

Product Description PTV Developer

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Short title	Product Description PTV Developer
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1. Product objective

PTV Developer is a cloud service for geocoding, mapping, routing and optimization applications based on standardized APIs hosted in a public cloud and operated by PTV.

2. Product description

2.1. Modules / Features

The Customer is entitled to use as specified in the Offer a comprehensive suite of APIs, ensuring flexibility and robust integration capabilities:

- Geocoding & Places API
- Raster Maps API
- Vector Maps API
- Routing API
- Matrix Routing API
- Map Matching API
- Route Optimization OptiFlow API
- Loading Space Optimization API
- Data API

Specifications for these APIs can be found in the online documentation, which is regularly updated and available at <https://developer.myptv.com/en/documentation>.

Integration of PTV Developer is only permitted in solutions developed either by the Customer or on the Customer's behalf.

The features, APIs, and functionalities of PTV Developer described in this Product Description and in the online documentation reflect the product's current scope. The contractually agreed scope of PTV Developer is defined exclusively by the use case specified in the Offer.

The actual implementation and use of PTV Developer including any use of APIs beyond the agreed use case is the sole responsibility of the customer. PTV does not warrant that PTV Developer is suitable for any specific use case of the Customer that is not expressly covered by the Offer.

A complete and regularly updated overview of all available APIs, features, technical specifications, and usage restrictions (including request limits and rate limits) is

available in the online documentation at <https://developer.myptv.com/en/documentation>.

This documentation constitutes the authoritative technical reference.

PTV reserves the right to further develop and adjust the product's functional scope, API specifications, and technical parameters within the limits of the applicable contractual provisions.

2.2. Rate & Request Limits

To ensure reliable service availability for all customers, PTV Developer enforces two types of limits on API usage.

Request limits define the maximum number of objects permitted within a single API call – for example, the number of waypoints per routing request or the number of orders per optimization request. If a request limit is reached, the recommended approach is to split the workload across multiple requests. For some APIs no request limits apply, as those endpoints handle only single objects (e.g. map tiles or individual addresses). The applicable request limits per API and method are documented at: <https://developer.myptv.com/en/help/faq-help#requestlimits>.

Rate limits define the maximum number of API calls that a single API key can make within a given time window. If a rate limit is exceeded, the error code `GENERAL_RATE_LIMIT_EXCEEDED` is returned and further requests from that API key will temporarily be rejected. Rate limiting operates on a sliding window basis and applies per API – a rejection in one API does not affect the availability of other APIs. The applicable rate limits per API and method are documented at: <https://developer.myptv.com/en/help/faq-help#ratelimits>.

Customers are advised to consult the online documentation for the currently valid values, as these may be updated as part of product changes.

2.3. API Changes and Modifications

PTV reserves the right to make non-compatible changes to the APIs provided under PTV Developer. In the event of such changes, PTV will provide a minimum notice period of 18 months prior to implementation.

Notification of non-compatible API changes will be sent via email to the registered Owner of the myPTV ID account to which the subscription plan is associated. It is the

Customer's responsibility to ensure that the email address registered with their myPTV ID account remains current and accessible.

Customers are advised to monitor communications from PTV and to plan necessary adaptations to their integrations within the notice period provided.

All price plans include a transaction limit

- Transactions per service are listed here:
<https://developer.myptv.com/en/help/faq-help#transactioncalculation>
- Transaction quotas are provided based on the expected number of licensed assets in the offer directly.
- It is guaranteed that the transaction multipliers of an API version will only be adjusted in favor of the customer.

Transaction limits do not apply for the usage of Route Optimization PTV OptiFlow API.