

SimpliGov—Government forms with Workflow Automation Platform

Technical White Paper



SIMPLIGOV

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Introduction

SimpliGov is an easy-to-use, drag-and-drop government forms with workflow automation platform that allows government analysts and process owners to rapidly build and deploy forms with workflows.

SimpliGov is a robust platform that can handle everything from complex operational processes to prototyping to intake form management. Accordingly, in order to discuss the platform's functionality we must consider SimpliGov from a number of different angles. We will begin by discussing the role and responsibility of the enterprise owner, and the ways in which he or she will interact with the simple Designer Interface. Then, this white paper will cover the various integrations that are either out-of-the-box or made possible by SimpliGov's readily accessible API. Finally, we will pan out to consider how end users will use SimpliGov's analytics and Dashboard to keep track of the hundreds of workflows they launch and access from one place.

What makes SimpliGov a platform?

SimpliGov is an end-to-end Digital Transaction Management (DTM) platform. With SimpliGov, process owners are able to easily build digital, automated workflows around the manual, repetitive, and paper-based tasks that consume their time. When we say that SimpliGov is a platform, we mean that it works for everyone involved in those processes – from the process owners who design the forms, to the approvers and reviewers involved in the process – even to the public, if constituents or consumers are requesting information through a workflow-enhanced webform.

It's a platform for the users, who can launch and manage workflows from one comprehensive space. It's also a platform for the process owners and designers, who can use the straightforward interface to build demanding processes. The Dashboard interface, drag-and-drop design tools, Visio-like diagramming tool, integration-capabilities, and analytics all work together to make SimpliGov truly an end-to-end platform. With this in mind, we must ask, "How do business process owners leverage the SimpliGov Platform to automate processes?"

What does automating something with SimpliGov mean?

Workflow automation solves your bottleneck problems, your auditing issues, and your inefficiency woes. Anything that can be whiteboarded can become a workflow. One of the great things about SimpliGov is that you don't need one thousand pages of requirements in order to start building your workflow – we know that workflows, just like your organization, are constantly growing, expanding, and changing. Our platform allows and encourages an agile, iterative approach.

The ability to build workflows easily and without IT (except for support with integrations and SSO) democratizes and scales your ability to get things done quickly. SimpliGov enables IT to put the processes in the hands of the process owners.

Building Your Workflow

There are two components to any SimpliGov workflow. There are the forms themselves – the form fields that end users must populate with information – and there is the logic that drives the form from one person to another. The workflow designer must take both into consideration when he or she designs the end-to-end process.

Designing Your Forms

Designing the forms themselves is incredibly easy in SimpliGov. When your business process owners opt to create a new workflow, they land on the Form Builder page. Here, they can use drag-and-drop tools to pull form fields on to the screen. We offer three different sets of form fields: basic form fields, form field blocks, and eSignature form fields.

Form Fields	
H Heading	≡ Custom Text
<> Custom Html	≡ Text
□ Area	▽ Drop Down
≡ Multi Select	⊙ Radio Button
✓ Check Box	✓ Boolean Check Box
↑ File Upload	↑↑ Multi Upload
📅 Datepicker	📍 Address
🔍 Workflow Records	📄 Table
📊 Spreadsheet	🔗 Salesforce Records
⊙ Submit Button	☑️ Captcha
Blocks	
📄 Signature Field	📄 Signature Block
📄 Approval Block	📄 Address Block
E-Signature Functionality	
✉️ Email Message	📍 Localization
🔑 Password Field	🕒 Expiration
🔔 Reminder	🗨️ Rejection Reason

Basic Form Fields

Basic form fields constitute the bulk of the form fields used in our workflows: most forms are made from a combination of text boxes, area boxes, dropdowns and radio buttons. By clicking one of these form fields from the form field menu as shown above, the form field will populate onto your screen. Our Form Builder is a WYSIWYG interface, meaning that after you drag a text box onto the page, you will see the text box itself.

The screenshot displays the SimpliGov Form Builder interface for a 'Self Service Contract Request' form. The interface is divided into three main sections: a 'Form Fields' menu on the left, a central form preview area, and a 'Field Properties' panel on the right. The 'Form Fields' menu lists various field types such as Heading, Custom Text, Text, Drop Down, Radio Button, Broken Check Box, File Upload, Multi Upload, Dispatcher, Address, Title, Select Manager, Selectable Records, and Captcha. The central preview area shows the form layout with sections for 'Requester Information' and 'Counterparty Information'. The 'Requester Information' section includes a 'Name' field (with a sub-field for 'Your full legal name'), a 'Select Manager' dropdown, and a 'Please enter your full legal name' placeholder. The 'Counterparty Information' section includes a 'Salesforce Account Name' dropdown, a 'Company Name' field, a 'Phone Number' field, and an 'Address' field with a placeholder 'Suggestions will appear as you type'. The 'Field Properties' panel on the right shows settings for the selected field, including 'Field Name', 'Field Instruction', and 'Additional Settings'.

Each form field is entirely customizable. After dragging one onto the page and selecting it, you can edit and configure according to its specific properties. All form fields share certain properties, but some properties are specific to the type of form field that has been selected. For example, the end user can configure any form field to be “required,” to have a certain name, and to be accompanied by a hover tip or placeholder text.

However, some form fields have more specific functionality. A text box, for example, can also be validated to only take in a certain syntax: we can validate text boxes as currencies, phone numbers, social security numbers, alphabetic, numeric, numeric decimals, alphanumeric, custom regex etc...

Custom HTML allows designers to incorporate logos, images, and even video into the form –which is made even more powerful by the ability to include pop-up text. We can include links throughout a webform with specific instructions in them by leveraging the Custom HTML form fields.

Some form fields connect the designer to additional SimpliGov functionality. The Address field, for example, can be used to pull information through the Google places API into a webform. A Salesforce

Records field pulls information from the end customers Salesforce account, meaning that you could create a dropdown that populates with information from your Salesforce account - such as Account Names or Opportunities. The Workflow Records field allows you to pull information from previously submitted workflows – so if you want to search through the organizations that have already submitted an “application”, you can do that by configuring this form field.

Dropdown fields in SimpliGov are particularly powerful too. Designers can configure and customize the “options” within the dropdown. Such options can be set manually, but they can also be automatically populated with a list of registered users or information that has been input into a CSV file and loaded into the SimpliGov Data Sources library.

This is not unlike setting up Salesforce Records and Workflow Records. However, the dropdown field can pull data from an external data source, as well. Not only does SimpliGov have out of the box integrations with Salesforce that allows you to pull information from your site, but SimpliGov also enables you to customize an integration with any external web service, and pull that information into a dropdown field. You can learn more about how we might also use SimpliGov to push information from our webforms back into the external data source in the Integrations section of this white paper.

For all form fields, we’ve added multi-language support. This allows a designer to define different field names and placeholder text for different languages. When the end user chooses a certain language option, all the form fields on the webform, if so configured, will conform to that choice. This feature supports anything in UTF-8, including international characters.

Form Field Blocks

Form Field Blocks allow workflow designers to quickly build forms. A form field “block” consists of a group of form fields that have been pre-configured into a reusable template. An example of a form field block can include the “Approval Form Block” which allows someone to easily drag-and-drop a group of form fields that allow the end user to approve, deny and/or add comments in an approval.

E-Signature Fields

E-Signature Functionality	
Email Message	Localization
Password Field	Expiration
Reminder	Rejection Reason

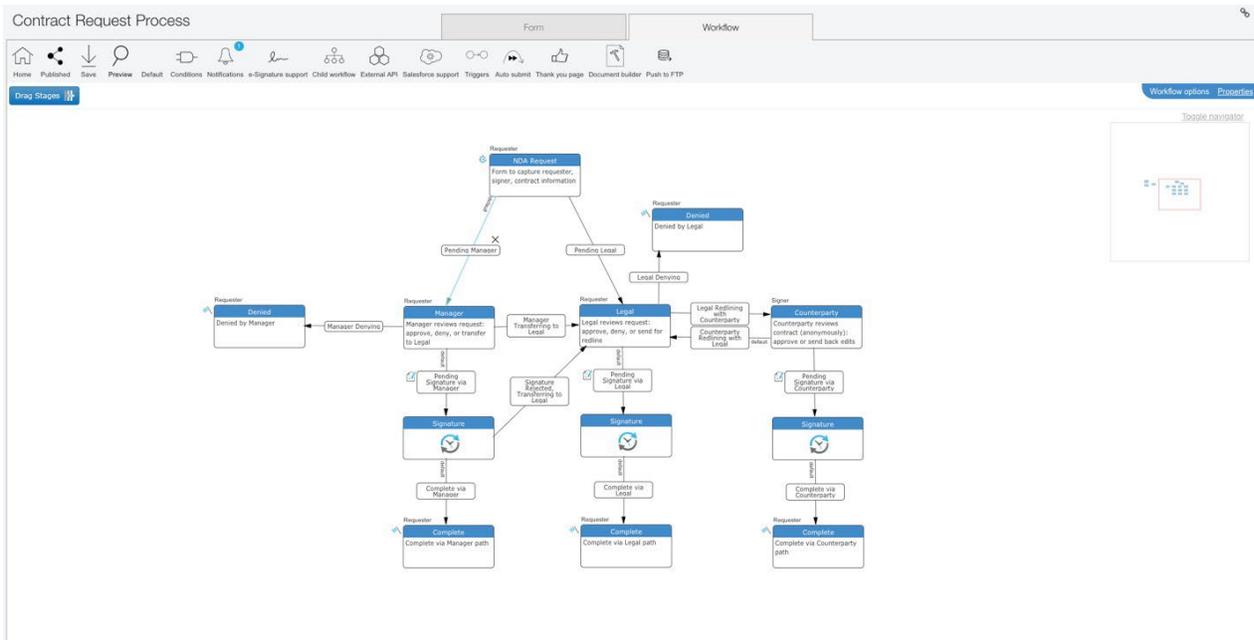
These form fields enable additional SimpliSign functionality. Text input into these fields will in some cases configure the way a document is sent out for signature (how often there is a reminder concerning the eSignature document, for example), and in other cases it is within the eSignature setting itself that text will get pushed into these fields. If someone declines to sign a document in SimpliSign,

for example, but gives his or her reason for rejecting – that information can be mapped back into SimpliGov with the Rejection Reason field.

Designing your forms is incredibly intuitive. All you need to do is drag and drop the appropriate form fields onto your screen, and then edit them to read the correct information. After building your forms, you toggle into our Workflow Builder - this is the second side of the SimpliGov Workflow Designer.

Designing Your Workflow

Webforms and Workflows work together to provide logic driven forms and powerful applications to your end users. We talk a lot about how easy it is to build the workflow with Visio-like diagramming tools. It's true – SimpliGov workflows look a lot like Visios, but with power behind them. We use two different object types, "stages" and "relationships" to mark the trajectory and template of the workflow.

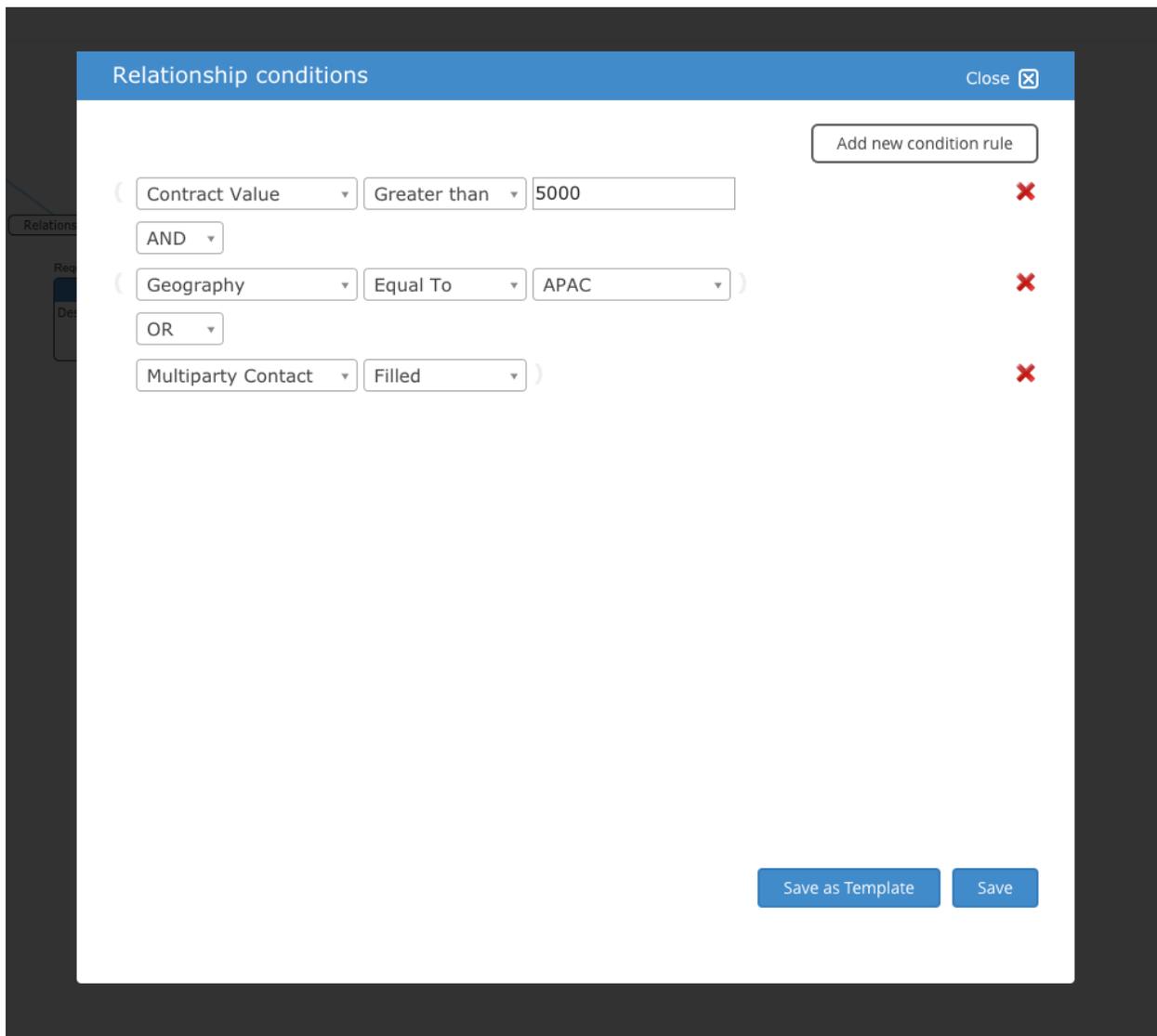


Each workflow is comprised of these two different object types. When people are looking at and completing tasks and webforms, they are operating within a workflow stage. After such a person submits the webform, the relationship triggers and executes logic.

We can imagine a workflow as a Choose Your Own Adventure Story, where the author of the story is the workflow designer, and the person reading the book is initiating a new "workflow instance." As someone reads a page of the story, they are prompted to make some decisions which then will determine which page to go to next. The page in the story with the description of the circumstance and the possible choices would map onto the "stage" of the workflow. When we discuss workflows, it is at the stage level that an end user fills out a webform. Depending on how an end user fills out the form, he or she will push the workflow down a different path, or relationship.

Just like in the Form Builder, you have different properties available to you depending on what object type is selected. When a stage is selected, you can create stage level conditions, automatically populate forms from external sets of data, apply CSS to the webform, pre-define file attachments, turn the stage into an unstructured space where multiple people can collaborate in real-time, and more.

Relationships, as you might expect, deal with what happens after an end user hits “submit.” Within the relationship, it’s simple and straightforward to set the conditions under which you go down one path rather than another. Knowledge of coding or Javascript is not required, you simply select the relationship which you would like to make subject to a conditional rule and then define the rule.

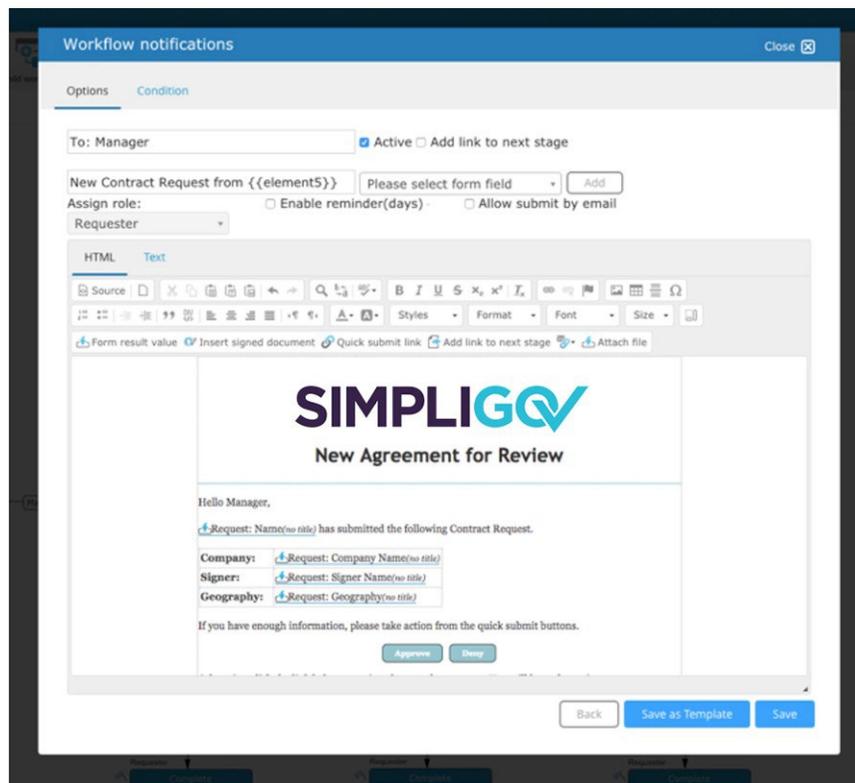


We define the movement of information in the relationship. This movement pushes data from the workflow to some other place, be it another workflow, an email, an FTP, an external data source, or more.

At any point in a workflow, we are able to launch a child workflow. This means that in addition to the request that is already in progress, SimpliGov can automatically initiate another request, and pass information over to it. Maybe there's an employee onboarding workflow, and after the employee gets to a certain point, it automatically starts a workflow by which IT sets that new employee up in all their systems. The idea of a child workflow can be useful for distinct but related processes.

Time-based logic can be implemented at the relationship level. Auto Submits and Auto Skips enable the designer to incorporate time-based escalations into a process. For example, an Auto Skip can push a workflow forward with tacit approval if a stage has not been completed within a certain time span.

After each webform is submitted, an email may be sent to anyone involved in the process. Most often an email is sent to the next participant in the workflow, allowing him or her to access the workflow by simply clicking a link from the email. Workflow designers can use the simple email design interface to build HTML email templates, without any background in HTML. The emails can include quick submit buttons like "Approve" or "Deny." The designers can also build in rules to remind people if they have forgotten to take action. We can automatically remind people if they forget to take action.



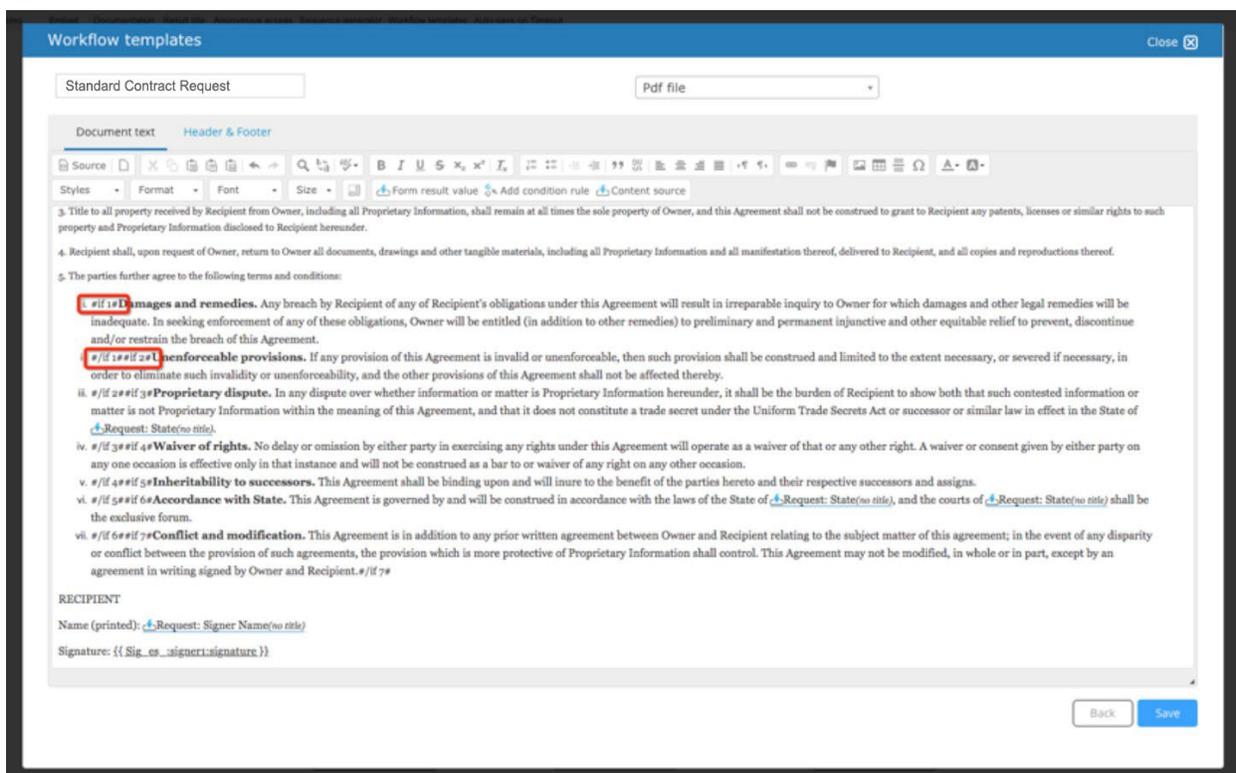
Workflow Modules | Document Builder

SimpliGov leverages the same conditional logic and data that drives workflow in the Document Builder module. This is powerful functionality that clients are utilizing for contract generation and document output.

With our document builder, you can use conditions and answers from the form to dynamically generate a PDF or Word document. Just as a workflow acts as a master template, or Choose Your Own Adventure Story from which readers can initiate new adventures (workflow instances), so too does the Built Document act as a master template from which actual documents are generated.

In the Document Builder, designers display all of the possible content that any end user might see, depending on what he or she had previously submitted into the form. Then, as the end user actually submits answers, the Built Document shows or hides the appropriate clauses and pieces of text. Document Builder dynamically generates documents subject to conditional logic.

The conditions and document can all be written out with our non-coding interface, so there is no need to learn complex JavaScript or a proprietary syntax for the conditions.



Collaboration Stage

The 'Collaboration Stage' is a new SimpliGov workflow concept, allowing unstructured components to be embedded within your structured business process. The collaboration stage allows for a workflow stage to be updated indefinitely, and by a variable set of users until the stage owner decides to push the workflow forward.

The collaboration stage plays with our typical understanding of a stage in a workflow. Instead of one webform assigned to one person, a group of people are asked to look at the same workflow and provide comments or updates to the form fields.

In order to support fluid aspects as part of a larger workflow, the collaboration stage is flexible in how the group of users interacting with it are defined. For example, new users can be invited to interact with the collaboration stage through another user mentioning them through a comment (@user syntax), just as in an application like Facebook. Notifications can be configured such that users are notified of all comments, notified when they are mentioned specifically, or notified when the form fields are updated. If notifications for a particular workflow instance become too cumbersome or distracting, they can unsubscribe or change their notification settings.

There are multiple different role types within the collaboration stage environment: Members, Editors, and Administrators:

- Members can simply view the record data, and add participants in the comment thread.
- Editors can edit the values of the workflow.
- Administrators can do all of the above, as well as manage the collaboration stage's member list, change role types of other users, and officially push the workflow forward and past the collaboration stage.

All working changes made to a collaboration stage (files, comments, form updates) are tracked in a second layer of the audit trail, allowing for full visibility into the details of the process.

Data Sources

Data Sources are a standalone module within SimpliGov, separate from the Workflow Builder by design. Data sources allow a user to manage lists or full tables of data. Data sources can be updated in real-time and integrated with workflows – as a data source changes the workflow will automatically pull the most recent values. Data sources can derive their values and stay updated in a number of different ways, see details below:

- **Simple Data Sources:** Simple data sources are just a one column list of values – think Countries, Currencies, Attorneys, etc. Simple data sources can be updated manually through the Web UI, by API, or through a .csv upload.
- **Conditional Data Sources:** Conditional data sources allow users to tie two different lists of values together. Based on the selection in the parent field, the child list will filter. The most obvious example for a conditional data sources is a Countries – States relationship, where the list of states filters is dependent upon the selected Country. Conditional data sources can be updated manually through the Web UI, by API, or through a .csv upload.

- **Grid Data Sources:** Grid data sources are similar to a VLOOKUP in Excel - based on the key value selected by the user in the data source, the data source pulls all related columns of data for that row. For example, if you wish to map different attributes to countries, you can upload a data source with Country names in column A, Language in column B, Currency in column C, Lead Analyst in column D, and Risk in column E. Grid data sources are extremely useful in workflows - all related data to the key value can be pre-populated into form fields or used to drive workflow logic. Grid data sources can be updated manually through the Web UI, by API, or through a .csv upload.
- **External Data Sources:** Simple Data Sources and Grid Data sources can be dynamically pulled from an external web service / API endpoint. Each time a user accesses the data source from a workflow, the values will be pulled in real-time from the web service and presented to the user. It is easy for admins to configure these API calls and make changes quickly if the API changes.

Deploying a Workflow

When a workflow designer finishes designing his or her workflow, the workflow is easy to deploy. SimpliGov requires no deployment by IT as it is a SaaS application. SimpliGov provides Production, Training, Pre-production and Staging environments to each of its clients. The designer will build and edit his or her workflow in the Pre-production environment. Workflows and appendages can be exported from Pre- production and imported to Production.

It is very easy to test workflows as a user builds them. There is a “Preview” button in the Workflow Designer. This allows a user to launch the workflow and start to complete the form in a live setting. From there, a user can follow the workflow path to test the different relationships, test the form conditions to make sure that everything was set up correctly, and generally test the workflow. It’s also easy to share it with other people in an organization so others can preview and test the workflow as well.

Pre-production and Production have different databases to ensure that there is no contamination of Production data with test/dummy data from Pre-production. Production is used for day to day operations by our client base with live production data. The code-base for this environment is stable and only changes with previously communicated release notes. Pre-Production contains the same code-base as Production but only holds dummy/test data. This enables our workflow designers to build, edit, and test their workflows on a stable production style environment without confusing live workflows with ones being tested.

Staging is a UAT (User Acceptance Testing) environment for new features to be rolled out in upcoming releases. Staging runs a different codebase to that of Production and Pre-production and is upgraded more-frequently than Production or Pre-production. This environment only holds test/dummy data and should be considered as a beta feature testing environment for our clients.

When a workflow is deployed, end users can run and respond to workflows easily and with no training. Workflows can be initiated from the Workflow Dashboard, but they can also be embedded in an

external site. No one who is using a SimpliGov webform needs to know that he or she is using such a form – or that the form he or she fills out is tied to a complex workflow. Instead, a SimpliGov user can fill out a form from a public site, and the person who responds to that form might simply get an email about it, from which he or she can simply click “approve” or “deny”.

Should an end user be faced with a SimpliGov webform, he or she will need no training whatsoever to fill it out. Each form field can be customized to include hover tips and placeholder text, and with Custom HTML field pop-ups are possible too. In a “Turbo-Tax-like” experience, end users will conditionally see only form fields that are relevant to them. When they submit a particular answer to one question, the form will adjust to that response and ask the next appropriate question. The user on the front end will never see questions that are irrelevant to his or her purpose. On the back-end, this is a function of stage level conditions.

For the process owners and managers whose jobs are made easier by the trackability of each business process and workflow stage, the Workflow Dashboard can be used to store data and take quick actions on workflows that are in progress.

Accessing a Workflow (Front-end user experience)

Web Forms

Workflows can be accessed and executed upon in a number of different ways – through a web UI, by API, or through an embedded UI in another application. The main goal of the front end user experience is to abstract the complexity away from the end user, and provide a streamlined, no-training-needed experience for the user. Our goal is for your entire business to be able to interact with SimpliGov workflows in some way, and with this in mind the UI must be self-explanatory.

SimpliGov web forms can be permissioned in such a way that they are available to only certain groups of registered users, or public accessible to anyone with the link. Whether a registered or anonymous user accesses the form, the experience is seamless and simple. Forms can include HTML instructions, conditional fields, hover tips, file upload controls, numerous field types, and more to make the form easy to fill out, and to ensure data captured is validated and in the correct format. See an example below:



Self Service Contract Request

[How do I use this form?](#)

Requester Information

Name *

Please enter your full legal name

Dillon Knowlton

Select Manager *

Your manager

[Clear](#)

Counterparty Information

Salesforce Account Name

Enter name of salesforce record

Company Name

Company Name

Phone Number

() - -

Address *

530 jacks

- 530 Jackson Street San Francisco, CA, USA
- 530 Jackson Street Oakland, CA, USA
- 530 Jackson Street Albany, CA, USA
- 530 Jackson Street San Jose, CA, USA
- 530 Jackson Avenue, Redwood City, CA, USA

State

Signer Name *

Signer Name

Signer Email Address *

Signer Email Address

Contract Information

Geography *

-- Select one --

Mobile

SimpliGov forms are automatically responsive, which means they can be viewed on any screen and will automatically resize to fit the view. This means that forms can be easily filled in on-the-go. This is true while visiting the form in the browser, so there's no need to download an app, or change your experience. A user can simply click a link on the phone, tablet, or desktop to visit the form.

Workflow Dashboard and Analytics

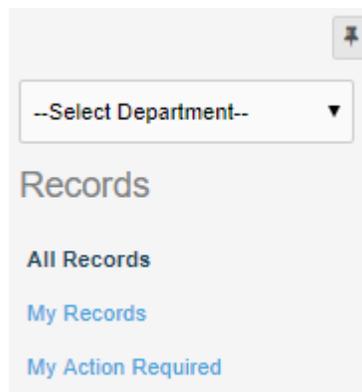
Workflow Dashboard

SimpliGov has a queue area (the SimpliGov Dashboard) in which all requests are listed in an interactive grid. From there, senders may track the progress of their transactions, filter or search through the workflows, view the audit trail, or cancel a request. The SimpliGov Dashboard reports on both metadata and form-specific data. Data included in the dashboard may then be exported for offline use.

The actions an end user can take from the Dashboard and the workflows the end user can see in the Dashboard are subject to workflow and administration permissions, to the status of the workflow, and to the particular filter or view that is applied to the interactive grid.

Each request has an “Actions” menu, and there are multiple actions that a user can take:

- One of those is to view the audit trail. The audit trail is a complete list of every action that was taken in the workflow. Each time any piece of data changes, SimpliGov automatically logs who changed it and when. This way, it’s always easy to look back and figure out what happened during a process.
- A user can also reassign a request to someone else in the system, or cancel/remove a request.
- Finally, a user can take action on a request from the dashboard by clicking “Edit Request” from the menu. This means that requests don’t have to be email based. A user can always see what is waiting for them, and then they can take action from the dashboard.



There are three “out of the box” filters that toggle the Dashboard view between All Records, My Records, and My Action Required. These filters are located in the collapsible side menu of the Dashboard:

- All Records allows you to see any workflow that you have permission to access. This means you can check up on workflows that are not currently assigned to you, and that you yourself did not initiate.
- My Records lets you filter the Dashboard contents to show only those workflows that you initiated. These workflows may or may not currently be in flight. This filter is helpful for viewing

workflows that you initiated – you might want to check up on their progress and see who they are assigned to or check out the Audit Trail.

- My Action Required is your “to-do” list. This filter shows you all the workflows that are in flight and currently waiting for your action.

You can further customize the view of the Dashboard by adding additional columns and filtering through them. In SimpliGov, there are two different types of columns that we can add to the Dashboard: main fields and dynamic fields.

- Main Fields represent pieces of information that are meta to a workflow. They include fields like Workflow Name, Status, Description, and Current Assignee. Main fields represent information about the workflow – pieces of information that are generically relevant to any workflow. Every workflow, whether it’s a Self-Service NDA or an Onboarding workflow, will have a name, a description, and status. The pieces of information you are interested in will determine main fields that you add.
- Dynamic Fields represent pieces of information that are found *within* a workflow. For example, if one form field in a particular workflow asks that someone fills in a certain geographic region, SGAP can pull this geographic region into it’s own column, titled, Geographic Region.

Select columns Close

Define main fields

Column Name

Workflow Name X

Status X

Workflow Description X

Current Assignee X

Created X

Completed X

Document ID Add

Define dynamic fields

Filter columns by workflow --Select One--

Column Name

Client Name X

ACD Add

Set as default selection

Close Save

After defining the columns that populate your Dashboard, you can filter from within the columns as well. It’s easy to select the filtering icon next to each column and define the logic by which you wish to filter the view.

Actions	Workflow Name	Status	Workflow Description	Current Assignee	Created
...	Request # 00245821	Pending Commander Revi.		Cameron Pierce	07/28/2017
...	Request # 00245811	Complete via Manager			07/28/2017
...	Request # 00245810	Relationship 1		Nikita Sukhinin	07/28/2017

Show items with value that:

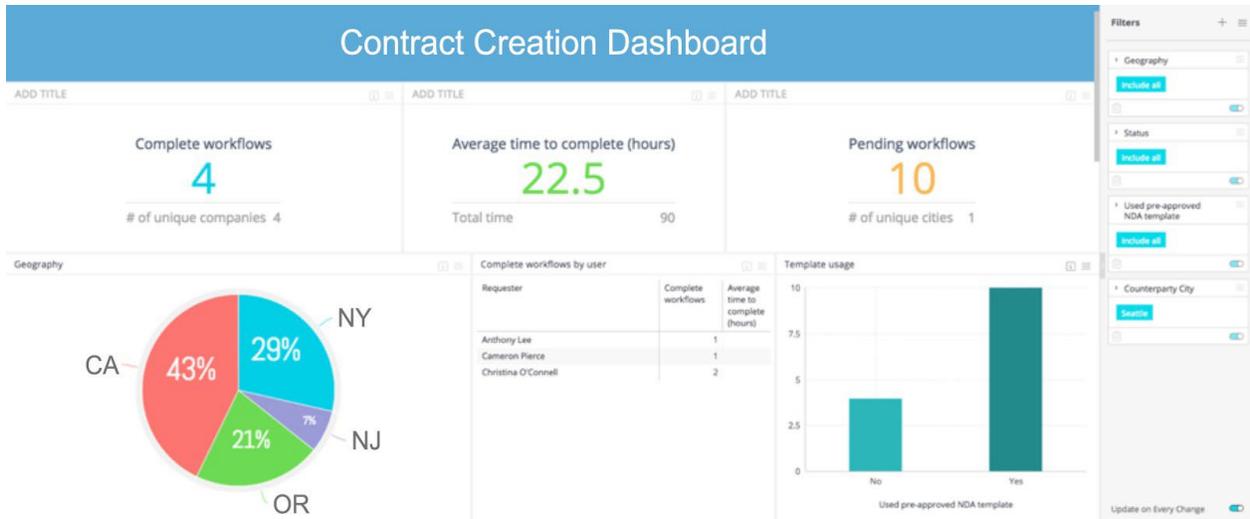
Is equal to

Filter Clear

After creating a view of the Dashboard that is relevant to you, it's easy to save the Dashboard view as a Filter you can return to in the future. You can also export your view to excel, or simply refresh the page to return to the basic configurations that have been pre-defined.

Analytics

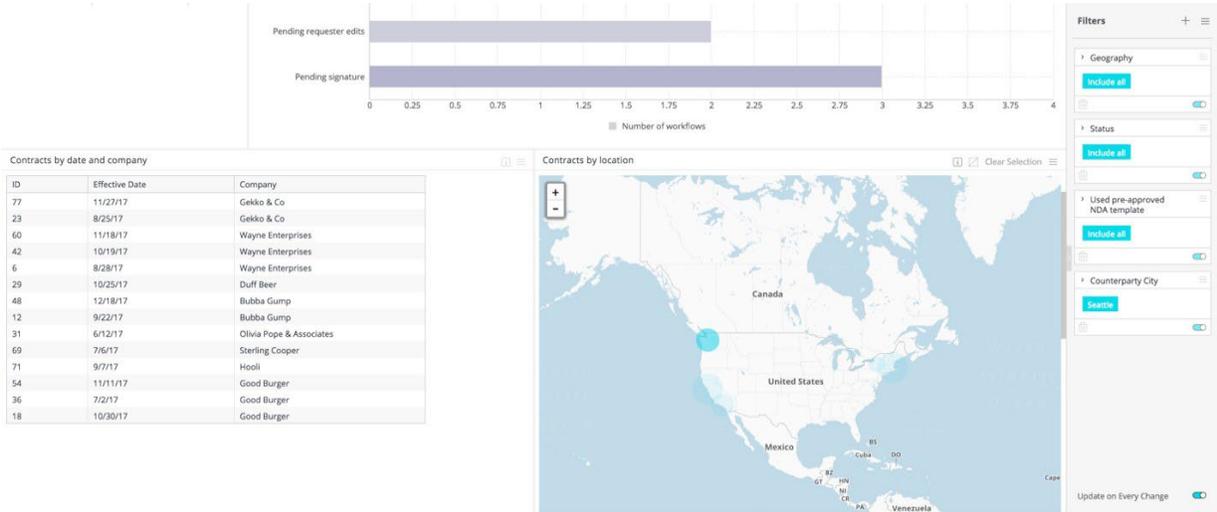
The ability to gain insights into an organization's data is a game-changer for those automating and centralizing their business processes into a workflow automation system. Using SimpliGov's Analytics Dashboards, you can splice your data in any way you wish in order to gain insight into your business. For example, you can build a chart showing the average amount of time various different approval steps take as a percentage of the average workflow completion time, and then refine your workflow to improve time to completion.



With our Analytics dashboards, users can see data from requests in addition to metadata about the requests. The number of requests that are pending or complete is an example of the metadata we can track, as would be the time that it takes from request initiation to completion. We can also report on information that users have entered into the form. We can display that information in tables or in charts. We can additionally integrate with other sources to include data from other systems in the analytics dashboards.

- **Use a wide variety of chart types:** Users have a wide variety of chart types to choose from when building dashboards – anything from pie charts to bar graphs to tables to indicators to maps to pivot tables!
- **Use any data from the workflow:** Any data from the workflow can be used to build charts – custom fields, system timestamps, user data, uploaded files, and more.
- **Cross chart filtering:** All the charts are interactive – meaning click on a segment or a data point and the rest of the dashboard will filter accordingly. For example, if you click on the 'United States' segment of the Geography pie chart above, the other charts on the dashboard will filter to show only data from the United States.
- **Drill down:** Drill down logic can be configured. As a user clicks on a segment or data point of a chart, they can get to the actual record level detail and view data in a table for example.
- **Create multiple dashboards:** Clients can create as many dashboards as needed, for example a high level overview for management, a specific in-flight contracts dashboard, and an onboarding

progress tracker. Dashboards can be segmented out by user group-based permissions, and only presented to users who have access to that data.



Out of Box Integrations

Numerous integrations with third party systems are pre-built within SimpliGov, meaning the user configuration the integration need only interact through a simplified UI and not manually determine request body format or response parsing. These pre-built integrations include robust Salesforce integrations, extensive eSignature integrations (Adobe Sign, DocuSign), OneDrive integrations used for previewing documents and editing via one-time links, and UiPath.

Salesforce

SimpliGov has a fully out-of-the box integration with Salesforce (SFDC), allowing workflow designers to create connection points in seconds. Whether the goal is to push data into SFDC objects, or pull data from SFDC, there's a configuration UI in SimpliGov to get the job done.

Map values dynamically from SGAP form results

Optionally hard-code values

The screenshot displays the 'Salesforce support' configuration window. At the top, there are tabs for 'Attributes', 'Options', and 'Trigger Condition'. The 'Object Type' is set to 'Account'. Below this, there are three dropdown menus: 'Add new object', 'App to Prod', and 'Account'. The main section is titled 'Account Information' and contains several fields:

- Account Name: Mapped to 'Company Name' (indicated by a red arrow from the text 'Map values dynamically from SGAP form results').
- Type: Set to 'Custom value'.
- Integrator: Set to 'Integrator'.
- Parent Account: 'Please select form field'.
- Website: 'Please select form field'.
- Phone: Mapped to 'Phone Number'.
- Description: Mapped to 'Reason for not signing'.
- Industry: Mapped to 'Biotechnology' (indicated by a red arrow from the text 'Optionally hard-code values').
- Account Source: 'Please select form field'.
- Employees: 'Please select form field'.
- Billing Street: Mapped to 'Number and Street'.
- Billing City: Mapped to 'City'.
- Billing State/Province: 'Please select form field'.
- Billing Zip/Postal Code: 'Please select form field'.
- Billina Countrv: 'Please select form field'.

At the bottom right, there are three buttons: 'Back', 'Save as Template', and 'Save'.

It's easy to send information to Salesforce or pull information from Salesforce to make changes to an opportunity, and account, or whatever you need. When we send information to Salesforce, we have the opportunity to create objects or modify them. End users use the UI to map SimpliGov data to SFDC object fields. We can map SimpliGov form fields, SimpliGov attachments, signed eSignature documents, and user data into SFDC object fields.

Not all Salesforce objects are created equally – an Admin in Salesforce can determine what an account object in Salesforce looks like. Regardless of the way the object has been configured by the Admin, that object is available in its entirety in SimpliGov. When Admins make changes in Salesforce to object types, those changes are made in real time in SimpliGov.

We can also pull information from existing objects in Salesforce, and then prepopulate other form fields with relevant information that has been stored in Salesforce. First, the designer in SimpliGov decides which type of object is being pulled, and then the designer configures which attribute the object is being searched against. For example, one might wish to pull up a list of different accounts (objects) and search through based off of its name (attribute).

eSignature

SimpliSign is our own esignature solution that is included with SimpliGov. There is no additional cost for obtaining esignatures. For organizations that have standardized on Adobe Sign or DocuSign, SimpliGov has an out-of-the-box integration for either product. This is set up in the initial provisioning of the tenant. SimpliGov's out of out-of-the-box eSignature integrations make workflows even more powerful – workflows can push contracts out to be signed, and then signatures can take place within the same space.

There are three different sources from which you might send a document for signature. In the eSignature Support dialog, you can select Upload File, Add dynamic template or Add built document. These three different types of documents are outlined below.

1. Upload File
 - a. When you select Upload file, you are prompted to upload a file from your computer. If you upload a file from your computer, this document will become your eSignature document. If you wish to learn more about tagging documents such that they populate with information submitted into the webform, please see the article, "Text Tagging and Pre-Merge."
2. Add dynamic template
 - a. Add dynamic template makes it possible for the end user to receive a different e-Signature document, depending on what has occurred previously in the workflow.
 - b. File upload form fields can become dynamic templates. For example, if Legal Counsel drafts a document that they upload into a workflow, SimpliGov can send out that document for signature with the dynamic template option.
 - c. Data Sources can also be leveraged in dynamic templates. For example, a user might select from a data source dropdown that he or she is from a particular region. There might be a different document associated with each region. By mapping each dropdown value to a document, the workflow is leveraging a dynamic template.
3. Add built document
 - a. Built documents are created in Workflow Templates as part of the Document Builder functionality.

Documents sent out for signature can leverage SimpliSign's, Adobe Sign's or DocuSign's "Signer" functionality. When setting documents up to be sent for signature, workflow designers can determine any number of signers, approvers, and people to be cc'd on the document. These people can sign in parallel or in an order that the workflow designer sets; SimpliGov also allows groups of users to be

assigned to sign, and considers the document signed by that role as soon as one person from the group signs the document. SimpliGov even allows the workflow designer to set up personal, private messages to each of the signers.

Office 365/SharePoint

SimpliGov has built an integration with SharePoint that allows for an easy to set up, out-of-the-box integration. This functionality lets people use SharePoint to initiate a workflow, use lists as the options for a dropdown, and then those selections can be used to route the request.

We can also send files to specific file locations within SharePoint, which is helpful for anyone who wants to send files from a request in SimpliGov into SharePoint automatically.

Custom Integrations

There are a wide range of low impact strategies to integrate SimpliGov with your existing systems. The goal is to augment your current IT stack – not to rip and replace all legacy systems.

Make Calls to 3rd Party APIs

External API trigger Close

[Main Info](#) [Response](#) [Aliases](#) [Validation](#) [Authorization](#)

API url
 

Method

Prevent workflow submission if response is invalid

Headers

Include request and the response in the Thank You page

Most of our customers have variable and various other third party applications and services with which they want to push and pull data. Many of these other applications have APIs that are open and can be used to accomplish this. In this way, really *anything* can connect with SimpliGov.

An Application Programming Interface (API) is basically a just a way that organizations say “Hey! If you want to get to information that we have with a program that you’re writing, you can get to it through here.” It is a way that two applications can talk directly to each other. Each time one system talks to another, it is called a request. Even sending data to another system is still a request. There are lots of services out there for creating and testing API calls. When we build workflows in SimpliGov that include API calls, we usually use cURL, Postman, and RequestB.in to help set it up.

There are a number of different locations within the Webform and Workflow Builders in which designers can set up API calls to other web services. Users can configure the API to make a variety of types of requests, including GET, POST, and PUT requests. The request headers can also be edited to account for variable content-types, or other headers that the user may want to include. Answers from the form or document content can be included in the request body, as well as the headers, so they can be variable and be dependent upon the answers in the form.

The SimpliGov API configuration allows for authentication, including Basic Authorization and OAuth 2. It also includes the ability to preserve the authentication. This allows for two scenarios:

- Users can be presented with an OAuth window while they are filling out the form, which would make sense if they should be using their own account for the integration to work.
- The OAuth window can also be filled out during configuration, and the system can continue to refresh the token to allow an invisible integration with that third party endpoint. This method would be more appropriate for use with system accounts, essentially one account that should be used all the time.

SimpliGov can validate the responses of the API to make sure that the request is correct. If the request is incorrect according to the rules that have been set up, the system can prevent the user from submitting the form, or it can yield an error on a specific field. The rules that are set up can reference a certain piece of the response, like if the response contains an error field, or the HTTP status code, like 404.

There are two main ways to use the API, and two main reasons for doing so:

- SimpliGov allows for API calls to be made at the stage level, which means that the API calls can go out and get information based on a form answer as someone is editing it. This can be useful to fill information into the form while a user is editing the form.
- The API calls can also be made at the relationship level, which is useful for POSTing data to a database after the form has been filled out, or integrating with a payment processor. The responses from the system can be mapped into the form at this point as well. With either of these methods, both at the stage or relationship level, the responses can be used to drive workflow logic.

External Data Sources

External data sources are very similar to the External API module in terms of configuration concepts, but are built for a different use case. *External Data Source* and *External Grid Data Source* allow users to

dynamically load an array of values from a third party web service, whether it's a simple list or a lookup table.

API settings

URL: *

Specify placeholders {{filter}} and {{limit}} in URL

e.g. `https://hostname.com/api/?filter={{filter}}&limit={{limit}}`

Path to results in response:

e.g. results

Apply Settings

Add Header

Header: Header Name

Value: Header Value



Header: Header Name

Value: Header Value



SimpliGov API

SimpliGov offers a REST API which can be used for integrations. Workflows can be initialized and even continued programmatically.

SimpliGov's API enables end users to leverage SimpliGov's functionality even outside of SimpliGov. Using the SimpliGov API, users can programmatically access information about users and workflows that have been run. Users can also initiate requests via API, or they can set up other systems to do so. Requests that have been created, programmatically or otherwise, can be continued via API. Some clients use SimpliGov as a rules engine, and users never see the GUI. Others use the API to initiate thousands of requests at once, so that everyone receives a notification at once.

At a higher level, the ability to make API calls from a workflow, or have another system call SimpliGov's API, means that SimpliGov can drive actions in other systems, and other systems can initiate or be a part of workflows. We can start a process in SimpliGov, and then send information to another system to finish it. Or instead of finishing it, the other system can take some action or store information and send an API call to SimpliGov to continue. This opens up a lot of possibility around working with systems that are already in place instead of replacing them.

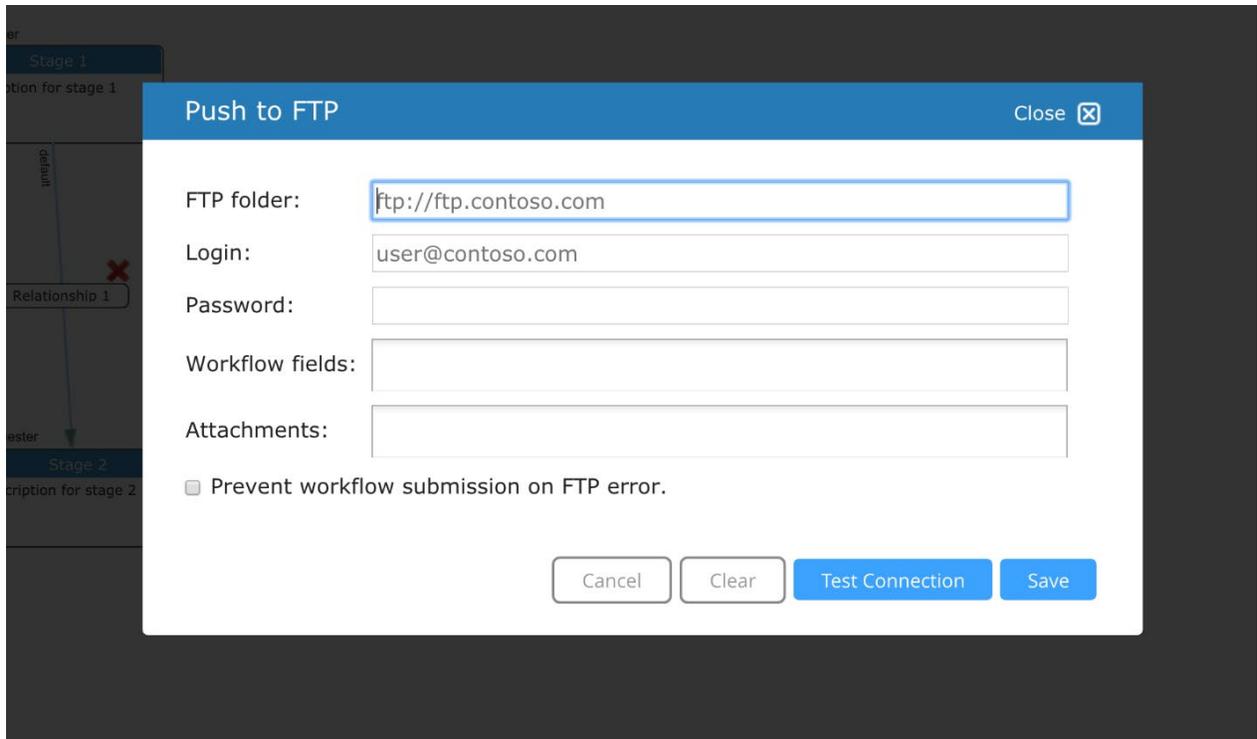
For a human-written guide to our REST API documentation, please visit this link:

<https://simpligov.docs.apiary.io/#>.

FTP

SimpliGov also has the ability to push information via (S)FTP to a folder of a client's choice, making it easy to develop a custom integration if an API endpoint is not available. A user could set up a watched folder to take the information that is passed there and put it into a database or other location of their

choice. The data is passed over in .csv form, and files associated with the workflow are passed with a standard naming convention so that the files can be mapped to the appropriate request.



Powershell Scripts

In scenarios in which the customer cannot directly use the SimpliGov API, or in which there are transformations necessary to make to the data, SFTP and Powershell scripts can be used to accomplish the integration. For example, this method is commonly used to sync users between a customer's Active Directory and SimpliGov's user database. On a pre-defined frequency, for instance nightly, the customer will drop a new user .csv file into an SFTP folder. Upon receiving the file, a cron job will trigger a Powershell script to process the file and provision users accordingly through the SimpliGov API. This integration method has also been used to update data sources, and in other select scenarios.

User Management

SimpliGov has its own user database which holds user login information, permissions and groups, and custom fields. There are a number of different methods in which user information can be added or updated, automatically or manually, to the SimpliGov user database.

Manual User Management

Users can be added or updated manually through the SimpliGov web UI by administrators with the requisite permissions. For smaller implementations this can be a suitable way for administrators to

manage the user database; for larger implementations manual user management is likely only used to tweak small issues or update individual users.

In the *Users Administration* section in SimpliGov, administrators can create new users, search or filter through existing user records, or edit existing user records (roles, permissions, custom fields). Additionally, Export/Import functionality from/to csv is available through the web UI, allowing administrators to perform heavier manipulations in Excel and bulk-update many users at one time.

USER DETAILS

First Name: Dillon *

Last Name: Knowlton *

Login: dknowlton@thinksmart.com *

Telephone:

Password: *

Confirm Password: *

Sisense Username:

Sisense password:

Locked

Assigned roles: Super Admin *

Assigned departments: AOB, Global, Government, Human Resources, Insurance, Project Management *

Assigned teams: Select teams(s)

Single Sign-On

SimpliGov supports Single Sign-On through the SAML 2.0 protocol. As described above, SSO can be used for authentication, to add users, or to update fields (including custom fields). Set-up is generally a very painless and quick process, see below for further set-up details:

General Info

- SimpliGov supports Single Sign On using SAML 2.0 protocol, with a preference for the "Service Provider Initiated" variety.
- SimpliGov has two main environments for clients – Staging and Production.
 - SSO is normally set up on both environments for clients.
 - The usual protocol will be to first set up SSO on Staging for testing, before setting up on Production.

Required Files for Setup

- To begin SSO setup, two files need to be exchanged between the client and SimpliGov:

- **From SimpliGov:** an sp.xml file containing certificates, entity ID, and protocol
- **From the Client:** an IdP.xml file containing metadata from the client identity provider - certificate, identity provider information, etc.

SSO Setup Requirements (Client Side)

- The following requirements must be adhered to when setting up SSO on the client side:
 - The SAML assertion **must** contain the user's unique login ID (generally this will be an email address) in a parameter called 'email'
 - Other parameters may also be included
 - RelayState should ideally be configured on client side
- Once setup has occurred on the client side, we will configure our environment using your IdP file, and testing may begin on Staging. Once the SSO setup on Staging has been passed, we can configure the SSO setup on Production.

SAML 2.0

The most common method of user authentication in larger, Enterprise implementations is through Single Sign-On (SSO), using the SAML 2.0 protocol. SGAP supports both identity provider (IdP) and serviceprovider (SP) initiated SSO.

The SAML assertion sent to SimpliGov must, at a minimum, include the following parameters: 'firstName', 'lastName', and 'email'. The 'email' value is generally an email address, but can also be an alphanumeric id string - in this case the email address must separately be provided in an attribute called 'DomainAddress'. Any custom field can be included within the SAML assertion as well, e.g. include a field called 'OfficeLocation' that maps to a custom SimpliGov field which holds Office Location data.

SimpliGov's SSO support has inherent add or update behavior – meaning users are created as new automatically if a new login is supplied in the assertion, if the login matches an existing user, any user fields will be updated with the newly supplied data.

SSO set-up is a quick and painless process for the customer – all that needs to occur is an exchange of metadata XML files between SimpliGov and the customer, and after basic configurations it should be good to go.

SFTP

There are many workflow use cases in which user information should be in SimpliGov before said user logs in for the first time through SSO. For example, in a contract request intake form, you may have a lookup field into the user database that allows a user to select an approver or signer, but you want to search through all users – not just users that have logged in at least once. For this reason, among others, SSO is generally paired with a user integration that more or less syncs the customer's AD to SimpliGov's user database.

The most common user integration method is accomplished by dumping CSV files to an intermediary SFTP folder. The .csv files would contain any users that have been added or updated since the last run. SimpliGov will automatically pull any .csv from the SFTP folder, and add or update the users in

SimpliGov. This method is low impact on the customer's IT department, and easy for SimpliGov to consume.

By using SFTP or SimpliGov's API (described below) in addition to SSO, user information is always up to date in SimpliGov and supports use cases that require user lookups, filtering, or assignment.

API-managed Users

SimpliGov's API can also be used to provision users. This method is generally higher impact on the customer's IT department, but can be more real-time than the SFTP method.

There is an API endpoint available to add or modify users, as well as an endpoint to remove users. User data is transmitted in csv format in the body of the HTTP request. See below API documentation links for details:

Add or Modify: <https://simpligov.docs.apiary.io/#reference/0/users-api-root/add-or-modify-users>

Remove: <https://simpligov.docs.apiary.io/#reference/0/users-api-root/remove-users>

Roles and Permissions

SimpliGov is a Workflow Automation Platform for building and delivering content across workflows; access to SimpliGov therefore, needs to be built along two different axes: access at the Platform level, and access within the level of a particular workflow. Many Users will have access at both levels; they will be able to assign and track work from the Dashboard, edit workflows on the fly from the back-end Designer tool, and also complete their own tasks within individual processes. Setting up Users is incredibly easy -- Users are generally provisioned through an AD integration or directly through SAML (SSO integration). Users are assigned roles and departments, which are different groupings that determine what a user can see in the application, and what they can do with the data they see. Our incredibly robust provisioning of User Roles and Departments allows us to give individuals very granular permissions regarding what they can see and/or do.

Roles and Departments are entirely customizable, and we assign Roles and Departments to our Users to determine their granular permissions. We set some of these Permissions at the Platform level, giving, for example, a particular Role the ability to see and use Data Sources functionality. We set other Permissions at the Workflow level, ensuring that the appropriate people can initiate or access a given workflow.

We can ensure that everyone has the appropriate access to information -- even if they are not registered SimpliGov users! We must point out here that not everyone one who "uses" SimpliGov must be a registered User. This distinction should further highlight the difference between Platform permissions and Workflow Permissions. Platform permissions will be given only to those who are using SimpliGov's platform to build and deploy workflows. However, our workflows can pull individuals into a workflow who are otherwise outside of the given SimpliGov system. These Users will likely not even

know that they are part of a workflow: their task within a workflow will appear to them as an email, and the administrators within SimpliGov will be able to see the bigger picture of the “workflow.”

Trust and Security

SimpliGov is committed to providing customers with the highest levels of security. SimpliGov follows strict security protocols and has passed extremely rigorous certifications. SimpliGov is a multi-tenant SaaS application and so there is shared tenancy among all clients/tenants i.e. shared databases, web servers etc; despite this, SimpliGov infrastructure practices physical and logical separation practices as much as possible.

User Authentication

There are various methods by which users can authenticate into the system. There is a default login screen where users can log in using SimpliGov specific credentials. This is always available as an option. If a client would like us to, we can integrate with any Single Sign-On provider using SAML 2.0. This allows users that have been credentialed by the client to use those credentials on our site as well, meaning that they don't have to remember yet another password.

This also makes it easier for a client to manage access to the SimpliGov system in the event someone's role changes or they leave the organization. If the user's profile is disabled from the central location, they will not be able to log into SimpliGov. Additionally, the SSO provider can pass attributes like department and manager to SimpliGov in addition to simply authenticating user, and this can be helpful for workflow logic as well. For all of these reasons, SSO integrations can be very useful.

Protocols

We use the Microsoft Azure Government Cloud to provide physical data center security. These data centers have fire suppression systems, uninterruptible power supplies, surveillance systems and access control to ensure protection. All physical data is subject to rigorous security measures: all media is securely destroyed according to NIST and DoD standards, with a CCTV monitored and certified vendor. A secure document removal and destruction policy destroys all sensitive information once it is no longer required.

SimpliGov employees undergo extensive security training, and we enforce and audit a clean desk policy, acceptable use, and VPN usage. SimpliGov employees are not allowed to access private data. All employee actions are logged and audited. They also undergo annual OWASP training. Role-based access control is also employed to minimize vulnerabilities. SimpliGov ensures that end users who fill out webforms are verified by email –256bit SSL protects a viewing session, and SSO support is also available.

SimpliGov's network, servers, and applications are also subject to security measures. Commercial grade firewalls and border routers, combined with automated vulnerability testing, secure the system from outside intrusion, and it is built for protection against DoS (Including DDoS) attacks, as well as MITM attacks, IP spoofing, port scanning, and packet sniffing. This monitored 24/7 by a worldwide team. All

administrative traffic is encrypted, using HTTPS, SFTP, and SSH rather than their insecure counterparts (HTTP, FTP, telnet).

The network is also hosted in a virtual private cloud to further restrict unauthorized access. Servers are included in automated vulnerability testing, and have patches applied to counter the latest threats. They also have enterprise-grade malware protection. Applications have been tested with automated code vulnerability scanners. Third parties have conducted formal code reviews and vulnerability mitigation on the applications.

SimpliGov is currently hosted in the Microsoft Azure Government Cloud. This allows scalability, redundancy, and availability while minimizing cost. SimpliGov is an ASP.NET application with a MSSQL Server backend.

Azure Government

Only US federal, state, local, and tribal governments and their partners have access to Azure Government. Azure Government offers strict validation program to determine eligibility before organizations can move their workloads; Complete data, applications, and hardware residency in the continental United States; Geo-replication between datacenters 500 miles apart supporting business continuity; Specially constructed datacenters with 24x7 monitoring; and physical separation within the continental US, operated by screened US citizens.

All government-only datacenters are DoD Impact Level 5 Provisional Authorization (PA), including two dedicated regions for US Department of Defense workloads. Azure Government offers the most certifications of any cloud provider to simplify critical government compliance requirements: FedRAMP High Compliance, CJIS, DFARS, DoD, FIPS 140-2, IRS 1075, ITAR, NIST 800-171, Section 508, and HIPAA.

Certifications

SimpliGov currently is SOC 2 Type II SSAE 16 and PCI-DSS 3.2 Service Provider Level 1 certified, ISACA PII, HIPAA-HITECH, ISO 27001 compliant.

SOC 2 covers validation of operational controls over 5 trust principals: Security, Availability, Processing Integrity, Confidentiality, and Privacy. DiSanto & Priest, an AICPA approved firm has audited SimpliGov and certified that we are compliant. SOC 2 is the appropriate certification for our business type and size. Compass IT Compliance, a qualified PCI-QSA, audited and certificated SimpliGov with PCI-DSS, for the safe handling and operational procedures regarding credit card information. PCI-DSS 3.2 is the appropriate certification for our business type and size.