

Welcome

In today's hectic world people expect their communications to be personal and professional. One channel isn't enough; organizations must meet people where they are. Sometimes that means pushing a message through email or text, other times it needs to be pulled from the web or social media. Rock gives you the tools you need to personalize your message through all these mediums and more. Let's jump in and see how Rock can be that communications assistant you've always dreamed of.

Sending a Communication

Communications are ways of pushing out messages to your attendees. Today this can be in the form of emails or SMS text messages, but in the future communications could offer many more options.

Rock has two tools for sending communications: our Communication Wizard, which will make you feel like an email rock star, and the Simple Email Editor, which is best suited for sending simple emails, such as from a group toolbox. If you're anxious to get started sending messages with the wizard, jump to the Communication Wizard section. If you'd like to learn about how communications work in Rock, read on.

But Wait, I Just Want To Send a Letter!

"These are great and all, but I need a good old-fashioned low-tech letter. Although I would like to use a fancy merge document and maybe a little Lava..." If this is you, you need to head over to the [Rock Admin Hero Guide](#) for more info on Lava and merge docs.

Under the Hood of Communications

Rock's Communication Engine

Like a car engine, Rock's communication tool has a number of different parts or components. Most of them can be found in the *Communications* screen ([Admin Tools > Communications](#)). We'll be talking about many of them in depth throughout this guide, but you can read an overview of all of the parts in the Communications chapter of the [Admin Hero Guide](#) .

Mediums and Transports

Like everything in Rock, communications is designed to be extensible for the future. That means the messages of tomorrow won't be limited by the messages of today. The communications engine is based on two types of components: mediums and transports. Let's look at how that works.

Think of mediums as different communication channels. Today Rock provides an email medium and a SMS medium. Other mediums could easily be provided in the future for things like mobile application push notifications. These mediums can be written by either the core developers of Rock or by third-party developers. If you don't like it, change it! Mediums can be configured under:

[Admin Tools > Communications > Communication Mediums](#) .

Transports, on the other hand, can be thought of as the worker bees of the mediums. They do the actual work of getting the messages to their recipients. Today the *Email Medium* has transports for delivering emails through a normal SMTP server as well as via the Mailgun email service. Settings for the transport are configured under:

[Admin Tools > Communications > Communication Transports](#) .

A medium can only use one transport at a time. You select the transport under the medium administration.

Communications Send Job

Usually when you send a communication, it will be sent immediately to a communication queue that gets processed in almost real-time. There is, however, a Rock Job that runs every 30 minutes to look for communications with a pending status.

You can view this under: [Admin Tools > System Settings > Jobs Administration > Send Communications](#) .

You don't need to worry about this job, but we wanted to point it out so you know more

about how communications are sent.

Bounced Mail

We know you have much to share, so let's make sure you have the opportunity to do that. You have to process bounced mail to keep your email addresses accurate and improve your email reputation (a metric used by ISPs to help determine if your organization's email is spam). Bounced messages are emails that are returned back to you after you send them because an email address is incorrect or no longer valid. Rock can automate this process if you use an email integration that supports the notification of these messages. Currently, the only core integration that supports bounced mail processing is the Mailgun integration (more on this integration is provided under the Integrations chapter of this manual). Third-party provided solutions may be available for other services.

SMS Pipeline

In this chapter we'll look at how Rock handles incoming SMS messages using Rock's SMS Pipeline feature.

Rock's SMS Pipeline is the entry point for all incoming messages. Think of it as a switchboard operator that's directing each message to its intended action.

The Fundamentals

Below is an overview of how the SMS Pipeline feature works. If some of these concepts are foreign to you right now, don't worry. We'll go over all the details in the next section.

1. An incoming SMS message is received into the pipeline.
2. The message flows down the pipeline, through a series of *Actions*. Actions are activities that the system performs, like launching a workflow.
3. Each action has filters. The pipeline uses filters to analyze the message and its contents against criteria you provide. If the message meets your criteria, then the action is performed. If not, the message moves to the next action. This process repeats until an action is performed.
4. When an action is performed, the pipeline looks at the action's *Continue* setting. This determines if the message should continue down the pipeline to the next action, or if the matched action is all that's needed.
5. If a message continues down the pipeline after an action has already been performed, it works the same way as described in #3 above. Satisfying the filter criteria for one action does not mean the message automatically satisfies the filters on the remaining actions.

These general steps are repeated for each new message you receive. That means you can use a single pipeline to perform different actions for a variety of scenarios.

Anatomy of Actions

Actions automate many of the tasks you would want to perform in Rock after receiving a text message. For instance, you might want to send the person an automated reply message. Or, you might want to launch a workflow if the person's message contains certain keywords.

Each action you add has its own settings and filters, giving you full control over what should happen and when.

Rock ships with three SMS Pipeline actions:

- Launch Workflow

- Reply
- SMS Conversations

We'll use the Reply example pictured below to describe the properties of actions in general. Then in the following sections we'll dive into each type of action individually.

SMS Pipeline Actions

SMS Pipeline Detail
Home > Communications > SMS Pipeline > SMS Pipeline Detail

SMS Pipeline Detail

Name: Example Pipeline
Webhook Url: <http://www.rocksolidchurchdemo.com/Webhooks/TwilioSms.ashx?SmsPipelineId=3>

Description: An example pipeline.

Edit Delete

SMS Pipeline Actions

Launch Workflow Reply

1

2

3

4

Incoming SMS Message

Reply

2

3

4

5

6

Response

Save Cancel Delete

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1 Actions

These are the actions you can add to the pipeline. Click and drag the desired action into the center of the page to add it.

2 Name

This is the name of the action, which displays within the pipeline in the center of the page. The default name will be the type of action it is. If you have the same type of action in your pipeline more than once, you'll want

to change their names so you can easily tell them apart.

3 Active

The action will only be performed if it is active. You might want to disable actions that only apply during certain times of the year, so you don't have to delete them when they're no longer needed.

4 Continue

After an action is performed the process will check the *Continue* setting for that action. If *Continue* is enabled, the message will continue down the pipeline to the next action. When *Continue* is disabled, the process ends with that action and any remaining actions in the pipeline are ignored.

5 Filters

Filters decide whether an action will be performed. If a message meets the action's filter criteria, then the action is performed. If not, the process moves to the next action to evaluate that set of filters. If no filters are applied to an action, every message that reaches the action will cause the action to be performed.

6 Action-Specific Properties

This area will appear for actions where additional setup is needed. It will change depending on the type of action. We'll cover these properties in the next section.

SMS Pipeline Webhooks

You might have noticed the *Webhook URL* at the top of the *SMS Pipeline Detail* page. This identifies the pipeline you're viewing. You'll use this URL to link your phone numbers to a specific pipeline. See below for details.

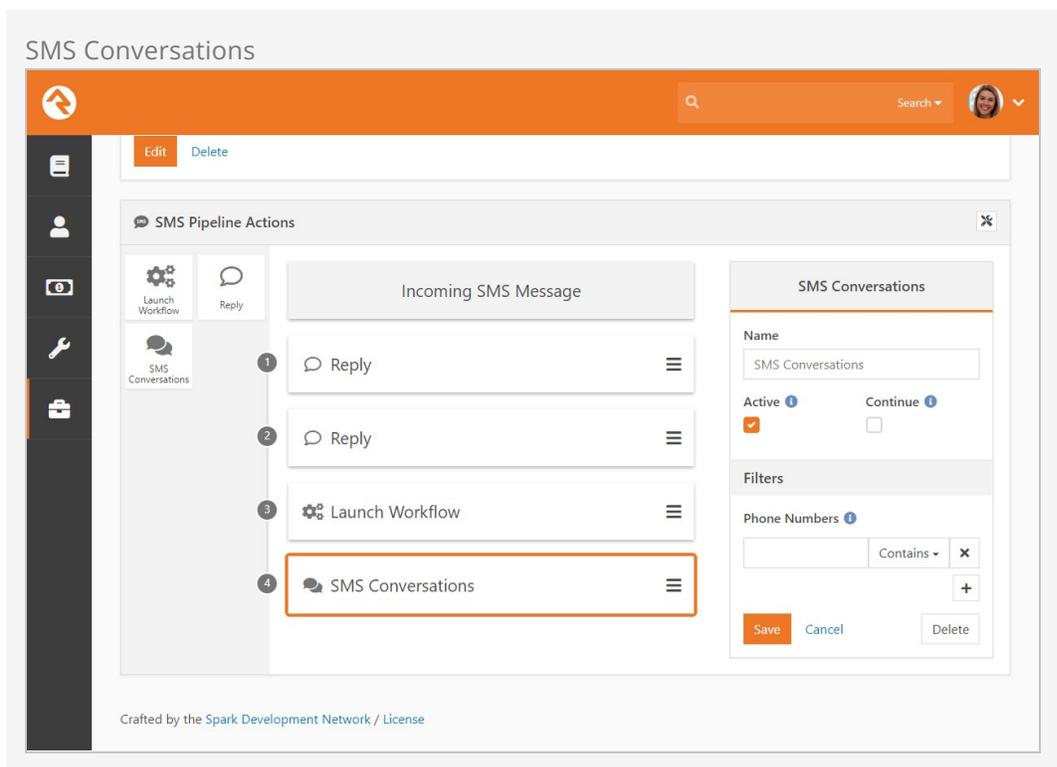
SMS Pipeline Actions

As noted in the prior section, all actions share some common properties. However, each type of action has unique features and properties that we'll describe in detail below.

SMS Conversations

This action will send the message over to the *SMS Conversations* page, at which point you're messaging with the person directly. There is only one filter for this action, and no additional unique properties.

Remember, the phone number filter references the number to which the person sent the message, not the person's phone number. If this is left blank, then every message that reaches this action will go to the *SMS Conversations* page.



As pictured above, the SMS Conversations action is typically at the bottom of the pipeline. If the person's message doesn't meet the criteria for any of the other actions, this is how you can ensure it doesn't fall through the cracks.

Reply

The *Reply* action is an easy way to automate responding to an incoming text. You can customize the content of your response, and personalize it for the recipient using Lava. The reply action can in some cases eliminate the need for a workflow if a specific message is always to be returned.

SMS Pipeline Detail
Home > Communications > SMS Pipeline > SMS Pipeline Detail

SMS Pipeline Detail

Name: Default
Webhook Url: http://www.rocksolidchurchdemo.com/Webhooks/TwilioSms.ashx?SmsPipelineId=1

Description

Edit Delete

SMS Pipeline Actions

Launch Workflow Reply

Incoming SMS Message

- Group Response
- Connect Response
- Launch Workflow
- SMS Conversations

Reply

Name: Connect Response

Active Continue

Filters

Phone Numbers

+15556486654	Contains	x
+15558655648	Contains	x
+15554934995	Contains	x

Message

serve Contains x

volunteer Contains x

Response

Response

Hi, {{ Message.FromPerson.NickName }}!
Let's get you connected. Check out the serving page and let us know where

Save Cancel Delete

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1 Message Filter

You can check the content of the incoming text message against key words you provide. You can add as many of these conditions as needed. You can also select whether the message requires "any" or "all" of those criteria to match.

2 Response

This is the content of your organization's response, which will be sent if the incoming message meets the filter requirements. You can personalize the response using Lava.

The example pictured above will only perform the Connect Response action if the words

"serve" or "volunteer" are somewhere in the message's text. If the incoming text says "I would like to serve" then the contents of the *Response* field will be sent to the person as a text message. In this particular example a workflow might also be launched for this message, because the *Continue* option is enabled.

Launch Workflow

As the name implies, this action will launch a workflow. You'll want to configure your workflow to receive information from the pipeline, using the same workflow attribute merge fields we cover in the SMS Pipeline Workflows chapter of the [Blasting Off with Workflows](#) guide.

Launch Workflow Action

SMS Pipeline Detail
Home > Communications > SMS Pipeline > SMS Pipeline Detail

SMS Pipeline Detail

Name: Default
Webhook Url: <http://www.rocksolidchurchdemo.com/Webhooks/TwilioSms.aspx?SmsPipelineId=1>

Description:

[Edit](#) [Delete](#)

SMS Pipeline Actions

Launch Workflow | Reply | Incoming SMS Message

- Group Response
- Connect Response
- Launch Workflow**
- SMS Conversations

Launch Workflow

Name: Launch Workflow

Active Continue

Filters

Phone Numbers

+15556486654	Equal To	X
+15558655645	Equal To	X
+15554934995	Equal To	X

Message

Any All

volunteer	Contains	X
serve	Contains	X

Workflow

- Workflow Type: External Inquiry
- Pass Nameless Person:
- Workflow Name Template: Connection Request
- Workflow Attributes: Attribute Key, Merge Template

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

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1 Workflow Type
You'll use the drop down to choose your preconfigured workflow.

2 Pass Nameless Person
You can control whether Nameless person records (see Nameless People) should be passed to your Workflow.

3 Workflow Name Template

This Lava-enabled field is where you can create a string to use as the workflow name.

4 Workflow Attributes

This lets you pass information, like the person or their phone number, to the workflow you want to launch. See the *SMS Pipeline Workflows* chapter of the `Blasting Off with Workflows` guide for details on setting this up.

SMS Pipeline In Action

Let's look at a completed pipeline to see how this all comes together. This pipeline has four actions, and was designed to handle inquiries about small groups and connecting. Below each screenshot we'll highlight the key points.

Response

Response
Search
Profile

SMS Pipeline Detail

Home > Communications > SMS Pipeline > SMS Pipeline Detail

SMS Pipeline Detail

Name	Webhook Url
Default	http://www.rocksolidchurchdemo.com/Webhooks/TwilioSms.ashx?SmsPipelineId=1
Description	

Edit
Delete

SMS Pipeline Actions

Launch Workflow

SMS Conversations

	Incoming SMS Message	
1	Group Response	☰
2	Connect Response	➕ ☰
3	Launch Workflow	➕ ☰
4	SMS Conversations	☰

Reply

Name

Group Response

Active Continue

Filters

Phone Numbers

+15556486654	Contains	✕
+15558655648	Contains	✕
+15554934995	Contains	✕
+		

Message

group Contains ✕

Any All

Response

Response

Yes, let's get you connected to a group! Click here to find a group near you:

Save
Cancel
Delete

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As pictured above, when an incoming text contains the word 'group', an auto-response will be sent to them with more information about joining a group. In this case the processing stops, as the *Continue* option is not enabled.

If the SMS message doesn't contain the word 'group' then the "Connect Response" action will be evaluated because it's the next in line. If the message contains the word 'volunteer' or 'serve' an auto response gets sent with more information about getting connected to a serving team. The arrow on the action indicates that the continue functionality is enabled, and the next action will run if the message meets the requirements.

The screenshot shows the 'SMS Pipeline Detail' page with the following information:

- Name:** Default
- Webhook Url:** http://www.rocksolidchurchdemo.com/Webhooks/TwilioSms.ashx?SmsPipelineId=1
- Description:** (empty)
- Buttons:** Edit, Delete

The 'SMS Pipeline Actions' section is titled 'Incoming SMS Message' and contains a list of actions:

- Group Response
- Connect Response
- Launch Workflow** (highlighted with an orange border)
- SMS Conversations

The 'Launch Workflow' configuration panel on the right includes:

- Name:** Launch Workflow
- Active:**
- Continue:**
- Filters:**
 - Phone Numbers:** +15556486654 (Equal To), +15558655645 (Equal To), +15554934995 (Equal To)
 - Message:** volunteer (Contains), serve (Contains)
- Workflow:**
 - Workflow Type:** External Inquiry
 - Pass Nameless Person:**
 - Workflow Name Template:** Connection Request
 - Workflow Attributes:** Attribute Key, Merge Template
- Buttons:** Save, Cancel, Delete

In this example, the workflow action has the same filters as the "Connect Response" action. That means any message which activates the "Connect Response" action will also launch this workflow.

Lastly, the pipeline continues down to the "SMS Conversations" action so that a staff member can directly connect with this person.

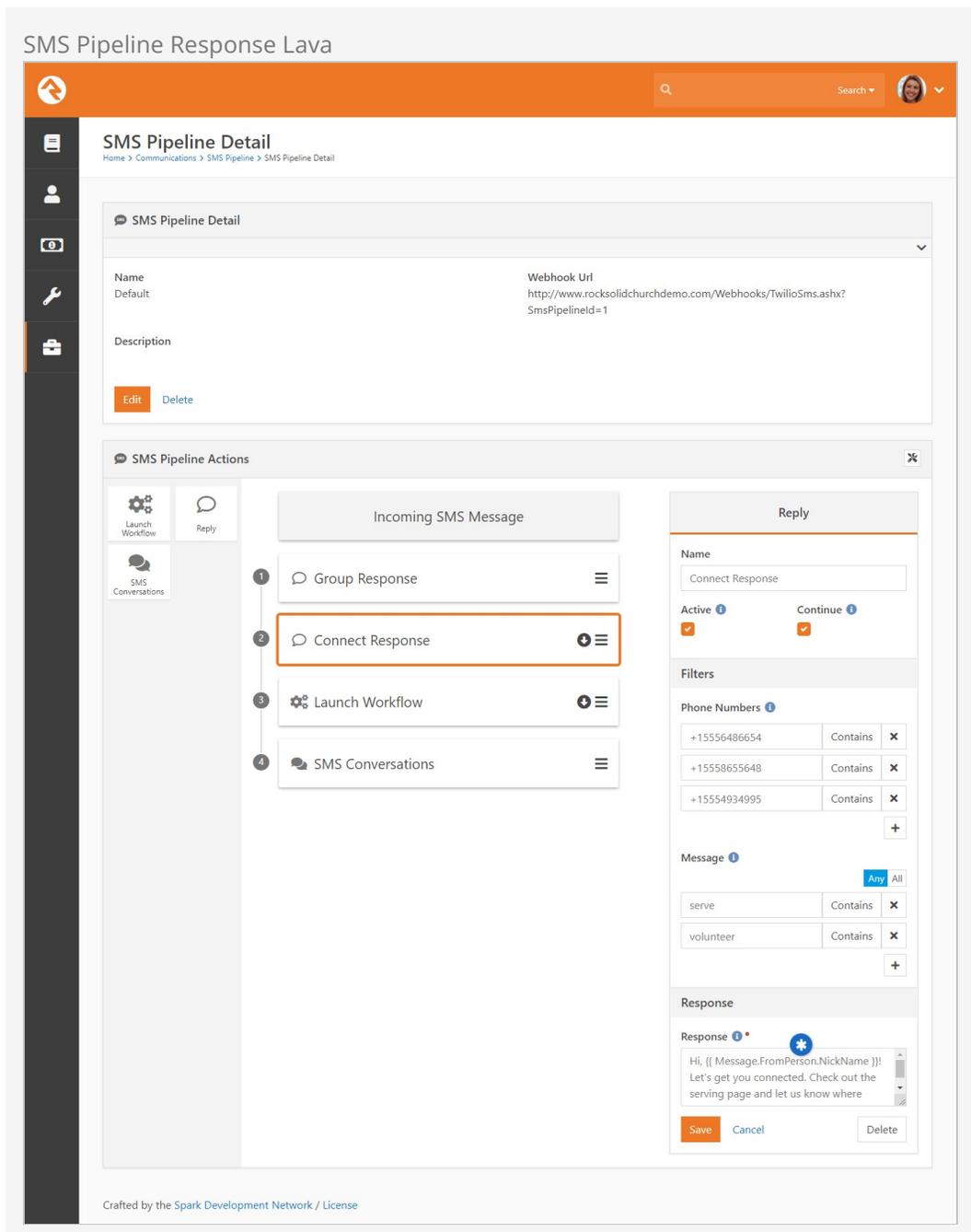
In this case, the "SMS Conversations" action has no filters applied. Knowing this, and looking at the pipeline as whole, all incoming SMS messages will end up in the *SMS Conversations* page except messages that contain the word 'group'.

If we enabled *Continue* in the "Group Response" action, then every incoming SMS message would go to the *SMS Conversations* page. In that case, a message containing the word 'group' would not satisfy the "Connect Response" and "Launch Workflow" filter criteria, so those actions won't be performed.

If an SMS message is received that says "I'd like to learn more about your services" it would pass through the pipeline straight to the "SMS Conversations" action. No automated replies would be sent and no workflows would be launched for that message.

SMS Pipeline Lava

You can use Lava to customize and personalize your pipeline's actions. There are different merge fields depending on whether you're working with the Reply or Launch Workflow action.



Launch Workflow Action Lava

Below is a list of Lava merge fields you can include in your pipeline when you're working with the Launch Workflow action. These are the same workflow attribute merge fields we cover in the SMS Pipeline Workflows chapter of the [Blasting Off With Workflows](#) guide.

SMS Pipeline Workflow Lava Merge Fields

Merge Field	Description	Field Type
{{ FromPerson.PrimaryAlias.Guid }}	The pipeline uses the person's phone number to look up the first person with	Person

SMS Pipeline Workflow Lava Merge Fields

Merge Field	Description	Field Type
	that phone number. If it finds a match, it assigns that individual's record to FromPerson. If the phone number is used in more than one profile, the pipeline defaults to the first record of an adult with children.	
{{ FromPhone }}	The person's phone number, pulled from the inbound message, from the SMS gateway. This will automatically get added to the workflow as FromPhone and will include the country code (i.e., the raw phone number 18645555555)	Phone Number
{{ ToPhone }}	The SMS gateway number where the message was sent	Phone Number
{{ ReceivedDate }}	The date the message was received	Date
{{ ReceivedTime }}	The time the message was received	Time
{{ ReceivedDateTime }}	The date and time the message was received	Date Time
{{ MessageBody }}	The content of the SMS message that was received	Text or Memo
{{ MatchedGroups }}	If the RegEx expression provided contains match groups, they are loaded into an array here. This is an advanced feature, so if you're not sure what this means, don't worry. You probably don't need it.	Typically, you fill in a text field with a merge expression of a single result from the MatchedGroups array.

Reply Action Lava

Below is a list of Lava merge fields you can use when you're working with the *Reply* action. Note that each uses a prefix of `Message`.

SMS Pipeline Reply Lava Merge Fields

Merge Field	Description
{{ Message.FromNumber }}	The person's phone number from the inbound message

SMS Pipeline Reply Lava Merge Fields

Merge Field	Description
{{ Message.ToNumber }}	The SMS number where the message was sent
{{ Message.FromPerson }}	The pipeline uses the person's phone number to look up the first person with that phone number. If it finds a match, it assigns the value to FromPerson. If the phone number is used in more than one profile, the pipeline defaults to the first record of an adult with children. This is the full Person object, so, for instance, you'll need <code>{{ Message.FromPerson.FullName }}</code> to get the person's full name.
{{ Message.Message }}	The content of the SMS message that was received

Adding New Pipelines

Technically a single pipeline is all you need in Rock. After a while though, you might find that your single pipeline becomes complex, especially if you have multiple numbers that you are supporting. In this case you can create additional pipelines. Please note though that a single SMS phone number can only work with a single pipeline, but a pipeline can service multiple SMS numbers.

To start, navigate to [Admin Tools > Communications > SMS Pipeline](#). From here you can add, delete or edit your list of pipelines.

SMS Pipeline List

Home > Communications > SMS Pipeline

Name	Description	Is Active
Default		True

50 500 5,000 1 Sms Pipeline

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Click the **+** button to add a new pipeline or click an existing pipeline to access its details. You can edit the 'Default' pipeline that ships with Rock, or you can create your own. In

this example we'll add a new pipeline from scratch so you can see the process.

The first thing you'll need to do is provide a name and description for the pipeline. If you have multiple pipelines, be sure to make the name and description clear.

The screenshot shows a web application interface for adding a new pipeline. The page title is "Add New Pipeline". The main content area is titled "SMS Pipeline Detail" and contains a form with the following elements:

- A breadcrumb trail: Home > Communications > SMS Pipeline > SMS Pipeline Detail
- A sub-header: SMS Pipeline Detail
- A "Name" input field with a red asterisk indicating it is required.
- An "Active" checkbox, which is currently checked.
- A "Description" text area.
- "Save" and "Cancel" buttons at the bottom of the form.

At the bottom of the page, there is a footer that reads: "Crafted by the Spark Development Network / License".

Click the `Save` button, and that's all you need to start configuring your new pipeline using the instructions in the above sections. Remember, each pipeline can be associated with its own webhook (see below) for added flexibility.

From One to Many

If you started using SMS Pipeline before Rock v11, you don't need to change anything. The webhook you have in place will continue to work. However, don't forget that a webhook will stop working if the associated pipeline is deleted.

SMS in Detail

Before you can start using the SMS features Rock has to offer, you need set up a phone number. This chapter provides the information you'll need to get started.

Add SMS Phone Number

You need to have a phone number before you can start sending and receiving texts. We recommend Twilio, and have a whole section for [setting up Twilio](#) in a later chapter. Even if you don't have a phone number set up yet, it's important to be familiar with the *SMS Phone Number* settings because they are referenced later in this chapter.

These settings can be accessed and maintained from [Admin Tools > Communications > SMS Phone Numbers](#).

Add SMS Phone Number

Defined Value Id: 0

Add defined value for SMS Phone Numbers

Value 1

Description 2

Active 3

Response Recipient 4

Enable Response Recipient Forwarding 5

Launch Workflow On Response Received 6

Save Cancel

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1 Value

Be sure that the phone number is in the Value field and that it is in the format of "+15555555555" (or similar for international numbers).

2 Description

A good description can be very helpful if you have multiple phone numbers.

3 Active

Only Active phone numbers can receive responses. You might use a phone number for a large event and then inactivate it until the next event.

4 Response Recipient

The person you select here will receive the incoming messages sent to the SMS Phone Number you're viewing. This only happens if *Enable Response Recipient Forwarding* is enabled. Be sure the individual you select has a valid SMS phone number on their record.

5 Enable Response Recipient Forwarding

If "Yes" is selected, then incoming messages to this SMS Phone Number will be sent to the *Response Recipient*. If "No" is selected, then the conversation will go to the SMS Pipeline or SMS Conversations.

6 Launch Workflow On Response Received

You have the option of automatically launching a workflow when a response is received. Use this field to indicate which workflow should launch. Don't forget, you can use the same phone number to launch different types of workflows using the SMS Pipeline.

SMS Number Strategies

Now that you've seen how SMS replies are handled in Rock, let's touch briefly on strategies to implement this effectively in your organization.

SMS services like Twilio make it very inexpensive to rent phone numbers for SMS. (A number from Twilio runs only \$1 per month.) Don't limit your organization to a single number if you need more than one. Think about getting a number for each department and/or heavy SMS user. It's also very easy to turn a SMS number on and off. You might grab a number for a large event and remove it after the event is over. You can also reuse a number internally by changing the *Response Recipient* as described above.

MMS Considerations

Standard MMS (aka, Multimedia Messaging Service) messages allow you to send images, slideshows, videos and audio clips as attachments. While this means you can do some creative things with your communications, there are some limitations to keep in mind.

The biggest limitation is that the recipient's phone may not support all multimedia files. So, while you may be able to send a short video, not all of your recipients may be able to view it.

Another thing to keep in mind is that some mobile carriers limit the file size of attachments being sent over their network. For example, Twilio limits messages that combine text and images to 5MB. If you try to send, say, an MMS message combining text and video, and the total size is greater than 5MB, Twilio will prevent the message from sending. Before sending out a large number of messages, it's a good idea to test your communications on various handsets using different file formats and sizes. See what works and what doesn't.

Twilio, Short Codes and MMS Messages

If you're using a Twilio short code, keep in mind that it doesn't automatically support MMS messages. You can add MMS capabilities for a one-time fee of \$500. This is different than regular "long codes" (phone numbers) where MMS is usually automatically supported.

If you're not sure whether your account supports MMS messaging, check your Twilio Console. If you only see "Capabilities: SMS" and MMS is not listed then it's likely you haven't purchased MMS for your short code.

See the [setting up Twilio](#) section for more information on configuring Twilio as your SMS provider.

Long Code Throttling

It's still a bit like the Wild West out there when it comes to SMS and MMS. Each carrier has its own rules and practices. For many carriers, sending or receiving too many messages too quickly will set off spam warnings, which results in messages either not being sent or not being received. This can be a real problem when you need to send information to a lot of people at once.

Fear not. We've got you covered. Out of the box, Rock comes configured with Long Code Throttling. This global attribute slows the delivery of non-short code numbers. By default it is set to 100 milliseconds, or a 10th of a second, which is the rate we've found

works best for both speed and reliable delivery. You can modify the rate, though, by changing your Twilio transport settings ([Admin Tools > Communications > Communication Transports](#)). You can also disable Long Code Throttling altogether. Keep in mind, though, that this may result in your messages not being delivered.

Configuring Twilio for SMS Pipeline

In the past, each SMS feature included its own webhook. The SMS Pipeline condenses those features into one place, so you only have to use one webhook. That means you can use a single phone number for a variety of different purposes.

To set your number up for the SMS pipeline in Twilio, set the *A Message Comes In* URL to:

```
https://YourServer/Webhooks/TwilioSMS.ashx?SmsPipelineId=YourPipelineId
```

If you need multiple SMS Pipelines, you can link each one to your phone numbers by specifying the pipeline's ID in the URL. We've made this easy by displaying the URL you'll need on the pipeline itself.

See the [Integrations](#) chapter for more information on setting up Twilio in general.

SMS Conversations

In the prior chapter we explain why many of your incoming SMS messages will end up getting passed from the *SMS Pipeline* into *SMS Conversations*. Now, let's take a step back and see how to manage those messages, or messages that are sent to *SMS Conversations* directly. Navigate to [People > Communications > SMS Conversations](#) to start.

SMS Conversations
Home > SMS Conversations

SMS Conversations

Main Campus...

Ted Decker

Ted, tell us about your experience at this year's Car Show! Thanks!
<http://rocksolidchurch.com/3623dsds>

Garrett Johnson - 5 Months Ago

Hello Ted! Hope to see you at tonight's meeting.

Jon Edmiston - 10:51 PM

Type a message

Send

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1 New Conversation

This will open up a new conversation window to start a conversation with a selected individual.

2 Recipient Filter

Use this filter to search for specific recipients. This is a fast alternative to scrolling through a lengthy list of people to find the conversation you're looking for.

3 Available SMS numbers

You can change between currently active SMS numbers by clicking the drop-down here. Changing the number will show you conversations associated with that number. If only one number is available, then the dropdown is replaced with a label.

4 Show/Hide

You can choose to show or hide messages that have already been read.

5 All Responses

This panel displays all the responses to the selected SMS number. Clicking on any of the listed responses will show you the conversation with that person.

We realize that every organization is different, so we add in settings to allow you to customize each feature for your needs. Suppose you have the Students Director and First Impressions Director using communications for scheduling different events with

their volunteers. This could be done with the out of the box *SMS Conversations* page, or you can customize this so the two can only see their own SMS number on different pages.

Create Multiple SMS Pages

Use blocks to create multiple pages for SMS Conversations. On each page you can then specify who can access these pages and which number/numbers are used for that SMS page. To learn more about creating pages and blocks check out the *Designing and Building Websites using Rock* guide.

Nameless People

Sooner or later, you'll start receiving SMS messages from people and phone numbers you don't recognize. If you're worried that this will cause a snag in your processes, don't be.

Rock will try to match the phone number of a new incoming SMS message to a person in the system. If it can't find anyone with that number, Rock will create a *Nameless Person* record instead. This allows your processes to continue as normal, without knowing their name or other contact information. In most cases this will result in the message being passed from the SMS Pipeline to the *SMS Conversations* page. Other possible actions are limited because we don't know who the person is.

The screenshot shows the 'SMS Conversations' interface. On the left is a navigation sidebar with icons for home, list, person, messages, settings, and a briefcase. The main header is orange with a search bar and a user profile icon. Below the header, the page title is 'SMS Conversations' with a breadcrumb 'Home > SMS Conversations'. The main content area is split into two panes. The left pane shows a list of messages with the following details:

Sender	Time
(602) 492-1234 1	4:10 PM
Hi Chip. It's a test from a new phone num...	
Ben Wiley	9 Days Ago
Garrett Johnson	15 Days Ago
Jan Johnson	24 Days Ago
Emily Thomas	25 Days Ago
Thomas Smith	One Month Ago

The right pane shows a detailed view of a message from '(Unknown Person) **2**'. The message text is: 'Hi Ted. It's George Smith. This is my new mobile phone number... You might want to write it down in your records.' The time is 4:10 PM. A 'Link To Person' button **3** is visible in the top right corner of the message view.

1 Phone Number

Typically a name is shown here. Since Rock doesn't know the person's name, you'll see the phone number instead.

2 Unknown Person

This indicates the conversation is with an unknown (i.e. nameless) person.

3 Link To Person

Click this button to link the phone number to a new or existing person record. We'll cover that in detail below.

As new texts come in, you might lose track of your nameless people in the *SMS Conversations* page. Luckily, you can go to [Admin Tools > Communications > Nameless People](#) to see and manage your list of nameless records:

The screenshot shows the 'Nameless People' page. At the top, there's a navigation bar with a search icon and a user profile. Below that, the page title 'Nameless People' is displayed with a breadcrumb trail 'Home > Communications > Nameless People'. The main content area features a table with one row for a phone number '(602) 492-2865 (Unknown Person)'. A blue circle '1' is next to the phone number, and a blue circle '2' is next to a person icon button. Below the table is a pagination control showing '50 | 500 | 5,000' and '1 Nameless Person'.

1 Phone Number

All of the phone numbers Rock can't link to a person record are listed here.

2 Link To Person

Click the  button to link the phone number to a new or existing person record (see below).

Where Did My Nameless Person Go?

Each night, the *RockCleanup* job will go through the Nameless record types to look for a matching person record. If it finds a match it will merge them for you and the Nameless record will be removed.

Linking to an Existing Person

Once you know for sure who you're talking to, you'll want to link the phone number (and the conversation) to an actual person in Rock. You'll do this from the *Link Phone Number to Person* page. You can get there from the *SMS Conversations* page or from the *Nameless People* page as described above.

Link Phone Number to Person

Link Phone Number (602) 492-2865 to Person

Add New Person Link Existing Person

Title **1** **2**

Connection Status*

Birthdate

First Name*

Role*

Grade

Last Name*

Gender*

Marital Status

Suffix

Save Cancel

1 Add New Person

As pictured above, this page lets you quickly and easily create a new person record to be linked with the phone number.

2 Link Existing Person

Clicking this button will give you a person picker screen so you can look up the existing record to be linked with the phone number.

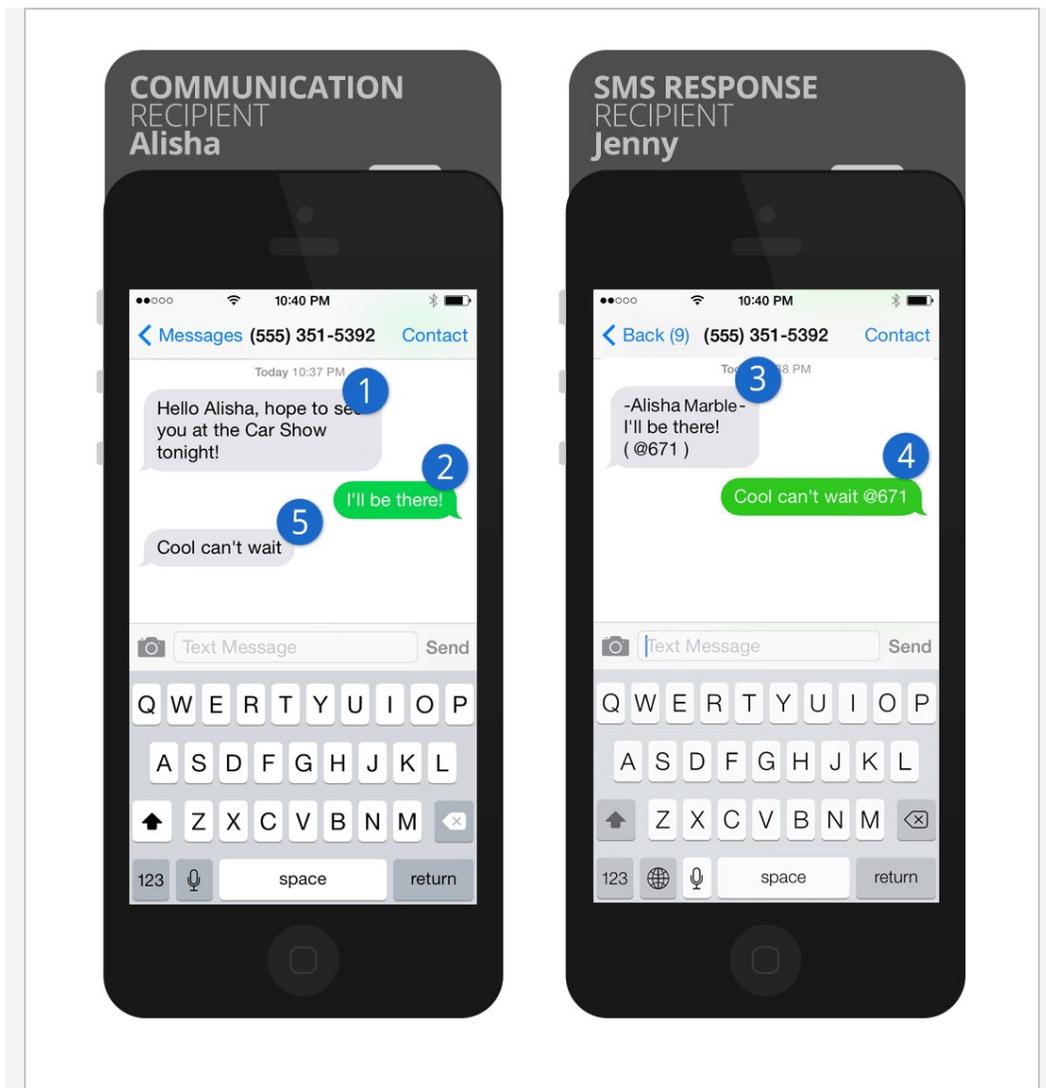
Respond from a Device

When you send an SMS message (see the *Communication Wizard* chapter) you'll select an SMS number to send from. When *Response Recipient Forwarding* is enabled as described earlier, responses will be forwarded to the response recipient's mobile phone with the sender's name and a response code.

The response code consists of the @ symbol followed by a three-digit number (e.g., @347). If further follow-up is required, the response recipient can use this code to reply back.

If your mind is swimming a bit, that's OK. Let's look at an example. In our example Jenny has just sent out a bulk SMS message to several attendees reminding them of the car show that afternoon. Let's walk through a conversation she has with Alisha.

SMS Example



1 Bulk Message

The original bulk SMS message. Notice Jenny has cleverly used merge fields to personalize the text message with each recipient's name.

2 First Response

Alisha then responds to the message.

3 Response Code

The response goes back to Rock's SMS phone number. Rock then looks up that number's response recipient and relays the message to Jenny's phone. Because the message is no longer directly from Alisha, Rock adds Alisha's name to the message and also the response code @671.

4 Sent to Alisha

Jenny decides she would like to continue the conversation so she writes a quick message back including the response code. Rock will use this code to match the conversation back to Alisha.

5 Shows Message

Alisha receives Jenny's response. Note how Rock has removed the response code. To Alisha it appears that she is texting Jenny directly.

Notice that both sides of the conversation are texting to Rock's SMS number (555) 351-5392. Little does Alisha know that Jenny's real number is 867-5309.

Configuring Email

Out of the box, the email communication medium is configured to use the SMTP transport. You'll want to be sure that your mail server settings are all correctly configured under:

[Admin Tools](#) > [Communications](#) > [Communication Transports](#) > [SMTP](#) .

SMTP Relaying May Bite You

If you decide to use SMTP as your transport be sure that the server/service you use is configured to allow the Rock server to relay. If you're using Google Apps see the tips in the Integrations section below.

Broken Images?

If you're finding that some of your images appear as broken links in your email, be sure your *Public Application Root* organization setting is set to the proper URL.

This can be modified under:

[Admin Tools](#) > [General Settings](#) > [Global Attributes](#) > [Public Application Root](#) .

There are several other settings that you should be aware of. While most are preconfigured to best practices, it's good to know that they exist.

Unsubscribe HTML

If you'd like to change the HTML that is displayed at the bottom of all bulk emails you can do so under:

[Admin Tools](#) > [Communications](#) > [Communication Mediums](#) > [Email](#) .

The default is to display a small *Unsubscribe* link at the bottom right of the email.

Mailgun Unsubscribe

To avoid having two *Unsubscribe* options at the bottom of your emails, be sure to check that your Tracking Settings in Mailgun itself are turned off.

Default Plain-text

If you do not provide a plain-text message, the recipient will see a generic message with a link to view the rich text email on your website. The contents of this generic message can be configured under:

Admin Tools > Communications > Communication Mediums > Email .

The default message is:

Unfortunately, you cannot view the contents of this email as it contains formatting that is not supported by your email client.
You can view an online version of this email here:
<link to page>

Safe Sender Domains

Many email service providers have implemented new restrictive policies on emails that are sent from a person's account (e.g., yahoo.com) but did not originate from their email server. Because Rock sends email on behalf of others these emails can bounce in these situations. To prevent this, if an email communication is created with a From Address that is not in the *Safe Sender Domains* defined type, the *Organization Email* global attribute value will be used instead for the *From Address* and the original value will be used as the *Reply To* address.

You'll want to add all of your organization's email domains to the *Safe Sender Domains* defined type under:

Admin Tools > Communications > Safe Sender Domains .

Adding Domains

Be sure that only your organization's domains are added to the *Safe Sender Domains* list. Adding gmail.com, yahoo.com, or any other domain you don't control or have SPF records for will result in your email being dropped because you'd be forging 'From' addresses.

Communication Lists

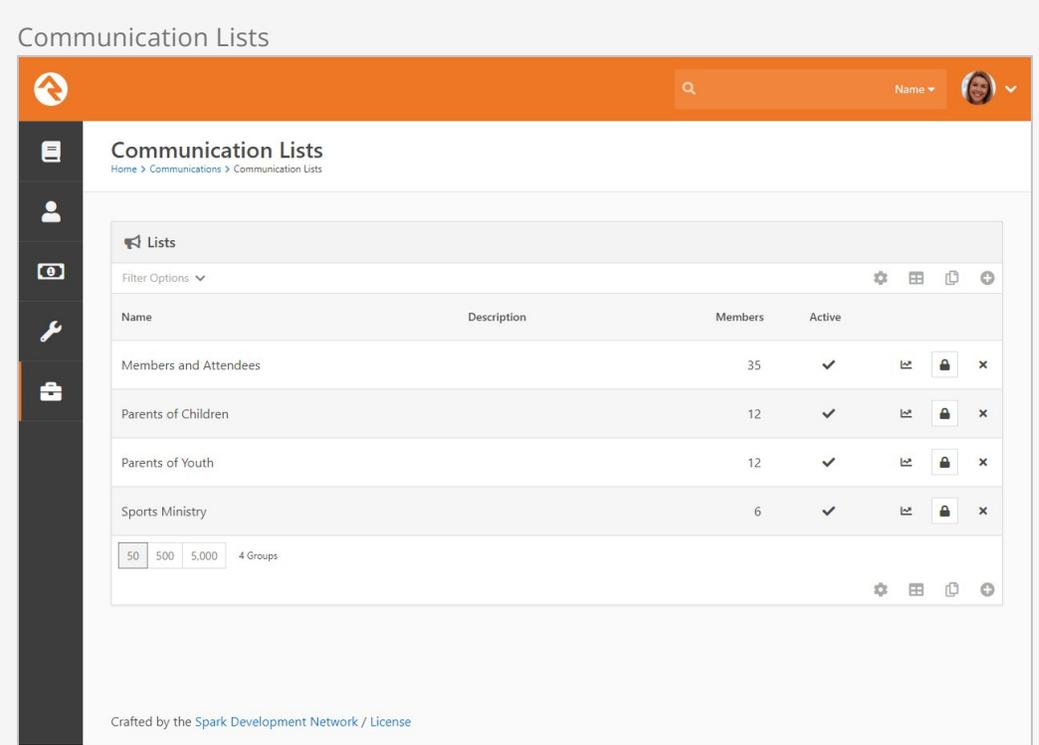
The Communication Wizard utilizes communication lists to send messages.

Communication lists are kind of like the contact lists or groups you can set up in your own email and messaging apps. Rock's communication lists are simply groups of a specific type. For example, you could create a communication list of all small group members, or everyone registered for summer camp, or anyone serving as an usher. If you can create a group of it, you can create a communication list from it. Using groups as the basis for lists allows you to quickly identify and select recipients from the different areas of your organization.

Communications lists can be found in the *Communication Lists* screen, located at:

[Admin Tools](#) > [Communications](#) > [Communication Lists](#) .

Click the name of a list to view its members or modify its settings.



The screenshot shows the 'Communication Lists' interface. At the top, there is a navigation bar with a search icon and a user profile. Below the navigation bar, the title 'Communication Lists' is displayed, followed by a breadcrumb trail: 'Home > Communications > Communication Lists'. The main content area features a table with the following columns: Name, Description, Members, and Active. The table contains four rows of data:

Name	Description	Members	Active
Members and Attendees		35	✓
Parents of Children		12	✓
Parents of Youth		12	✓
Sports Ministry		6	✓

Below the table, there are filter options and a pagination control showing '4 Groups'.

Rock ships with the following four lists:

- Members and Attendees
- Parents of Children

- Parents of Youth
- Sports Ministry

These lists are just samples to get your juices flowing and so you can see how lists should be configured. You can use them for your organization if you want, but you'll need to wire them up to sync with your data views. Because these lists are groups, you can add people to them manually...or you can use Rocks' group sync features to keep them automatically updated. To learn more, see the [Group Sync](#) chapter in the [Your Groups](#) guide.

You can also create your own communication lists. In the *Communication Lists* screen, click the **+** button to create a new list.

Communication List Detail

Home > Communications > Communication Lists > Communication List Detail > New Group

Add Group

Name ^{*} Active Public

Description

General

Group Type ^{*} Security Role Yes Campus

Parent Group Require Signed Document ⁱ

Group Attribute Values

Category ⁱ

Communication Segments ⁱ

Public Name ⁱ

Group Sync Settings

Role Name	Data View Name	Sync Interval	Last Sync
No Group Sync for Roles Found			
+			

Save **Cancel**

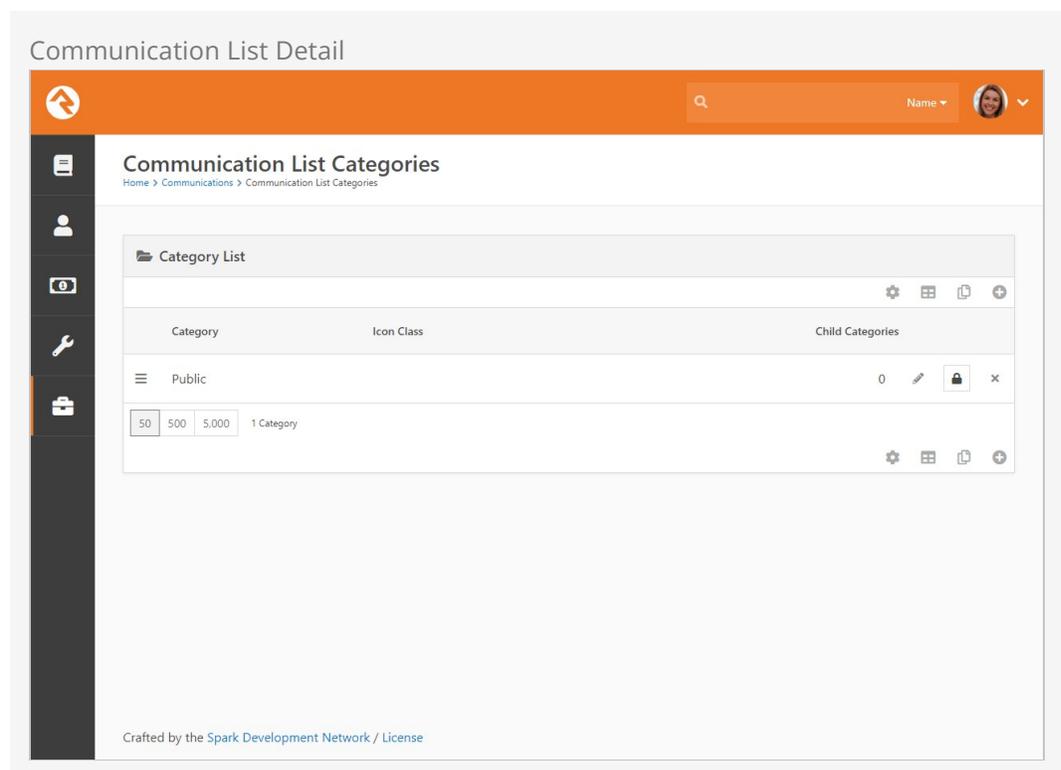
Crafted by the [Spark Development Network](#) / License

As you can see, the *Communication List Detail* screen offers a lot of options and flexibility for creating your communication list. To make your new list available to members viewing the *Communication List Subscribe* block on your external site, be sure to click the *Public* checkbox. (To learn more about that block, see the *Communication Preferences* section below.)

Next let's look at how to associate the list with categories and data views.

Communication List Categories

You can create categories to further identify and filter your communication lists. The *Communication List Categories* page is located at `Admin > Communications`.



Rock ships with one category, called "Public", but you can create as many categories as you want. For example, you could create a category called "Staff Only" to use when creating communication subscription blocks you want only to be available to staff members. Categories can have child categories as well. You can use communication list categories in a number of ways: for paring down the recipients in your communication lists, in creating subscribe/unsubscribe blocks in your organization's website, for creating data views to use when filtering communication lists... The more you use them, the more you're going to see how extensive they are. We'll be talking about communication list categories a little later in the *Communication Preferences* chapter.

Segments

Segments provide a way to select and filter your lists based on any field in the system. You can use data views to further pare down, or segment, who you're communicating with in a particular list. They can be global to all lists or unique to a specific list. When

using the Communication Wizard, after selecting a communication list, you can add any segments you want to use to filter that list. For example, if you only want the communication to be sent to members who are age 35 or older, you'd select the segments "Members" and "35 and Older". (More on that in the next section.)

It's important that you think through your list strategy. A smart use of segments can cut down on the number of lists you will need.

Data views can be created, modified and deleted in the *Communications Segments* category of the *Data Views* screen, located at [People > Data Views](#). For more information about data views, see the Filtering Using Data Views section of the [Taking Off with Reporting manual](#).

OK, now for the fun part. Let's look at how to actually use the Communication Wizard.



Communication Wizard

Rock's Communication Wizard works like other wizard models, with buttons that move you forward and backward through a series of screens. Let's walk through how to use the wizard to send a communication.

Sending a Communication Using the Communication Wizard

To begin a new communication, go to `People > New Communication`. The first screen you'll see, pictured below, is where you'll pick who you want to send the communication to. This can be done by using a Communication List or by adding individuals manually. There are other ways too, like if you arrived at this screen from a grid.

The screenshot shows the 'List Selection' interface. At the top, there is a navigation bar with a home icon, a search bar, and a user profile. Below this is a 'New Communication' header. The main content area is titled 'List Selection' and includes a 'Manual List' button (callout 3). A 'Communication List' dropdown menu is set to 'Members and Attendees' (callout 4). Under 'Segments', the '35 and older' checkbox is selected (callout 5). Under 'Recipients Must Meet', the 'All segment filters' radio button is selected (callout 6). A '20 recipients selected' indicator is visible. A 'Next' button is located at the bottom right of the main content area. A 'Use Simple Editor' button is located at the top right of the main content area (callout 1). A full screen toggle icon is located at the top right of the main content area (callout 2).

1 Use Simple Editor

Click this button to launch the Simple Editor.

2 Full Screen Toggle

This button will change the view of the page into a full screen. The same button is used to return to the screen back to its original state.

3 Manual List

If you want to select individual recipients manually, you can do that here. This lets you create a list of people without using a configured Communication List.

4 Communication List

After a Communication List has been created, you can select it here. Depending on the other settings you choose on this page, this will be the list of people who receive the communication.

5 Segments

The *Segments* feature lets you filter people in the *Communication List* according to your selections. For instance, you could apply the '35 and older' segment to only communicate with people from the 'Members and Attendees' list who are 35 and older.

6 Recipients Must Meet

If you've chosen more than one *Segment* then this lets you decide if the people who receive the communication should meet all of the segment requirements, or any one of them.

Click `Next` to advance to the *Communication Details* screen.

Wait! I want to go back!

If at any point you want to return to a previous screen, click the [Previous](#) button.

Communication Details

New Communication

Communication Details

Provide additional information about your communication including when and how it should be sent.

1 Communication Name

2 Bulk

3 Communication Medium

4 Send: Immediately

Previous Next

- 1 Communication Name**

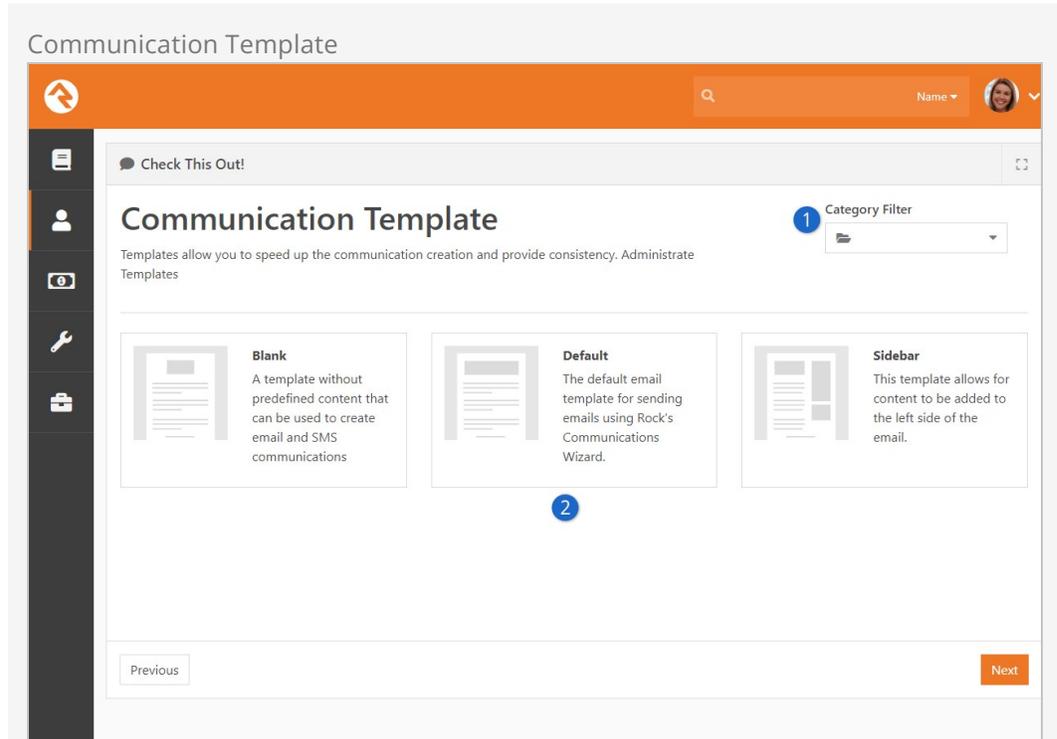
This is the name of the communication you're sending. This is for internal use only, to help you identify which communications were sent as you look through your history of communications. The name you provide here will not be included in the communication you send.
- 2 Bulk**

Here is where you designate whether or not you're sending a bulk (or group) communication. When you select "Yes", Rock automatically includes a link for the recipient to unsubscribe from the list associated with the communication. You can change the default for this option in the block settings.
- 3 Communication Medium**

The options you see here may vary depending on your Rock configuration/data. In this case we can choose to send an email, an SMS text message or a push notification. Or, we can send it using different mediums based on each recipient's communication preference.
- 4 Schedule Send**

By default, the communication will be sent immediately after it has been created (and approved, if applicable). However, you can click here to specify a date and time on which the communication should be sent.

Click **Next** to advance to the *Communication Template* screen. This is where you'll select the template you want to use to create your communication. You can imagine how, after you've created a number of templates, having a Template Image Preview (i.e., thumbnail) will help you easily locate the template you want.



1 Category Filter

You can also use the *Category Filter* dropdown to help you locate your template. If you don't see a template listed, you may not have permission to use it, or it might not be set up for use with the wizard. You can learn more about template security and support in the [Email Template Survival Guide](#).

2 Template Selection

Rock ships with these three templates out of the box, but this list will expand as you create your own. Remember, the template is a starting point for how your email will look, but you'll be able to customize many aspects of it in the following screens. Keep this in mind before creating new templates.

After selecting your template, click **Next** to advance to the *Email Summary* screen. The *Email Summary* screen is where you specify the sender, the subject and any files you want to attach to the message.

Email Summary

Check This Out!

Email Summary

Provide the basic information about your email.

1 From Name *

2 From Address *

3 [Show Additional Fields](#)

4 Email Subject *

5 Attachments

Upload

Previous Next

- 1 From Name**

This will be the name that appears as the person, ministry, etc. who sent the email.
- 2 From Address**

The email address you provide here will be seen by the recipient as the email address from which the email was sent.
- 3 Show Additional Fields**

Click this link to specify a separate 'Reply to' email address, and to add email addresses to 'CC' and 'BCC' lists. These fields are optional and can be left blank.
- 4 Email Subject**

The subject line of your email is added here. You can use Lava to personalize the email subject.
- 5 Attachment**

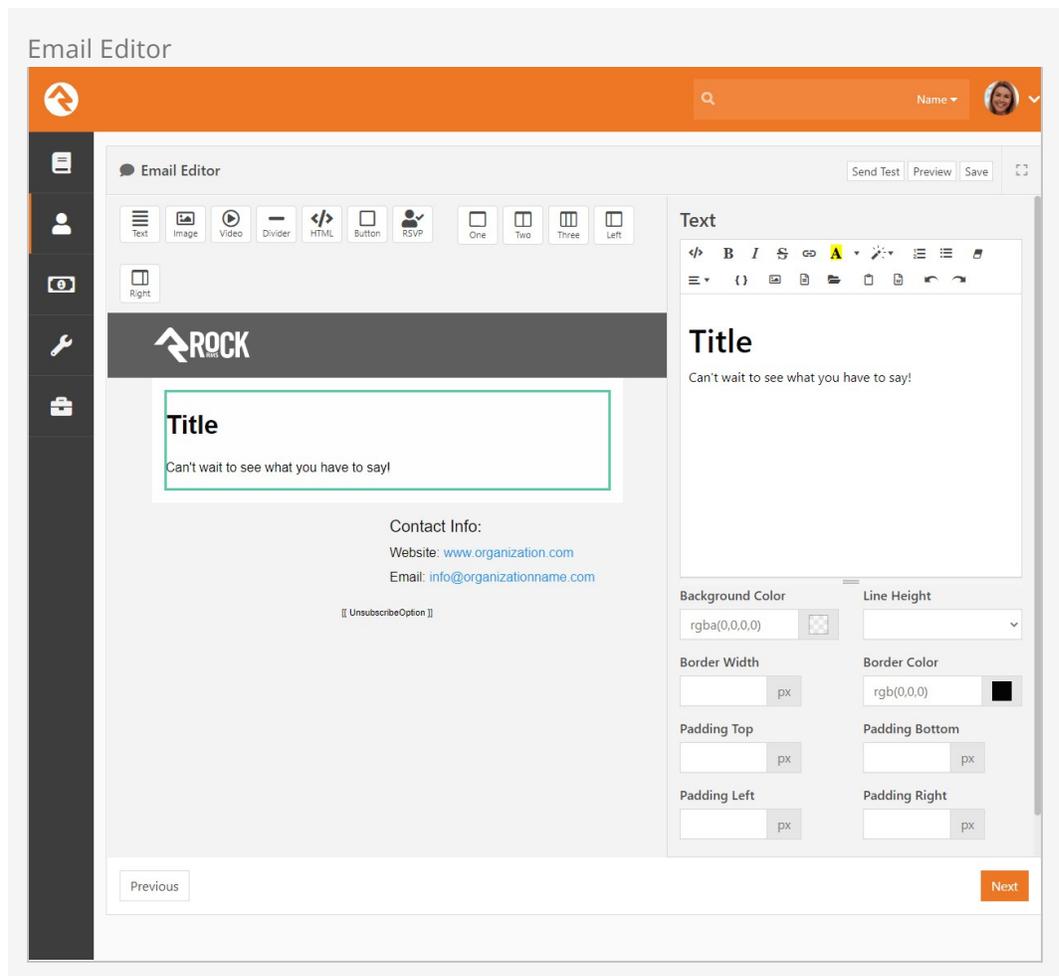
You can use this to upload files that will be sent with the email as an attachment.

CC, BCC and Personalization

If you use the CC or BCC fields be aware that each communication is personalized for each recipient, so each email is unique. That means your CC/BCC recipients will receive many messages.

Click [Next](#) to advance to the *Email Editor*. If your communication will be sent by SMS

only, then the wizard will skip this screen.



Here's where things get really fun. The *Email Editor* is a drag-and-drop visual email composer. This is where you configure the layout, images, text, buttons, etc., of your communication.

To add an element, simply drag it from the buttons bar to where you want it to be in your message. Notice that when you drag an element over a section, that section lights up with a yellow border. A transparent image of the element also helps to show where you're placing it.

After placing an element, you can edit it by clicking on the section it's in. The options associated with that element are displayed on the right side of the screen. Notice that the section you're editing is highlighted with a red border, and you can view your changes in real time. When you're done editing the section, click `Complete`. If you decide you don't want that element after all, click `Delete`.

At any point while working in the Email Editor, you can send a test email to yourself by clicking the `Send Test` button. Click `Preview` to see both desktop and mobile previews of your design. Click `Save` to save a draft of your email.

We should pause a moment here to note the RSVP button, indicated by the icon. This element is used to send RSVP requests to groups, and it requires some setup in

advance. For full details check out the Group RSVP section of the [Rock Your Groups](#) guide.

Adding Videos to Email

Because of how different email clients work, we can't reliably embed a video within an email. Using the  Video feature will let you provide a link to a video, with an associated image, but the video can't play from inside the email itself. As of this update, Rock will automatically apply a thumbnail image if the video is from YouTube or Vimeo.

When everything is set up and looks the way you want, click [Next](#) to go to the *Mobile Text Editor* screen. If your communication will be sent by email only, the wizard will skip this screen. The *Mobile Text Editor* is similar to the *Email Editor*. This is where you design how your SMS message will appear.

1 From

Select the SMS phone number from which the text message will be sent. Unless specified in the block's settings, this list will contain all active SMS phone numbers you have configured.

2 Add Merge Field

Personalization has never been easier. Use the list here to populate your message with the Lava you'll need to truly customize and personalize content for each recipient.

3 Message Body

This area is where you'll compose the actual content of your message, including any Lava you might be using for personalization.

4 Attachment

You can use this to upload files that will be sent with the message as an attachment.

5 Send Test / Save

You can also send a test text to yourself by clicking the `Send Test` button. Click the `Save` button to save a draft of your text.

6 Live Preview

As you make changes to your *Message Body* you can see in real time how the message will appear when it's received.

When finished setting up the mobile version, click `Next` to go to the *Push Notification*

Editor screen. You'll skip this screen if your communication isn't being sent via push notifications.

Check This Out!

Push Notification Editor

1 Title
Check This Out!

2 Add Merge Field

3 Message
Hey {{ Person.FullName }}! We think you'll love our new podcast!

4 Image
Upload

5 Open Action
 No Action Link to URL

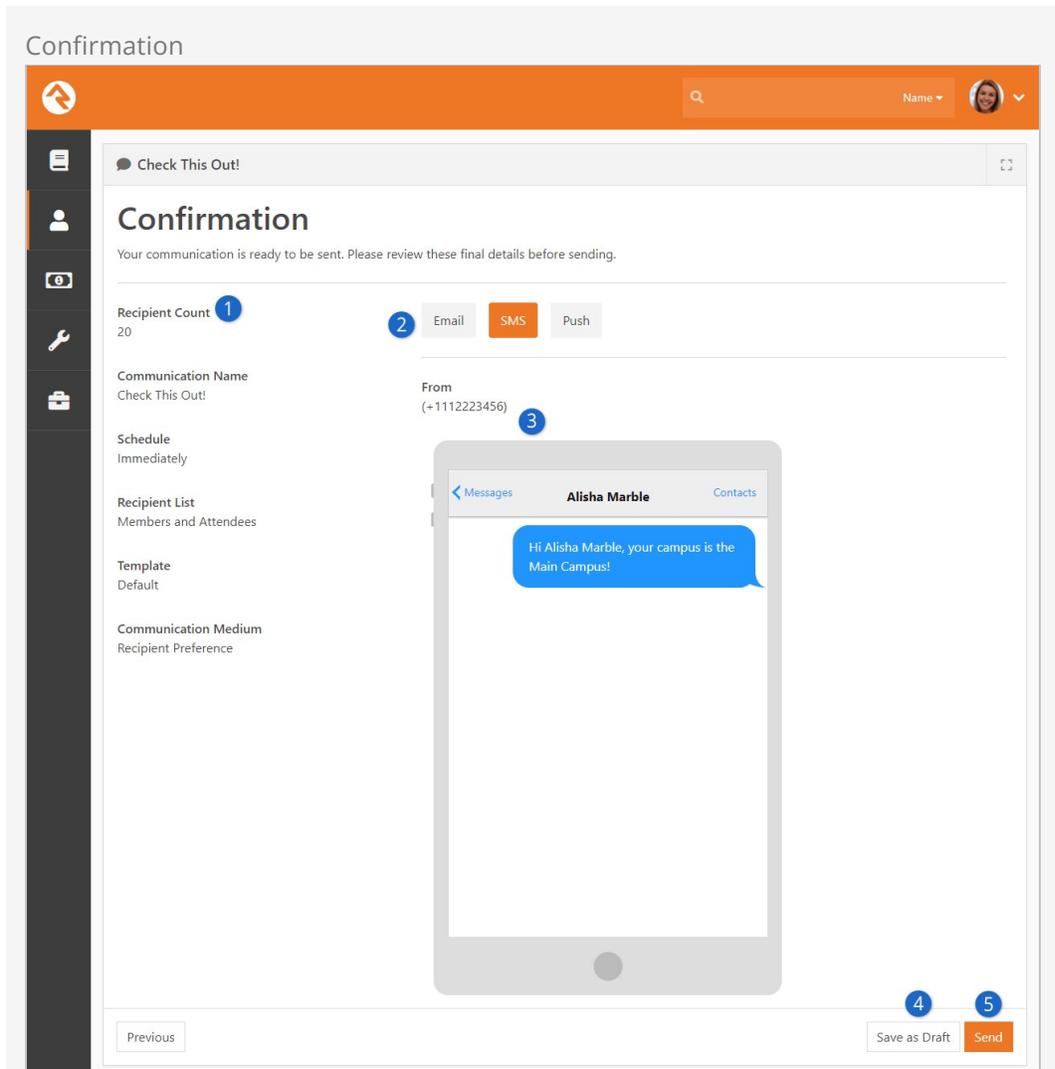
6 URL
https://rocksolidchurchdemo.com/podcast

Previous Next

- 1 Title**
This will be the title of the push notification, and will be seen by the person receiving it.
- 2 Add Merge Field**
Just like the *Mobile Text Editor* page, you can easily personalize the content of the notification by adding Lava merge fields from this drop-down.
- 3 Notification Content**
This is the main content that the person will see. Merge fields will appear here when added, to customize and personalize the content.
- 4 Image**
You can optionally add an image by uploading a picture here. Because these are push notifications, the recommended size for the image is 1038x520.
- 5 Open Action**
When *Link to URL* is selected then the URL field described below will appear. When the person clicks/taps the notification they can be taken to the provided URL.
- 6 URL**
This is where the person will be directed if you've enabled *Link to URL*. This field is hidden if you selected *No Action*.

With the last of the communication methods configured, click Next to go to the

Confirmation screen. This is the last stage in the process before we actually send the communication.



1 Communication Details

The information along the left applies to the communication in general. This lets you ensure you've selected the correct options in the prior screens.

2 Communication Method Previews

In the example pictured above, the communication may be sent in three different ways. You can click each button to see a preview of the communication in each of the three formats we talked about above.

3 Communication Preview

This area will show you what the communication recipient will see. In the example pictured above we also see the number from which the SMS message will be sent, because that is specific to the SMS version of the communication.

4 Save as Draft

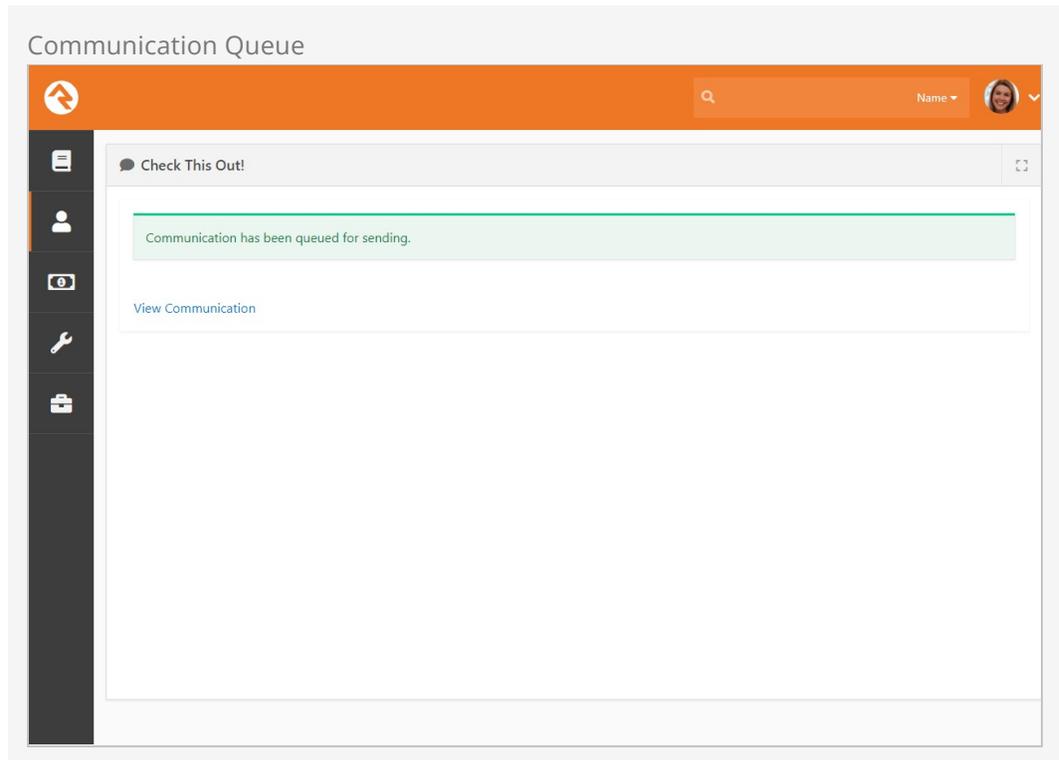
Not quite ready yet? That's okay, you can save this as a draft and come back later. Your communication drafts can be found in the

Communication History screen.

5 Send

This is the Moment of Truth. Are you ready to send the communication? If so, click [Send](#) .

After clicking [Send](#) , the communication is sent to the communication queue.



To immediately view the communication's analytics, click the *View Communication* link. See the *Viewing Analytics* section to learn more.

To turn around and send the same communication to a different list, click the *Copy Communication* button from the *Communication History* page. This will take you back to the beginning of the *Communication Wizard*, keeping the settings and design options of the original communication.

Pretty cool, right? With the *Communication Wizard*, you're going to be rocking email and SMS messages in no time.

Simple Email Editor

Rock's previous, non-wizard communication system (aka, Simple Email Editor) is still available. You may find it useful for volunteers to use to send individual or simple communications. Here's what you should know about using the Simple Email Editor.

Sending a Communication Using the Simple Email Editor

There are a lot of ways to start a new communication. The most popular one is to click the  button at the bottom of any grid of people. This will take you to the *New Communications* page and add all of the individuals from the grid to the communication as recipients. This is really powerful when used with Data Views and groups pages. If you prefer you can also start a new communication from [People > New Communication](#) and enter your recipients by hand.

Tip: Hide the New Communications Button

If a person does not have view access to the *New Communications* page the button at the bottom of the grid will be hidden.

Once on the *New Communications* page, you're ready to start crafting your message. We'll walk through each section of this page highlighting some of the features you have at your disposal.

New Communication

1 Selector

Email is the default communication medium, but this can be updated from the communication selector at the top of the page.

2 Recipients

The recipient list will be filled with all of the people you previously selected as recipients. You can also add and/or remove names from the list at this point. Don't forget that if you started with a blank communication you'll need to enter all of the names manually. You may notice that some names

are in red. These names either do not have an email address or have been marked as not wanting emails or bulk emails.

3 Bulk Option

Determine if this message should be treated as a bulk email. Bulk emails will have the unsubscribe link added to them. They will also not be sent to people who have asked that they not receive bulk emails from your organization.

4 Template

If you would like to use a previously created email template you can select it here. For more information on creating templates see the [Email Template Survival Guide](#). This page can be set with a default template. Out-of-the-box this will show your organization's header and footer with the sender's signature.

5 From

Fill in the email address that you would like the email to be sent from. By default, your contact information will be input, but you can change this as needed.

6 Reply to Email

You might want replies to go to a different address than the one you're sending from. For example, when you send emails from the organization's leader, you may want the replies to go to an administrative assistant.

7 Attachments

You can add any number of attachments you want to the email. Why limit a good thing?

8 Subject

Next, enter the subject of your email. A well-written subject can greatly increase the response rate of the email. Here are a few tips: provide context for the content of the message and a hint about the organization sending it. Remember to focus on catching the eye of the reader. You can use Lava merge fields in your subject line so by all means, be creative.

9 The Message

Now the fun part: your message. While you can enter any generic message in this box, consider personalizing your message using merge fields. The message editor has a button `{}` for selecting a merge field to add. Personalization is one of Rock's main strengths so be sure to use it to its fullest.

10 Delay Send

If you'd like you can delay the sending of your message to a date and time in the future. What a timesaver!

11 Test

Before sending the email it's wise to send a test. Using the `Test` button will send the contents of the email to the currently logged in user. The first recipient will be used to process any merge fields in the email.

12 Draft

Finally, you can send the communication or save it as a draft to be completed later. This draft will be available to complete from `Tools > Communication History`. Take the time to get it right!

Resolving Relative Links

By default Rock will convert relative URLs in links and images to absolute URLs using the *Public Application Root* global attribute.

Mass Push Notifications

The *Mass Push Notification* page lets you send a push notification to every active mobile device in your system. By default, a device is considered active if it's had an interaction recorded within the past year. That's a lot of notifications, so this isn't something you'll use every day, but you'll find it's perfect for certain communications.

Sending Mass Push Notifications

You'll find the *Mass Push Notification* page under `People > Communications > Mass Push Notification`. If you've used tools like the Communication Wizard to send push notifications, then this page will look familiar to you.

Mass Push Notification

Mass Push Notification

Home > Mass Push Notification

Mass Push Notifications

1 Title

Message 1

1024 Add Merge Field 2

3

4 Open Action 1

No Action Link to URL

5 URL

Send Test

Send

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- 1 Title**

This will be the title of the push notification, and will be seen by the person receiving it.
- 2 Add Merge Field**

You can easily personalize the content of the notification by adding Lava merge fields from this drop-down.
- 3 Notification Content**

This is the main content that the person will see. Merge fields will appear here when added, to customize and personalize the content.
- 4 Open Action**

When *Link to URL* is selected then the URL field described below will appear. When the person clicks/taps the notification they can be taken to the provided URL.
- 5 URL**

This is where the person will be directed if you've enabled *Link to URL*. This field is hidden if you selected *No Action*.

By default, this block will send a notification to every device that has had an interaction recorded in your system within the past year. Administrators can edit the block settings to change the number of days that the device must have had an interaction for it to be considered active.

Approvals

As your organization grows, you'll find an increasing number of people sending large emails. Chances are good that not all of them understand the intricacies of your communications strategies. Rock has just the thing to help you maintain quality in growth – approval settings for emails that are sent to a large number of people.

Approving Emails

By default, emails that are sent to 300 or more recipients will require approval. This number can be changed by configuring the block settings of the *Communication* block.

When an email requires approval, its status will be set to *Pending Approval* and members of the *RSR - Communication Approvers* group will receive an email. Note that this is the only group that will receive the approval emails.

A communication will not be sent until it's approved by a person with approval access. By default these are the *RSR - Communication Administration* and *RSR - Communication Approvers* roles. Before a communication is approved these roles have the ability to edit the communication to ensure it meets the standards of your organization.

Any individual with approval access can view a complete list of communications waiting for approval from the *Communication History* page. The filters on the *Communications List* block allows approvers to view communications from anyone in Rock, with additional filters for status.

Additional security roles can be added to approve communications by adjusting the block security of the *Communication* block. Simply add them to the *Approve* permission of this block.

Approver Notification Emails

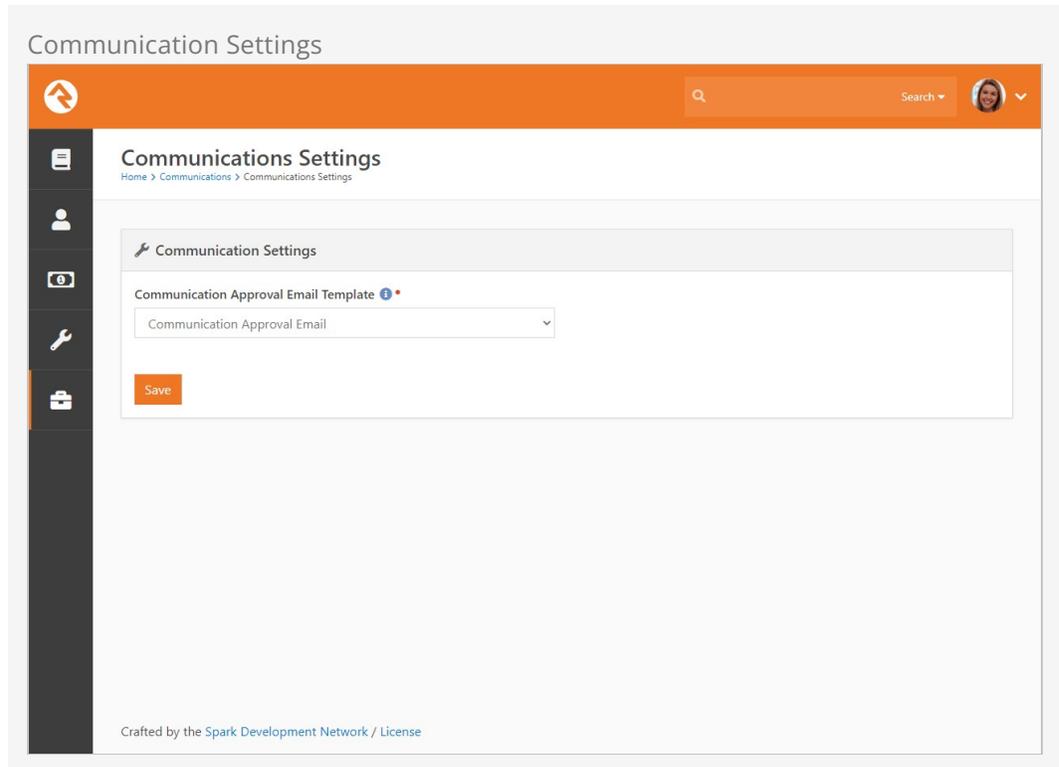
By default, the System Communication for approval emails is *Communication Approval Email*. Just like other communications, you can customize the content of your approval notifications to suit your needs.

Email Only

The approval notification communication only works with emails and cannot be used with the *SMS* or *Push* features.

If you need to take it a step further, you can use an entirely different template for these

approvals. Simply go to `Admin Tools > Communications > Communication Settings` and select the template you want to use instead.

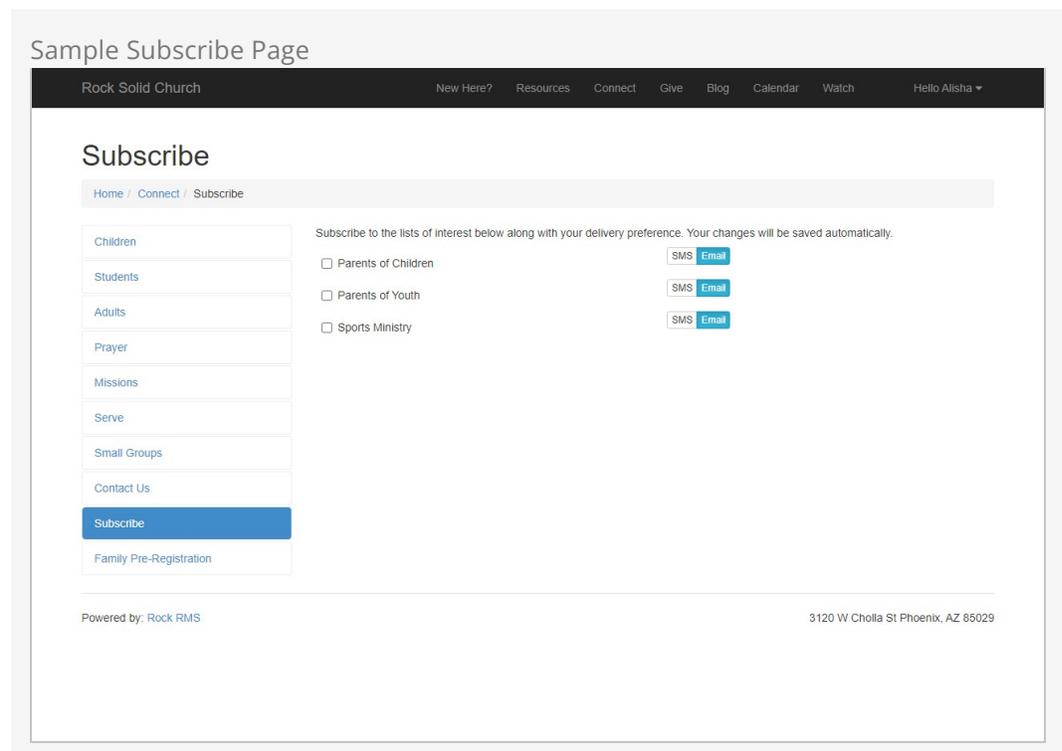


Communication Preferences

Rock's communication tools provide powerful functionality not only to senders but also those receiving communications. Recipients can control not only which communications they receive but also how they receive them. Let's look at how Rock handles communication preferences.

Communication List Subscribe Block

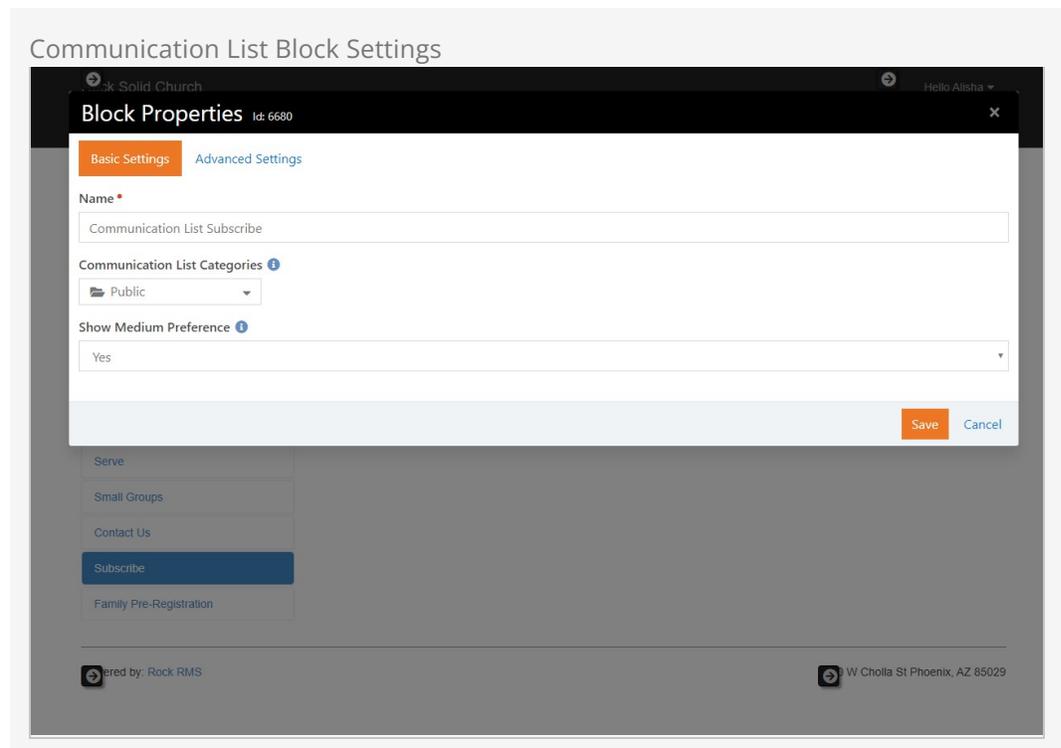
Rock ships with the *Communication List Subscribe* block ready for you to use in both your internal and external sites. You can view the block's details in the *Block Type Detail* screen located at [Admin Tools > CMS Configuration > Block Types](#). When placed on a page of your site, this block will display the communication lists a person is subscribed to or can be subscribed to. For example, here's how the block might look on a Subscribe page of an organization's external site.



In this example, the block shows the three communication lists that ship with Rock: Parents of Children, Parents of Youth and Sports Ministry. Additional lists unique to your organization would be displayed here as well if the person is subscribed or is able

to subscribe to them.

You can further configure the *Communication List Subscribe* block in the block settings. This is one area where Communication List Categories come into play. You can specify a category in the block settings if you want the *Communication List Subscribe* block to target only a particular segment of the communication lists.



Here you can see the block settings of the *Communication List Subscribe* block of that same Subscribe page. The *Communication List Categories* dropdown shows the available categories. Remember, the "Public" category ships with Rock, but you can create as many categories as you want. Whichever categories you select here will affect the functionality of the *Communication List Subscribe* block. For example, you could select Staff Only to display lists only available to staff members. If you don't select a category, Rock will display all of the lists the person is authorized to view.

Now let's look at how a person interacts with the *Communication List Subscribe* block to set their communication preferences.

Setting Subscription Preferences

There are two ways a person can access and set their communication preferences: by logging in and navigating to a subscribe page, or by clicking an unsubscribe link that takes them to an email preferences page. Let's look at the subscribe page option first.

Setting Preferences in a Subscribe Page

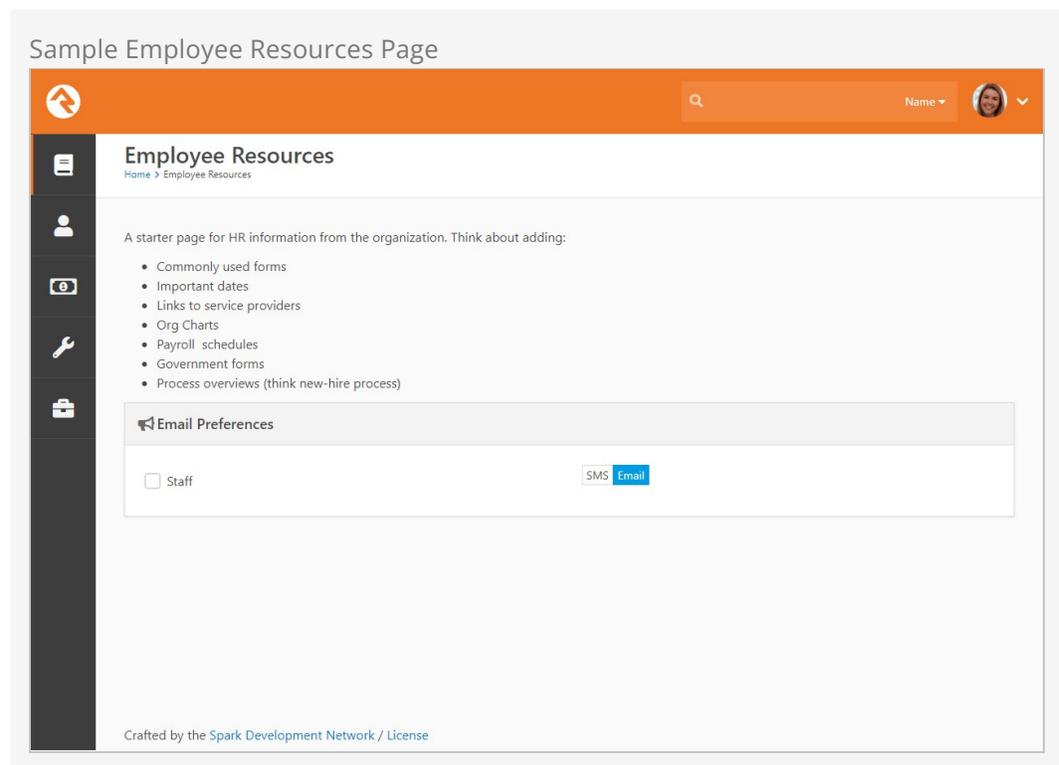
When a person logs in, the *Communication List Subscribe* block is made available for them to set their communication preferences. If that block is placed on a Subscribe page, as shown in the earlier screenshot, they can select which lists they want to subscribe to, and choose which format they want the messages they receive to be in. To

subscribe to a list, simply check the box beside the list's name. To unsubscribe, uncheck the box. To set a delivery preference, simply click which you want to receive: email or SMS. Super easy, right?

Communication Wizard and Delivery Preference

The Communication Wizard uses the preferences set using the *Communication List Subscribe* block. So, when sending a communication using the wizard, if you choose the *Recipient Preference* option in the *Communication Delivery* screen, the wizard will check which preferences a person has set and send the communication accordingly.

The *Communication List Subscribe* block works the same way for the internal pages of your organization's site as well. You can create subscribe pages available only to staff members or others where they can set their communication preferences. For example, you can set up an employee resources page with an email preferences zone containing the *Communication List Subscribe* block.



Setting Preferences from an Unsubscribe Link

The other way a person can access and set their communication preferences is by clicking on an unsubscribe link in an email or SMS message.

The US government's CAN-SPAM act requires that all "bulk" emails have an unsubscribe link. Rock automates the insertion and processing of these links for you. Here are a few things you'll need to know about how this process works.

- When you send a bulk communication using the communication wizard, Rock

automatically includes an unsubscribe link in your message, but you can place the unsubscribe link anywhere by using the merge field: `[[UnsubscribeOption]]`.

- If you do not provide this merge field when using the Simple Email Editor, the link will be added for you at the bottom of your email (*evil laugh*).
- You can modify the format and destination of this link on the *Email Medium*

`Admin Tools > Communications > Communication Mediums > Email`.

If you blank out this field, then no link will be added to your message. Think about it before you simply delete it. Friendly senders should provide a way to opt-out of messages.

Below is a view of the page that is displayed when someone clicks an unsubscribe link.

Unsubscribe Page

Rock Solid Church Demo New Here? Resources Connect Give Blog Calendar Watch Hello Alisha ▾

Email Preference

Home / Email Preference

Which option best describes how you would like us to update your email preference?

Update my email address.

I am still involved with Rock Solid Church Demo, and wish to receive all emails.

I am still involved with Rock Solid Church Demo, but do not wish to receive mass emails (personal emails are fine).

I am still involved with Rock Solid Church Demo, but do not want to receive emails of ANY kind.

I am no longer involved with Rock Solid Church Demo.

Powered by: Rock RMS 3120 W Cholla St Phoenix, AZ 85029-4113

The unsubscribe block on this page allows you to customize the wording for each of the options on the page. If you want to add more reasons for the "I no longer attend" option, you can do that under

`Admin Tools > General Settings > Defined Types > Inactive Record Reason`.

The block also allows you to suppress any reasons that might be awkward in this context (e.g., *Deceased, No Activity*).

Here's a quick overview of each of these options is below:

- **Update my email address.** This will provide a field where the person can change their current email address. This will not unsubscribe the person from anything.
- **I'm still involved and wish to receive all emails.** This doesn't unsubscribe them from anything. In fact, if they had currently unsubscribed, it would undo that preference.
- **I'm still involved but don't want to receive mass emails.** This will keep the email address active in the system but will remove them from receiving bulk emails.
- **I'm still involved but don't want to receive any emails.** This will inactivate a person's email address inside Rock. You will still be able to see their address but they will not receive any emails.
- **I'm no longer involved.** This will inactivate the person's record in the database. They will be asked to select a reason and have the option of providing more information.

A Note About the Email Preference Page

If a person is logged in when they view the *Email Preference* page, any communication lists they're subscribed to will be displayed beneath the "Only unsubscribe me from the following lists" item, allowing the person to select which list(s) to unsubscribe from.

Communication History and Analytics

Communication History

You can view a history of the communications you've sent under `People > Communication History`. The list of communications can be filtered based on a variety of data elements, like type, status, content, etc.

Communication History

The screenshot displays the 'Communication History' interface. At the top, there is a search bar and a user profile icon. Below the header, the page title 'Communication History' is followed by a breadcrumb 'Home > Communication History'. The main content area is titled 'Communication List' and features a 'Filter Options' section with various input fields for filtering by Subject, Communication Type, Status, Created By, Created Date Range, Sent Date Range, Content, and Recipient Count. An 'Apply Filter' button is located below the filters. The communication list is presented in a table with columns for Subject, Status, Details, Sent, Recipients, and Copy. Three communication items are listed:

Subject	Status	Details	Sent	Recipients	Copy
Join Us Next Week!	Approved	Created on 5/6/2021 by Ted Decker Reviewed on 5/6/2021 by Alisha Marble	Future 5/10/2021 1:00 PM	200	Copy X
FREE Date Night Event This Weekend	Approved	Created on 4/3/2021 by Ted Decker Reviewed on 4/8/2021 by Alisha Marble	4/8/2021 3:48 PM	23 82 3	Copy X
Youth Ministry Notification	Approved	Created on 3/5/2021 by Ted Decker Reviewed on 3/6/2021 by Alisha Marble	3/8/2021 11:58 AM	108 364 31	Copy X

At the bottom of the list, there is a pagination control showing '50' items per page and '3 Communication Items' total. The footer of the interface states 'Crafted by the Spark Development Network / License'.

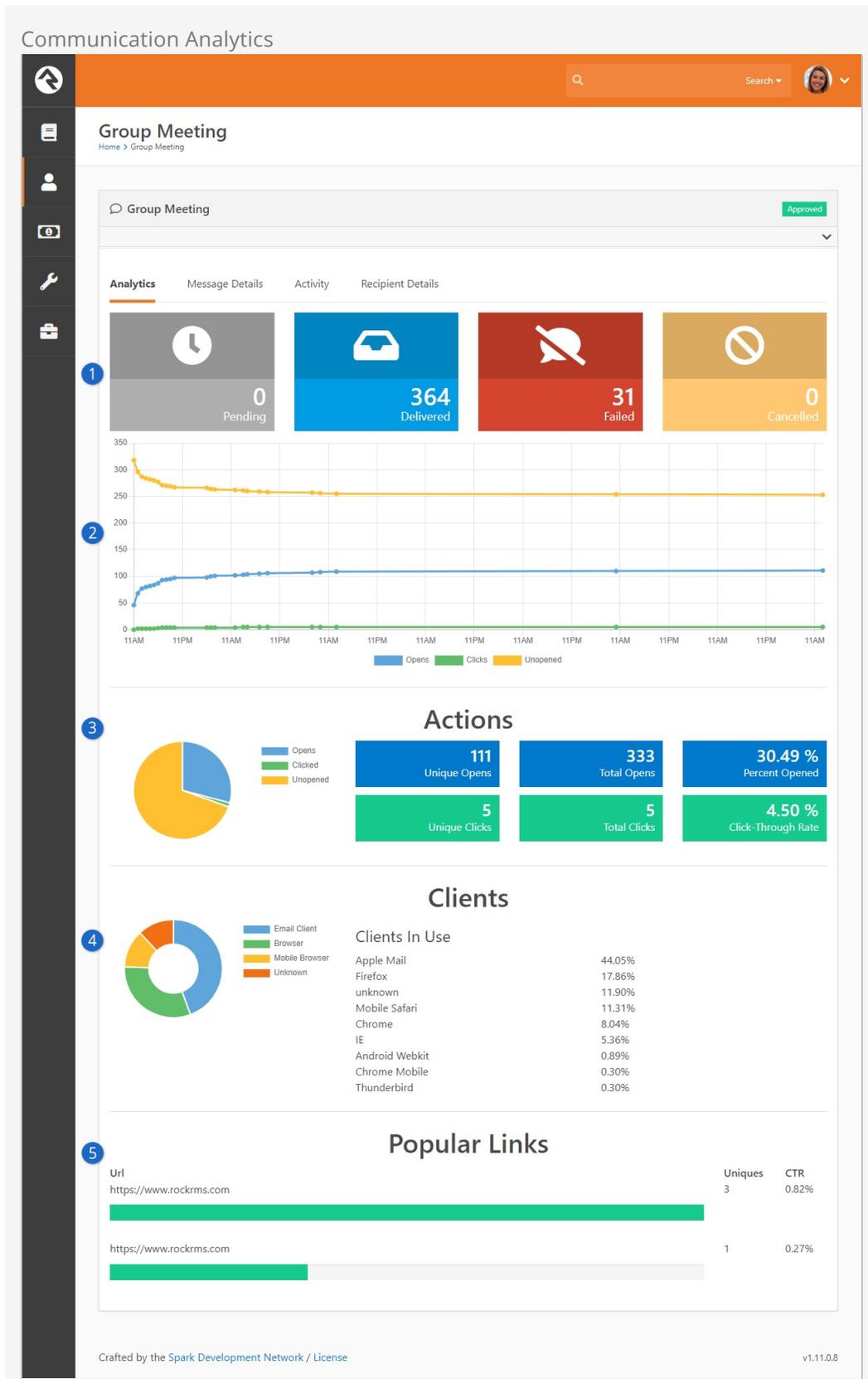
See the Bigger Picture

Those with Administrate permissions on this block will be able to see every communication in the system and can filter by a specific person.

Viewing Analytics

When you click a communication from the *Communication History* list, Rock displays a page showing the status of the message along with any analytics that are available. This is where using one of the email service integrations like Mailgun can provide a ton of value.

With services like Mailgun you can see how many people have opened your message and even which links they've clicked. This gives you a much broader understanding of how well your message was received and what calls to action were engaged. To learn more about Mailgun, see the Integrations chapter below.



1 Status States

Analytics are shown for each state that a message could be in. The number and types of states is dependent on the transport that you used. The states pictured above include:

- **Pending** - The communication has been saved or queued but hasn't been sent yet.
- **Delivered** - The communication has been sent to the appropriate destination server. For email communications this does not mean that it necessarily reached the person's inbox, just that it made it to the recipient's email server.
- **Failed** - The communication did not reach the recipient. This could be from a bad email address or a hard bounce.
- **Cancelled** - This state is used when a communication has been cancelled by the sender.

2 Analytic Graph

This graph shows the number of opens, clicks and unopened messages over time. As emails are opened you should expect the number of unopened messages to go down while the number of clicks (hopefully!) goes up.

3 Actions

The *Actions* section gives you lots of information at a glance, making it easy to monitor overall activity.

4 Clients

Services like Mailgun can identify which email clients are being used by recipients to view your email.

5 Popular Links

In addition to knowing the number of clicks, progress bars at the bottom of the page let you know which links are being clicked and how frequently.

Email Analytics

If you want a wider view of these types of analytics for emails, go to [People >](#) [Communications > Email Analytics](#). There you can view analytics for all emails within a specified time period.

Viewing Message Details

This page shows you details related to the communication itself. Reviewing things like the subject of an email or the phone number used to send a text message can be helpful both for sent messages and for future communications that are pending.

Communication History - Message Details

The screenshot displays a communication details page for 'Financial Planning'. The page is titled 'Financial Planning' and includes a search bar and a user profile icon in the top right. The main content area shows the message details, including the sender's name and address, the subject, and the message body. The message body contains a header 'Need Some Financial Planning Help?' and a placeholder for a person's name. The page also includes a 'Created By' field, an 'Approved By' field, and a 'HTML Message' section. At the bottom, there are links for 'Cancel Send' and 'Copy Communication'.

- 1 Created By**
The name of the person who created the communication, and when it was created, will be displayed here.
- 2 Approved By**
After a communication has been approved you can see who approved it and when the approval took place.
- 3 Communication Details**
Specifics about the communication, including the *From Name*, *From Address* and *Subject*, are displayed here for reference. For text messages, the number that was used to send the text will be displayed.
- 4 Message**
The contents of either the email or SMS message will be displayed for reference.
- 5 Originated from this page**
If the communication originated from a list block, such as those associated with data views or small groups, clicking this link will take you to that page.
- 6 Cancel Send**
If the communication is scheduled to go out in the future, you can cancel it from here by clicking this link. This function is not available for communications that have already been sent.
- 7 Copy Communication**

Often times you will want to resend a similar communication. Using the *Copy Communication* link will create a new communication with the exact settings used for the communication being viewed. It's important to note that the recipient list will be exactly the same. If the initial communication was sent from a dynamic list of people (like a Data View) it will not re-run the list.

Viewing Activity

This area lists activities for the communication. Depending on the transport used, you can see every time the message was opened by a recipient and every link inside the communication that was clicked.

Communication History - Activity

Financial Planning

Home > Financial Planning

Financial Planning Approved

Analytics Message Details **Activity** Recipient Details

1 Date	2 Person	3 Activity	4 Details
1/8/2020 8:01 AM	Sarah Kitt	Opened	Opened from 55.155.255.155 using OS X desktop Apple Mail email client
1/8/2020 8:02 AM	Sarah Kitt	Click	Clicked the address http://www.rockrms.com/ from 75.155.255.155 using OS X desktop Chrome browser
1/8/2020 9:31 AM	Daniel Peak	Opened	Opened from 55.255.255.55 using iOS mobile Mobile Safari mobile browser
1/8/2020 9:33 AM	Sam Hanks	Opened	Opened from 155.55.95.155 using iOS mobile Mobile Safari mobile browser

- 1 Date**

The date and time on which the activity occurred are displayed for reference.
- 2 Person**

The person who took the action is provided as a link that takes you to their *Person Profile* page.
- 3 Activity**

The specific action (e.g. Opened, Click) that the person performed is shown here. You can sort the list by activity to group actions together.
- 4 Details**

Details related to the activity are displayed here. If the person clicked a link, the link's URL will also be displayed.

Viewing Recipient Details

Details about the individuals who received the email can be viewed here. This is great for accessing and analyzing easily customizable sets of information about communication recipients.

Communication History - Recipient Details

Financial Planning

Analytics Message Details Activity **Recipient Details**

1 Person Properties

- Age
- Age Classification
- Birthdate
- Connection Status
- Email
- Gender
- Grade
- Is Deceased
- Record Status

2 Person Attributes

Organization X

Update

Filter Options ^

3 First Name Last Name

Communication Medium

- Email
- SMS

Delivery Status

- Pending
- Delivered
- Failed
- Cancelled

Opened Status

- Opened
- Not Opened

Clicked Status

- Clicked
- Not Clicked

Delivery Note

Apply Filter Clear Filter

<input type="checkbox"/>	Name	Status	Medium	Note	Opened	Clicked	Organization
<input type="checkbox"/>	Sarah Kitt	Delivered	Email	Confirmed delivered by Mailgun at 1/15/2020 11:00:30 AM	✓	✓	Southeast Church
<input type="checkbox"/>	Daniel Peak	Failed	Email	Recipient Email Address is not active			
<input type="checkbox"/>	Sam Hanks	Delivered	Email	Confirmed delivered by Mailgun at 1/15/2020 11:00:09 AM	✓		
<input type="checkbox"/>	Pete Foster	Delivered	Email	Confirmed delivered by Mailgun at 1/15/2020 11:00:05 AM	✓	✓	
<input type="checkbox"/>	Helen Evans	Delivered	Email	Confirmed delivered by Mailgun at 1/15/2020 11:00:06 AM			

1 Person Properties

Select one or more person properties and click the `Update` button to have those properties displayed in the grid. You can then sort the communication recipients according to the selected properties.

2 Person Attributes

Like the person properties, you can select one or more attributes to display in the grid. From allergies to t-shirt sizes, you can add as many as

you need.

3 Filter Options

You can filter results based on a wide variety of options related to the communication and to the recipient. You can even filter by name to view details for an individual or a family.

4 Recipient Detail Information

This area will show the person's name and general information related to the communication itself. As described above, columns can be added according to any properties and/or attributes you've selected.

System Communications

System Communications (formerly known as "System Emails") are communication templates that are used by Rock to send very specific messages. Typically these are automated communications, such as the message someone receives when they've forgotten their password and requested to reset it.

System Communications can be used with either emails or SMS messaging. While Rock sets these up to look professional from the start, you may want to modify them to match your organization's branding. You can edit these communications under [Admin](#)

[Tools](#) > [Communications](#) > [System Communications](#).

CSS Inlining

CSS Inlining of Email Templates is only available if the email Communication Transport supports it. You can allow CSS Inlining for all emails by updating the Communication Medium settings.

System Emails and System Communications

With the addition of SMS messaging configuration, *System Communications* replaces what was formerly known as *System Emails*. Current versions of Rock will have both areas available, but *System Emails* has been renamed to *System Emails (Legacy)* to help distinguish between the two. If you're using any Rock Shop plugins related to communications, you may need to maintain templates in both places until the plugin can be updated to reference *System Communications* instead of *System Emails*.

You can apply security to each System Communication individually. This will restrict who can see the communication on the History tab of the Person Profile page and on the Communication Detail block.

Integrations

Email: Mailgun

We've already touched on just how great we think Mailgun is, but let's dig deeper into the benefits of their service.

Note:

We are not in a business partnership with Mailgun, nor do we receive any form of compensation from them. We are just passing along helpful tips about some quality products and services we've discovered along the way. While Rock ships with the Mailgun transport, other integrations and plug-ins may be available in the Rock Shop.

Mailgun is an email delivery service that provides several advanced features. Mailgun is operated by the popular web hosting company Rackspace and is used by numerous online businesses like Stripe, Github, Lyft, Slack and many many more. While Rock can use any SMTP mail server to deliver its emails, we think you'll find that using a service like Mailgun is more than worth the small cost. The main benefits of Mailgun are:

- Improved deliverability of your emails through advanced reputation features like SPF records, domain-keys and reputation monitoring. If all of this sounds Greek to you, don't worry, they handle all of the technical details. You just need to know that they know what they're doing so you don't have to. Whew!
- Email analytics that help you keep track of trends. Through Mailgun, Rock can show you how many of your emails made it to their destination and, even more importantly, how many were opened and internal links clicked. All of this happens for you behind the scenes so you can just sit back and view the reports.
- Not all email addresses work. Mailgun can notify you about incorrect email addresses so you can follow up. These bounced emails will be reported and the person's profile will be flagged to show the incorrect address.
- Mailgun also offers to inline your emails for you as you send.

Costs

As of this writing, Mailgun has a free starter package that generously gives you 5,000 emails a month for your first three months. After that you can pay by the number of emails you send, or purchase a different plan. For full details and up-to-date pricing visit their website. In our experience, Mailgun's pricing has been very competitive and their

features are among the best in their class.

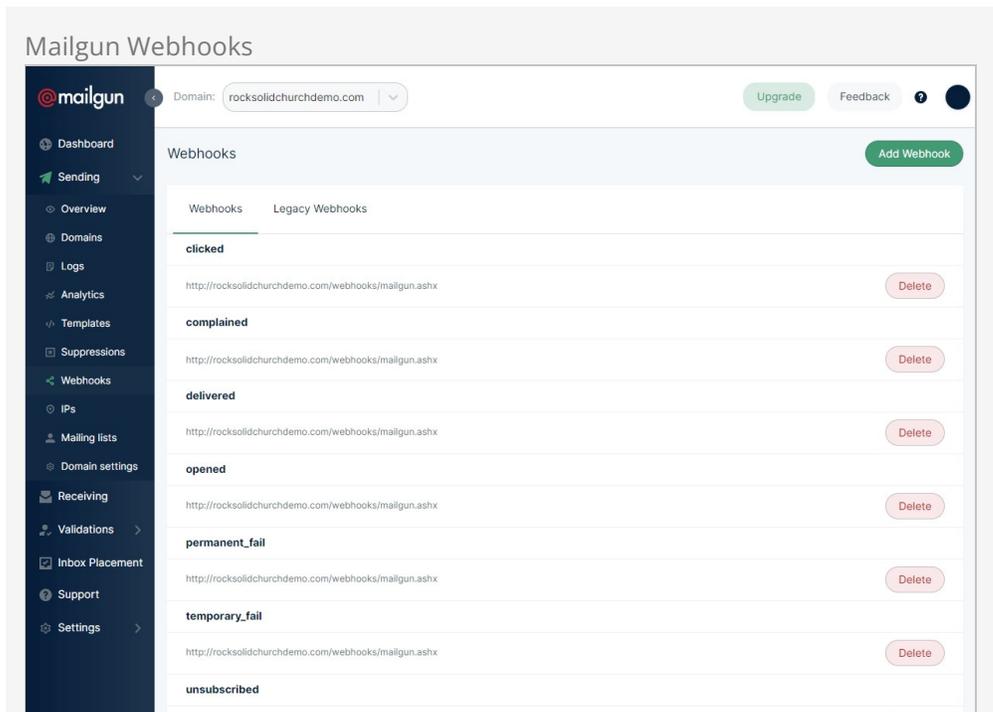
While the starter package will save you money, keep in mind that you will be given a shared IP address with other organizations. In addition to sharing that IP address, you'll share their reputation, and in some cases, their blacklist. If you find that your emails are not always getting through, or if you want to be on the safe side, you might consider purchasing a plan with a dedicated IP address. And if you've already found yourself on a blacklist, Mailgun has provided [documentation](#) about blacklists and how to follow up with their support in the event that you find yourself on a blacklist.

Setting Up Mailgun

Mailgun has spent time making their service easy to configure. Follow the steps below to enable and configure a new Mailgun account for Rock.

1. Sign up for a new account on the [Mailgun website](#).
2. Setup your domain. Mailgun will walk you through the DNS changes that need to be made to ensure the best delivery and spam protection.
3. Once setup is complete, head to the main Dashboard page in your Mailgun account to start collecting what you'll need to get Mailgun set up with Rock.
 - a. In the box near the bottom-right of the Dashboard page, click on the 'API Keys' link. Note the Private API Key, which can be made fully visible by clicking the eye-shaped icon. You'll need this key in a later step.
 - b. Next, head back to the Dashboard and scroll the bottom to see a list of your domains. Click the 'Domain settings' link for a domain. On the new page click the 'SMTP Credentials' tab.
 - c. Under the 'SMTP credentials' heading, note the Login and password. You might need to reset the password.
 - d. On the same page, below the Login information, note the value under 'SMTP Settings' (e.g. smtp.mailgun.org).
4. Take a breather! You're almost done... The last step is to configure the webhooks in the Mailgun admin portal. To do this select 'Webhooks' from the navigation and put [https://\[yourserver.com\]/webhooks/Mailgun.ashx](https://[yourserver.com]/webhooks/Mailgun.ashx) into all of the events under "Webhooks".

The Open and Click tracking options need to be turned on in the domain settings in the Mailgun site. It's located on the tracking section in the Domain Settings page. Once you turn these on, the data will be tracked.



Here's what your webhooks screen should look like once you've got it configured in Mailgun.

(Long-time users of Rock and Mailgun may find that Mailgun has automatically migrated their webhooks to the "Legacy Webhooks" section. That configuration will also work for as long as Mailgun supports the legacy format, but presumably Mailgun will discontinue that at some point in the future - so it's probably best to move the addresses to the "Webhooks" section as shown).

- Let's head back to your Rock server. First, let's enable the Mailgun Transport under

Admin Tools > Communications > Communication Transports > Mailgun HTTP .

Start by checking the Active checkbox. Next, provide the Mailgun private API key from above. Finally, add the domain that you want your email to come from (this must match the domain that was configured in Mailgun).

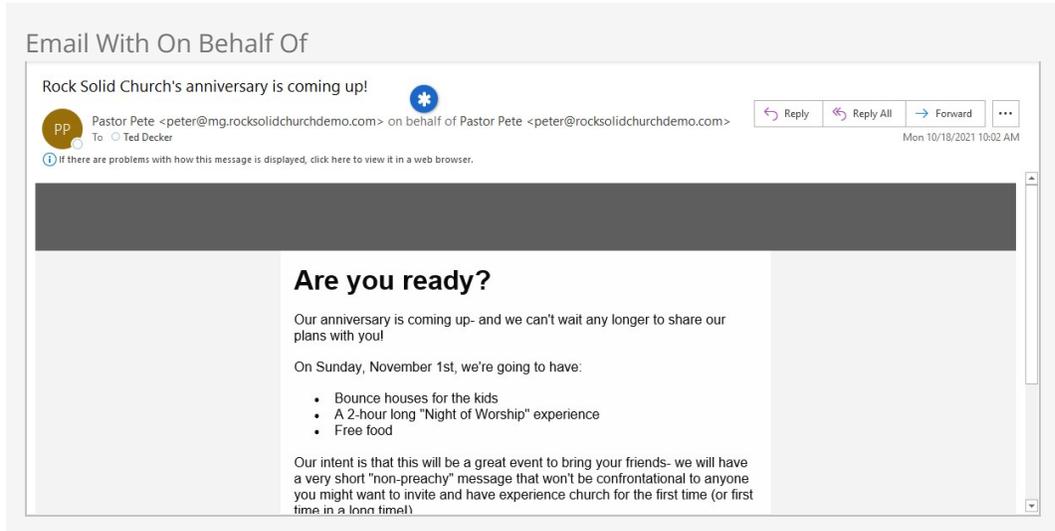
- Last step and we're done. Now that the email transport is configured, we need to tell Rock to use it for the email medium under

Admin Tools > Communications > Communication Mediums > Email .

Select *Mailgun HTTP* under Transport Container.

On Behalf Of

Following the instructions on Mailgun's site may lead to a scenario where your emails are sent "on behalf of" your domain. In short, this happens when the domain of the Sender field and the domain used in the From field are different. For instance, the Sender field would be something like `mg.rocksolidchurchdemo.com` while the From field would be `rocksolidchurchdemo.com`.



In order to resolve this, the domains should match. The domain that you're sending emails from needs to be added to your Mailgun account and verified. In the above example, the domain `rocksolidchurchdemo.com` would need to be configured in Mailgun, and your DNS records (all except MX) would need to be updated accordingly. When you're finished, your domain overview in Mailgun will look similar to the example pictured below.

Mailgun Domain Settings

Domain: rocksolidchurchdemo.com

Overview

Follow these steps to verify your domain

1. Go to your DNS provider

Go to the DNS provider that you use to manage rocksolidchurchdemo.com and add the following DNS records.

Need a step-by-step walk through? Click here

Prefer to watch a video? We got you covered.

Common providers include:

- GoDaddy
- NameCheap
- Network Solutions
- Rackspace Email & Apps
- Rackspace Cloud DNS
- Amazon Route 53
- Digital Ocean

2. Add DNS records for sending

Type	Hostname	Enter This Value	Current Value
TXT	rocksolidchurchdemo.com	v=spf1 include:mailgun.org ~all	v=spf1 include:mailgun.org ~all
TXT	mailo_domainkey.rocksolidchurchdemo.com	k=rsa; p=MIGfMA0GCsg5Tb3DQEBAAUAA4GNADCBIQKbgQC4smXOsGMMpO09BDORVOPbPgG0bTasjgb282BPKgiz3VUqphYonPL62bWnH9UwOpa4X2SaXc5wg8mGgOVVEMWRmXg4JqHLNX78R+h+a4B7zW38Wbr+sXW9vNMpafAj7WJHgGnar+EYqIIOSdbq6r12B+qVfK0Bfzg4A0NuQIDAAQAB	

MX records are recommended for all domains, even if you are only sending messages. Unless you already have MX records for this domain pointing to another email provider (e.g. Gmail), you should update the following records. More info on MX records

Type	Hostname	Priority	Enter This Value	Current Value
MX	rocksolidchurchdemo.com	10	mx.a.mailgun.org	5 myserver.com
MX	rocksolidchurchdemo.com	10	mx.b.mailgun.org	

3. Add DNS records for tracking

Verify DNS settings

The CNAME record is necessary for tracking opens, clicks, and unsubscribes (recommended).

Type	Hostname	Enter This Value	Current Value
CNAME	email.rocksolidchurchdemo.com	mailgun.org	mailgun.org

4. Wait for your domain to verify

Once you make the above DNS changes it can take **24-48hrs** for those changes to propagate. We will email you to let you know once your domain is verified.

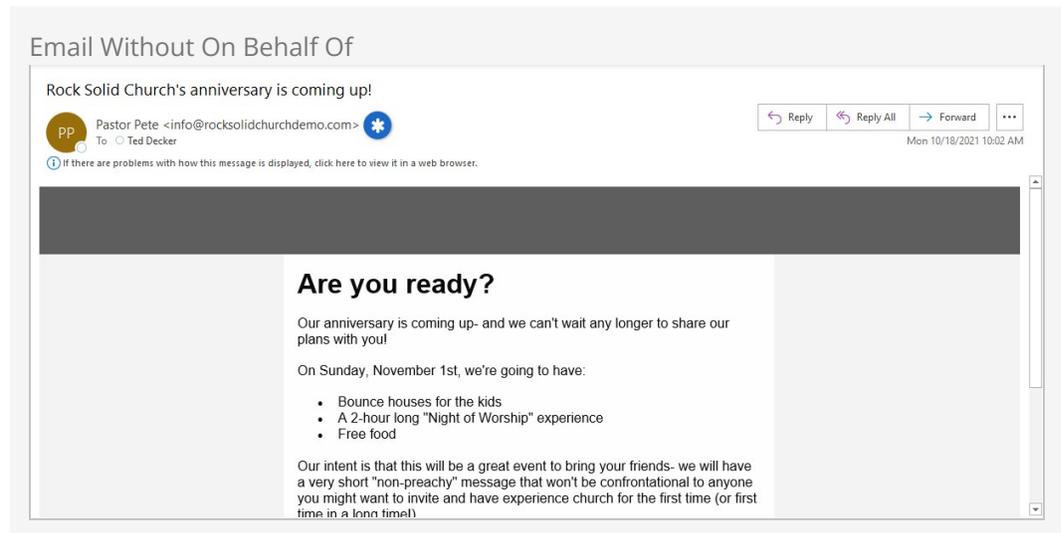
Verify DNS settings

© 2021 Mailgun Technologies, Inc. Terms of Service Privacy Policy Jobs Help center Blog Team Twitter

- SPF Record**
You probably already have an SPF Record, in which case you should just add `include: mailgun.org` to your existing record rather than creating a new one.
- DKIM Record**
You'll create a new TXT record in your existing domain that matches what Mailgun shows here.
- MX Records**
If you're using your actual email domain, you should **not** modify these records. Note that in this screenshot the MX records are unconfirmed, which is expected for this approach.
- CNAME Record**

Mailgun will use the CNAME record to inform Rock of opens and clicks. You'll need to create a new record like Mailgun shows.

Lastly, make sure the new domain is added to your Mailgun Communication Transport configuration under `Admin Tools > Communications > Communication Transports > Mailgun HTTP` per the instructions in the prior section above. With the new domain set up and ready to go, your emails will no longer have the "on behalf of" notation. If you had an old domain that you were using (like `mg.yourserver.com`) it's no longer needed in Mailgun.



SMS: Twilio

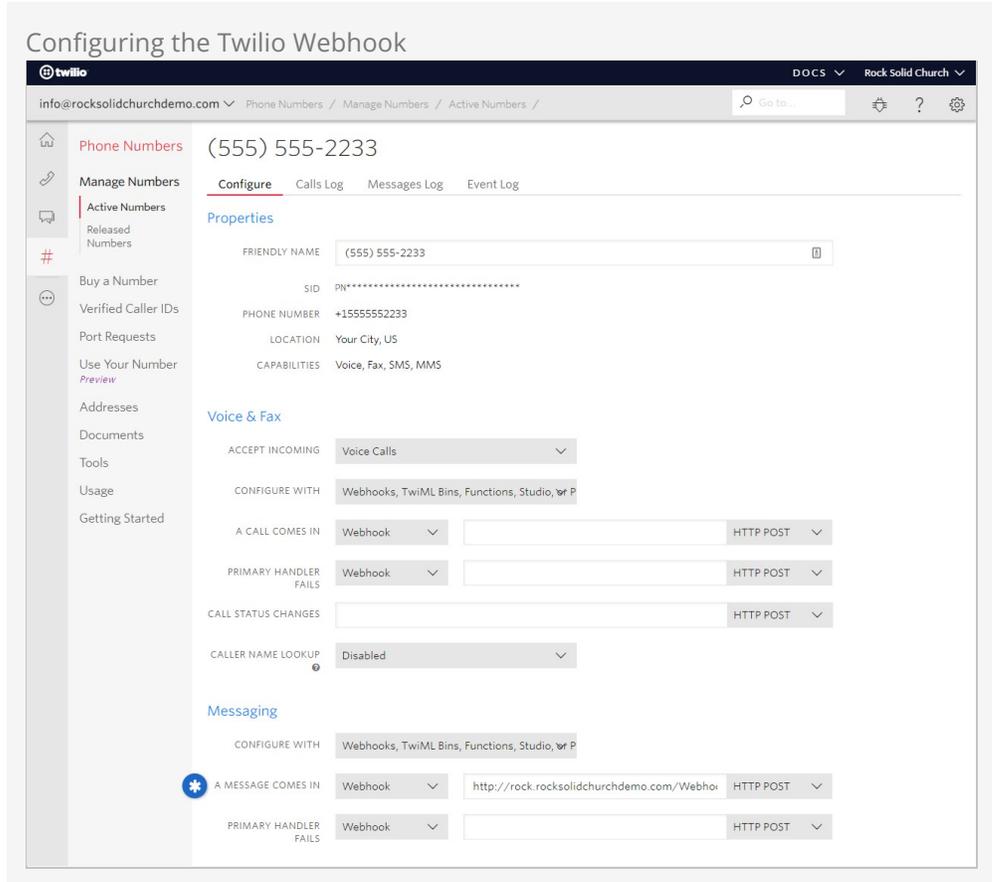
Twilio is the leading SMS provider. Period. They not only provide the best service but they are also one of the least expensive options available. Again, we don't have a relationship with this organization, but we do know a good thing when we see it! Below are instructions on setting up this service for Rock.

1. From the Twilio website click the sign-up link, then provide your account information. You'll then need to verify that you have a pulse by typing in a verification code they text to you. Finally, select a phone number to tie to your account and proceed to your account information.
2. On your account page note your *Account SID* and *Auth Token*. You'll need this for Step 5 below.
3. In order to receive replies from your SMS messages you'll need to provide a 'callback' (aka webhook) address for your SMS number. This tells Twilio how to tell Rock when this event occurs. You can set by clicking 'Numbers' from the main menu, selecting the SMS number you wish to configure, then adding the URL format below to the 'Messaging Request URL'.
`https://-yourserver-/Webhooks/Twilio.ashx`

SMS Pipeline

To set your number up for the SMS pipeline, use the 'Messaging Request URL'

`https://-YourServer-/Webhooks/TwilioSMS.ashx?SmsPipelineId=-YourPipelineId-`



Make It Accessible

It's important that this address be accessible from the Internet so Twilio can access it.

4. Before you can actually use Twilio for real communications, you'll need to upgrade from the free trial.
5. From Rock navigate to `Admin Tools > Communications > Communication Transports > Twilio`. Enter in your *Account SID* and *Auth Token* and activate the transport. Click `Save` when done.
6. Next set the Twilio transport as the default transport for the SMS medium under `Admin Tools > Communications > Communication Mediums > SMS`.
7. Finally, add your Twilio phone number under

You can add as many Twilio numbers here as you wish. Be sure that the phone number is in the *Value* field and that it is in the format of "+15555555555" (or similar for international numbers). You also must set a response recipient to get all of the replies to these numbers. Be sure the individual you select has a valid SMS phone number on their record.

Twilio Signature Validation

When you're setting up your Twilio transport as described above (step 5), you'll have an option to Enable Signature Validation. You'll want to enable this if you're concerned that a system other than Twilio might try to send incoming SMS responses to your Rock server. Enabling this is a small step you can take to possibly avoid a lot of unwanted messages, and it helps keep your data secure.

In short, Signature Validation compares your *Public Application Root* (this is a Global Attribute in Rock) to the webhook that's set in Twilio. If they match, the validation is successful, and the message will come through as usual. If they don't match, then the message won't reach Rock. There's a bit more to it than that, and it gets a little technical, but we strongly recommend checking out the details on Twilio's site so you can get this set up.

That's it! Now you're set to send SMS messages from the Rock communications features.

Twilio's Impact Access Project for Non-Profit Organizations

Twilio offers a \$500 kickstart credit to non-profit organizations. To learn more, visit www.twilio.org.

Twilio, Short Codes and MMS Messages

If you're using a Twilio short code, keep in mind that it doesn't automatically support MMS messages. You can add MMS capabilities for a one-time fee of \$500. This is different than regular "long codes" (phone numbers) where MMS is usually automatically supported.

If you're not sure whether your account supports MMS messaging, check your Twilio Console. If you only see "Capabilities: SMS" and MMS is not listed then it's likely you haven't purchased MMS for your short code.

Email: Google Apps

Note:

GMail is not a commercial Email Delivery Service and has significant limitations on how many messages can be sent per day, how many identical messages can be sent to different addresses, etc. Using GMail as your email delivery service is not a viable solution for most organizations, and should only be used for testing. You will want to implement one of the other email transports discussed in this section for production use.

This technically isn't an integration as much as tips for configuring SMTP Relaying for Google Apps. The basic steps are covered in this link from Google <https://support.google.com/a/answer/2956491?hl=en>. A couple of tips are below.

- The link above notes you will find the relaying settings under the 'Apps' menu setting. That setting appears to have been moved. Instead search for 'SMTP Relay' in the admin search.
- We've found success with the following Google Relay options.
 1. Allowed Senders: Any Addresses
 2. Authentication: Require SMTP Authentication
 3. Encryption: Require TLS encryption
- On the Rock side use the following SMTP settings.
 1. Sever: smtp-relay.gmail.com
 2. Port: 587
 3. Username: The admin account username
 4. Password: The admin account password
 5. Use SSL: Yes

Email: SendGrid

SendGrid is another supported Transport you can use in Rock. Like the other options described above, be sure to evaluate each service before deciding which is the best fit for your organization's needs.

Most of the configuration you'll need to do will be with SendGrid. You can learn more and get started for free by visiting <https://sendgrid.com/>. After you're set up with SendGrid, you'll need to provide the following in Rock:

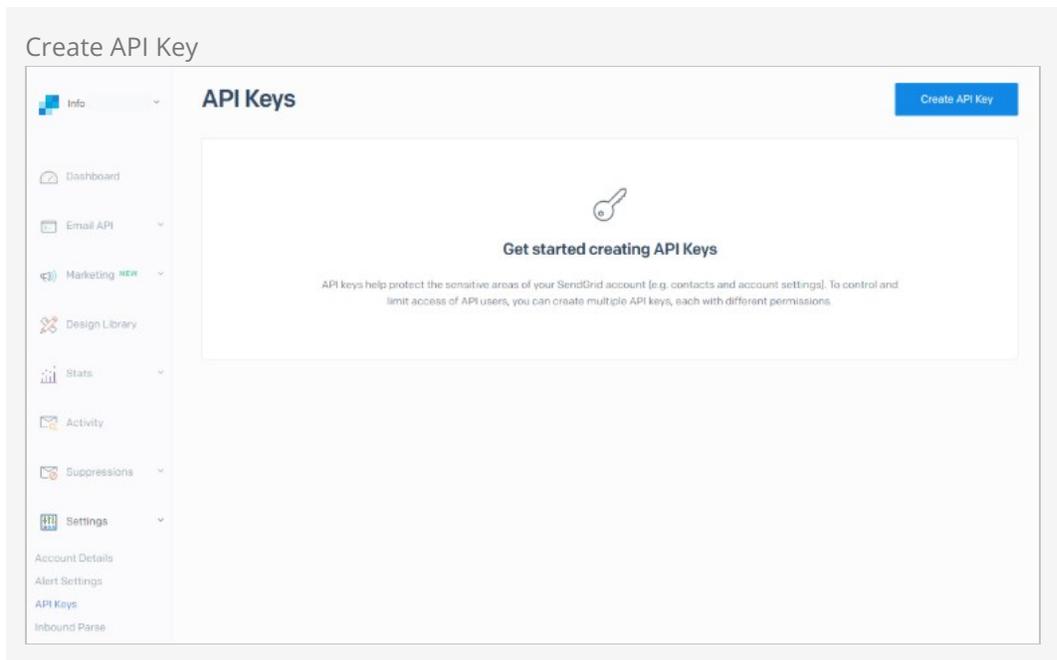
- **Base URL:** The default URL <https://api.sendgrid.com> should work in most cases. You can change this if needed based on your setup in SendGrid.
- **API Key:** SendGrid will provide this when you're set up with their service. This is required for Rock and SendGrid to communicate.

Like other Communication Transports, you can also choose whether SendGrid should track email opens, clicks and unsubscribes. Note that Rock only supports HTTP/S (and not SMTP) for SendGrid.

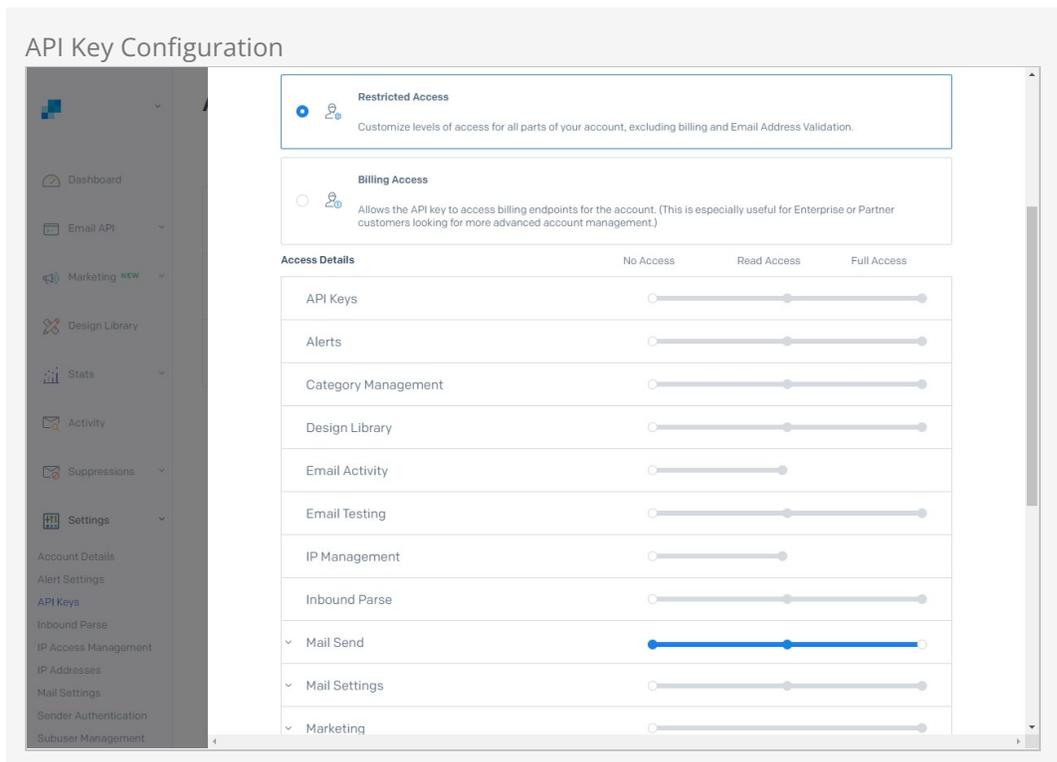
Setting up SendGrid

The first step will be getting your API Key. Log in to your SendGrid account and navigate

to [Settings > API Keys](#) . Click the button for [Create API Key](#) .



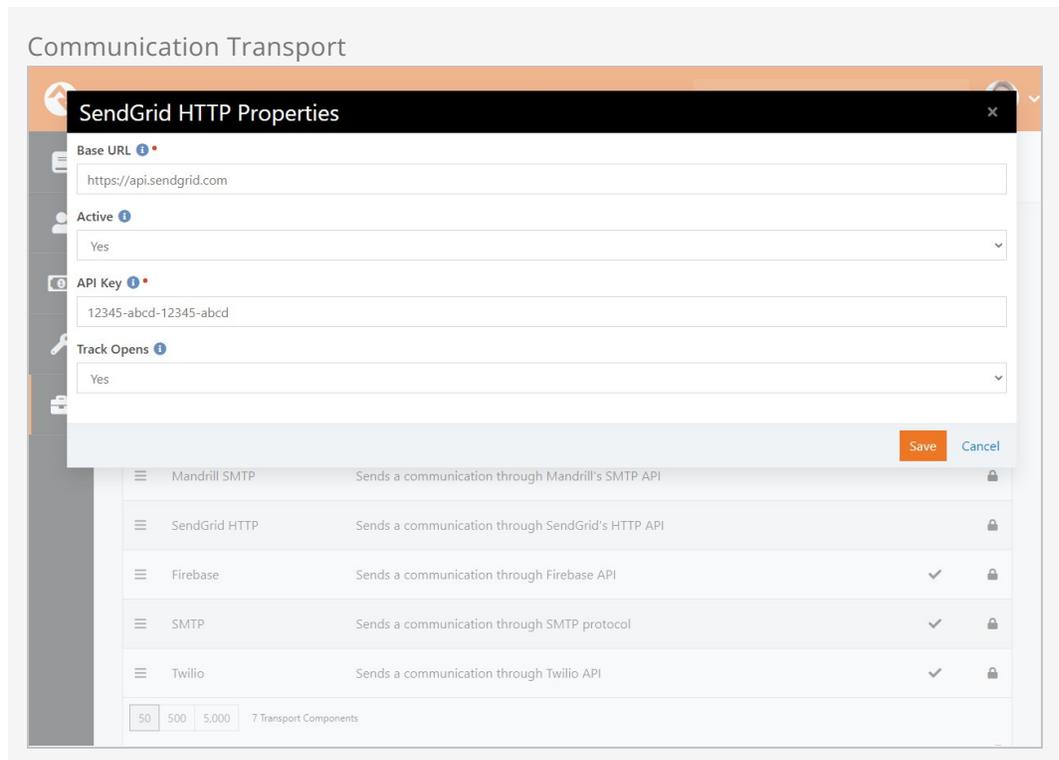
We recommend giving *Restricted Access* permission. Also, make sure *Mail Send* is assigned full access as pictured below.



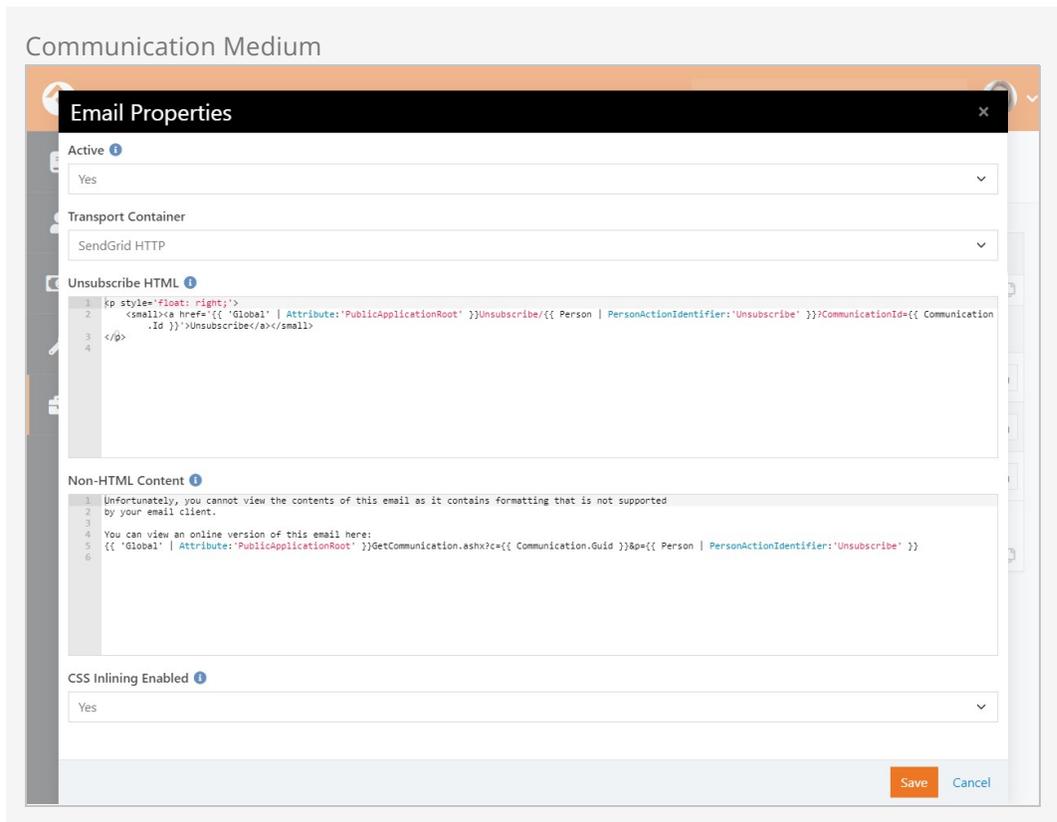
Be sure to copy the API key when it is presented to you. SendGrid warns that you won't see it again, and that's true. If you lose the key you'll have to create a new one.

Once you've got your API key, you'll need to add it to Rock. Inside Rock, navigate to [Admin](#)

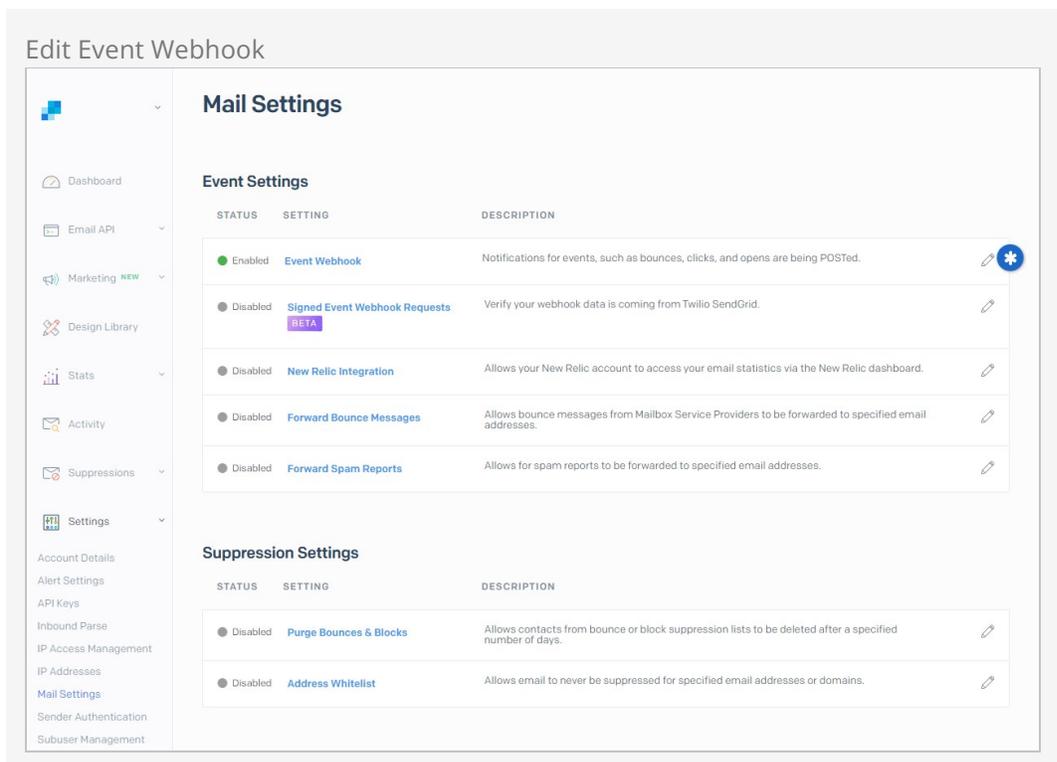
[Tools > Communications > Communication Transport](#) and add the *Base URL* and your *API Key* as pictured below.



Next, you'll need to update the Communication Medium configuration in Rock. Navigate to [Admin Tools > Communications > Communication Mediums](#) and access the *Email* entry. Change the *Transport Container* to the *SendGrid HTTP* transport configured in the prior step.

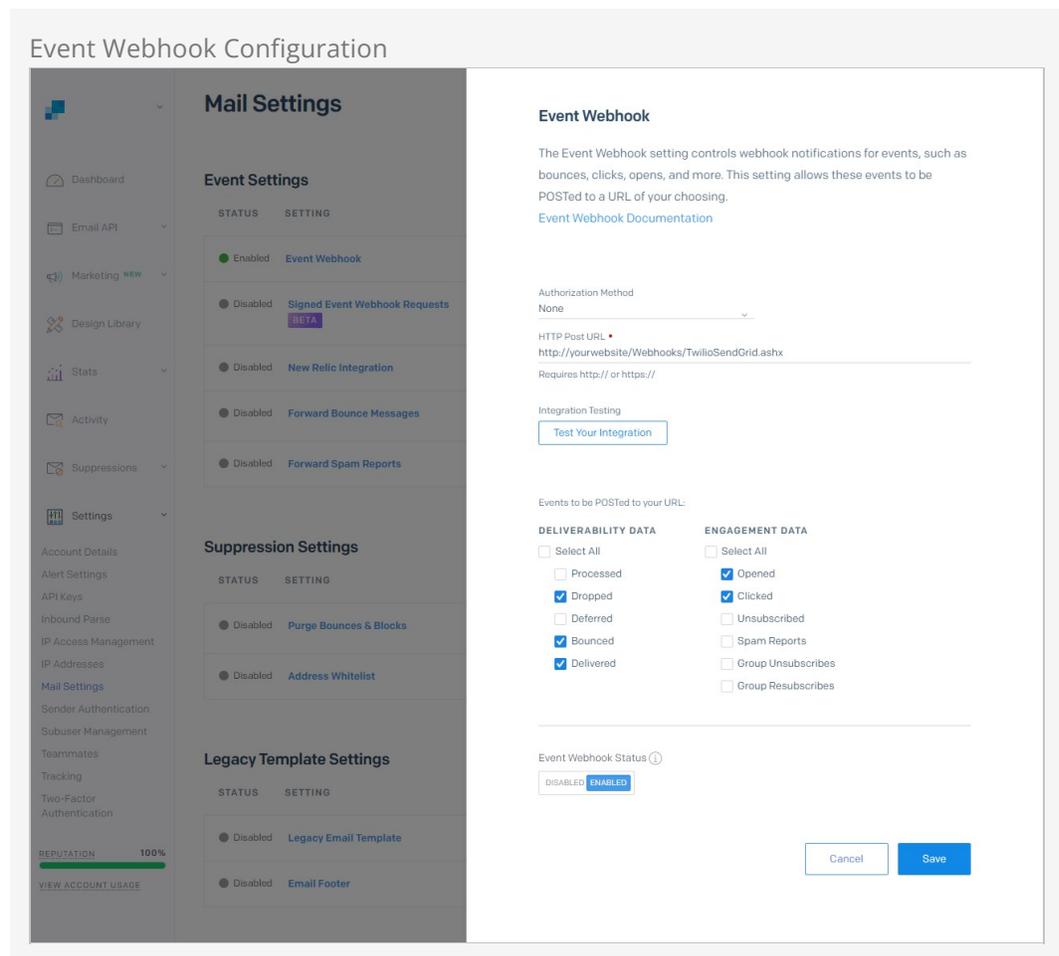


With the above configuration in place, head back over to SendGrid to set up the *Event Webhook*. You can access this in SendGrid under `Settings > Mail Settings > Event Settings`. Click the pencil icon for the *Event Webhook* row to access its settings.



The *Event Webhook* settings in SendGrid will look like those pictured below. The *HTTP*

Post URL will be formatted as shown, with your Rock URL followed by `Webhooks/TwilioSendGrid.ashx`. Twilio owns SendGrid, so don't be concerned about the Twilio part of the webhook.



Note that *Processed* and *Deferred* currently have no functionality in Rock and can be left disabled. Be sure that the *Event Webhook Status* is set to *Enabled* before saving.

To track opens and clicks, you'll want to enable those Tracking options in SendGrid. Under *Settings* click on *Tracking* to enable these options by clicking the pencil icon. The example below shows what the page will look like after open and click tracking has been enabled.

Tracking Settings

STATUS	SETTING	DESCRIPTION
Enabled	Open Tracking	An invisible image is being appended to HTML emails to track if they have been opened.
Enabled	Click Tracking	Every link is being overwritten to track every click in emails.
Disabled	Subscription Tracking	Allows every link to be overwritten to track every Subscription in emails.
Disabled	Google Analytics Tracking	Allows tracking of your conversion rates and ROI with Google Analytics.

REPUTATION 100%

[VIEW ACCOUNT USAGE](#)

Lastly, add your information to the *Sender Authentication* settings. This helps with deliverability. An example of the setup is pictured below, but if you're not sure what you need there's a helpful link at the top of page.

Sender Authentication

- Dashboard
- Email API
- Marketing NEW
- Design Library
- Stats
- Activity
- Suppressions
- Settings
- Account Details
- Alert Settings
- API Keys
- Inbound Parse
- IP Access Management
- IP Addresses
- Mail Settings

Sender Authentication

Sender Identity

The type of Sender Identity you use to send email can impact your deliverability and what your recipients see in their inbox. [Learn more about the differences between Domain Authentication and Single Sender Verification.](#)

Domain Authentication RECOMMENDED

Improve deliverability by proving to inbox providers that you own the domain you're sending from. [Learn more](#)

[Authenticate Your Domain](#)

STATUS	DOMAIN
✔ Verified	rock@rocksolidchurch.org

Single Sender Verification

Verify ownership of a single email address to use as a sender. [Learn more](#)

[Verify a Single Sender](#)

STATUS	DOMAIN
✔ Verified	info@rocksolidchurch.org

Link Branding

Rewrite all tracking links to use the domain you choose - not sendgrid.net. [Learn more](#)

Brand Your Links

You (or a coworker) will need access to your [DNS host](#) to complete this.

Don't be discouraged if your emails aren't popping into inboxes right away. There are a variety of factors that can cause delays ranging from a few minutes to several hours. You can click on the *Activity* menu item in SendGrid to search for emails you've sent and view details on what may be holding them up. Be patient, because sometimes there's a delay between sending an email and seeing it in the *Activity* list.