



Technical specification

Taric Internet file distribution

Tulldata

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Date
2002-11-07

Rev

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1. Introduction

1.1. Foreword

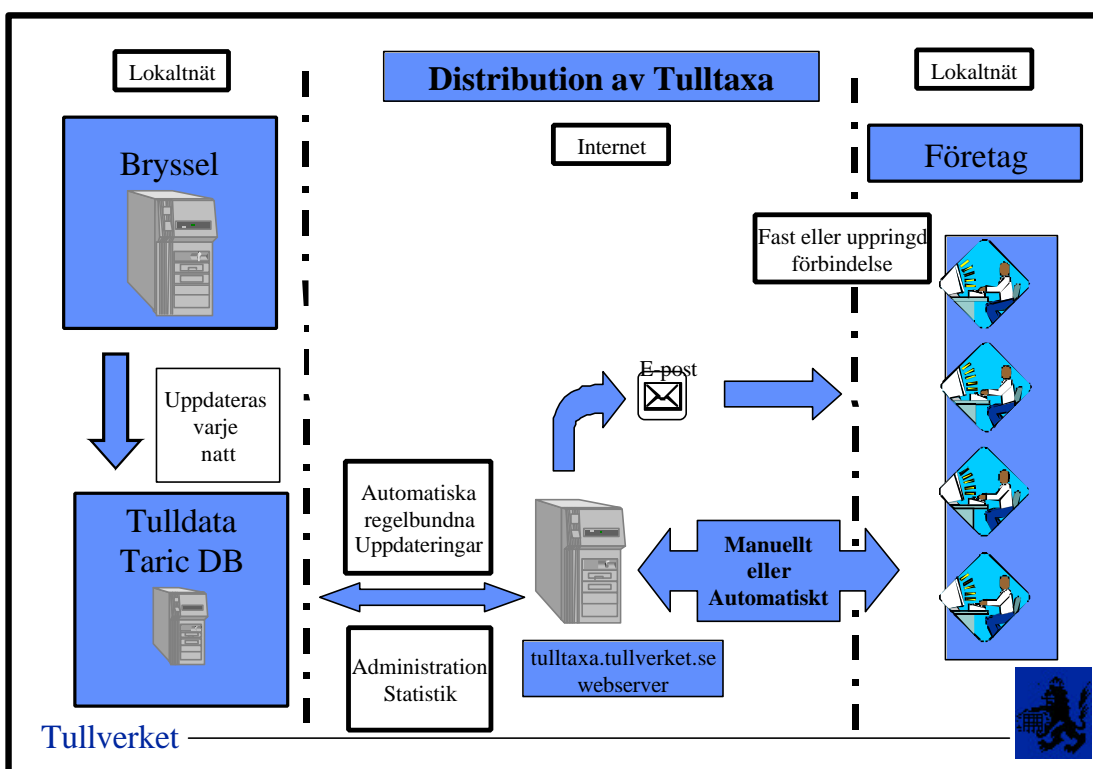
This document describes the specification of TARIC Internet file distribution, referred to from here onwards as TIF. The system is in four parts. These are: creation of files, distribution of files, storage of files and subscribing.

1.2. Layout

The document is in four parts, introduction, system overview, system solution and finally a chapter about the effects on customers. The overview gives a brief description of how the system as a whole works.

2. System overview

Every night, Tulltaxan is updated with data from Brussels. When the update is complete, a total file is created from it. From the total file, a file which describes the changes made during the night is created (difference file).



A seal is placed on every file, so that recipients can be sure who sent it and that data has not been changed.

The difference file is then transferred to an Internet server by FTP. The total file is distributed in the same way every thirty working days, in other words about eight times a year.

All subscribers can then log on and download the current file. All subscribers use the same user identity when downloading files.

All subscriptions are managed via the existing subscription register.

3. System solution

3.1. File creation

A batch program which is run daily will create the difference files. This is how it will be done:

For every record type, a file created with the total information (for record type B, 22 files are created with sections conforming to the current section breakdown). The file name will include a sequence number. This number is incremented on every run. Using this sequence number the program can create the file name of the file from the previous run, open this file and compare it with the new file. All newly-added, changed and deleted lines are written to the difference file for the record type. The name of the difference file will contain the same sequence number as in the name of the created total file.

For a detailed description of the record types, see the documents: *Postbeskrivning_för_fast_layout* och *Postbeskrivning_XML* (*Record_description_for_fixed_layout* and *Record_description_XML*)

3.1.1. File names

File name of total file	: K_“record type”_“language code”_“sequence no.”.tot
File name, diff file	: D_“record type”_“language code”_“sequence no.”.dif

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File name of total file : K_“record type”_“language code”_“sequence no.”.totxml
File name, diff file : D_“record type”_“language code”_“sequence no.”.difxml

Language code is relevant only for files with record type D, E, F, M, R.

Files with record type B will have the prefix B01-21, B99 or D01-21, D99.

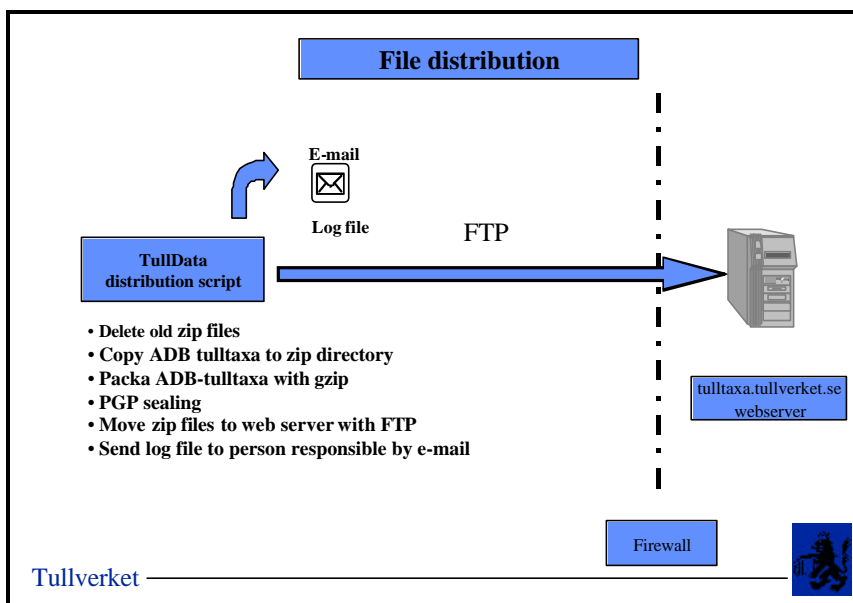
3.2. File distribution

Files are distributed to an external server with a distribution script. The script is run automatically when new total and difference files have been created.

The script starts by cleaning off old zip files. The new total and difference files are then copied to the zip directory, where they are compressed (packed) with the program *gzip*.

After compression, a PGP seal is applied to each file. This seal authenticates Tullverket as the sender. FTP is then used to send the compressed files to the external server.

A log file is created, containing the status of the file transfer. This log file is sent automatically by e-mail to the person/people responsible for the run.



Programs are all run automatically with scheduling in Unix.

3.3. File storage

The difference files will be updated nightly and stored successively for 60 days. The total files are updated eight times a year and stored two at a time.

3.4. Subscriptions

Tullverket's existing subscription system (PN) will be used to manage subscriptions. Alternatively, orders will be registered via the ordering routine on the Tullverket website. (procedure not yet decided on).

All registered users use the same login for file access via FTP. This joint user will only be able to read stored files. No login via HTTP.

3.5. Document format

The two file formats that will be used are traditional fixed layout and the new XML format.

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The reason for using XML is to satisfy the demand for a modern document format. Since Tulltaxan is currently used in many different ways, and in many different forms, it is important that the format be as universal as possible. This makes it easy for applications and systems to import new data.

Extensive development work is currently being done world wide, aimed at giving standard applications XML possibilities. This means that customers with standard applications can easily make use of distributed data.

4. How are the customers affected?

4.1. Subscriptions

Companies that wish to have access to the Taric files should email taric.info@tullverket.se or phone +46 (0)771-520 520 and ask for the Tulldata subscription service.

The customer is given the necessary information about the service, together with login and distribution information.

4.2. Distribution

The customer can choose to download the updates from the distribution server manually or automatically. Manual downloading requires client software, either a web browser to download data with HTTP, or an FTP client.

Automatic downloading requires an FTP or HTTP agent. The agent is scheduled to download at specific intervals.

4.3. Seal

Third-party software is needed to open the seal on each file.

PGP stands for Pretty Good Privacy, as standard for the encryption and signing of data. With PGP encryption it is possible to ensure that only authorised persons can read a document. A PGP seal authenticates the identity of the sender.

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Because Tulltaxan is public, only PGP seals will be used for distribution of Tulltaxan. To read a sealed copy of Tulltaxan you need PGP software and Tullverket's public PGP key.

Since only Tullverket's public key can be used, you can be sure that the data is correct and not corrupted.

You can find Tullverket's public key on the external server. You will be given the address of the external server when you are registered in the subscription database.

The PGP encryption program costs about SEK 1500:- per licence (one licence per company is sufficient). Suppliers include Promacom, +46 (0)8 359025.