

DPD Distribution Services

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General information

Mandatory update checks on a daily basis



At least one update check per day must be performed. The process shall be automated and can be scheduled to certain times during the day, to suit your setup the best way possible.

A good practice would be, to run a scheduled task (cron job) during nighttime or early in the morning.

It is also possible to increase the frequency, for example hourly update checks are permitted.

It is not recommended to increase the frequency higher than on an hourly basis. A maximum of 24 checks per day is recommended.

Please ensure your compliance towards the maximum download limit. See chapter [download restriction](#) for more details.

How does it work?

When calling the distribution service, it will always tell you, the latest available and valid version to be used in your production environment.

You compare the online available version with your locally installed version to find out, whether an update is necessary or not.

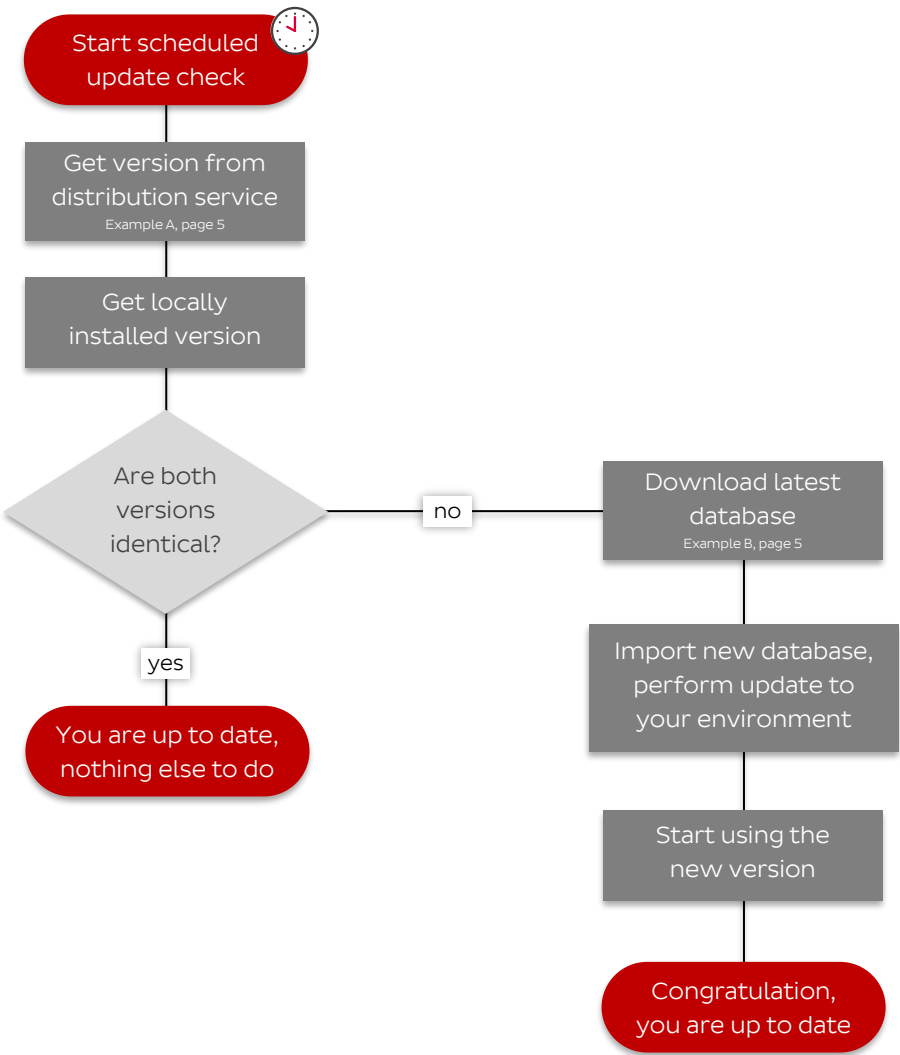
- If both, the online version as well as your locally installed version are identical, there is nothing else to do. You are running the latest version available. No update is required at that point.
- If the online version, compared to your locally installed version is not identical, you shall perform an immediate database update to run the latest version possible.

What data does this service provide?

Currently the distribution service provides two different resources:

- the **GeoRouting database** for DPD Germany, which is required for parcel routing purposes
- as well as the **hazardous substance database** for DPD Germany, which is required for hazardous goods shipments

Flowchart



Technical information

RESTful URLs

Method:

GET

Endpoint:

<https://esolutions.dpd.com/partnerloesungen>

Resources:

- 1) GeoRouting: </rdbdistributionsservice.aspx>
- 2) Hazardous substance: </hazdistributionsservice.aspx>

click for
demo

Possible parameter:

?version=<response_version>

Example A: [...dpd.com/partnerloesungen/rdbdistributionsservice.aspx](https://esolutions.dpd.com/partnerloesungen/rdbdistributionsservice.aspx)

Example B: [...dpd.com/partnerloesungen/rdbdistributionsservice.aspx?version=<response_version>](https://esolutions.dpd.com/partnerloesungen/rdbdistributionsservice.aspx?version=<response_version>)

Example A is used to retrieve the latest version in every scheduled update check. Follow the flowchart on page 4. Example B is used to download the actual database zip file.

Example response

```
{
  "version": "22030704"
}
```

Code snippet

```
#!/usr/bin/python
import requests

## Get latest version from dpd distribution service
url = 'https://esolutions.dpd.com/partnerloesungen/rdbdistributionsservice.aspx'
response_version = requests.get(url).json()['version']

## Get installed version from your local database. In this example we will use a dummy value
local_version = '22030704'

## Version validation check
if local_version == response_version:
    print('Congratulation, you are up to date. You are running the following version: '+local_version)
else:
    ## Your locally installed version is not up to date. Proceed with a download and database update
    new_database = requests.get(url+'?version='+response_version)
    open('new_database.zip', 'wb').write(new_database.content)
    print('The following database version has been downloaded: '+response_version)
    ## Proceed with the update, extract zip file, import new database, start using the new version
```


Restrictions and exceptions

Download restriction



To avoid unnecessary network traffic, the database downloads (example B, page 5) are restricted to a maximum of 10 downloads per hour. Should you happen to exceed this download limit, an automated ban will be applied for a duration of 24 hours. In this case the service will respond with the http status code: 429 - Too Many Requests

In addition to the http status code, the following error message will be sent:

Dieser Fehler wird vom benutzerdefinierten Fehlermodul nicht erkannt.

The download limit does not apply to the basic update checks (example A, page 5). Update checks are unlimited, however we recommend a maximum of 24 scheduled update checks per day.

In case of a ban, both the download (example B) as well as the update check (example A) will be banned for a duration of 24 hours.

Downtime

In the very unlikely moment that this distribution service is unavailable, you can proceed with the locally installed database version for at least one day. Simply retry your scheduled update check the next day or within the next hour, depending on your individual frequency of update checks. Follow chapter: [mandatory update checks on a daily basis](#) for more information on the frequency.

Contact

Contacting the DPD Customer Interface Technology Team for further information

A team of specialists will assist your integration to ensure an easy, flawless and quick start to your project. Contact us at cit@dpd.de or call us at: +49 (0) 6026 9762 6204