

# Temboo Makes It Easy to Interface with Hundreds of REST-ful Web Services with the SimpleLink SDK

---



Adrian Fer

With internet-connected embedded devices, developers have the ability to tap into a massive offering of representational state transfer (REST)-ful application programming interfaces (APIs). REST-ful APIs are “hooks” that websites and services provide externally to share capabilities and information programmatically. For example, yahoo.com includes REST-ful APIs that allow external services and devices, such as an internet-connected sprinkler controller, to tap into their database to get the latest local weather information. By leveraging this REST-ful API, the sprinkler has additional awareness that may dynamically skip a watering session if it rains that day. Being able to leverage these REST-ful APIs allows embedded developers to include additional intelligence and capabilities into their connected applications.

A few other examples for developers:

- If your embedded application needs to know the status of a package, you can use FedEx’s “get delivery status” API.
- If you need to send an SMS/text message when a sensor value exceeds a threshold, you can use Twilio’s APIs.
- If you want to data-log your sensor values into a Google spreadsheet, you can use Google’s APIs to append a row.

And with TI internet-connected SimpleLink™ products, you can leverage REST-ful APIs to include additional intelligence and functionality into your embedded applications.

TI collaborated with [Temboo](#) to help developers interface with various REST-enabled websites and services. Temboo is an Internet of Things (IoT) partner that can generate application code based on the SimpleLink software development kit (SDK), enabling your internet-connected SimpleLink device to take advantage of hundreds of different REST APIs. The [CC3220S](#) and [CC3220SF](#) SimpleLink Wi-Fi devices are supported by Temboo today, with future device support in the works.

## Temboo Supports Hundreds of Web Interfaces

Temboo enables the speedy generation of SimpleLink SDK-based application code, enabling your internet-connected SimpleLink device to interface with hundreds of web interfaces. Temboo supports code generation that enables your CC3220S/CC3220SF device to interact with familiar services from Yahoo, Google, Twilio, Nexmo, Wolfram Alpha and more.

## Additional Resources

- Watch the TI training video, “[Temboo machine-generates code to rapidly develop IoT applications on SimpleLink Wi-Fi MCUs.](#)”
- Get started with [SimpleLink Academy](#).

## IMPORTANT NOTICE AND DISCLAIMER

TI PROVIDES TECHNICAL AND RELIABILITY DATA (INCLUDING DATA SHEETS), DESIGN RESOURCES (INCLUDING REFERENCE DESIGNS), APPLICATION OR OTHER DESIGN ADVICE, WEB TOOLS, SAFETY INFORMATION, AND OTHER RESOURCES "AS IS" AND WITH ALL FAULTS, AND DISCLAIMS ALL WARRANTIES, EXPRESS AND IMPLIED, INCLUDING WITHOUT LIMITATION ANY IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE OR NON-INFRINGEMENT OF THIRD PARTY INTELLECTUAL PROPERTY RIGHTS.

These resources are intended for skilled developers designing with TI products. You are solely responsible for (1) selecting the appropriate TI products for your application, (2) designing, validating and testing your application, and (3) ensuring your application meets applicable standards, and any other safety, security, regulatory or other requirements.

These resources are subject to change without notice. TI grants you permission to use these resources only for development of an application that uses the TI products described in the resource. Other reproduction and display of these resources is prohibited. No license is granted to any other TI intellectual property right or to any third party intellectual property right. TI disclaims responsibility for, and you will fully indemnify TI and its representatives against, any claims, damages, costs, losses, and liabilities arising out of your use of these resources.

TI's products are provided subject to [TI's Terms of Sale](#) or other applicable terms available either on [ti.com](#) or provided in conjunction with such TI products. TI's provision of these resources does not expand or otherwise alter TI's applicable warranties or warranty disclaimers for TI products.

TI objects to and rejects any additional or different terms you may have proposed.

Mailing Address: Texas Instruments, Post Office Box 655303, Dallas, Texas 75265  
Copyright © 2023, Texas Instruments Incorporated