 Days). The Default setting is 1440
- Enable Sync Service is used to enable or disable the auto sync feature
- Template to Sync Primary is used to select which template to sync to all OU's in the Primary signature list.
- Template to Sync Secondary is used to select the template to sync to all OU's in the Secondary signature list
- Start/Stop service buttons can be used to control the windows service.

Result Log

- The result log contains the progress report of the sync process when doing a manual sync in the Digi Signature Sync application
- You can also load the windows server log into the Result log view pane by clicking on the Load Service Log button
- The windows service will update the log file at the end of each synchronization

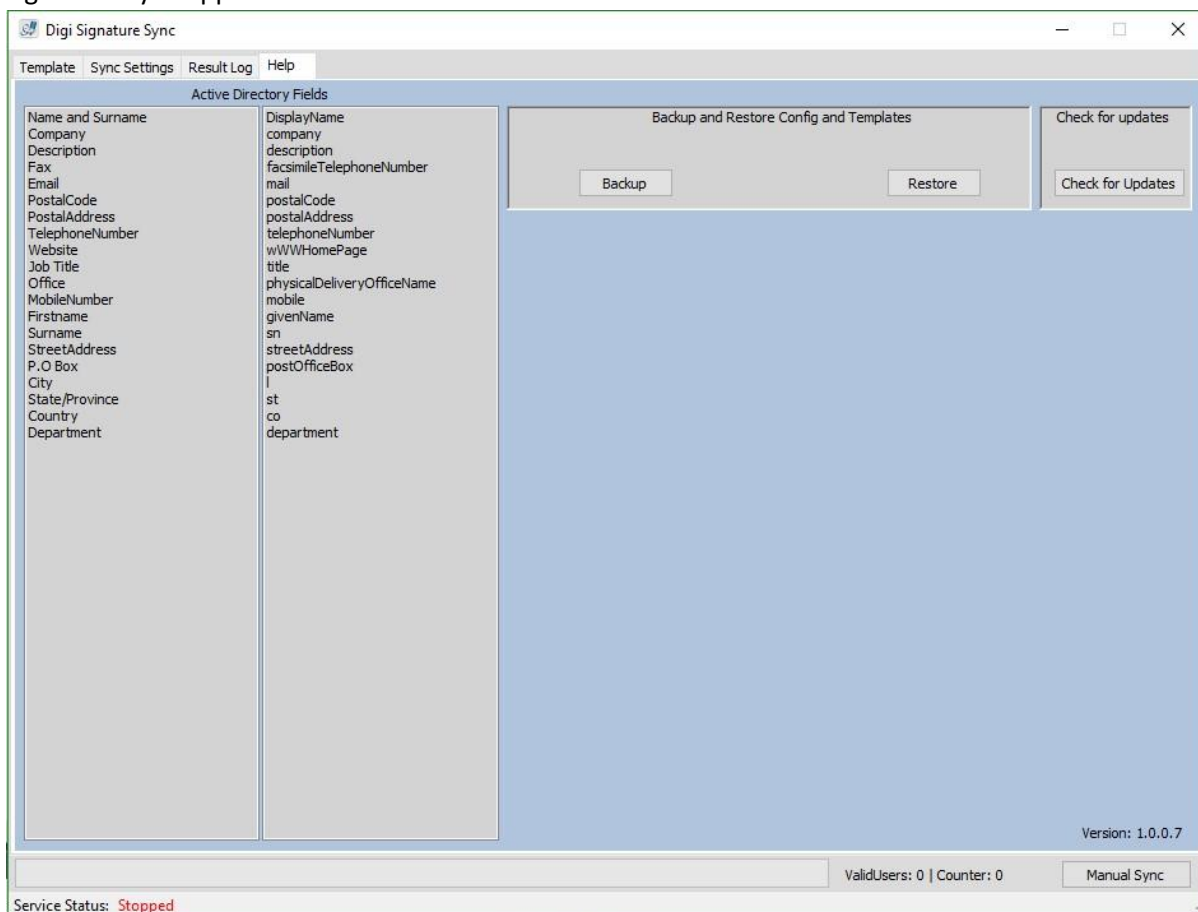
- The log will contain the following information
 - Time started
 - Templates Generated
 - Sync Threads Started
 - Each user account synched with a result (Success/Failed)
 - Time Completed



Help

- The help window is used if you are unsure what the Active Directory field equivalent is of the information you want to insert in the signature.
- A backup of the entire application configuration can be created by clicking on the Backup button, to restore a backup click on restore and point it to a .bkp file created at an earlier time.

- In the bottom left hand corner you will find the current application version of your Digi Signature Sync application



Manual Sync

- Once the application is configured you can start a manual sync by clicking on the Manual Sync button
- Once a sync is started it cannot be aborted whilst in progress



Configuration best practises

- If you don't have Secondary Signature OU's added to the list disable the feature
- Always select a single OU containing a test account first when you initially setup the application and your first Signature Template to prevent deploying a problematic signature to your entire domain
- After a sync of a new template always check in one user's signature settings in their google mailbox to ensure the signature looks as expected.
- Google does a "Clean Up" of the HTML code once received and will remove any non-supported HTML features or incorrect html structure which can lead to signatures not displaying correctly.
- The Digi Signature Sync Application has some HTML editing capabilities but should not be used as your primary HTML creation software. Its function is primarily to insert the dynamic fields into an existing template rather than being used as an editing tool.
- The sync speed of the system will depend on the complexity of the HTML signatures being imported and the speed of your internet connection's upload.
- To use the Auto Sync feature, install the software on a computer or server that will be on 24 hours a day. Alternatively, you can do manual sync's as needed.
- Ensure that any images used in the signature points to a location where the images can be accessed publicly. Usable locations would be your School/Company web server, Google drive (Share the images publicly) or uploading your images in .png format to our Digi Software Solutions server. (See Account Management Portal Section)

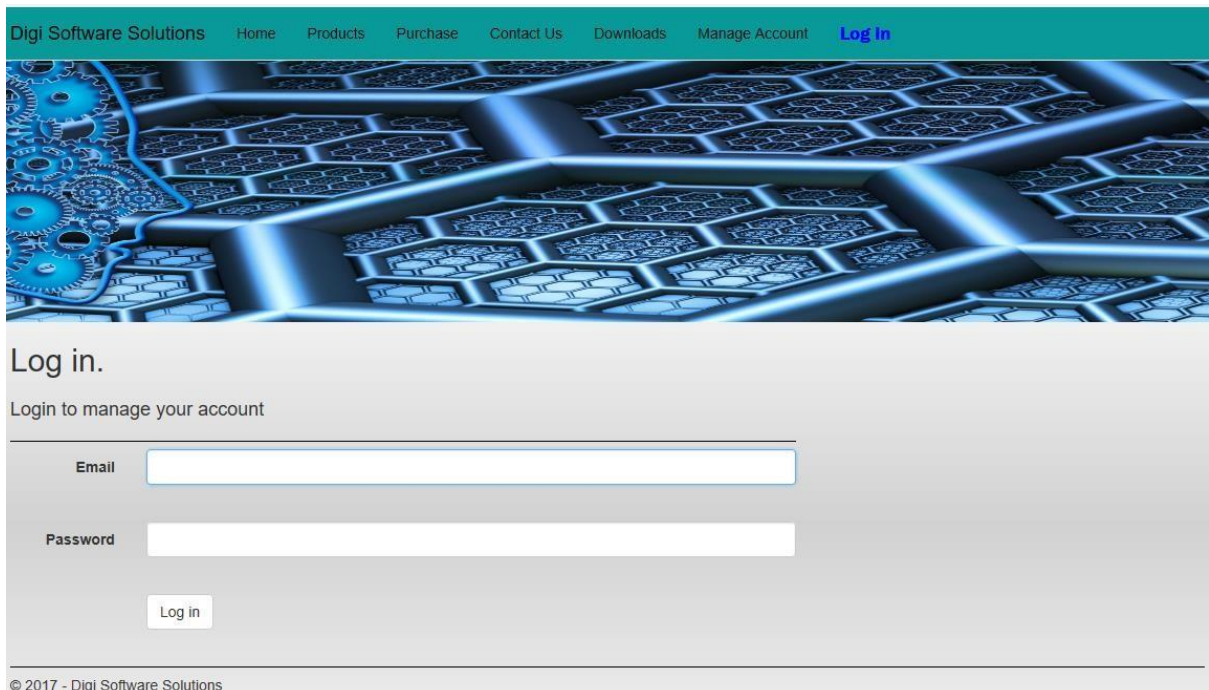
Account Management Portal

The Management Portal on the Digi Software Solutions Website can be used to do any of the following tasks.

- Release an activated license from a computer so it can be re-used on a different machine.
- Change your account password
- Purchase additional user licenses for your existing license code
- Upload images to be linked to your signatures
- Download your purchase receipts from previous purchases

Login to the Account Management Portal

- Go to <http://www.digisoftwaresolutions.co.za>
- Click on Manage Account
- On the login page type in your email address and the password sent to you when you purchased your license
- Click log in




The screenshot shows the login page of the Digi Software Solutions Account Management Portal. At the top, there is a navigation bar with links: Digi Software Solutions, Home, Products, Purchase, Contact Us, Downloads, Manage Account, and Log In. Below the navigation bar is a large, stylized image of a circuit board with glowing blue lines. The main content area has the heading "Log in." followed by the subtext "Login to manage your account". There are two input fields: "Email" and "Password". Below the "Password" field is a "Log in" button. At the bottom left, there is a copyright notice: "© 2017 - Digi Software Solutions".

Account Management (Sky-Bell Clients Only)

- In the top table you will see all the licenses currently linked to your account, this will display all licenses including Expired, Activated and non-Activated licenses. (Sky-Bell Only)

Digi Software Solutions
Home
Products
Purchase
Contact Us
Downloads
Manage Account
info@digisoftwaresolutions.co.za
[Logout](#)



Account Management

Licenses linked to account

| | Email | Company | Software | LicensePurchaseDate | LicenseExpiry | LicenseKey | Users | SystemID | Activated | ActivationDate | Term |
|--------|--|-------------------------|---------------------|---------------------|---------------|--------------------------------------|-------|----------|--------------------------|----------------|------|
| Select | info@digisoftwaresolutions.co.za | Digi Software Solutions | Digi Signature Sync | 2017/02/27 10:39:03 | | 7f9ce742-1542-47a1-bc09-c28a207b8081 | 2000 | | <input type="checkbox"/> | | 3 |

Release License

Account:

License Key:

SystemID:

Reset Password

Old Password:

New Password:

Repeat Password:

Buy more user licenses

Email:

License Key:

ExpirationDate:


Current Users:

Additional Users:

R0.00

- By clicking on the Select link next to the required license it will auto populate the text boxes below for managing that specific license.
- You can also increase your selected license user limit by changing the amount of additional license you need to add. Once you click on checkout it will calculate the remainder of your license term and the amount of the additional users required to give you an amount due.
- If you want to proceed with the payment you can click on the “Pay using Pay Fast” button and process the payment.
- Once the payment clears it will automatically increase the license limit on your application the next time you open it.

Digi Software Solutions Home Products Purchase Contact Us Downloads Manage Account info@digisoftwaresolutions.co.za [Logout](#)



Account Management

Licenses linked to account

| | Email | Company | Software | LicensePurchaseDate | LicenseExpiry | LicenseKey | Users | SystemID | Activated | ActivationDate | Term |
|--------|----------------------------------|-------------------------|---------------------|---------------------|---------------|--------------------------------------|-------|----------|--------------------------|----------------|------|
| Select | info@digisoftwaresolutions.co.za | Digi Software Solutions | Digi Signature Sync | 2017/02/27 10:39:03 | | 7f9ce742-1542-47a1-bc09-c28a207b8081 | 2000 | | <input type="checkbox"/> | | 3 |

Release License

Account:

License Key:

SystemID:

Reset Password

Old Password:

New Password:

Repeat Password:

Buy more user licenses

Email:

License Key:

ExpirationDate:

Current Users:

Additional Users:

R0.00

- You can reset your password for your management portal by entering your Old password, then your new password and confirming the new password.
- Click on Reset Password to commit the change.
- This password is only used to login to your Account Management Portal and does not affect your Sky-Bell licenses.

Uploading Images

Upload Shared Image

Friendly Image Name:

- If you want to use the Digi Software Solutions servers as a public location to store your signature images you can do so by converting them to .png format and ensuring their size is less than 150kb per image
- Click browse and select the image you want to upload from a location on your computer

- Give it a friendly name so you can identify the image if you have multiple images for example "Company Logo" or "Facebook Icon"
- Click the upload button to upload the image to the server

Upload Shared Image

C:\Users\chrisb.SBC\Des

Friendly Image Name:

- Once the image is uploaded you will see it appear in a table
- You will see an image link displayed next to the friendly name you entered during the upload process, which you can copy to your signature template as the source of your image.
- These links will be accessible by the public which is a requirement for HTML signatures
- Every time someone opens one of your emails, the images will be retrieved from the Digi Signature Sync Server and displayed in their mail client.

Uploaded image links

| | ID | ImageName | ImageLink |
|--------|----|-----------|---|
| Delete | 11 | Logo | http://www.digisoftwaresolutions.co.za/ClientImages/Digi Software Solutions/49443d51-d4a5-4512-a537-69cfcdc9b17.png |

Upload Shared Image

Friendly Image Name:

- Using this feature is not a requirement for the app to function, if you prefer you can use your own company web server, google drive or any other public accessible storage location to store your images and use those links respectively in your signature templates.

Downloading Previous Receipts

- If you need to obtain a receipt of any of your previous purchases you can download it from the Download Receipts section at the bottom of the page
- Click on the Select link next to the required receipt to initiate a download of the receipt in HTML format

Download Receipts

| | ID | TransDate | TransID | TransAmount |
|--------|----|---------------------|--------------------|-------------|
| Select | 22 | 2017/02/27 10:39:03 | 636237887432378911 | 0 |