



blackbaud®
**DEVELOPERS’
CONFERENCE**
June 15–17, 2021

Demystifying Blackbaud SKY®

BLACKBAUD SKY® TRACK

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Blackbaud Core Services



Safe Harbor Statement

This presentation contains forward-looking statements that involve inherent risks, uncertainties and assumptions. It outlines Blackbaud's current plans and general product direction as of the date this presentation was created. Functionality described in this presentation that is not currently available is subject to change at any time, without notice, at Blackbaud's sole discretion. It does not represent a commitment to develop or release specific features within the timeframe discussed, according to the presented design, or at all. Please make any purchase decisions based on features and functionality that are currently available.



Customization of Blackbaud Solutions

As a Blackbaud customer, your Authorized Support Contacts retain the responsibility for providing internal support for Customizations of your Blackbaud solutions by:

- Providing direct support to answer questions regarding Subscription functionality, internal business practices, and troubleshooting processes to Your Non-Authorized Users
- Providing direct support to answer questions regarding Customization specifications, features, intended usage, and Error correction and troubleshooting processes to Your Non-Authorized Users



Janet Wittenberg

Pronouns: She/Her/Her

Product Manager,
Commerce Platform



Kerry Campbell

Pronouns: She/Her/Hers

Product Manager,
SKY UX



Ben Wong

Pronouns: He/Him/His

Product Manager,
SKY Developer



John Vogel

Pronouns: He/Him/His

Product Manager,
Identity & Access

Objectives

- ✓ Clarify Blackbaud SKY® in 2021
- ✓ Explain aspects of the platform that help developers extend various Blackbaud solutions
- ✓ Define key components to achieve success developing apps!

Our Platform Powering Social Good Innovation

In 2015, Blackbaud SKY was announced and set a compass heading for several aspects of functional and technical transformation for Blackbaud products



“

OK, I've heard all of this before.
What is SKY...really?

”

—



Commerce

- Automates, manages and authorizes what our **customers** can purchase and access

Identity & Access

- Authentication & authorization for **users** of Blackbaud's ecosystem

SKY Developer

- Open ecosystem powered with SKY API endpoints, marketplace, and add-ins for **partners and developers**

Shared services

- Shared capabilities with common navigation, notifications, payment processing
- Our transformation to SaaS: cloud operations, continuous deployment

“

How do I know if my product is using
“SKY”?

”

—



It depends...

There are several layers of the platform that are being adopted at different rates in different products.

Ultimately the rate of adoption affects what you can leverage of our developer platform for any Blackbaud product or solution

Today - Learn which extensibility options are available to you

Prerequisites for SKY Developer extensibility:

Blackbaud ID authentication is required for users to interact with a **SKY API application**

At least some pages built with **SKY UX** in the Blackbaud solution are required to leverage **SKY Add-ins**

Product Platform Adoption

	RE NXT	FE NXT	eTapestry	Grantmaking	Altru	Church Management	BBMS	Education Management	JustGiving	BBCRM
Identity										
Access										
SKY API										
SKY UX										
Add-ins										

“

Ok, great. I'm a developer.
How do I use this information?

”

—



Key terms to understand customer data



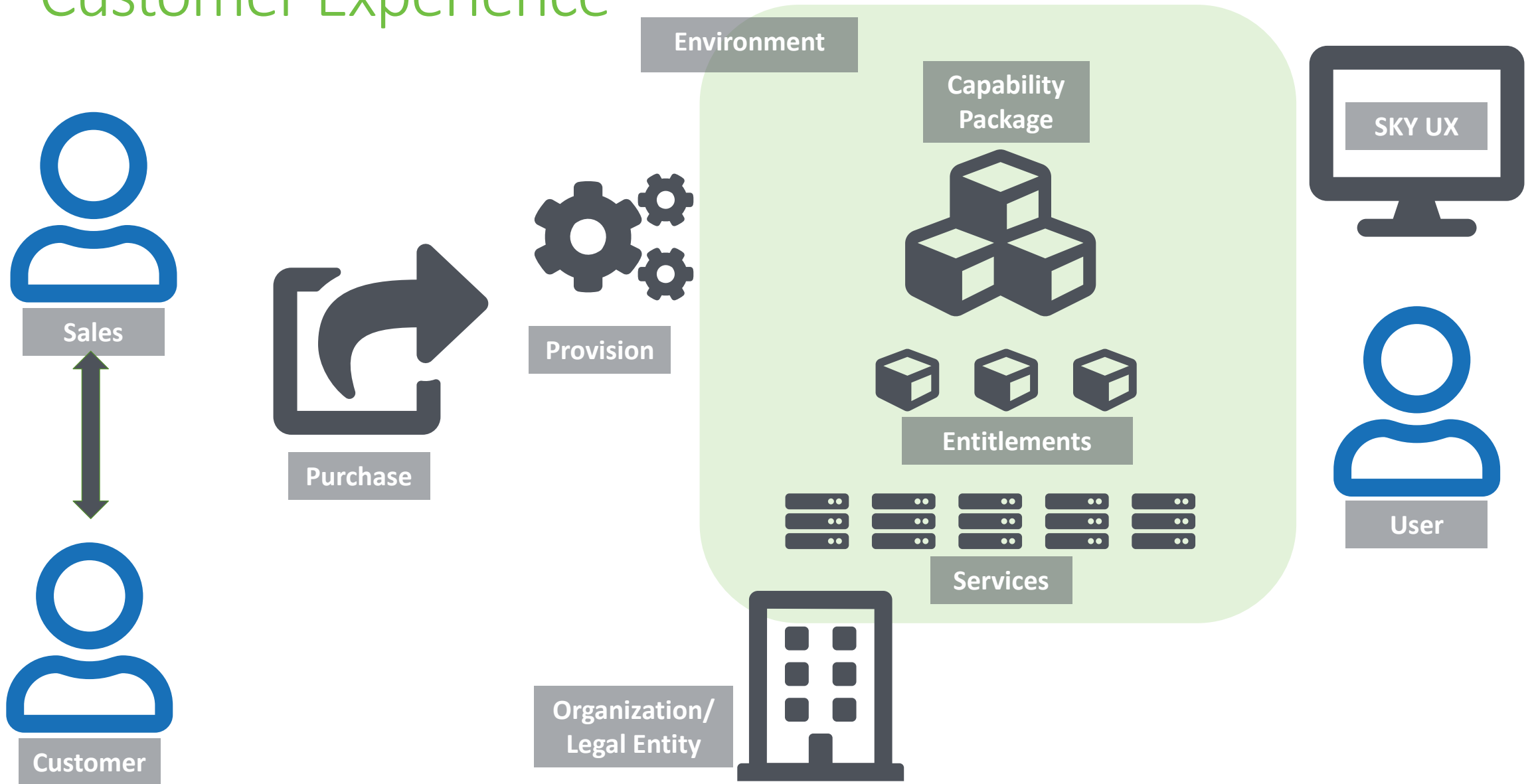
Commerce
Platform

Legal Entity / Organization

Environments

Capability packages

Customer Experience



Customer data model

Organization
(aka Legal Entity)



Save the puppies

Environment

Save the puppies Environment 1



Solutions/Capabilities

Raiser's Edge NXT



Customer data model

Organization
(aka Legal Entity)



Save the puppies

Environment

Save the puppies Environment 1



Raiser's Edge NXT



Financial Edge NXT



Customer data model

Organization
(aka Legal Entity)



Save the puppies

Environment

Save the puppies Environment 1

Save the puppies Environment 2

Solutions/Capabilities



Raiser's Edge NXT



Financial Edge NXT



Financial Edge NXT



Customer data model

Organization
(aka Legal Entity)



Save the puppies

Environment

Save the puppies Production

Save the puppies Test

Solutions/Capabilities



Raiser's Edge NXT



Raiser's Edge NXT



Key components for Identity and Access

Identity
and
Access

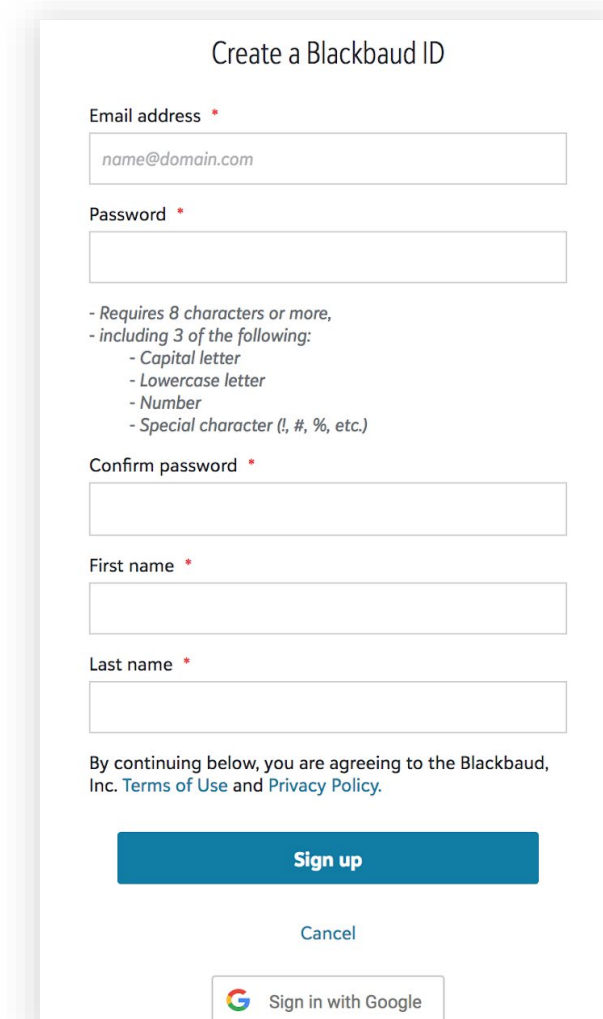
Blackbaud ID

Security

Administrators

What is Blackbaud ID?

- Centralized **authentication, identity** and **session management** providing users with a SSO for the Blackbaud solution ecosystem
- Self-serve **user registration** process to create their account
- **SSO** configuration for federated identity with your identity provider (ex: Azure, Okta, Google)
- Enables **MFA** or further options through an identity provider
- **Social Sign In:** Google Account

A screenshot of a web form titled "Create a Blackbaud ID". The form contains several input fields: "Email address" with a placeholder "name@domain.com", "Password", "Confirm password", "First name", and "Last name". Below the password fields, there are instructions: "- Requires 8 characters or more," and "- including 3 of the following:" followed by a list: "- Capital letter", "- Lowercase letter", "- Number", and "- Special character (!, #, %, etc.)". At the bottom of the form, there is a blue "Sign up" button, a "Cancel" link, and a "Sign in with Google" button with the Google logo.

Create a Blackbaud ID

Email address *

Password *

- Requires 8 characters or more,
- including 3 of the following:
- Capital letter
- Lowercase letter
- Number
- Special character (!, #, %, etc.)

Confirm password *


First name *

Last name *

By continuing below, you are agreeing to the Blackbaud, Inc. [Terms of Use](#) and [Privacy Policy](#).

[Sign up](#)

[Cancel](#)

 [Sign in with Google](#)

Signing in to Blackbaud ID

Users can sign in via 3 methods:

- **Email/Password**
- **SSO**
- **Social**

Use Case

- **Email/Password** users every time
- **SSO** users first time
- **Social** users first time
- Returning **Social** users
- Returning **SSO** users

Display

Sign in


Email address

Password

[Forgot password?](#) Remember my email


Sign in

or

 Sign in with Google

Blackbaud ID

Sign in to continue

 Sign in with Google

[Use a different Blackbaud ID](#)

[Need help? Can't find your product sign-in?](#)

Welcome back

Sign in with

Your Org's SSO Name Here

[Use a different email address](#)

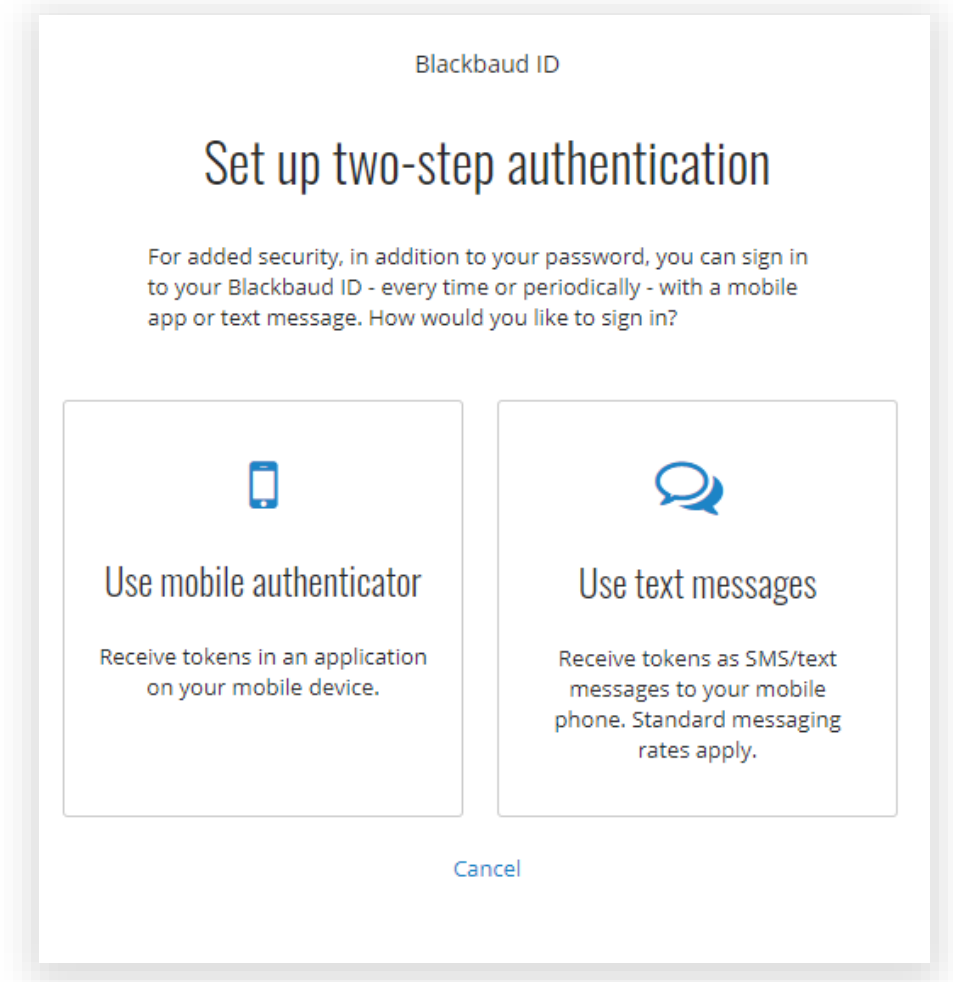
[Need help?](#)

Blackbaud ID and MFA

Having Multi-factor Authentication (MFA) turned on is the greatest single measure to increase the security of an account.

Enabling MFA on a Blackbaud ID account requires verification beyond their email address and password. The verification can be achieved:

- Through a mobile authenticator with biometrics turned on such as fingerprint or facial recognition or time-based, one-time password (TOTP) application such as Google Authenticator, Microsoft Authenticator or Auth0 Guardian
- As SMS/text messages on mobile phone



For a deeper dive please attend [SSO, MFA, Blackbaud ID & Your Org's Security Posture](#) on Wed at 2:15pm

SSO through IdP to Blackbaud ID

If your org has an Identity Provider (IdP), then your Org Admin can create a SSO connection to Blackbaud ID using the options seen below so your colleagues have a single account across applications beyond Blackbaud.



Use Azure AD

Create a connection to your
Azure Active Directory



Use Google G Suite

Create a connection to your
Google G Suite



Use SAML 2.0

Create a connection to your
identity provider with
Security Assertion Markup
Language



Use ADFS

Create a connection to your
Active Directory Federation
Services



Use Okta

Create a connection to your
Okta identity management

For a deeper dive please attend [SSO, MFA, Blackbaud ID & Your Org's Security Posture](#) on Wed at 2:15pm

Admin model

Organization
(aka Legal Entity)



Save the puppies

Org Admin

- Full access to Admin Console
 - SSO w IdP
 - Invite users to the org

Environment

Save the puppies Environment 1

Environment Admin

- Full access to all Solutions in Environment
 - Can do anything a Solution Admin can do

Solutions/Capabilities



Raiser's Edge NXT



Financial Edge NXT

Solution Admin

- Full access to a Solution

Admin Access

	Org Admin	Environment Admin	Solution Admin
Access to Admin Console	✓		
Manage Authentication	✓		
Add new Users to Org	✓		
Add/Edit Org Admins	✓		
Add Environment Admins	✓	✓	
Edit Environment Admins		✓	
Access to Solution Security		✓	✓
Add/Edit Solution Admins		✓	✓
Add/Edit User Access to Solutions		✓	✓
Add/Edit User Roles for Solutions		✓	✓

Admin access within navigation



All Blackbaud ID Users have access to their User Profile

The screenshot shows a user profile page with a navigation menu on the left. The menu items are: User Profile, Personal, Organizations, Raiser's Edge NXT, Financial Edge NXT, Grantmaking, Church Management, Education, Marketplace, and Admin. Annotations include:

- Environment Admin** (blue box) pointing to Raiser's Edge NXT, Financial Edge NXT, Grantmaking, Church Management, and Education.
- Solution Admin** (orange boxes) pointing to each of the five solution items.
- Org Admin** (green box) pointing to the Admin item.

The main content area shows the user's name, email address (John.Vogel@blackbaud.com), and an "Edit name" button. A note at the bottom states: "You can't edit your email when using your organization's authentication."

Org Admin

The screenshot shows the 'Users and Admins' page with a navigation bar containing 'Admin', 'Home', 'Users and admins', 'Authentication', and 'Settings'. A blue badge indicates 'Users 270'. Below the header, there is a search bar with 'john.vogel' and a search icon. A table with columns 'User summary', 'Email address', and 'Status' is partially visible. A green box highlights the 'Add user' and 'Add admin' buttons. A green arrow points from the 'Add admin' button to a modal window titled 'Add admin'. The modal contains fields for 'Name' and 'Email', a section for 'Admin roles' with a checked checkbox for 'Make organization admin', and 'Send invite' and 'Cancel' buttons.

The screenshot shows the 'Authentication settings' page with a navigation bar containing 'Admin', 'Home', 'Users and admins', 'Authentication', and 'Settings'. The page title is 'Authentication settings' and the account name is 'Test Account - RDO - PO Testing Only - 1'. It shows 'Single sign-on' is 'Inactive'. A green box highlights the 'Manage SSO settings' button. Below the button, there is a note: 'You can connect Blackbaud ID to your organization's Identity Provider (IdP) to manage your users.'

The screenshot shows the 'Environments' page with a navigation bar containing 'Admin', 'Home', 'Users and admins', 'Authentication', and 'Settings'. A dropdown menu is open under 'Settings', showing 'Environments', 'Merchant accounts', and 'Branding'. The page title is 'Environments'. It lists two environments: 'Save the Whales' (Production) and 'Env Mgt'. The 'Save the Whales' environment has '39 Environment admins'. The 'Env Mgt' environment has '2 Environment admins'. A green box highlights the 'Invite environment admin' button in a modal window that appears over the 'Env Mgt prod' environment card.

Environment Admin

Security

Users 456 Roles 7

Add user Columns john.vogel

Name	Email	Status	Marketing	Analysis
John				Raiser's Edge

Make environment admin

Raiser's Edge NXT Make solution admin 0 roles

Financial Edge NXT Make solution admin 0 roles

Analysis Financial General ledger Security groups

Security

Users 456 Roles 7

Raiser's Edge NXT roles

Financial Edge NXT roles

Analysis roles Show inactive roles

- View Only Analyst

Financial roles Show inactive roles

- General Ledger Manager

General ledger roles Show inactive roles

- Stats Controller

Solution Admin



The screenshot displays the Raiser's Edge NXT Solution Admin interface. At the top, a navigation bar includes 'Raiser's Edge NXT', 'Home', 'Fundraising', 'Marketing', 'Events', 'Lists', 'Analysis', 'Tools', and 'Control panel'. The main content area is titled 'Security' and shows 'Users 456' and 'Roles 7'. An orange box highlights the 'Roles 7' link, with an arrow pointing to a detailed view of the 'Security' page. This detailed view shows 'Users 456' and 'Roles 7', followed by 'Raiser's Edge NXT roles'. Below this, there are sections for 'Analysis roles' and 'Events ro'. A table below shows columns for 'Name', 'Email', 'Status', 'Marketing', 'Analysis Raiser's Edge NXT', 'Events', 'Fundraising', 'Tools', and 'Security groups'. An orange box highlights the 'Add user' button, with an arrow pointing to a user configuration modal. The modal includes a 'Make solution admin' checkbox and several role selection panels: 'Analysis', 'Events', 'Fundraising', 'Settings', 'Tools', and 'Security groups'. The 'Security groups' panel has a 'Link to existing user' button.

Key components for development



SKY API

SKY UX

SKY Add-ins

Marketplace

SKY Developer

The toolset to extend, customize, and contribute to the capabilities available on Blackbaud SKY, including:

SKY API®

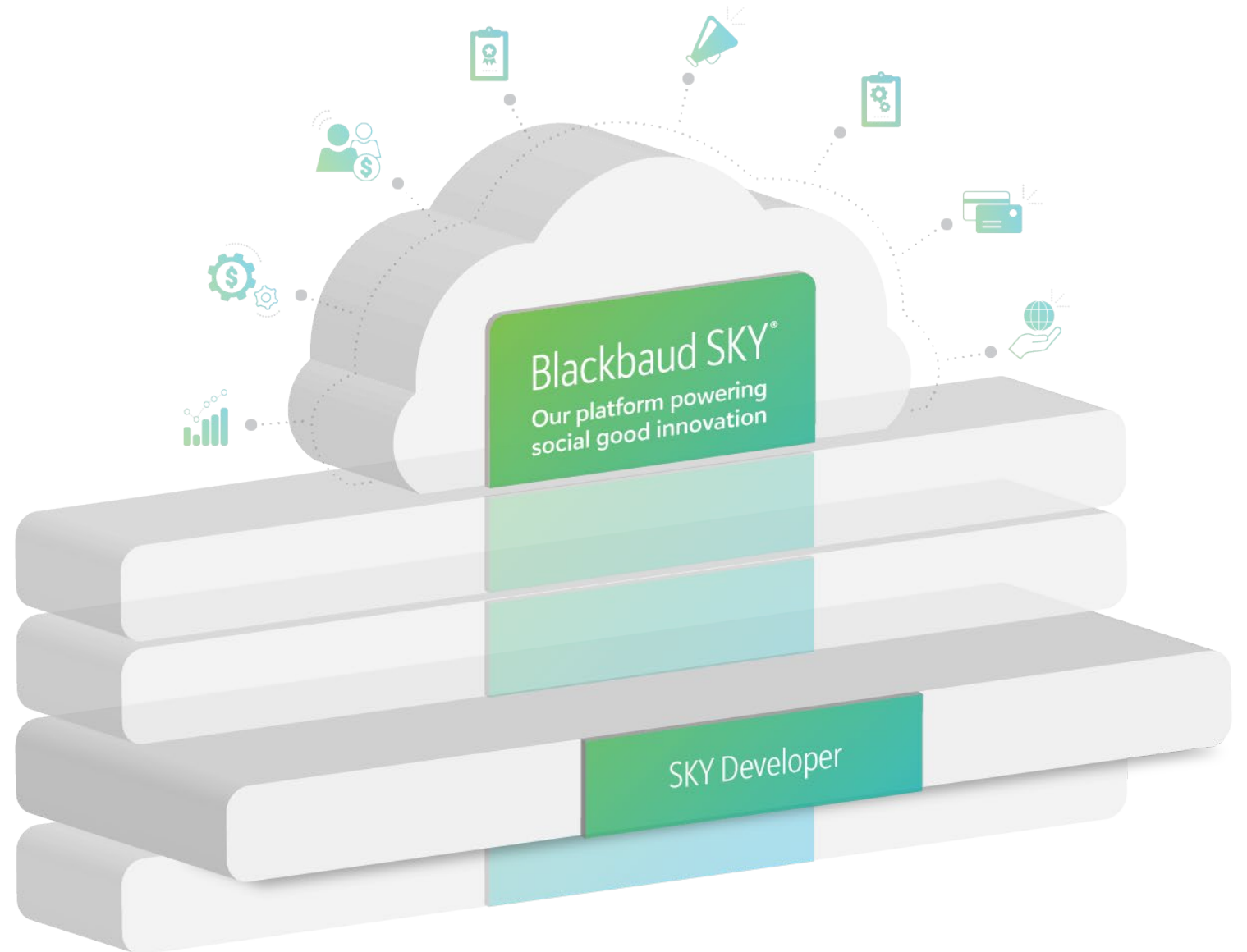
Open, industry-standard REST APIs

SKY Add-Ins™

Enables contextual experiences in Blackbaud solutions

SKY UX®

Open source, full component library



SKY Developer Portal





The SKY Developer Portal is a valuable resource to help developers get started on their journey and manage their SKY applications.


Developer Documentation ▾ Developer account ▾ Support ▾ Status


Q Sign in

► Make good be even better.

 Sign up
Create a SKY Developer account to connect your applications to Blackbaud solutions.

 SKY API®
Discover more about the SKY API endpoints and access the interactive API console through your browser.

 SKY Add-ins™
Extend the Blackbaud user experience by embedding contextual UI components within our solutions.

 SKY UX®
Blackbaud's next-generation user-experience framework brings a consistent, cohesive experience to your applications.

<https://developer.blackbaud.com>

SKY API

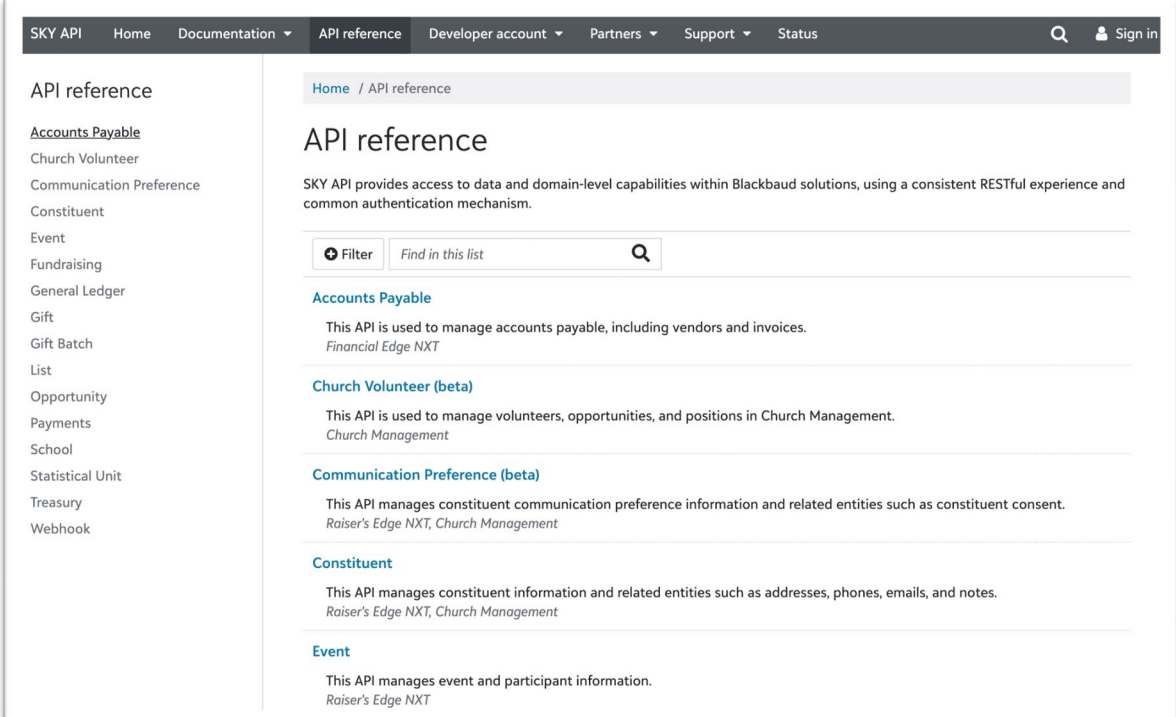
Enables customizations and integrations



APIs named by capability/domain

SKY APIs are not named by product but capability or domain.

This was an intentional choice to support the vision that one API could be compatible with multiple Blackbaud solutions.



The screenshot displays the SKY API reference page. The navigation bar includes links for SKY API, Home, Documentation, API reference (selected), Developer account, Partners, Support, and Status. A search icon and 'Sign in' link are also present. The main content area is titled 'API reference' and includes a breadcrumb 'Home / API reference'. Below this, a search bar with a 'Filter' button and a search icon is shown. The page lists several APIs, each with a description and associated product information:

- Accounts Payable**: This API is used to manage accounts payable, including vendors and invoices. *Financial Edge NXT*
- Church Volunteer (beta)**: This API is used to manage volunteers, opportunities, and positions in Church Management. *Church Management*
- Communication Preference (beta)**: This API manages constituent communication preference information and related entities such as constituent consent. *Raiser's Edge NXT, Church Management*
- Constituent**: This API manages constituent information and related entities such as addresses, phones, emails, and notes. *Raiser's Edge NXT, Church Management*
- Event**: This API manages event and participant information. *Raiser's Edge NXT*



What solutions are represented by SKY API?

Available on SKY API

Raiser's Edge NXT

Financial Edge NXT

Education Management

Church Management

Blackbaud Merchant Services

Other...

Blackbaud CRM

Altru

Luminate Online/TeamRaiser

eTapestry

Blackbaud Grantmaking

JustGiving

Where can I find the documentation for the other APIs?

<https://developer.blackbaud.com/skyapi/docs/applications/blackbaud-apis>

Non-SKY APIs

The following Blackbaud solutions are not contained within the SKY ecosystem. To go to the solution's API documentation, use the links below.

Blackbaud CRM

Learn how to extend, customize, and integrate with Blackbaud CRM.

Blackbaud Grantmaking

Grantmaking API documentation, including SDK references and a sample project.

Blackbaud Internet Solutions

Customize Internet Solutions through the use of .NET assemblies, REST APIs, and JavaScript SDKs.

Blackbaud Luminate Online

REST endpoints to integrate content in your site, as well as creating custom content and forms.

Blackbaud ON Products

Programmatic access to your Blackbaud ON product data through a REST-based API.

eTapestry

eTapestry developer information, including technical details, sample code, and more.

JustGiving

Create innovative, custom-built applications using JustGiving's content and data store.

Applications

Applications can be registered in the SKY Developer Portal.

Registering the application will provide the developer with an Application ID and Secret used for the *client_id* and *client_secret* in the OAuth 2.0 flow when using SKY API.

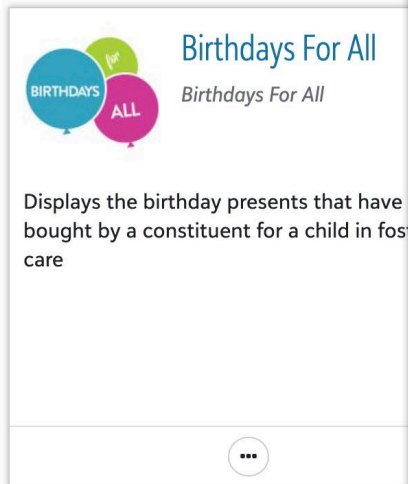
An application must be registered to appear in the Blackbaud Marketplace.

Home / Developer account / My applications

My applications

+ Add

7 applications



Birthdays For All
Birthdays For All

Displays the birthday presents that have been bought by a constituent for a child in foster care

Add application

The information you enter below will be visible to administrators when they connect your application to their Blackbaud environment.

Application name *

Application details *

Organization name *

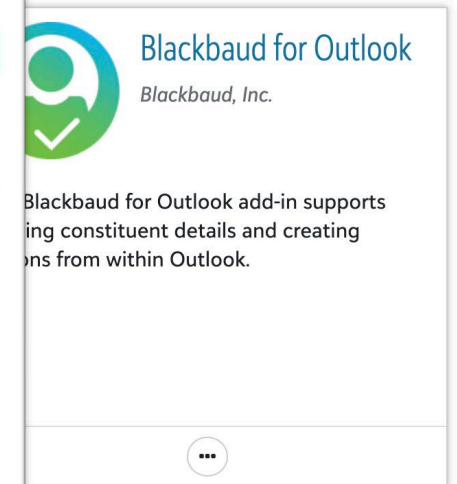
Application logo

Drag a file here
or click to browse

The image must be a .jpeg or .png file, 512 pixels by 512 pixels, and smaller than 2MB.

Application website URL *

Save Cancel

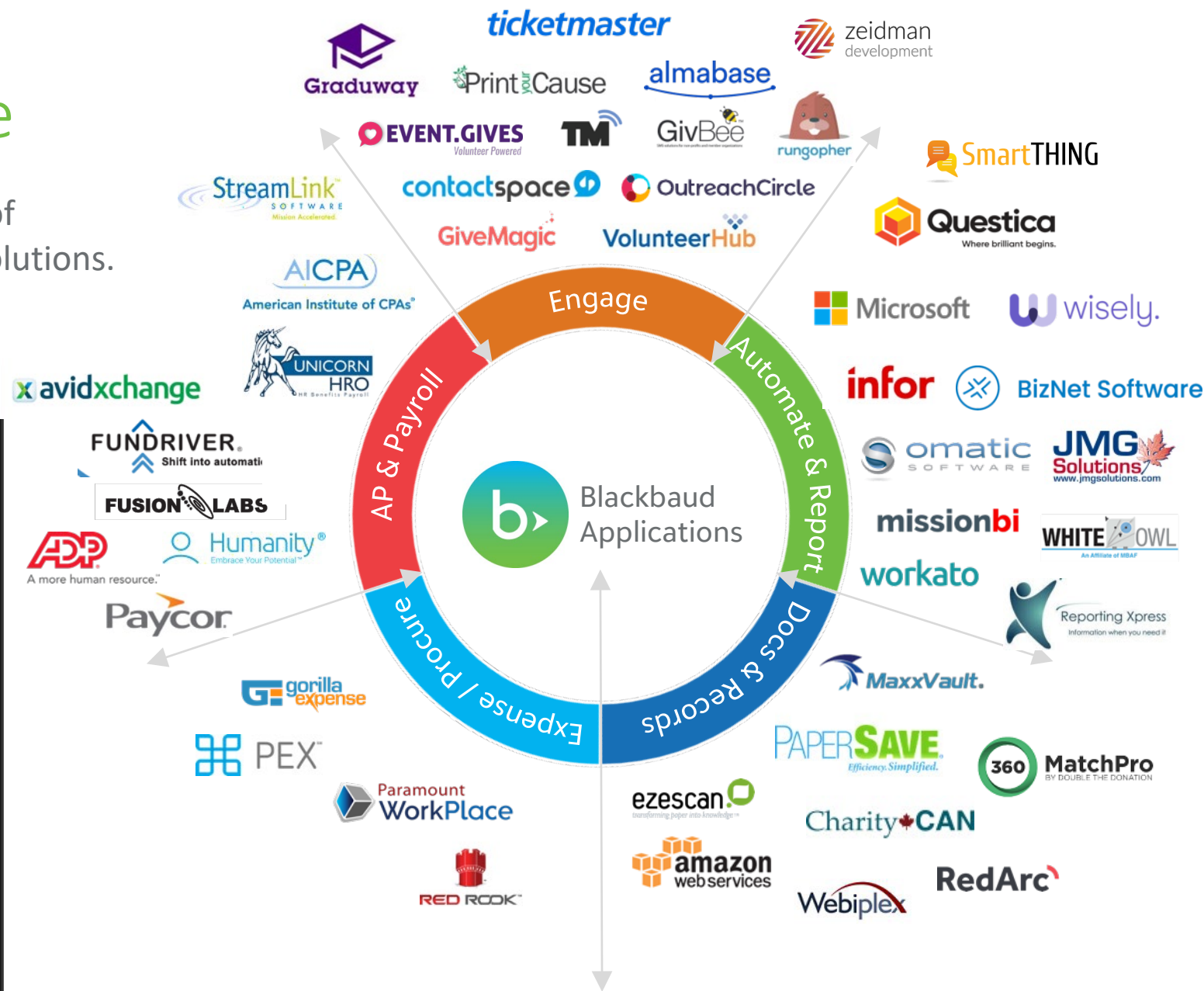
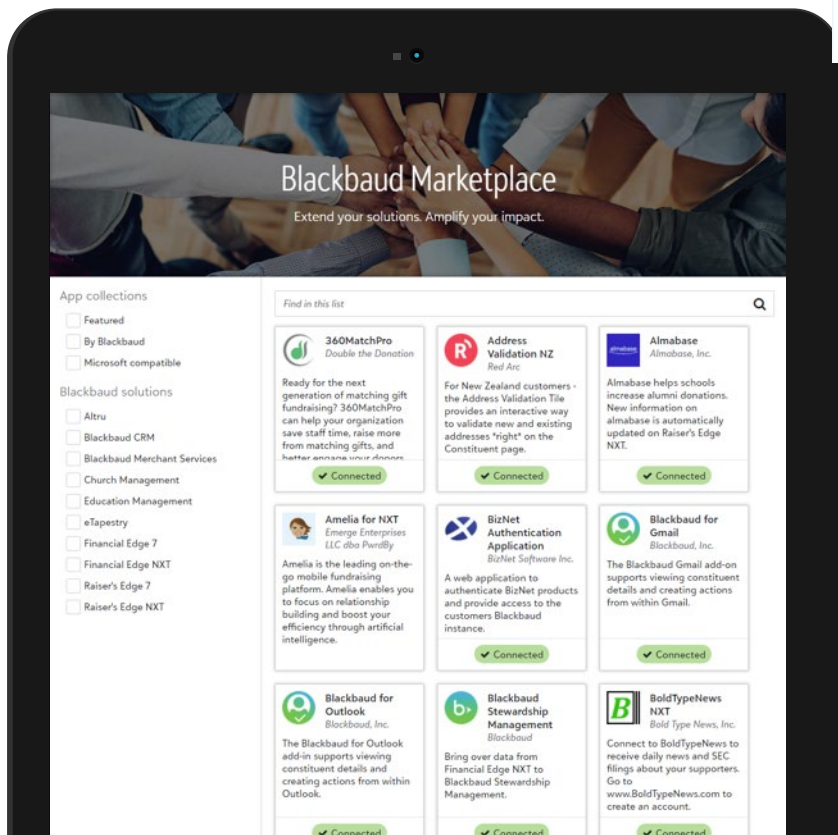


Blackbaud for Outlook
Blackbaud, Inc.

Blackbaud for Outlook add-in supports viewing constituent details and creating actions from within Outlook.

Blackbaud Marketplace

The **Blackbaud Marketplace** is a curated list of Partner apps that integrate with Blackbaud solutions.

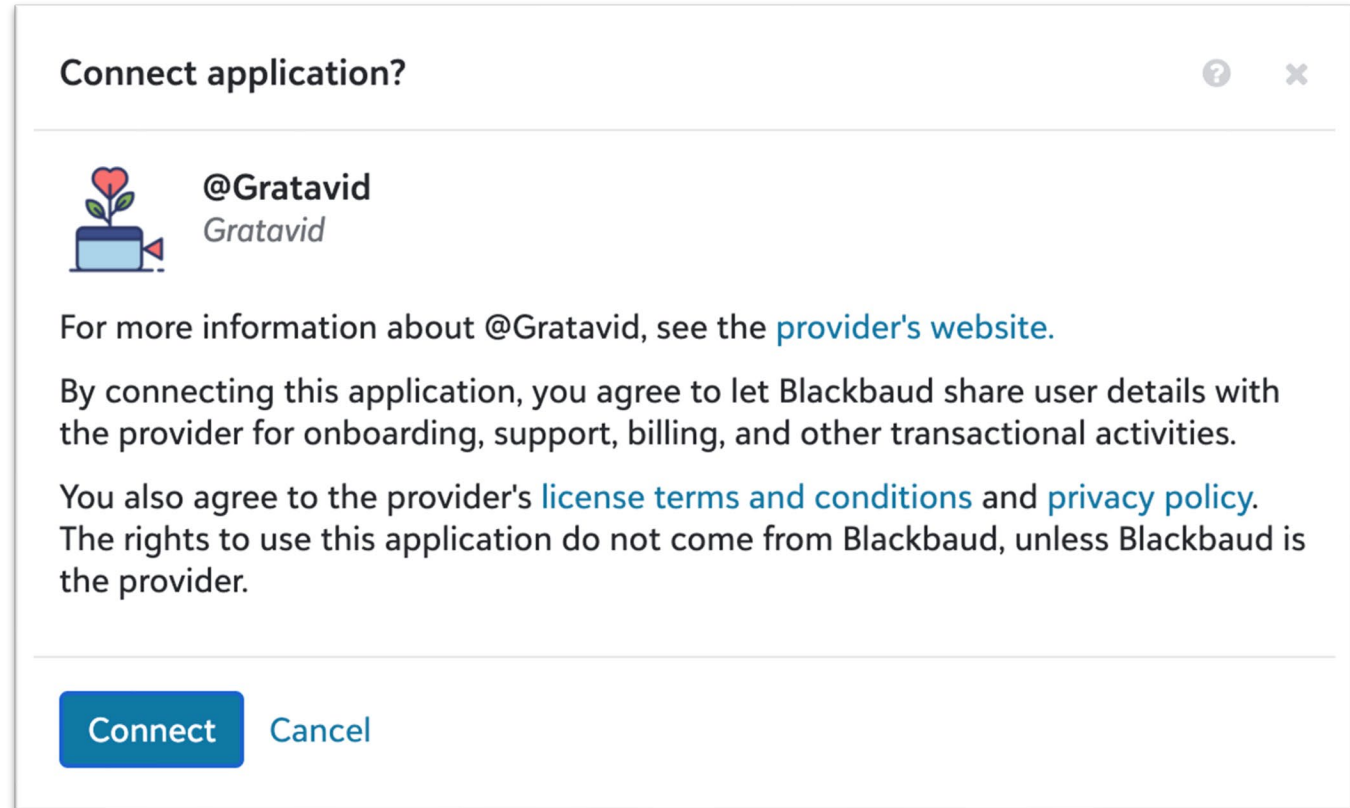


What does “Connect” actually do?

The “Connect” button connects the app to the customer environment which enables the OAuth 2.0 flow and SKY API calls to be authorized.

Apps can be connected via the Marketplace listing or with the Application ID.

Environment admin is required to connect apps.





Personas involved for providing the app access to data



Developer

Creates the app



Environment Admin

Connects the app

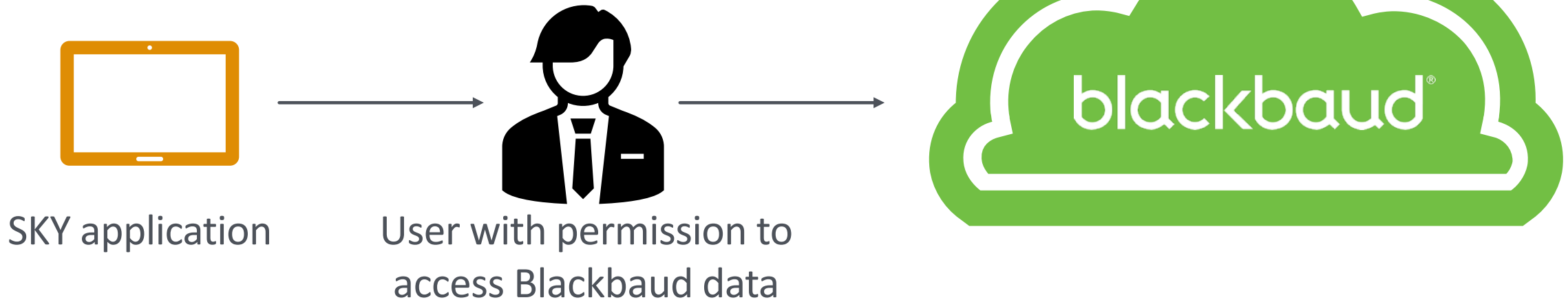


User

Authorizes the app

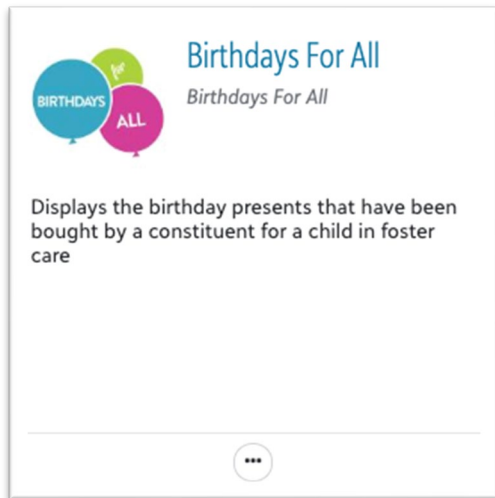
SKY API Authorization

SKY API uses OAuth 2.0 protocol to authorize API requests without exposing user credentials to the application.

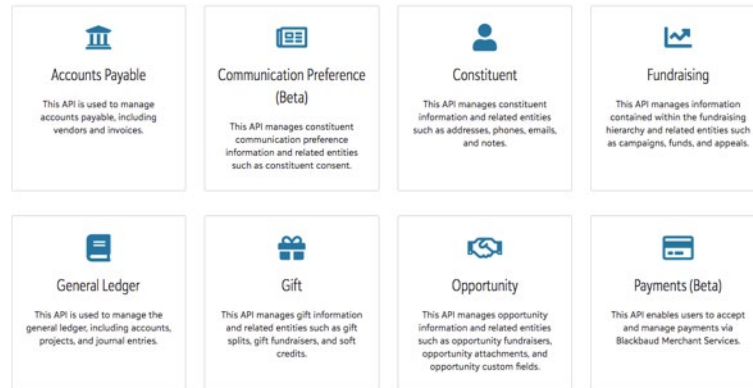


OAuth “environment” level consent

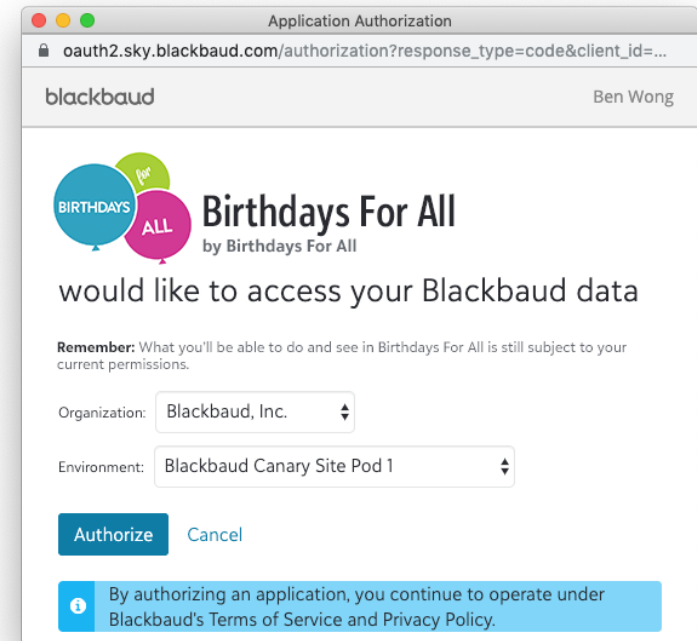
One application...



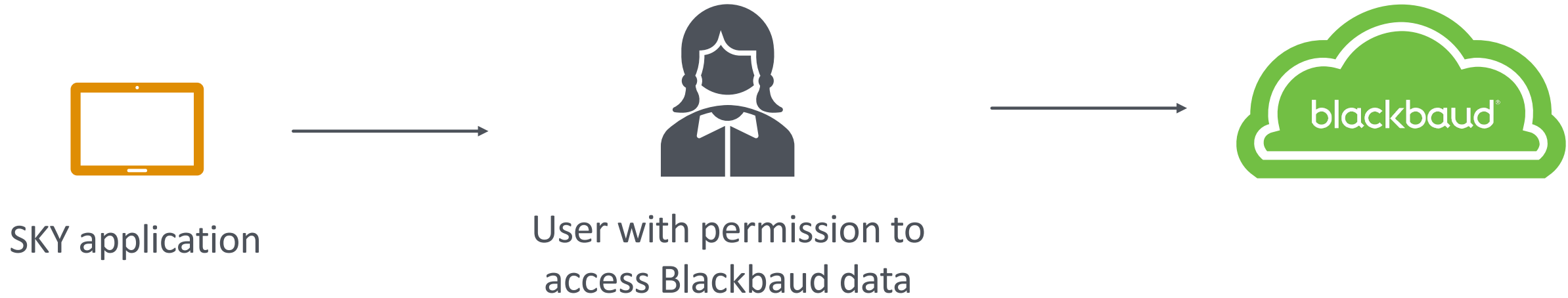
...calling many APIs...



...single “environment” level consent



API calls authorized in context of the consenting user



Security

<input type="checkbox"/>	Make environment admin	<i>Environment admins can access all products and all product features in this environment.</i>	
<input type="checkbox"/>	Raiser's Edge NXT	Make solution admin <i>Solution admins can access all product features in this environment.</i>	4 roles <input type="button" value="v"/>
<input type="checkbox"/>	Financial Edge NXT	Make solution admin <i>Solution admins can access all product features in this environment.</i>	0 roles <input type="button" value="v"/>
<input type="checkbox"/>	Education	Make solution admin <i>Solution admins can access all product features in this environment.</i>	0 roles <input type="button" value="v"/>
<input type="checkbox"/>	Payments API	Make solution admin <i>Solution admins can access all product features in this environment.</i>	0 roles <input type="button" value="v"/>

What APIs can be used?

Some APIs require the environment to have a particular solution of capability package.

We have future plans to provide more visibility into the details of what solutions/capability packages the environment contains.

The screenshot shows the SKY API reference page. The navigation bar includes links for Home, Documentation, API reference, Developer account, Partners, Support, and Status. The main content area is titled 'API reference' and lists several API categories with descriptions:

- Accounts Payable**: This API is used to manage accounts payable, including Financial Edge NXT.
- Church Volunteer (beta)**: This API is used to manage volunteers, opportunities, and Church Management.
- Communication Preference (beta)**: This API manages constituent communication preferences. Raiser's Edge NXT, Church Management.
- Constituent**: This API manages constituent information and related Raiser's Edge NXT, Church Management.
- Event**: This API manages event and participant information. Raiser's Edge NXT.

A 'Filter by product' modal is open, showing a search bar with the text 'Find in this list' and a magnifying glass icon. Below the search bar are buttons for 'Select all', 'Clear all', and a checkbox for 'Only show selected items'. The modal lists the following products with checkboxes:

- Blackbaud Merchant Services
- Church Management
- Education Management
- Financial Edge NXT
- Raiser's Edge NXT

At the bottom of the modal are 'Select' and 'Cancel' buttons.

A woman with curly hair, wearing a blue denim shirt, is smiling and gesturing with her hands while presenting a laptop. A transparent, floating window displays a modern web application interface with various components like cards, buttons, and text. The background shows a blurred office or meeting room with other people.

SKY UX[®]

Open-source UX Framework for
modern and consistent design

SKY UX

Open source UX toolset to create applications that adhere to the SKY UX principles and patterns.

The image shows two overlapping screenshots of the SKY UX design toolset. The top screenshot, titled "Components", lists four key UI elements: Action button, Alert, Autocomplete, and Avatar, each with a brief description of its function. The bottom screenshot, titled "Design", lists four core design elements: Principles, Guidelines, Styles, and Resources, each with a brief description of its role in building user interfaces.

Components

SKY UX components, available as Angular components, services, and modules, allow developers to easily create user interfaces that incorporate our styles and patterns. Angular is at the heart of SKY UX, so it is important you are familiar with it before you get started.

Find in this list

- Action button**
The action button component creates a large button with an icon, heading, and details.
- Alert**
The alert component displays a SKY UX-themed alert.
- Autocomplete**
The autocomplete component creates a text input that filters data based on user entries.
- Avatar**
The avatar component displays an image and allows users to change the image.

Design

SKY UX components are assembled from a small set of core design elements. These design elements act as the building blocks for components and allow you to build user interfaces that incorporate SKY UX styles and patterns.

- Principles**
Instructions on how to consistently design for specific scenarios.
- Guidelines**
Instructions on how to consistently design for specific scenarios.
- Styles**
Core design elements that provide the building blocks for SKY UX components.
- Resources**
Design resources to help make prototyping more efficient and accurate.

The image shows a screenshot of the Financial Edge NXT application interface. The top navigation bar includes "Financial Edge NXT", "Home", "General ledger", "Payables", "Treasury", "Fixed assets", "Reporting", "Analysis", and "More...". The main content area is titled "Bank accounts" and displays a table of "Bank feeds" with 6 records. A detailed view of the "Payroll Account" is shown on the right, including its ID, status, and balance.

Bank accounts

Bank feeds

6 Records

Account	Account ID	Type
Student Billing & Accounts Receivable	SB & AR	Checking
Operating Account	Operating	Checking
Other Operating	Other Operating	Checking
Payroll Account	Payroll	Checking
Twelfth Bank Checking	Checking2	Checking
Faust Savings	Faust CD	Other

Payroll Account

ID: Payroll
Checking Active Reconciled: 03/31/2014
\$0.00
Current balance
Account #: 238743987 Routing #: 123456780
Minimum balance: \$0.00 Reconciled balance: \$0.00
Ending balance: \$0.00

Bank details ✓
Adjustment categories 2
Notes
Subledger settings ✓
History ✓
Pay invoices



Legacy to Modern Cloud

Joseph P. Diresta

File Edit View Constituent Letter Favorites Tools Help

Save and Close

Attributes Media Actions Hgnor/Memorial Volunteer Prospect Membership Events

Bio 1 Bio 2 Addresses Addressees/Salutations Relationships Appeals Notes Gifts

Biographical

Last name: **Diresta** Aliases

First name: Joseph

Middle name: Patrick

Titles: Mr.

Suffixes: , Jr.

Nickname: Joe

Maiden name:

ID: 1

Gender: Male SSN: 394-78-5512

Birth date: 04/23/1965 Age: 49

Deceased? Date:

Marital status: Married

Spouse: Angela Diresta

Solicit code: One solicitation annually

Friend (2001 -)

Preferred Address : Home

Country: United States

Address lines: 248 Twin Lane Building #3299

City: Birmingham

State: AL Alabama

ZIP: 35220 DPC:

Phones/Email/Links

DNC	Type	Number/Email	Address	Shared?
<input type="checkbox"/>	Home	205-566-1254		Shared
<input checked="" type="checkbox"/>	Business	205-568-4200		Shared
<input type="checkbox"/>	Email	JPdiresta@net.com		Cannot be Sh...

This constituent

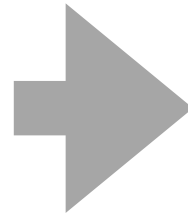
Is inactive Is a solicitor Details

Gives anonymously Has no valid addresses

Requests no email

Education Business Bank

No score 05/22/2014



Raiser's Edge NXT Home Fundraising Marketing Events Lists Analysis Tools Control panel

JD Joseph P. Diresta, Jr.

Fundraiser Head of household

Constituent codes

Friend 2001 - Present

Preferred Name: Joe Spouse: Angela Diresta Fundraisers: David B. Murphy, Franklin Trapp

Apply workflow Merge into another record

Constituent summary

Primary name formats

Addressee	Mr. Joseph P. Diresta, Jr.
Salutation	Mr. Diresta

Other name formats

Alumni Mailing	Mr. Joseph P. Diresta, Jr., Class of 1999
Informal Salutation	Joseph
Informal Alumni Salutation	Joseph Diresta
and 3 more	

Personal info

Gender	Male
Date of birth	4/23/1965
Age	55
Marital status	Married
Constituent ID	1

View constituent properties

Contact information

Addresses [View details](#)

Home ★

248 Twin Lane Building #3299 Birmingham, AL 35220

Business ★

1481 Mountain Creek Drive Building 86 Birmingham, AL 35225

...and 1 more

Phone numbers

Home (205) 566-1254

Business (205) 568-4200

Business (205) 568-1298

...and 2 more

Email addresses

Email JPdiresta@net.com

Email JPdiresta@net.com

Online presence

No online presence found

SKY UX layers

Design Philosophy

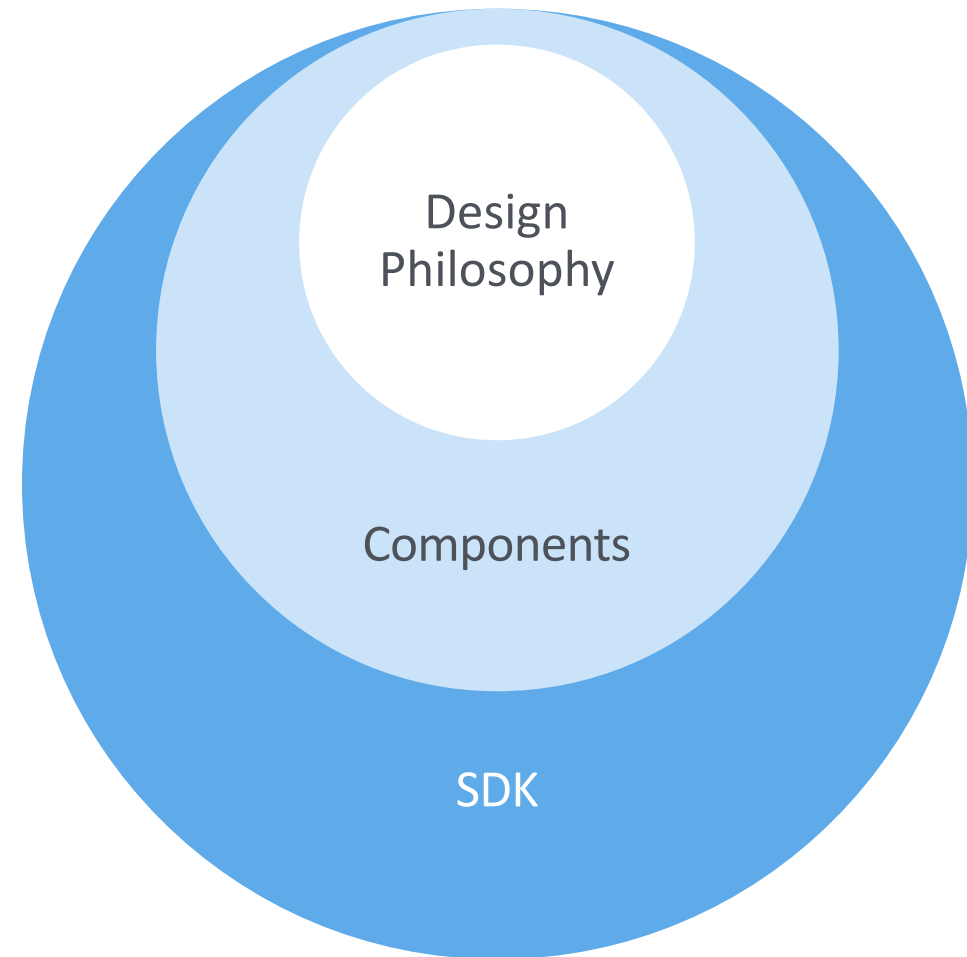
- Focus on workflow
- Empower users
- Maintain clean, cohesive interface

Components

- Based on Angular
- 80+ component library
- Documentation with live code samples

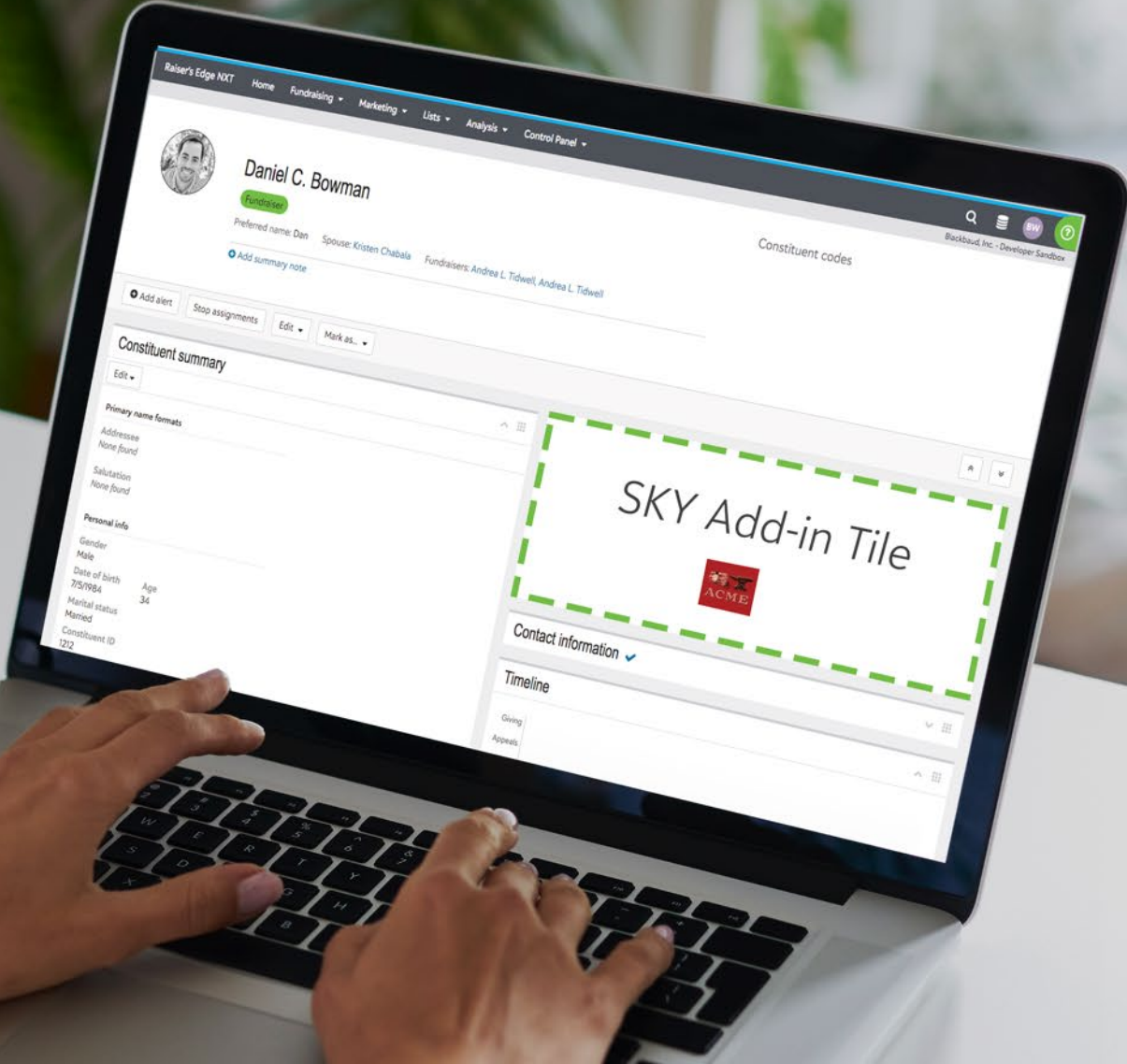
SDK (CLI + Builder)

- Improves developer productivity
- Commands to create, test, and run SPAs



SKY Add-Ins™

New contextual experiences
within Blackbaud solutions



UI extension points

The specific areas in the Blackbaud UI that can be extended are called Extension Points. Extension points render as iframes that load content from an external URL.

The screenshot shows a constituent profile for Robert C. Hernandez. The 'Mark as...' dropdown menu is highlighted with a red box and labeled 'Constituent page action'. Below the profile, a 'Custom Tile' is displayed, also highlighted with a red box and labeled 'Constituent tile dashboard'. The tile contains a logo, the text 'Welcome to Company, Inc.', and a 'Lorem ipsum' button.

Constituent page action

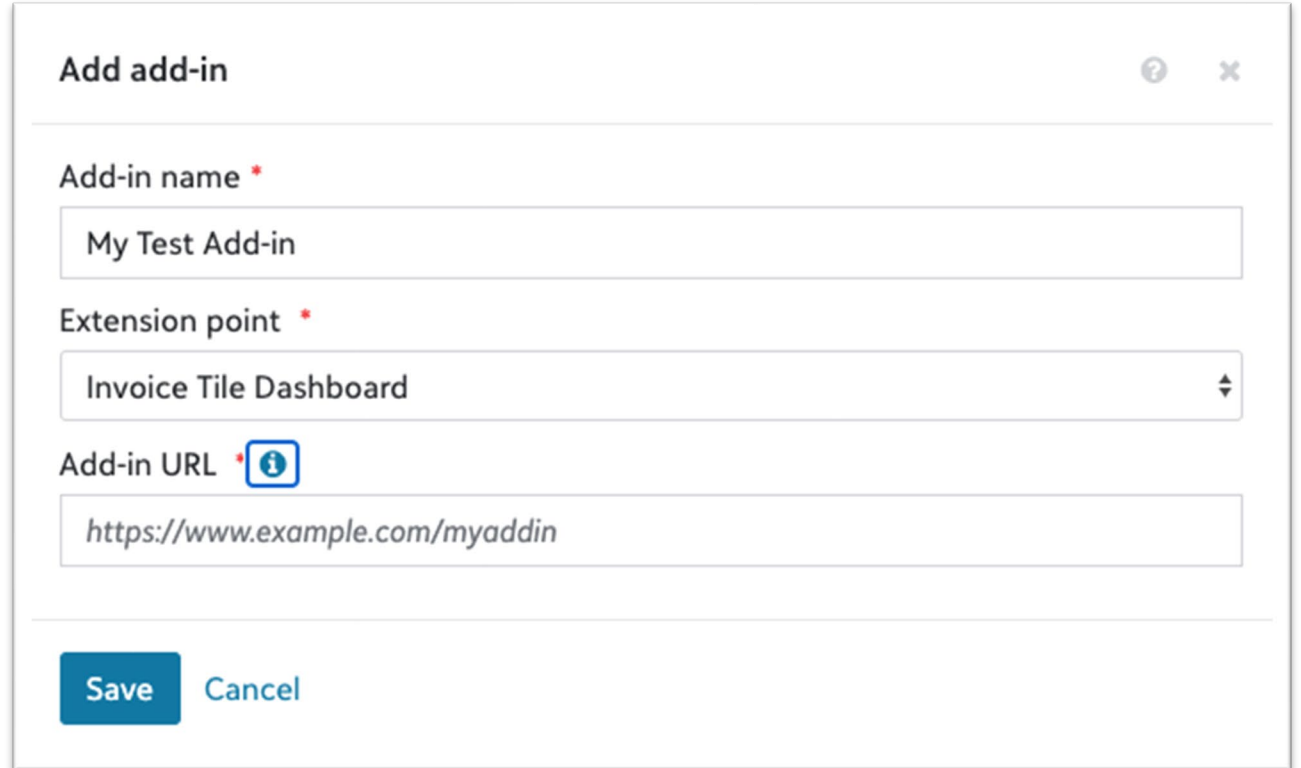
Constituent tile dashboard

Create a SKY Add-in

You can register SKY Add-in extension points from the SKY Developer Portal > My Applications page.

You must provide a URL for the content to load into the iframe.

The *sky-addin-client* library is then used to provide the functions to interact with the host page.



Add add-in ⓘ ✕

Add-in name *
My Test Add-in

Extension point *
Invoice Tile Dashboard

Add-in URL ⓘ
<https://www.example.com/myaddin>

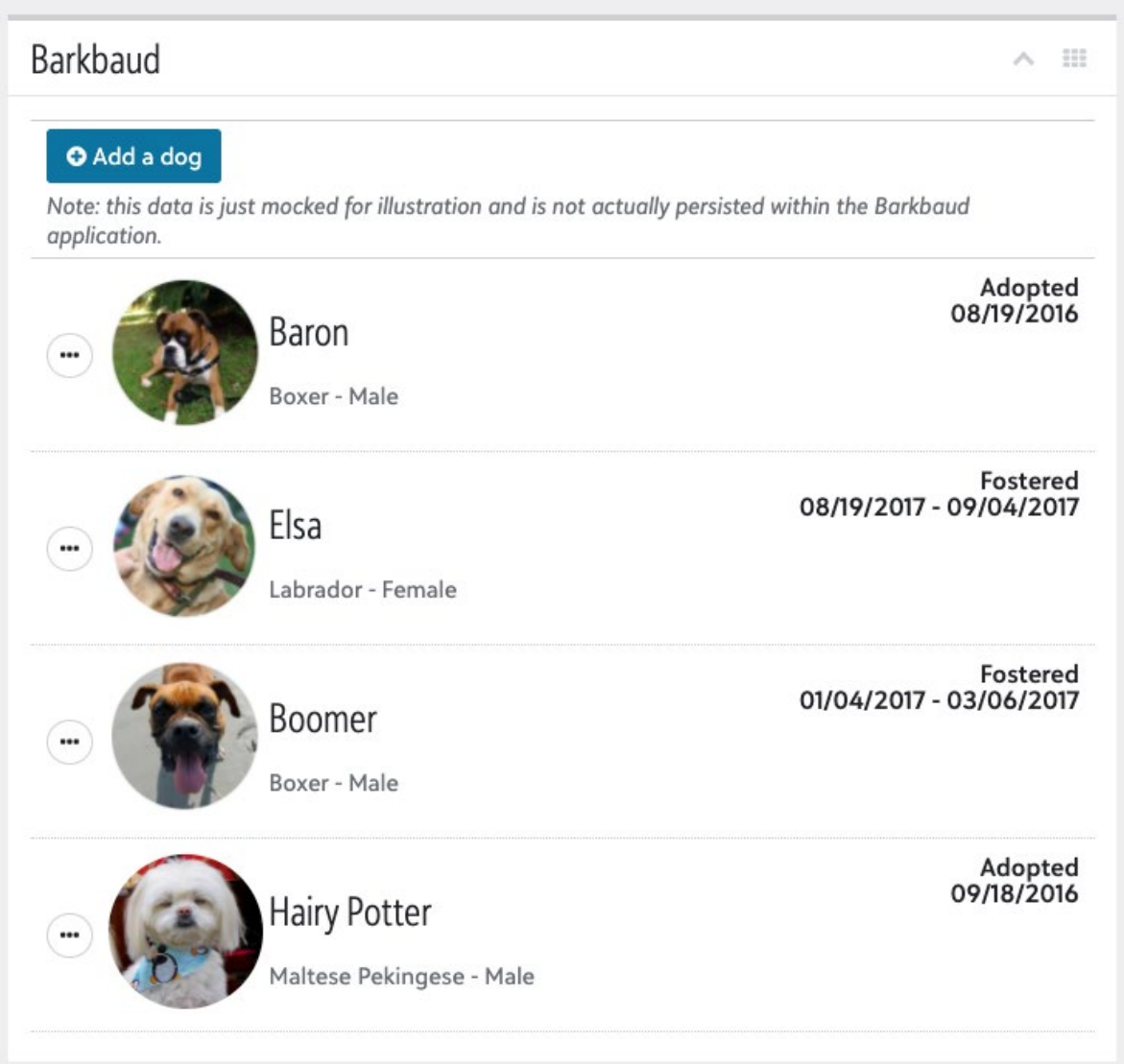
Save Cancel

Loading SKY Add-ins

At runtime, the page with the extension point will look for registered SKY Add-ins from SKY Applications connected to the environment.

Context values are provided to the add-in URL

The user's information can be passed via a User Identity Token (UIT)



The screenshot shows the Barkbaud application interface. At the top, there is a header with the name "Barkbaud" and a navigation icon. Below the header is a blue button labeled "Add a dog". A note below the button states: "Note: this data is just mocked for illustration and is not actually persisted within the Barkbaud application." The main content area displays a list of four dogs, each with a circular profile picture, a name, a breed and sex, and a date or range of dates. Each item has a three-dot menu icon to its left.

Name	Breed - Sex	Status / Dates
Baron	Boxer - Male	Adopted 08/19/2016
Elsa	Labrador - Female	Fostered 08/19/2017 - 09/04/2017
Boomer	Boxer - Male	Fostered 01/04/2017 - 03/06/2017
Hairy Potter	Maltese Pekingese - Male	Adopted 09/18/2016



Dig deeper at these other sessions!

Wed 12:30pm [Open a world of possibilities with SKY Developer](#)

Wed 2:15pm [Blackbaud CRM – Getting ready for Blackbaud ID](#)

Wed 2:15pm [SSO, MFA, Blackbaud ID & Your Org's Security Posture](#)

Thur 11:15 [Extend your reach with the Blackbaud Marketplace](#)



#bbdevdays

Thank you!