

VIRTUAL Developer Bench



Sabre Red 360 Web SDK Basics

The Developer Experience Team

8 September 2021

Presenters



Alexandre Meneghello Software Engineering







Avery Perkins Product Marketing

The Virtual Developer Bench



The Virtual Developer Bench is the developer's opportunity to engage *directly* with the Sabre experts who know their product inside and out.

By the end of today's call you will:

- Know how to install the SDK
- Understand IDE preparation
- Have viewed how to create a project structure for a Red App
- Know how to run/debug your project

Red App ecosystem overview

Sabre Red 360 is responsible for an entire ecosystem involving Travel technology producers and consumers, through its innovative Red App Marketplace and Developer network.



Sabre Red 360 & customization



- Sabre Red 360 is an end-to-end sales workspace that sells billions in Travel inventory each year. Could be extended by plugging-in modules, or Red Apps.
- Sabre Red 360 main View, offers advanced visualization capabilities and orchestration to the Travel consultant workflow.
 - Workflow, from Sabre Red 360 core, any business operation involved on SHOP, SELL, BOOK, TICKET and MANAGE RESERVATIONS of FLIGHT, HOTEL, CAR, CRUISE AND RAIL
- Sabre Red 360 Desktop App, it is a multi-windowed workspace application, which hosts Sabre's main view, complimentary user workflows and allows integrations with back-office and external systems.
- Sabre Red Web, Mobile design brings (big) part of sales workspace to Travel Consultant's pocket, or an internet café anywhere.

Powered by Sabre Red Apps

- Red App bundles could be provisioned to SR 360 through Sabre Red App Centre, using 2 distinct business models:
 - **Private Agency Red Apps**, for limited distribution inside the Travel agency where it was developed.



Public Red Apps, which are marketed through Sabre Red App center, a B2B Marketplace where Travel agencies could navigate and purchase Red Apps from different Travel Technology and Content Providers.



Red App is a software package, created with Sabre Developer Tools, which bundles different extensions to customize Sabre Red 360 operations during runtime.



Contributions to the User Interface, allows Red Apps to customize the Travel consultant workspace (Eclipse) or the primary Sabre Red 360 UI (NGV)

O→◇ Workflow extensions, allow access to data and controlled execution of Business operations done through Sabre Red 360 main View



Communication Foundations, allows Red Apps to access Sabre Red Platform Services exposed through SR 360 runtime and abroad

Tools and Utilities, general utility layer, allows to deal with user settings and authentication, as well integration with external systems and process automation.

UI Widgets	Workflow	Web Browser	Workspace		
Pop-up Forms Tile Widgets Command button + Popover React bootstrap	Workflow panel button Nudge Add to PNR form Refresh PNR Interstitial	CrossWindow WebKit View / Editor Javascript API	View / Editor window Red App Sidebar Workspace Menus Notifications Modal Dialog		
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Agency	Support	Workspace			
Agent Profile Config Services	Log services First run	Plugin resources Internationalization			

Sabre Red 360 SDK



Red App Certified Developer Private Agency Developer **Developer Partner**



Red App Developers



- Who are Red App developers? .
 - A Red App Certified Provider is a developer who is approved by Sabre. After Sabre approves a developer and their proposal, the developer can start creating a Red App
 - Sabre developers require Sabre PCC + Agent ID on CERT environment, if you don't have access to the credentials, please contact your Agency Admin.
- Complete solution to build, test and publish Red Apps
 - **Development Environment** —
 - Web SDK Storefront, Web Developer Tools + Sabre Concierge Tool
 - Java SDK Back office, workspace Integration, Eclipse IDE + Java
 - Idea to Product workflow _
 - Apply, submit your idea •
 - Build and Test source code using Development Environment
 - Generate Red App bundle and submit to beta test and certification process (CERT and PROD environments)
 - Publish your Red App on the B2B marketplace ٠
 - Patch defects and release new features
 - Help and Resources, developer community —
 - Sabre Red App Centre upload, certify and publish your Red App. Manage user messaging and sales operations.
 - Sabre Dev Studio developer portal, access SDK and API documentation, read blog posts and get up to date on latest Industry and Tech trends.
 - Online community leverage Developer community, access sample codes and tutorials.

Streamline Travel Consultant workflows



Travel Agencies Travel Management companies Leisure operators



- Who are potential users of a Red App?
 - Travel agencies, travel management companies, leisure operators, over 370,000 agents in 135 countries, most of whom use the Sabre Red 360.
- How Red Apps are marketed and provisioned for end users?
 - The Sabre Red App Centre is the world's first B2B app marketplace for the travel industry, where agents can shop and request Red Apps that they can use to extend the capabilities of their Sabre Red 360
 - Shop Red Apps that extend the power of SR 360
 - Order your Red App in the Sabre Red App Centre
 - Activate your Red App using Admin tools

Agenda

- 01 Resources
- **02** Setting up IDE
- **03** Building and Debugging Red Apps
- 04 Publishing



RESOURCES

Step by step guide about installation procedures and creation of Red App project



Developers Resources & Downloads

Setup Development Environment



Build and Debug Red Apps



Bundle and Publishing procedures

Step by step guide about installation procedures and creation of Red App project

- ▲ Developers Resources & Downloads
- ✓ Visit developer.sabre.com, Sabre's Developers Portal

✓ Head over to Sabre Red 360 SDK section, familiarize with help, getting started and resources areas

	Released monthly, Available on PC / Mac platform
	Sabre Concierge Tool
Download the SDK	Sabre Red 360 Target Platform
	Red App Developer tools for Eclipse IDE
	Sample Red App projects
	SDK Documentation
	Eclipse IDE Java runtime
	Sabra Red 360 CERT / DROD Installers
 Download any other necessary tools and apps 	Chrome Proweer with access to Developer Teals
	Chrome Browser with access to Developer 100Is
	Visual Studio Code





Travel Agencies

Connect to the Sabre Platform with Travel Solutions APIs to create B2C or B2B travel applications. From a corporate travel portal to a web-based booking engine, cruise booking engine, or rental car reservation system, easily integrate content and services with high adaptability and reduced time-to-market. Travel agencies can select the products with the right business logic to meet their unique needs.



THESE SOLUTIONS ARE FOR: Online Travel Agencies

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If you're a new Red App Certified Provider, review the Developer Toolkit Overview - or if you'd like to become a

Ready to get your hands dirty? Download the new SDK and play in our sandbox to see exactly what





Getting Started with the Sabre Red 360 Software Developer Toolkit

Intro

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Welcome to the Getting Started guide for the Sabre Red 360 Developer Toolkit, also known as **SR 360 SDK**. The objective of this guide is to give you a quick overview of the Sabre Red App ecosystem and development practices, as well guidance on prerequisites and installation to help you get ready.

Purpose of the Sabre Red 360 SDK

The purpose of the Developer Toolkit is to allow customization and build solutions for runtime integrations within Sabre Red's point-of-sale products and the Sabre Red platform (GDS). Sabre Red products, mainly **Sabre Red 360** and **Sabre Red Web**, are used by Travel Consultants in different business scenarios to fullfil different needs of serving the travel industry.

Who Is the Sabre Red 360 SDK For?

The intended audience for the SDK are Software Developers and software divisions inside the travel business industry who wish to plan, code, test, and deploy applications to the Sabre Red Marketplace, known as **Red App Developers**.

Feel free to check out some of our developer resources:

- · Sabre's Developer Portal: DevStudio.
- Our online community: DevStudio Blog, Stack Overflow, YouTube Channel, DevStudio on GitHub.

Sabre Red App Centre

The Sabre Red App Centre (RAC) is the world's first B2B travel app marketplace, your one-stop shop to the Sabre Red point-of-sale product suite. RAC supports the Sabre Red



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IDE SET UP

Step by step guide about installation procedures and creation of Red App project



Developers Resources & Downloads

Setup Development Environment



Build and Debug Red Apps



Bundle and Publishing procedures

Step by step guide about installation procedures and creation of Red App project



Setup Development Environment



Java SDK + Eclipse IDE, a framework used to build Red Apps which are based on the Eclipse RCP specification, coded using Java language and extensions to the Eclipse workspace manager.



Web SDK, framework used to build Web Modules, or Web Red Apps, which are customizations that applies to Sabre Red 360 Next Generation View (NGV)

Step by step guide about installation procedures and creation of Red App project



Setup Development Environment



Java SDK + Eclipse IDE

Unpack and run Eclipse IDE Configure Target Platform Configure Eclipse run/debug settings Configure Red App Tools



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🖨 Eclipse IDE Launcher

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Tutorial: Get started with the Remote Application Platform A guided walk-through to deploy an Eclipse RCP application to the web

Create a new plug-in project Create a new Eclipse Plug-in project

> Checkout projects from Git Checkout Eclipse projects hosted in a Git repository

Import existing projects Import existing Eclipse projects from the filesystem or archive

Launch the Eclipse Marketplace Enhance your IDE with additional plugins and install your Marketplace favorites

Open an existing file Open a file from the filesystem

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 Overview Get an overview of the features
 Tutorials Go through tutorials
 Samples Try out the samples

What's New Find out what is new

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Enhance your IDE with additional plugins and install your Marketplace favorites

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Sabre Red 360 developer [Eclipse Application] C\Dev\RedApp\jdk8u282-b08-jre\bin\javaw.exe (Aug 26, 2021, 10:43:49 PM)
 2021-08-26 22:43:58,816 com.sabre.edge.platform.core.branding.Activator start
 INFO: Branding Framework plug-in (1.5.1.v20170630-1717-r17a15c) starting
 2021-08-26 22:43:58,819 com.sabre.edge.platform.core.branding.Activator start
 INFO: Branding Framework plug-in (1.5.1.v20170630-1717-r17a15c) started
 2021-08-26 22:43:58,820 com.sabre.edge.platform.core.ui.internal.Activator start
 INFO: User Interface add-ons plug-in (3.1.10.v20201217-1813-r8b4f1f) starting
 2021-08-26 22:43:58,823 com.sabre.edge.platform.core.ui.internal.Activator start

INFO: User Interface add-ons plug-in (3.1.10.v20201217-1813-r8b4f1f) started 2021-08-26 22:43:58,965 com.sabre.edge.platform.core.rest.Activator start INFO: RESTful WebServices Framework (1.5.25.v20210622-1609-r933b09) plug-in starting 2021-08-26 22:43:58,982 com.sabre.edge.platform.core.rest.Activator start INFO: RESTful WebServices Framework (1.5.25.v20210622-1609-r933b09) plug-in started 2021-08-26 22:43:58,986 com.sabre.edge.platform.core.sso.Activator start

INFO: Single Sign-On (1.17.0.v20210715-1343-r2c178a) plug-in starting 2021-08-26 22:43:59,064 com.sabre.edge.platform.core.sso.Activator start INFO: Single Sign-On (1.17.0.v20210715-1343-r2c178a) plug-in started 2021-08-26 22:43:59,071 com.sabre.edge.platform.core.pubsub.Activator start INFO: Pub/Sub Framework (1.1.6.v20170630-1741-r2fdb7a) plug-in starting 2021-08-26 22:43:59,080 com.sabre.edge.platform.core.pubsub.Activator start INFO: Pub/Sub Framework (1.1.6.v20170630-1741-r2fdb7a) plug-in started

2021-08-26 22:43:59,083 com.sabre.edge.platform.core.common.Activator start INFO: Common MySabre Core (1.4.59.v20210629-1835-r805377) starting 2021-08-26 22:43:59,102 com.sabre.edge.platform.core.common.Activator start INFO: Common MySabre Core (1.4.59.v20210629-1835-r805377) started 2021-08-26 22:43:59,108 com.sabre.edge.platform.core.branding.internal.BrandingService initialize

INFO: Branding initialization started. 2021-08-26 22:43:59,113 com.sabre.edge.brandings.sdk.Activator start INFO: Red Branding plug-in (1.0.24.v20210719-0916-r9755f7) starting 2021-08-26 22:43:59,114 com.sabre.edge.brandings.sdk.Activator start

INFO: Red Branding plug-in (1.0.24.v20210719-0916-r9755f7) started 2021-08-26 22:43:59,120 com.sabre.edge.platform.core.branding.internal.BrandingService initialize INFO: Branding initialization finished.

2021-08-26 22:43:59,121 com.sabre.edge.platform.core.branding.internal.BrandingService registerDefaultFonts INFO: Initializing default fonts

2021-08-26 22:43:59,276 com.sabre.edge.platform.core.wizard.Activator start

INFO: Wizard Framework (1.0.8.v20170630-1750-r05a9e0) starting

2021-08-26 22:43:59,350 com.sabre.edge.platform.core.wizard.Activator start INFO: Wizard Framework (1.0.8.v20170630-1750-r05a9e0) started

2021-08-26 22:43:59,357 com.sabre.edge.app.Activator start

INFO: Sabre Red Workspace Application plug-in (2.21.8.v20210719-0911-rea6c1c) started 2021-08-26 22:43:59,424 com.sabre.edge.appl.application.Application start

INFO: Application start time 26 Aug 2021, 10:43:59:422 PM

2021-08-26 22:43:59,425 com.sabre.edge.app.application.Application start

INFO: Security checks took 3 ms

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2021-08-26 22:43:59,588 com.sabre.edge.app.application.Application updateInstrumentationData INFO: [BAI] Workflow instrumentation process ID: eWbHOstInAInZl5RR+CF3a0Y5q9WDoN4TrmNSA8ft1M=_XXXXXXXX0187

2021-08-26 22:43:59,597 com.sabre.edge.platform.core.domain.Activator start

INFO: Sabre Domain Model plug-in (1.4.20.v20200417-0922-r68d6fe) starting

2021-08-26 22:43:59,598 com.sabre.edge.platform.core.domain.Activator start

INFO: Sabre Domain Model plug-in (1.4.20.v20200417-0922-r68d6fe) started

2021-08-26 22:43:59,601 com.sabre.edge.platform.core.domain.utils.MarketingVersionProvider getMarketingVersion INFO: Returning MarketingVersion: 3.21.8, dynamo presence: true

2021-08-26 22:43:59,667 com.sabre.edge.platform.core.sso.ui.dialogs.SignInDialog <init>

INFO: Sign in dialog requested and created

2021-08-26 22:43:59,928 com.sabre.edge.platform.core.sso.ui.dialogs.AutofillSignInDialog attachHelperData INFO: Helper data attached to Sign In dialog

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INFO: JS >>> [sabre-ngv-app]							
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2021-08-26 22:49:27,492 sun							
2021-08-26 22:49:27,497 sun							
INFO: JS >>> [sabre-ngv-app 2021_08_26_22:40:27_500_cm							
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2021-08-26 22:49:27,528 sun.reflect.GeneratedMethodAccessor	24 invoke	33263.					
<pre>INFO: JS >>> [sabre-ngv-app] [MODULES] Initializing [module 2021-08-26 22:49:27 530 sup reflect GeneratedMethodAccesson</pre>	<pre>= sabre-ngv-hotelTripProposal]. 24 invoke</pre>						
INFO: JS >>> [sabre-ngv-app] [MODULES] [module = sabre-ngv-	hotelTripProposal] has been load	ed.					
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Getting started with Red App Software Developer Toolkit

Step by step guide about installation procedures and creation of Red App project



Setup Development Environment



Web SDK, framework used to build Web Modules, or Web Red Aps, which are customizations that applies to Sabre Red 360 Next Generation View (NGV)

Install or upgrade Sabre Concierge Tool install Web Development Tools (3rd party, optional)

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BUILDING AND DEBUGGING

Getting started with Red App Software Developer Toolkit

Step by step guide about installation procedures and creation of Red App project



Developers Resources & Downloads

Setup Development Environment



Build and Debug Red Apps



Bundle and Publishing procedures

Getting started with Red App Software Developer Toolkit

Step by step guide about installation procedures and creation of Red App project



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Getting started with Red App Software Developer Toolkit

Step by step guide about installation procedures and creation of Red App project



Build and Debug Red Apps



Build Red Apps

Basic Red App project structure Web Module project structure



Run / Debug Red Apps

Sabre Red 360 Desktop Sabre Red Web

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Getting started with Red App Software Developer Toolkit

Step by step guide about installation procedures and creation of Red App project



Build and Debug Red Apps



Build Red Apps

Basic Red App project structure Web Module project structure



Run / Debug Red Apps

Sabre Red 360 Desktop Sabre Red Web

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Getting started with Red App Software Developer Toolkit

Step by step guide about installation procedures and creation of Red App project



Build and Debug Red Apps



Build Red Apps

Basic Red App project structure Web Module project structure



Run / Debug Red Apps

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PUBLISHING

Getting started with Red App Software Developer Toolkit

Step by step guide about installation procedures and creation of Red App project



Developers Resources & Downloads

Setup Development Environment



Build and Debug Red Apps


Getting started with Red App Software Developer Toolkit

Step by step guide about installation procedures and creation of Red App project



Bundle and Publishing procedures

Bundle

Red App tools added to Eclipse IDE allows Exporting Red App bundles with Wizard style interface.

Sabre Concierge Tool is used to create the Red App bundle, NGV EXPORT command would do the trick.

Red App bundles needs to be signed with Application Certificate issued to Red App provider (Developer)



Upload Red App bundle and Documentation to Sabre Red App Centre Perform beta test and certification process Manage Red App Storefront Alt+Shift+N> 🕝 • 🔗 🖨 🛷 • 🕗 • 📅 • 🏷 🗢 • 🗠 • 📑 🖉

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Getting started with Red App Software Developer Toolkit

Step by step guide about installation procedures and creation of Red App project



Bundle and Publishing procedures

Bundle

Red App tools added to Eclipse IDE allows Exporting Red App bundles with Wizard style interface.

Sabre Concierge Tool is used to create the Red App bundle, NGV EXPORT command would do the trick.

Red App bundles needs to be signed with Application Certificate issued to Red App provider (Developer)

Publishing

Upload Red App bundle and Documentation to Sabre Red App Centre Perform beta test and certification process Manage Red App Storefront X

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Quick Look is a new Sabre Red App that allows Sabre agents to search for commands and error references within their workflow. The application is available for Sabre Red

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Travel Activities

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Quick Look is a new Sabre Red App that allows Sabre agents to search for commands and error references within their workflow. The application is available for Sabre Red

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My Red Apps Developed Purchased PF Keys and Scribes	Initial Red App Description	Red App which demonstrate the main capabilities and integration points offered by the Red App SDK, mainly for enabling customer conversations and a Demo tool.
P Orders		Text will be used in the Agency Admin Tool only. Description in other languages can be provided at a later stage.
Reports	Upload Your Red App Bundle	If you upload a subsequent version of an existing red app, be aware of the importance of the version number. The Version
High Freeze Calendar		number format is: major minor service qualifier. If you increment the service or qualifier number, it is a patch. Users of the prior version will receive this new patch
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		Choose the Red App bundle you want to upload. Browse You can upload a .zip file of 30 MB or less.
	Upload Red App Certification Details	Upload a file that contains detailed use cases for all the functionality in your Red App. Use Cases Sample
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1 Assign IDM Attributes	
RAC Administration	

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Ready on PROD

Your app was successfully provisioned to Production environment. Now, please test your app with Beta tester(s). After testing the Red App on PROD, the Certified Provider will mark the Red App as either "Pass" or "Fail." You will not be able to proceed with the Certification process or upload a new bundle until you have marked your Red App as either "Pass" or "Fail." If the Red App is marked as "Pass" it will be automatically published. Please verify that your storefront is complete. If the Red App is marked as "Fail" it will be removed from the PROD environment.

Post Prod Result

