

ORCA

Communications Simplified



What is ORCA?

ORCA:

- Stands for Open Real-time Communications API
- Simplifies adding Real-time Communications to applications
- Is an **open source project**
- Provides client-side call control APIs



Open Source

ORCA and WebRTC

ORCA complements WebRTC

- WebRTC enables real-time communication in web applications
- ORCA simplifies the signaling to set up high quality communication sessions between web applications
 - Provides tools and JavaScript libraries
 - Fits existing developer model

ORCA: where reliability meets simplicity



WebRTC



Value to Developers

- ORCA provides a “one-stop” vendor-neutral solution for consistently and easily accessing network services through a simple communications API
- Until now, developers who wanted to add real-time communications to web applications had to implement their own signaling mechanism, or adapt their product to use the unique APIs for each service provider
- Initial focus is signaling, but contributions to the JavaScript libraries will refine and extend the core functionality



www.orcajs.org



The screenshot shows the homepage of www.orcajs.org. At the top left is the logo for orca.js, featuring a black orca silhouette and the text "orca.js open real-time communications API". The URL "www.orcajs.org" is displayed in the top right. A dark navigation bar contains links for "Home", "About", "Documentation & Code", and "FAQ". The main content area features a red speech bubble with the text "Connect, Simply." and a code block showing a JavaScript snippet for creating and connecting an ORCA session. Below this is a section titled "A True Communications API" with a brief description. At the bottom, there are two red buttons: "TRY IT" and "GET IT", each with a corresponding link and description.

orca.js open real-time communications API

www.orcajs.org

Home About Documentation & Code FAQ

Connect, Simply.

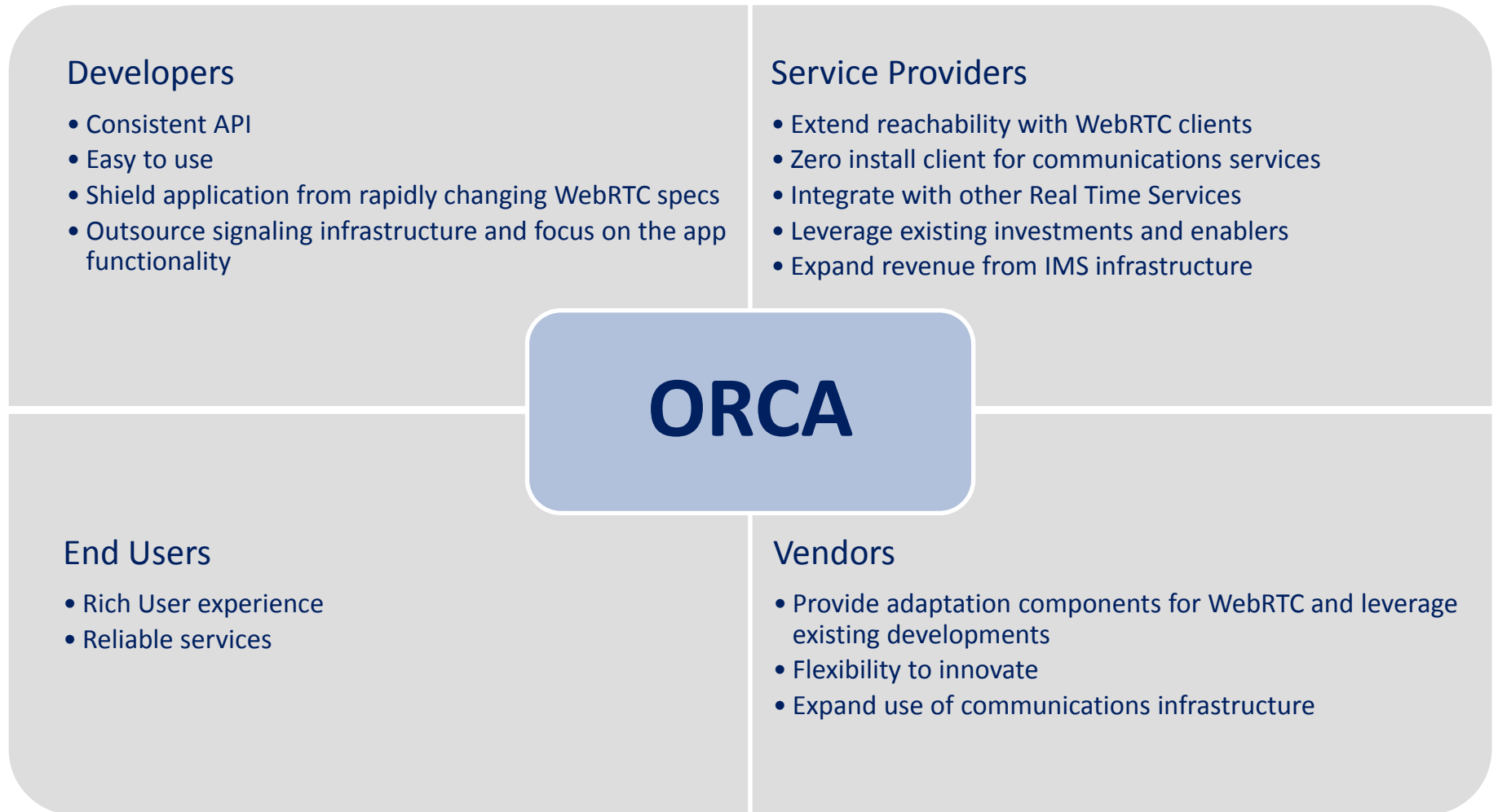
```
// With an ORCA session making a call is easy...
var call = orcaSession.createCall("1235551111", "audio");
call.onConnected = function() {
  // Hello! We're connected! :)
}
};
call.connect();
```

 **A True Communications API**
Built for web developers, orca.js contributes to the WebRTC objective of adding video chat to a web application with just 20 lines of code.

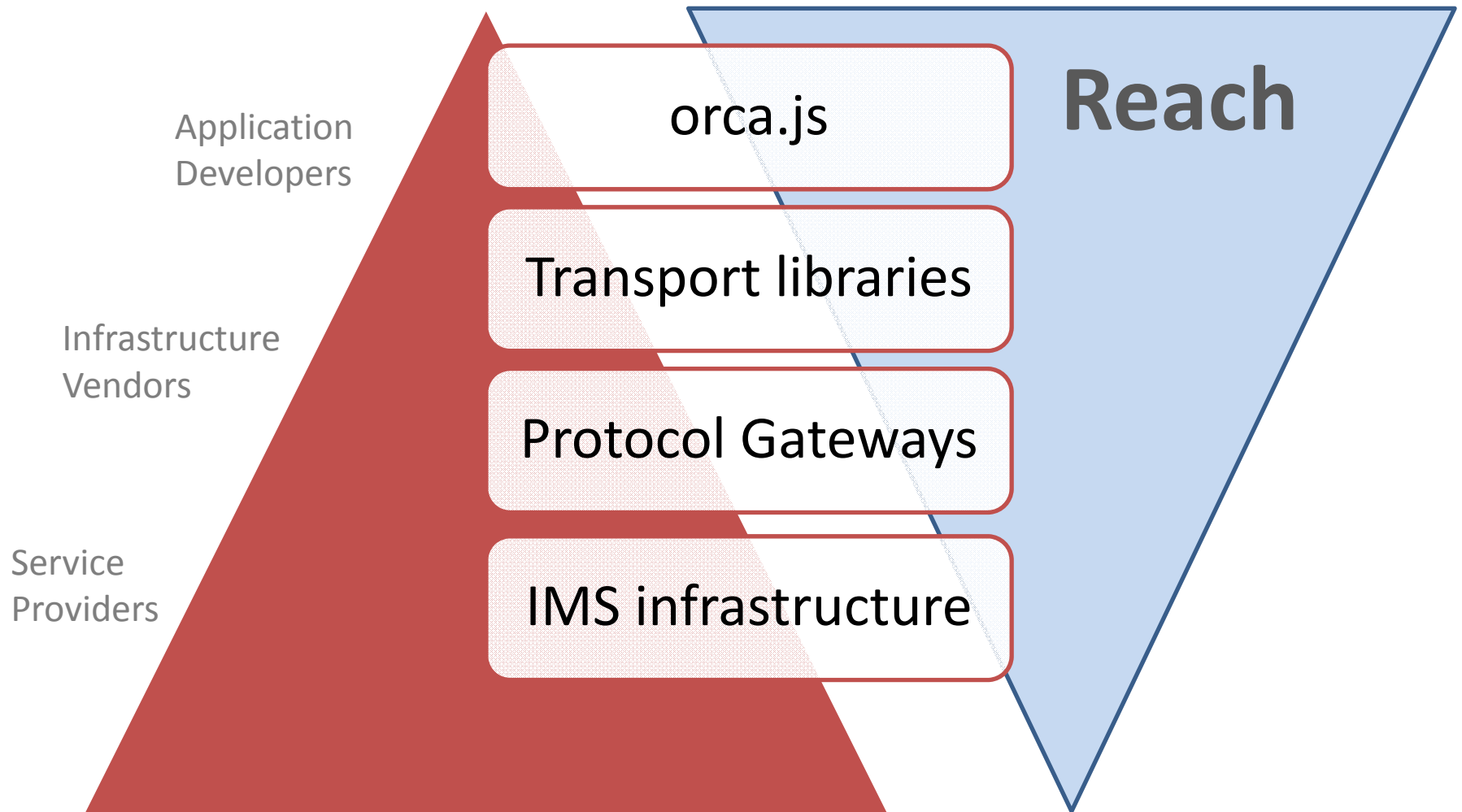
TRY IT
Demo orcajs
See orca.js in action!

GET IT
Visit GitHub
Begin using orca.js today!

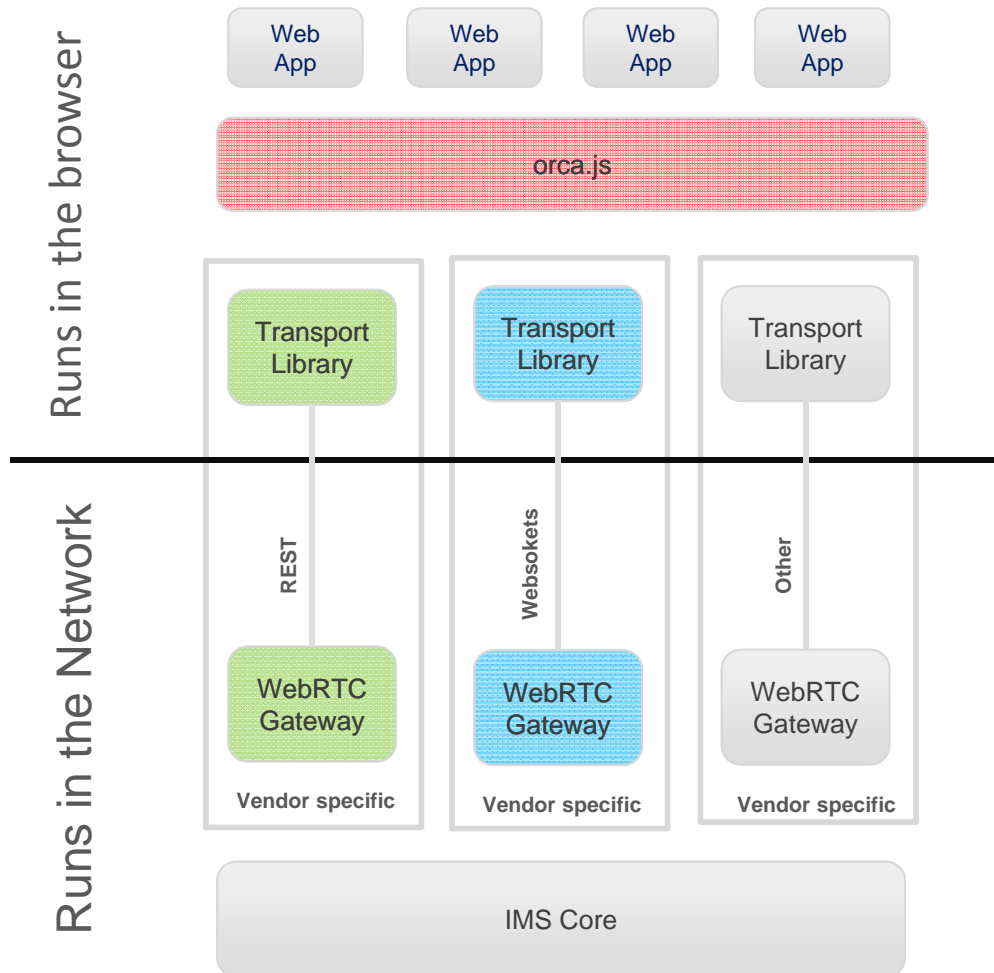
The ORCA Ecosystem



Value Distribution



Intellectual Property Framework



Licensing Framework

orca.js

- Open Source
- Little to no value as stand alone library
- Widely available and extensible for mass adoption

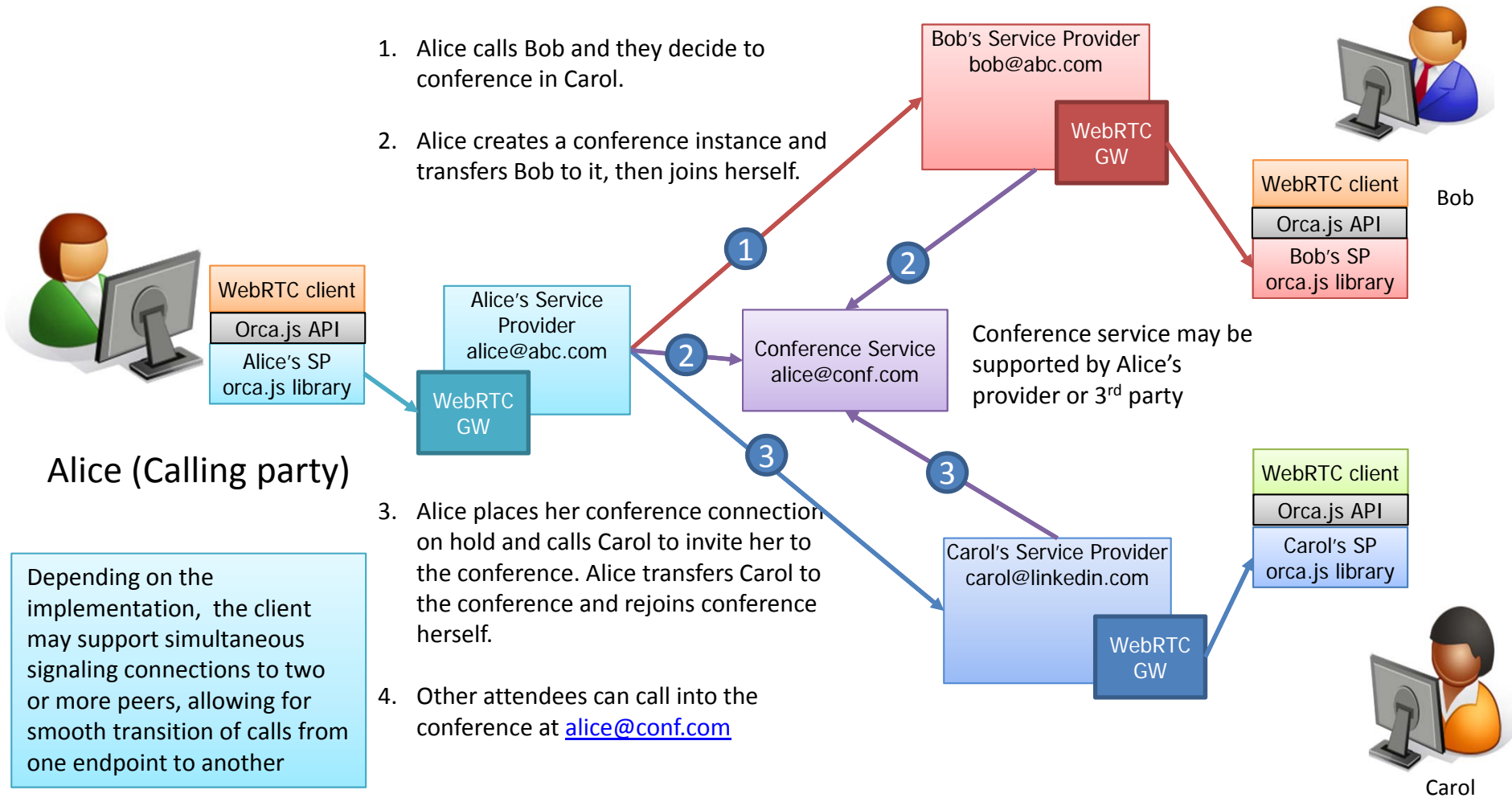
Transport Library + Gateway

- Licensing based on terms and conditions set by SP
- Deployed in SP environments
- Secure developer access based on registration
- IPR – up to the vendor

IMS Core

- Not accessible directly by developers
- Standards based for inter provider interoperability

How it Works: Conferencing Without Explicit Conference Call Support



ORCA Demo

Home

About

Documentation & Code

FAQ

Try It

Bob

Session

CONNECTED

Connect

Disconnect

Call with Alice

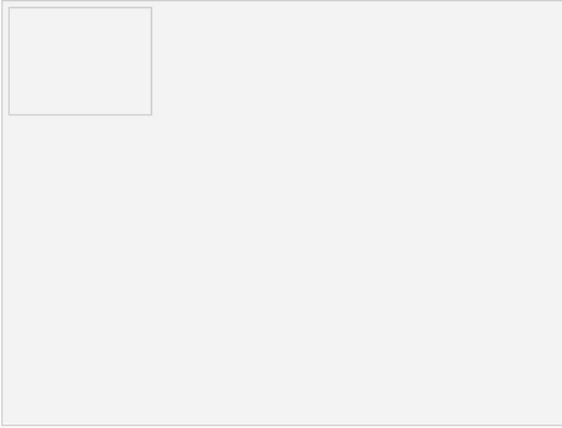
DISCONNECTED

Connect

Disconnect

Reject

Please accept microphone/camera permissions



Alice

Session

CONNECTED

Connect

Disconnect

Call with Bob

DISCONNECTED

Connect

Disconnect

Reject

Please accept microphone/camera permissions



How to get involved

- Visit www.orcajs.org to see a demonstration and learn more
- Find the code at GitHub/orcajs
- Get your developer community engaged
- Spread the word, share the code