



*Integration and
automation to
improve your
business processes*

UPS® Developer Kit



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UPS Developer Kit

Integrate UPS functionality directly into your business systems and e-commerce websites.

With this collection of eleven powerful Application Programming Interfaces (APIs), you can integrate UPS transportation functionality into your processes for small package, LTL and air freight shipments.

Integration is designed to increase internal efficiencies and overall customer satisfaction for:

- **Ordering** – Street Level Address Validation, Rating or Time in Transit APIs help improve order accuracy.
- **Shipping** – Pickup, Shipping and UPS TradeAbility™ APIs automate fulfillment and global shipping processes.
- **Customer service** – Quantum View™, Rating, Tracking, Signature Tracking™ and Locator APIs provide shipment visibility to customers and your customer service agents.

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Integration that delivers real benefits

- **Address Validation API** — Catch errors before they catch up with you
- **Address Validation Street Level API** — Reduce operating cost and improve customer service with help from UPS and the United States Postal Service®
- **Locator API** — Find UPS shipping locations with ease
- **Paperless Document API** — Upload document images and link to your international shipments
- **Pickup API** — Offer customers the option to schedule a pickup at their convenience
- **Quantum View API** — Access inbound and outbound shipment manifests
- **Rating API** — Offer your customers the option to compare delivery services and rates
- **Shipping API** — Deliver UPS shipping functionality from your website or enterprise system
- **Tracking API** — Visibility to up-to-the-minute status reports
- **Time in Transit API** — Give your customers insights into shipment and delivery timelines
- **Signature Tracking API** — Automate your Proof of Delivery process
- **UPS TradeAbility API** — Anticipate and manage trade regulation compliance

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Build or buy

Who do I consult for expertise?

Making a decision involving complex technologies requires expertise. You should consult a technical team who is proficient in XML/Web Service coding. Based on whether you plan to build or buy, the type of developer will be different.

Build

- Secure an in-house development team or a third-party integrator
- UPS will provide technical support

Buy

- If you've decided to buy, your next step is to select a UPS Ready™ Provider. Learn more [here](#).

UPS offers technical support during the integration process and for post-implementation or production issues. Technical support hours are: Monday through Friday: 7:30 a.m. to 9:00 p.m. EST, Saturdays and Sundays: 9:00 a.m. to 6:00 p.m. EST. Response time for e-mail technical support is typically four hours or less within the stated hours of operation.

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Evaluation steps

How do you determine which is best for you?

Examine the following steps to help you determine the expense and development time for integration. These steps take into account both business and technical planning processes. Consult a technical team who is proficient in XML or Web Service coding. Complete the steps outlined below to assist you in making a more informed decision whether to integrate the APIs or purchase a UPS Ready turnkey solution. Of course, this list is not comprehensive and is to be used as a guideline. Each customer has numerous variables that must be considered that are unique to their proprietary business processes and systems.

Step 1) Needs analysis

- Map and document business processes and pain points
- Document software functionality required to address pain points
- Identify appropriate APIs to meet business needs

Step 2) Technical requirements

- Identify the number and type of platforms/systems impacted
- Pinpoint high-level impacts to interfaces and internal processing logic of each system

Step 3) Cost comparison

- Determine developer skill level required for XML or Web Service coding
- Evaluate development time to integrate the APIs versus purchasing software with APIs integrated
- Complete cost benefit analysis

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Developer access

The screenshot shows the UPS Developer Kit page. At the top, there is a navigation bar with the UPS logo, 'United States', and links for 'New User', 'Log In', 'Contact UPS', and 'The UPS Store'. Below this is a secondary navigation bar with tabs for 'My UPS', 'Shipping', 'Tracking', 'Freight', 'Locations', 'Support', and 'UPS Solutions'. The main content area is titled 'UPS Developer Kit' and includes sections for 'Announcements and API Updates', 'How to Get Started', 'Access and Administration', and 'Developer APIs'. A sidebar on the left contains 'Support' links and a 'Saturday Delivery' section.

United States New User | Log In | Contact UPS | The UPS Store

My UPS | Shipping | Tracking | Freight | Locations | Support | UPS Solutions

Support
→ Getting Started
→ Shipping
→ Tracking
→ Receiving Your Shipment
→ Billing and Payment
→ Technology Support
→ Developer Resource Center
→ **UPS Developer Kit**
→ E-mail UPS
→ WorldShip Support
→ Host Customer Info Center

UPS Developer Kit

Announcements and API Updates

The UPS Developer Kit APIs are updated in January and July each year. Enhancements can range from individual API functionality changes to brand new APIs. There are numerous enhancements to the APIs for July 2013. To view July 2013 and previous release changes please select the **More** link located in the bottom right corner of this box. [More](#)

How to Get Started

Step 1: Register with My UPS.
Step 2: Log in
Step 3: Select an API.
Step 4: Download the API documentation.
Step 5: Request an access key.

Access and Administration

[Manage Access Keys](#)
[Administration](#)
[Customer Support for UPS Developer Kit](#)
[Learn About Integrating UPS Developer Kit APIs](#)

Developer APIs

Shipping/Rating
[Address Validation - City, State, ZIP](#)
Verify the city, state, and ZIP or postal code information is valid.
[Address Validation - Street Level](#)
Verify the street address, city, state, and ZIP or postal code information is valid.
[Locator - Global](#)
Find a UPS location or The UPS Store nearest to you.
Pickup
Request a pickup for you or for one of your customers.
Rating
Compare delivery services and shipping rates to determine the best option for your customers.
Shipping
Validate addresses, compare rates, and print labels for your internal business processes.
[Time in Transit](#)
Compare shipping transit times of UPS services.

Visibility
[Quantum View](#)
Stream Quantum View Data via XML over the Web and into internal applications.
Tracking
Provide accurate package status information to your customers.
[Tracking - UPS Signature Tracking](#)
Automate Proof of Delivery for your shipments.
International Trade
[UPS TradeAbility](#)
Generate cost estimates for duties, taxes, and transportation for international shipments; locate compliance and licensing information, and identify restricted trading parties.

Find Out When I'll Be Delivered

Saturday Delivery
Need it delivered on Saturday?
→ Find out about Saturday Delivery from UPS

UPS Developer Kit — This section of [ups.com](#)[®] provides access for developers to download developer guides, sample code and UPS logos. Developer can also request an Access Key to gain access to UPS test and production API servers. Complete instructions are available within the UPS Developer Kit User Guide.

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Resource center

The screenshot shows the UPS Developer Resource Center page. At the top, there is a navigation bar with the UPS logo, "United States", and links for "New User", "Log-In", "Contact UPS", and "The UPS Store". Below this is a secondary navigation bar with tabs for "My UPS", "Shipping", "Tracking", "Freight", "Locations", "Support", and "UPS Solutions". The main content area is titled "Developer Resource Center" and includes a sub-header "Learn about the resources you can integrate into your website or e-commerce applications." The page is divided into several sections: "UPS Developer Kit Solutions" with sub-sections for "Developer APIs" and "Data Files and Management Applications"; "UPS Developer Kit Support" with sub-sections for "UPS Developer Kit Customer User Guides" and "Technical Support for Developers"; and "The UPS Information Exchange". There are also links to "Learn About Integrating UPS Developer Kit APIs" and "Learn About Data Files and Management Applications". A sidebar on the left contains a "Support" menu and a "Developer Resource Center" menu. A small image of a person is also visible in the sidebar.

UPS Developer Resource Center — This section of ups.com provides a comprehensive list of technical support options for your developer including the best channel for urgent technical support — the “E-mail UPS” option.

The screenshot shows the UPS Developer Kit Community page. At the top, there is a navigation bar with the UPS logo, "Log In / create account", and a search bar. Below this is a secondary navigation bar with tabs for "My UPS", "Shipping", "Tracking", "Freight", "Locations", "Support", and "UPS Solutions". The main content area is titled "Main Page" and includes a sub-header "Welcome to the UPS Developer Kit Community." The page is divided into several sections: "UPS Developer Kit Community" with sub-sections for "Main page", "LogIn/create account", "System Status", "Developer Guides", "Knowledge Base", "News & Announcements", "Help", and "Contact Us"; "Forum Menu" with sub-sections for "Forum", "Search", and "Today's Posts"; and "PLEASE NOTE: If you have an urgent technical support question/need please go to the UPS Developer Resource Center here and select 'Email UPS'. You will get a response within 4 business hours during technical support operating hours (M-F 730am to 9pm EST and Sat-Sun 9am to 6pm EST).". There is also a section for "Our goal is to foster collaboration and idea sharing through the available discussion forums." and a section for "Please take a moment to read our Community Guidelines before participating. Also, note that since this is a self-sustaining site, a response to your question or comment will be slower than the UPS technical support email inquiry." A small image of a person is also visible in the sidebar.

UPS Developer Kit Community — This section of ups.com provides developers a forum to share best practices and programming tips as well as access all API documentation online.

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Integration process

Quick-guide for developers

Key things to know before and during the integration process.

The UPS Developer Kit offers convenience in integrating UPS functionality directly into your business systems and e-commerce websites using the Internet. Choose from 11 UPS Developer APIs to help automate and improve internal efficiencies while enhancing end-to-end customer experience.

Technical considerations

Prior to downloading APIs, you should be familiar with:

- Programming URL or socket connections
- Creating a secure socket implementation that supports SSL standard for secure connections
- Encoding and decoding XML documents
- Designing and implementing a strategy into your existing software for handling errors

Access requirements

Review whether the particular API provides Test and Production Access with initial access key request or if additional Production Access requests are required, as well as the business models approved for use with each API.

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Implementation to production

Quick-guide for developers (cont.)

Implementation

Review the requirements for each API carefully at the [UPS Developer Kit page](#). Download the Software Developer Kit (SDK) and carefully review the entire developer guide for each of the APIs you will integrate. The Developer Kit also includes sample code and WSDLs. Once you have reviewed the Kit, you should request access to the UPS test environment. Most APIs provide immediate access to both test and production environments. However, the following APIs require a second request to activate production access: Address Validation Street Level, Locator, Pickup, Rating (LTL Freight only) and Shipping.

Testing and certification

UPS provides a testing environment that is accessible with an Access Key for all APIs. This will allow you to simulate live request and response messaging to ensure you have properly formatted your XML or Web Service requests.

LTL Freight and Locator APIs require an additional request to gain production access. Please [click here](#) to review the User Guide and the respective developer guides for details.

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Developer support

Quick-guide for developers (cont.)

Resource center

UPS Developer Kit users can obtain support through the [Developer Resource Center](#), including:

- Data files and management applications
- The UPS information exchange
- UPS Developer Kit Community
- Technical support
- The knowledge base

Technical support

For general questions, you can download the Knowledge Base file. This resource contains answers to hundreds of questions about the APIs. You can also obtain e-mail support at **ups.com**.

1. Attach a file with your e-mail support request that includes your XML request/response messages and errors.
2. First-level Technical Support will respond the next day (this excludes U.S. holidays).
3. If your problem log is escalated to the next level of Technical Support, you will get a response by the next business day (excluding U.S. holidays).
4. Finally, if your issue is urgent and you need immediate assistance, you can call the first-level Technical Support desk in the U.S. at 1-877-289-6420.

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Build or buy, you've got support

Wherever you are in the integration process, UPS offers a number of ways to find out what you need to know.

If you've decided to buy, your next step is to select a UPS Ready Provider. Learn [more](#).

For builders, the UPS Developer Resource Center offers several support options. Learn [more](#).

UPS Developer Kit support (at UPS Developer Resource Center)

- **UPS Developer Kit Community** — Access online documentation, FAQs and share best practices and programming tips. However, if you need urgent technical support use the UPS Developer Resource Center “E-mail UPS” link outlined below under Technical Support.
- **Knowledge base** — This Knowledge Base PDF document is a downloadable PDF file that provides answers to your business and functionality questions regarding the UPS APIs.
- **Technical support** — Send UPS an [e-mail](#) with your question and attach a file with your code and error messages using the “E-mail UPS” link at the UPS Developer Resource Center. Our goal is to reply to your message within four hours during support business hours — Monday through Friday: 7:30 a.m. to 9:00 p.m. EST, Saturdays and Sundays: 9:00 a.m. to 6:00 p.m. EST.

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For more information on product
and service availability, visit
[ups.com/developerkit](https://www.ups.com/developerkit).

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