Název:	**CHAPS spol. s r.o.**
Sídlo:	Bráfova 1617/21, 616 00 Brno
Zástupce:	Ing. Tomáš Chlebničan, jednatel
IČ:	4754 022
DIČ:	CZ47547022
Bankovní spojení:	XXX
Číslo účtu:	XXX
Zápis v OR:	Krajský soud v Brně oddíl C., vložka 17631

dále jen „*CHAPS*"

a

Název:	**Dopravní podnik Ostrava a.s.**
Sídlo:	Poděbradova 494/2, 702 00 Ostrava, Moravská Ostrava
Zástupce:	XXX
IČ:	61974757
DIČ	CZ61974757 (plátce DPH)
Bankovní spojení:	XXX
Číslo účtu:	XXX
Zápis v OR:	Krajský soud v Ostravě, sp. zn. B, vložka 1104

dále jen „*DPO*"

uzavírají v souladu s ustanovením ust. § 2586 a násl. a ust. § 2358 a násl. zák. č. 89/2012 Sb., občanský zákoník, v platném znění, níže uvedeného dne, měsíce a roku smlouvu. Tato smlouva byla uzavřena v rámci výběrového řízení vedeného u *DPO* pod číslem DDP/2017/01.

Smlouva
na doplnění funkčnosti aplikace ASW Jízdní řády

dále jen „*Smlouva*"

1.   Předmět *Smlouvy*

1.1   Předmětem *Smlouvy* je doplnění funkčnosti aplikace ASW Jízdní řády dle specifikace, která je uvedena v Příloze č.1 *Smlouvy*.

1.2   *CHAPS* prohlašuje, že software „Jízdní řády" určený pro *DPO* vyvinul na základě Smlouvy o využití a převodu práv softwarového díla ze dne 6.5.1997 a žádná jiná osoba není oprávněna zdrojové tvary uvedeného software modifikovat.

1.3   *CHAPS* se touto *Smlouvou* zavazuje za podmínek stanovených touto Smlouvou provést pro *DPO* doplnění funkčnosti aplikace ASW Jízdní řády. *DPO* se zavazuje za řádně a včas provedené plnění zaplatit *CHAPSU* sjednanou cenu.

2.   Čas, místo a podmínky plnění

2.1   Předmět *Smlouvy* bude *DPO* předán nejpozději do 4 měsíců od nabytí účinnosti *Smlouvy*.

2.2   Místem plnění je sídlo *DPO* na adrese uvedené v záhlaví *Smlouvy*.

3.   Cena a platební podmínky

3.1   Smluvní strany se dohodly na ceně za splnění předmětu *Smlouvy* v celkové výši 240 000,- Kč bez DPH (slovy: dvě stě čtyřicet tisíc korun českých).

3.2   *DPO* se zavazuje zaplatit cenu dle odst. 3.1 tohoto článku na základě daňového dokladu vyhotoveného *CHAPS* po předání předmětu *Smlouvy*.

3.3   O předání, převzetí a zjištění funkčnosti aplikace dle Přílohy č. 1 bude vystaven akceptační protokol, na jehož základě *CHAPS* vystaví daňový doklad nejpozději do 15 dnů ode dne předání (den uskutečnění zdanitelného plnění). Dnem předání má DPO právo předmět smlouvy používat.

3.4   Daňový doklad vystavený *CHAPS* bude mít splatnost 30 dnů ode dne jeho doručení *DPO*. Po vystavení ho *CHAPS* bez zbytečného prodlení odešle na adresu *DPO* uvedenou v záhlaví *Smlouvy*. V pochybnostech se má za to, že doklad byl doručen třetí pracovní den po jeho odeslání. CHAPS má možnost vystavit fakturu ve formátu PDF, opatřit ji zaručeným elektronickým podpisem nebo jinak zabezpečit proti pozměnění a zaslat ho elektronicky (email) na adresu XXX. Písemné vyhotovení se v tomto případě nedoručuje.

3.5   Úplata bude provedena na bankovní účet *CHAPS* uvedený v daňovém dokladu.

4.   Užití a šíření předmětu *Smlouvy*

4.1   Autorská práva k předmětu *Smlouvy* vytvořenému podle *Smlouvy* náleží *CHAPS*. Zaplacením ceny předmětu *Smlouvy* dle odst. 3.1 *Smlouvy* získá *DPO* množstevně, časově a teritoriálně neomezenou licenci k užívání předmětu *Smlouvy*.

4.2   Zdrojové programy vytvořené v rámci *Smlouvy* zůstávají vlastnictvím *CHAPS*. Vlastnictvím *DPO* se po zaplacení ceny z odst. 3.1 *Smlouvy* stává aplikační programové vybavení v proveditelné formě.

4.3   Jakékoliv porušení tohoto článku je považováno za porušení smluvních povinností. Poškozená smluvní strana má právo domáhat se ochrany svých práv a náhrady škody, ale i právo písemně odstoupit od *Smlouvy*.

5.   Součinnost smluvních stran

5.1   Součinnost mezi *DPO* a *CHAPS* s cílem odstranit nejasnosti v jejich vzájemné komunikaci při realizaci předmětu *Smlouvy* včetně jeho předání se děje prostřednictvím styčných zaměstnanců:

Za *DPO*:   Za *CHAPS*:
XXX   XXX
Tel.: XXX   Tel.: XXX
E-mail: XXX   E-mail: XXX

5.2   Smluvní strany se zavazují vzájemně spolupracovat a poskytovat si veškeré informace potřebné pro řádné plnění svých povinností. Smluvní strany jsou povinny informovat druhou

smluvní stranu o veškerých skutečnostech, které jsou nebo mohou být důležité pro řádné plnění *Smlouvy*.

6. Záruky

6.1 Není-li ve *Smlouvě* uvedeno jinak, řídí se záruční podmínky příslušnými ustanoveními Občanského zákoníku.

6.2 *CHAPS* neodpovídá za vady vzniklé:

   a) nesprávnou manipulací s daty
   b) z důvodů nesprávného provozování a užívání
   c) jakýmkoliv zásahem *DPO* do předmětu *Smlouvy* bez souhlasu *CHAPS*.

6.3 Žádná ze smluvních stran neodpovídá za neplnění smluvních povinností v důsledku překážek, které nastaly nezávisle na vůli smluvních stran a brání jim ve splnění povinností vyplývajících ze *Smlouvy* dle příslušných ustanovení Občanského zákoníku.

7. Závěrečná ustanovení

7.1 *CHAPS* bere na vědomí, že *DPO* podléhá režimu zákona č. 106/1999 Sb., o svobodném přístupu k informacím, (dále také jen „zákon") a v souladu a za podmínek stanovených v zákoně je povinen tuto smlouvu, příp. informace v ní obsažené nebo z ní vyplývající zveřejnit. Podpisem této smlouvy dále bere *CHAPS* na vědomí, že *DPO* je povinen za podmínek stanovených v zákoně č. 340/2015 Sb., o registru smluv, zveřejňovat smlouvy na Portálu veřejné správy v Registru smluv.

7.2 Veškeré vztahy mezi smluvními stranami, pokud nejsou ve *Smlouvě* upraveny, se řídí platnými právními předpisy ČR, zejména Občanským zákoníkem.

7.3 Veškeré změny *Smlouvy* mohou být provedeny pouze po dohodě obou smluvních stran, a to formou písemných, vzestupně číslovaných dodatků podepsaných oprávněnými zástupci obou smluvních stran.

7.4 Smluvní strany prohlašují, že *Smlouva* byla sepsána na základě jejich pravé a svobodné vůle a na důkaz toho k ní připojují své podpisy.

7.5 *Smlouva* je platná a účinná ode dne jejího podpisu posledním z oprávněných zástupců smluvních stran.

7.6 *Smlouva* je vypracována ve dvou vyhotoveních, z nichž každá smluvní strana obdrží jedno vyhotovení.

7.7 Nedílnou součást *Smlouvy* tvoří Příloha č.1 - Bližší specifikace předmětu Smlouvy na doplnění funkčnosti aplikace ASW Jízdní řády.

Za DPO v Ostravě dne: *Za CHAPS* v Brně dne:

…………………………………   …………………………………
        XXX   Ing. Tomáš Chlebničan
             XXX   jednatel

Příloha č.1 – Bližší specifikace předmětu smlouvy na doplnění funkčnosti aplikace ASW Jízdní řády

Vytvoření exportu dat z aplikace ASW Jízdní řády do formátu GTFS.

Agency.txt

Field Name	Required	Details	
agency_id	Optional	Uniquely identifies a transit agency. A transit feed may represent data from more than one agency. The agency_id is dataset unique. This field is optional for transit feeds that only contain data for a single agency.	NE
agency_name	Required	The agency_name field contains the full name of the transit agency. Google Maps will display this name.	**ANO**
agency_url	Required	Contains the URL of the transit agency. The value must be a fully qualified URL that includes http:// or https://, and any special characters in the URL must be correctly escaped. See http://www.w3.org/Addressing/URL/4_URI_Recommentations.html for a description of how to create fully qualified URL values.	**ANO**
agency_timezone	Required	Contains the timezone where the transit agency is located. Timezone names never contain the space character but may contain an underscore. Please refer to http://en.wikipedia.org/wiki/List_of_tz_zones for a list of valid values. If multiple agencies are specified in the feed, each must have the same agency_timezone.	**ANO**
agency_lang	Optional	Contains a two-letter ISO 639-1 code for the primary language used by this transit agency. The language code is case-insensitive (both en and EN are accepted). This setting defines capitalization rules and other language-specific settings for all text contained in this transit agency's feed. Please refer to http://www.loc.gov/standards/iso639-2/php/code_list.php for a list of valid values.	NE
agency_phone	Optional	Contains a single voice telephone number for the specified agency. This field is a string value that presents the telephone number as typical for the agency's service area. It can and should contain punctuation marks to group the digits of the number. Dialable text (for example, TriMet's "503-238-RIDE") is permitted, but the field must not contain any other descriptive text.	**ANO**
agency_fare_url	Optional	Specifies the URL of a web page that allows a rider to purchase tickets or other fare instruments for that agency online. The value must be a fully qualified URL that includes http:// or https://, and any special characters in the URL must be correctly escaped. See http://www.w3.org/Addressing/URL/4_URI_Recommentations.html for a description of how to create fully qualified URL values.	**ANO**
agency_email	Optional	Contains a single valid email address actively monitored by the agency's customer service department. This email address will be considered a direct contact point where transit riders can reach a customer service representative at the agency.	**ANO**

Stops.txt

stop_id	Required	Contains an ID that uniquely identifies a stop or station. Multiple routes may use the same stop. The stop_id is dataset unique.	**ANO**
stop_code	Optional	Contains short text or a number that uniquely identifies the stop for passengers. Stop codes are often used in phone-based transit information systems or printed on stop signage to make it easier for riders to get a stop schedule or real-time arrival information for a particular stop. The stop_code field should only be used for stop codes that are displayed to passengers. For internal codes, use stop_id. This field should be left blank for stops without a code.	NE
stop_name	Required	Contains the name of a stop or station. Please use a name that people will understand in the local and tourist vernacular.	**ANO**
stop_desc	Optional	Contains a description of a stop. Please provide useful, quality information. Do not simply duplicate the name of the stop.	NE
stop_lat	Required	Contains the latitude of a stop or station. The field value must be a valid WGS 84 latitude.	**ANO**
stop_lon	Required	Contains the longitude of a stop or station. The field value must be a valid WGS 84 longitude value from -180 to 180.	**ANO**

zone_id	Optional	Defines the fare zone for a stop ID. Zone IDs are required if you want to provide fare information using fare_rules.txt. If this stop ID represents a station, the zone ID is ignored.	**ANO**
stop_url	Optional	Contains the URL of a web page about a particular stop. This should be different from the agency_url and the route_url fields. The value must be a fully qualified URL that includes http:// or https://, and any special characters in the URL must be correctly escaped. See http://www.w3.org/Addressing/URL/4_URI_Recommentations.html for a description of how to create fully qualified URL values.	NE
location_type	Optional	Identifies whether this stop ID represents a stop or station. If no location type is specified, or the location_type is blank, stop IDs are treated as stops. Stations can have different properties from stops when they are represented on a map or used in trip planning. The location type field can have the following values: 0 or blank: Stop. A location where passengers board or disembark from a transit vehicle. 1: Station. A physical structure or area that contains one or more stop.	NE
	Extensions	New values added to the existing spec: 2 - indicates an entrance. The stop entry must also specify a parent_station value referencing the stop id of the parent station for the entrance.	NE
parent_station	Optional	For stops that are physically located inside stations, this field identifies the station associated with the stop. To use this field, stops.txt must also contain a row where this stop ID is assigned location type=1. This stop ID represents… This entry's location type... This entry's parent_station field contains... A stop located inside a station. 0 or blank The stop ID of the station where this stop is located. The stop referenced by parent_station must have location_type=1. A stop located outside a station. 0 or blank A blank value. The parent_station field doesn't apply to this stop. A station. 1 A blank value. Stations can't contain other stations.	NE
stop_timezone	Optional	Contains the timezone in which this stop or station is located. Please refer to Wikipedia List of Timezones for a list of valid values. If omitted, the stop should be assumed to be located in the timezone specified by agency_timezone in agency.txt. When a stop has a parent station, the stop is considered to be in the timezone specified by the parent station's stop_timezone value. If the parent has no stop_timezone value, the stops that belong to that station are assumed to be in the timezone specified by agency_timezone, even if the stops have their own stop_timezone values. In other words, if a given stop has a parent_station value, any stop_timezone value specified for that stop must be ignored. Even if stop_timezone values are provided in stops.txt, the times in stop_times.txt should continue to be specified as time since midnight in the timezone specified by agency_timezone in agency.txt. This ensures that the time values in a trip always increase over the course of a trip, regardless of which timezones the trip crosses.	NE
wheelchair_boarding	Optional	Identifies whether wheelchair boardings are possible from the specified stop or station. The field can have the following values: 0 (or empty): Indicates that there is no accessibility information for the stop 1: Indicates that at least some vehicles at this stop can be boarded by a rider in a wheelchair •2: Wheelchair boarding is not possible at this stop When a stop is part of a larger station complex, as indicated by a stop with a parent_station value, the stop's wheelchair_boarding field has the following additional semantics: •0 (or empty): The stop will inherit its wheelchair_boarding value from the parent station, if specified in the parent •1: There exists some accessible path from outside the station to the specific stop / platform •2: There exists no accessible path from outside the station to the specific stop/platform	**ANO**
vehicle_type	Extensions	Use this field to describe the type of transportation used at the stop. It accepts an valid routes.txt route_type value, including our proposed Extended GTFS Route Types values.	NE
platform_code	Extensions	Indicates the platform identifier for a platform stop. This should be just the platform identifier (eg. "G" or "3"). Words like "platform" or "track" (or the feed's language-specific equivalent) should not be included. This allows feed consumers to more easily internationalize and localize the platform identifier into other languages.	**ANO**

Routes.txt

Field Name	Required	Details	
route_id	Required	Contains an ID that uniquely identifies a route. The route_id is dataset unique.	**ANO**
agency_id	Optional	Defines an agency for the specified route. This value is referenced from the agency.txt file. Use this field when you are providing data for routes from more than one agency.	**ANO**
route_short_name	Required	Contains the short name of a route. This will often be a short, abstract identifier like "32", "100X", or "Green" that riders use to identify a route, but which doesn't give any indication of what places the route serves. At least one of route_short_name or route_long_name must be specified, or potentially both if appropriate. If the route does not have a short name, please specify a route_long_name and use an empty string as the value for this field.	**ANO**
route_long_name	Required	Contains the full name of a route. This name is generally more descriptive than the route_short_name and will often include the route's destination or stop. At least one of route_short_name or route_long_name must be specified, or potentially both if appropriate. If the route does not have a long name, please specify a route_short_name and use an empty string as the value for this field.	**ANO**
route_desc	Optional	Contains a description of a route. Please provide useful, quality information. Do not simply duplicate the name of the route. For example, "A trains operate between Inwood-207 St, Manhattan and Far Rockaway-Mott Avenue, Queens at all times. Also from about 6AM until about midnight, additional A trains operate between Inwood-207 St and Lefferts Boulevard (trains typically alternate between Lefferts Blvd and Far Rockaway)."	**ANO** - POUZE PRVNÍ A POSLEDNÍ ZASTÁVKU PODLE CHRONOMETRÁŽE
route_type	Required	Describes the type of transportation used on a route. Valid values for this field are: 0: Tram, Streetcar, Light rail. Any light rail or street level system within a metropolitan area. •1: Subway, Metro. Any underground rail system within a metropolitan area. •2: Rail. Used for intercity or long-distance travel. •3: Bus. Used for short- and long-distance bus routes. •4: Ferry. Used for short- and long-distance boat service. •5: Cable car. Used for street-level cable cars where the cable runs beneath the car. •6: Gondola, Suspended cable car. Typically used for aerial cable cars where the car is suspended from the cable. •7: Funicular. Any rail system designed for steep inclines. (Extension) GTFS currently defines a number of route types that can be used to describe the type of service for a particular route (eg. bus vs rail vs ferry). To support a more rich set of types, an extension to the routes.txt route_type field has been proposed. For more details, see Extended GTFS Route Types.	**ANO**
route_url	Optional	Contains the URL of a web page about that particular route. This should be different from the agency_url. The value must be a fully qualified URL that includes http:// or https://, and any special characters in the URL must be correctly escaped. See http://www.w3.org/Addressing/URL/4_URI_Recommentations.html for a description of how to create fully qualified URL values.	NE
route_color	Optional	In systems that have colors assigned to routes, this defines a color that corresponds to a route. The color must be provided as a six-character hexadecimal number, for example, 00FFFF. If no color is specified, the default route color is white (FFFFFF). The color difference between route_color and route_text_color should provide sufficient contrast when viewed on a black and white screen. The W3C Techniques for Accessibility Evaluation And Repair Tools document offers a useful algorithm for evaluating color contrast. There are also helpful online tools for choosing contrasting colors, including the snook.ca Color Contrast Check application.	**ANO** - POUZE PRO DRUHY DOPRAVY A BARVAMI NAPEVNO ZADANÝMI V KÓDU, JINAK DOPLNĚNÍ DTB

route_text_color	Optional	Specifies a legible color to use for text drawn against a background of route_color. The color must be provided as a six-character hexadecimal number, for example, FFD700. If no color is specified, the default text color is black (000000). The color difference between route_color and route_text_color should provide sufficient contrast when viewed on a black and white screen.	**ANO** - POUZE PRO DRUHY DOPRAVY A BARVAMI NAPEVNO ZADANÝMI V KÓDU, JINAK DOPLNĚNÍ DTB

Trips.txt

route_id	Required	Contains an ID that uniquely identifies a route. This value is referenced from the routes.txt file.	**ANO**
service_id	Required	The service_id contains an ID that uniquely identifies a set of dates when service is available for one or more routes. This value is referenced from the calendar.txt or calendar_dates.txt file.	**ANO**
trip_id	Required	Contains an ID that identifies a trip. The trip_id is dataset unique.	**ANO**
trip_headsign	Optional	Contains the text that appears on a sign that identifies the trip's destination to passengers. Use this field to distinguish between different patterns of service in the same route. If the headsign changes during a trip, you can override the trip_headsign by specifying values for the the stop_headsign field in stop_times.txt.	**ANO** - VÝCHOZÍ A KONEČNÁ SPOJE
trip_short_name	Optional	Contains the text that appears in schedules and sign boards to identify the trip to passengers, for example, to identify train numbers for commuter rail trips. If riders do not commonly rely on trip names, please leave this field blank. A trip_short_name value, if provided, should uniquely identify a trip within a service day; it should not be used for destination names or limited/express designations.	NE
direction_id	Optional	Contains a binary value that indicates the direction of travel for a trip. Use this field to distinguish between bi-directional trips with the same route_id. This field is not used in routing; it provides a way to separate trips by direction when publishing time tables. You can specify names for each direction with the trip_headsign field. •0: Travel in one direction (outbound travel) •1: Travel in the opposite direction (inbound travel) For example, you could use the trip_headsign and direction_id fields together to assign a name to travel in each direction for a set of trips. A trips.txt file could contain these rows for use in time tables: trip_id,...,trip_headsign,direction_id 1234,...,to Airport,0 1505,...,to Downtown,1	NE
block_id	Optional	Identifies the block to which the trip belongs. A block consists of two or more sequential trips made using the same vehicle, where a passenger can transfer from one trip to the next just by staying in the vehicle. The block_id must be referenced by two or more trips in trips.txt.	NE
shape_id	Optional	Contains an ID that defines a shape for the trip. This value is referenced from the shapes.txt file. The shapes.txt file allows you to define how a line should be drawn on the map to represent a trip.	**ANO**
wheelchair_accessible	Optional	0 (or empty): Indicates that there is no accessibility information for the trip 1: Indicates that the vehicle being used on this particular trip can accommodate at least one rider in a wheelchair 2: Indicates that no riders in wheelchairs can be accommodated on this trip	**ANO**
bikes_allowed	Optional	0 (or empty): Indicates that there is no bike information for the trip 1: Indicates that the vehicle being used on this particular trip can accommodate at least one bicycle 2: Indicates that no bicycles are allowed on this trip	NE

Stop_times.txt

trip_id	Required	Contains an ID that identifies a trip. This value is referenced from the trips.txt file.	**ANO**
arrival_time	Required	Specifies the arrival time at a specific stop for a specific trip on a route. The time is measured from "noon minus 12h" (effectively midnight, except for days on which daylight savings time changes occur) at the beginning of the service date. For times occurring after midnight on the service date, enter the time as a value greater than 24:00:00 in HH:MM:SS local time for the day on which the trip schedule begins. If you don't have separate times for arrival and departure at a stop, enter the same value for arrival_time and departure_time. If this stop isn't a time point, use an empty string value for the arrival_time and departure_time fields. Stops without arrival times will be scheduled based on the nearest preceding timed stop. To ensure accurate routing, please provide arrival and departure times for all stops that are time points. Do not interpolate stops. You must specify arrival and departure times for the first and last stops in a trip. Times must be eight digits in HH:MM:SS format (H:MM:SS is also accepted, if the hour begins with 0). Do not pad times with spaces. The following columns list stop times for a trip and the proper way to express those times in the arrival_time field: Time arrival_time value 08:10:00 A.M. 08:10:00 or 8:10:00 01:05:00 P.M. 13:05:00 07:40:00 P.M. 19:40:00 01:55:00 A.M. 25:55:00 starNOTE: Trips that span multiple dates will have stop times greater than 24:00:00. For example, if a trip begins at 10:30:00 p.m. and ends at 2:15:00 a.m. on the following day, the stop times would be 22:30:00 and 26:15:00. Entering those stop times as 22:30:00 and 02:15:00 would not produce the desired results.	**ANO**
departure_time	Required	Specifies the departure time from a specific stop for a specific trip on a route. The time is measured from "noon minus 12h" (effectively midnight, except for days on which daylight savings time changes occur) at the beginning of the service date. For times occurring after midnight on the service date, enter the time as a value greater than 24:00:00 in HH:MM:SS local time for the day on which the trip schedule begins. If you don't have separate times for arrival and departure at a stop, enter the same value for arrival_time and departure_time. If this stop isn't a time point, use an empty string value for the arrival_time and departure_time fields. Stops without arrival times will be scheduled based on the nearest preceding timed stop. To ensure accurate routing, please provide arrival and departure times for all stops that are time points. Do not interpolate stops. You must specify arrival and departure times for the first and last stops in a trip. Times must be eight digits in HH:MM:SS format (H:MM:SS is also accepted, if the hour begins with 0). Do not pad times with spaces. The following columns list stop times for a trip and the proper way to express those times in the departure_time field: Time departure_time value 08:10:00 A.M. 08:10:00 or 8:10:00 01:05:00 P.M . 13:05:00 07:40:00 P.M . 19:40:00 01:55:00 A.M . 25:55:00 starNOTE: Trips that span multiple dates will have stop times greater than 24:00:00. For example, if a trip begins at 10:30:00 p.m. and ends at 2:15:00 a.m. on the following day, the stop times would be 22:30:00 and 26:15:00. Entering those stop times as 22:30:00 and 02:15:00 would not produce the desired results.	**ANO**
stop_id	Required	Contains an ID that uniquely identifies a stop. Multiple routes may use the same stop. The stop_id is referenced from the stops.txt file. If location_type is used in stops.txt, all stops referenced in stop_times.txt must have location_type of 0. Where possible, stop_id values should remain consistent between feed updates. In other words, stop A with stop_id 1 should have stop_id 1 in all subsequent data updates. If a stop is not a time point, enter blank values for arrival_time and departure_time.	**ANO**
stop_sequence	Required	Identifies the order of the stops for a particular trip. The values for stop_sequence must be non-negative integers, and they must increase along the trip. For example, the first stop on the trip could have a stop_sequence of 1, the second stop on the trip could have a stop_sequence of 23, the third stop could have a stop_sequence of 40, and so on.	**ANO**

stop_headsign	Optional	Contains the text that appears on a sign that identifies the trip's destination to passengers. Use this field to override the default trip_headsign (in trips.txt) when the headsign changes between stops. If this headsign is associated with an entire trip, use trip_headsign instead.	NE
pickup_type	Optional	Indicates whether passengers are picked up at a stop as part of the normal schedule or whether a pickup at the stop is not available. This field also allows the transit agency to indicate that passengers must call the agency or notify the driver to arrange a pickup at a particular stop. Valid values for this field are: 0: Regularly scheduled pickup 1: No pickup available 2: Must phone agency to arrange pickup 3: Must coordinate with driver to arrange pickup The default value for this field is 0.	**ANO**
drop_off_type	Optional	Indicates whether passengers are dropped off at a stop as part of the normal schedule or whether a drop off at the stop is not available. This field also allows the transit agency to indicate that passengers must call the agency or notify the driver to arrange a drop off at a particular stop. Valid values for this field are: 0: Regularly scheduled drop off 1: No drop off available 2: Must phone agency to arrange drop off 3: Must coordinate with driver to arrange drop off The default value for this field is 0.	**ANO**
shape_dist_traveled	Optional	When used in the stop_times.txt file, this field positions a stop as a distance from the first shape point. The shape_dist_traveled field represents a real distance traveled along the route in units such as feet or kilometers. For example, if a bus travels a distance of 5.25 kilometers from the start of the shape to the stop, the shape_dist_traveled for the stop ID would be entered as "5.25". This information allows the trip planner to determine how much of the shape to draw when showing part of a trip on the map. The values used for shape_dist_traveled must increase along with stop_sequence: they cannot be used to show reverse travel along a route. The units used for shape_dist_traveled in the stop_times.txt file must match the units that are used for this field in the shapes.txt file.	NE
timepoint	Optional	Indicates if the specified arrival and departure times for a stop are strictly adhered to by the transit vehicle or if they are instead approximate and/or interpolated times. The field allows a GTFS producer to provide interpolated stop times that potentially incorporate local knowledge, but still indicate if the times are approximate. For stop-time entries with specified arrival and departure times, valid values for this field are: empty: Times are considered exact. 0: Times are considered approximate. 1: Times are considered exact. For stop-time entries without specified arrival and departure times, feed consumers must interpolate arrival and departure times. Feed producers may optionally indicate that such an entry is not a timepoint (value=0) but it is an error to mark a entry as a timepoint (value=1) without specifying arrival and departure times.	NE

Calendar.txt

service_id	Required	Contains an ID that uniquely identifies a set of dates when service is available for one or more routes. Each service_id value can appear at most once in a calendar.txt file. This value is dataset unique. It is referenced by the trips.txt file.	**ANO**
monday	Required	Contains a binary value that indicates whether the service is valid for all Mondays. A value of 1 indicates that service is available for all Mondays in the date range. (The date range is specified using the start_date and end_date fields.) A value of 0 indicates that service is not available on Mondays in the date range. starNOTE: You can list exceptions for particular dates, such as holidays, in the calendar_dates.txt file.	**ANO**
tuesday	Required	Contains a binary value that indicates whether the service is valid for all Tuesdays. A value of 1 indicates that service is available for all Tuesdays in the date range. (The	**ANO**

		date range is specified using the start_date and end_date fields.) A value of 0 indicates that service is not available on Tuesdays in the date range. starNOTE: You can list exceptions for particular dates, such as holidays, in the calendar_dates.txt file.	
wednesday	Required	Contains a binary value that indicates whether the service is valid for all Wednesdays. A value of 1 indicates that service is available for all Wednesdays in the date range. (The date range is specified using the start_date and end_date fields.) A value of 0 indicates that service is not available on Wednesdays in the date range. starNOTE: You can list exceptions for particular dates, such as holidays, in the calendar_dates.txt file.	**ANO**
thursday	Required	Contains a binary value that indicates whether the service is valid for all Thursdays. •A value of 1 indicates that service is available for all Thursdays in the date range. (The date range is specified using the start_date and end_date fields.) A value of 0 indicates that service is not available added on Thursdays in the date range. *NOTE: You can list exceptions for particular dates, such as holidays, in the calendar_dates.txt file.	**ANO**
friday	Required	Contains a binary value that indicates whether the service is valid for all Fridays. A value of 1 indicates that service is available for all Fridays in the date range. (The date range is specified using the start_date and end_date fields.) A value of 0 indicates that service is not available on Fridays in the date range. starNOTE: You can list exceptions for particular dates, such as holidays, in the calendar_dates.txt file.	**ANO**
saturday	Required	Contains a binary value that indicates whether the service is valid for all Saturdays. A value of 1 indicates that service is available for all Saturdays in the date range. (The date range is specified using the start_date and end_date fields.) A value of 0 indicates that service is not available on Saturdays in the date range. starNOTE: You can list exceptions for particular dates, such as holidays, in the calendar_dates.txt file.	**ANO**
Sunday	Required	Contains a binary value that indicates whether the service is valid for all Sundays. A value of 1 indicates that service is available for all Sundays in the date range. (The date range is specified using the start_date and end_date fields.) A value of 0 indicates that service is not available on Sundays in the date range. starNOTE: You can list exceptions for particular dates, such as holidays, in the calendar_dates.txt file.	**ANO**
start_date	Required	The start_date field contains the start date for the service. The start_date field's value should be in YYYYMMDD format.	**ANO**
end_date	Required	Contains the end date for the service. This date is included in the service interval. The end_date field's value should be in YYYYMMDD format.	**ANO**

Calendar_dates.txt

service_id	Required	Contains an ID that uniquely identifies a set of dates when a service exception is available for one or more routes. Each (service_id, date) pair can only appear once in calendar_dates.txt. If the a service_id value appears in both the calendar.txt and calendar_dates.txt files, the information in calendar_dates.txt modifies the service information specified in calendar.txt. This field is referenced by the trips.txt file.	**ANO**
date	Required	Specifies a particular date when service availability is different than the norm. You can use the exception_type field to indicate whether service is available on the specified date. The date field's value should be in YYYYMMDD format.	**ANO**
exception_type	Required	Indicates whether service is available on the date specified in the date field. A value of 1 indicates that service has been added for the specified date. A value of 2 indicates that service has been removed for the specified date. For example, suppose a route has one set of trips available on holidays and another set of trips available on all other days. You could have one service_id that corresponds to the regular service schedule and another service_id that corresponds to the holiday schedule. For a particular holiday, you would use the calendar_dates.txt file to add the holiday to the holiday service_id and to remove the holiday from the regular service_id schedule.	**ANO**

Fare_attributes.txt

fare_id	Required	Contains an ID that uniquely identifies a fare class. The fare_id is dataset unique.	**ANO**
price	Required	Contains the fare price, in the unit specified by currency_type.	**ANO**
currency_type	Required	Defines the currency used to pay the fare. Please use the ISO 4217 alphabetical currency codes which can be found at the following URL: http://en.wikipedia.org/wiki/ISO_4217.	**ANO**
payment_method	Required	The payment_method field indicates when the fare must be paid. Valid values for this field are: 0: Fare is paid on board. 1: Fare must be paid before boarding.	**ANO**
transfers	Required	Specifies the number of transfers permitted on this fare. Valid values for this field are: 0: No transfers permitted on this fare. 1: Passenger may transfer once. 2: Passenger may transfer twice. (empty): If this field is empty, unlimited transfers are permitted.	**ANO**
transfer_duration	Optional	Specifies the length of time in seconds before a transfer expires. When used with a transfers value of 0, the transfer_duration field indicates how long a ticket is valid for a fare where no transfers are allowed. Unless you intend to use this field to indicate ticket validity, transfer_duration should be omitted or empty when transfers is set to 0.	**ANO**
agency_id	Extensions	Use this field to associate the fare attributes to routes of one specific agency.	**ANO**
transfers	Extensions	Google Transit accepts values from 0 to 5; the GTFS spec states that it can take values from 0 to 2. Use this field to set the maximum number of transfers (excluding block transfers) allowed with the fare.	**ANO**

Fare_rules.txt

fare_id	Required	Contains an ID that uniquely identifies a fare class. This value is referenced from the fare_attributes.txt file.	**ANO**
route_id	Optional	Associates the fare ID with a route. Route IDs are referenced from the routes.txt file. If you have several routes with the same fare attributes, create a row in fare_rules.txt for each route. For example, if fare class "b" is valid on route "TSW" and "TSE", the fare_rules.txt file would contain these rows for the fare class: b,TSW b,TSE	**ANO**
origin_id	Optional	Associates the fare ID with an origin zone ID (referenced from the stops.txt file). If you have several origin IDs with the same fare attributes, create a row in fare_rules.txt for each origin ID. For example, if fare class "b" is valid for all travel originating from either zone "2" or zone "8", the fare_rules.txt file would contain these rows for the fare class: b, , 2 b, , 8	**ANO**
destination_id	Optional	Associates the fare ID with a destination zone ID (referenced from the stops.txt file). If you have several destination IDs with the same fare attributes, create a row in fare_rules.txt for each destination ID. For example, you could use the origin_ID and destination_ID fields together to specify that fare class "b" is valid for travel between zones 3 and 4, and for travel between zones 3 and 5, the fare_rules.txt file would contain these rows for the fare class: b, , 3,4 b, , 3,5	**ANO**
contains_id	Optional	Associates the fare ID with a zone ID (referenced from the stops.txt file. The fare ID is then associated with itineraries that pass through every contains_id zone. For example, if fare class "c" is associated with all travel on the GRT route that passes through zones 5, 6, and 7 the fare_rules.txt would contain these rows: c,GRT,,,5 c,GRT,,,6 c,GRT,,,7 Because all contains_id zones must be matched for the fare to apply, an itinerary that passes through zones 5 and 6 but not zone 7 would not have fare class "c". For more detail, see FareExamples in the GoogleTransitDataFeed project wiki.	**ANO**

Shapes.txt

shape_id	Required	Contains an ID that uniquely identifies a shape.	**ANO**
shape_pt_lat	Required	Associates a shape point's latitude with a shape ID. The field value must be a valid WGS 84 latitude. Each row in shapes.txt represents a shape point in your shape definition. For example, if the shape "A_shp" has three points in its definition, the shapes.txt file might contain these rows to define the shape: A_shp,37.61956,-122.48161,0 A_shp,37.64430,-122.41070,6 A_shp,37.65863,-122.30839,11	**ANO**
shape_pt_lon	Required	Associates a shape point's longitude with a shape ID. The field value must be a valid WGS 84 longitude value from -180 to 180. Each row in shapes.txt represents a shape point in your shape definition. For example, if the shape "A_shp" has three points in its definition, the shapes.txt file might contain these rows to define the shape: A_shp,37.61956,-122.48161,0 A_shp,37.64430,-122.41070,6 A_shp,37.65863,-122.30839,11	**ANO**
shape_pt_sequence	Required	Associates the latitude and longitude of a shape point with its sequence order along the shape. The values for shape_pt_sequence must be non-negative integers, and they must increase along the trip. For example, if the shape "A_shp" has three points in its definition, the shapes.txt file might contain these rows to define the shape: A_shp,37.61956,-122.48161,0 A_shp,37.64430,-122.41070,6 A_shp,37.65863,-122.30839,11	**ANO**
shape_dist_traveled	Optional	When used in the shapes.txt file, this field positions a shape point as a distance traveled along a shape from the first shape point. The shape_dist_traveled field represents a real distance traveled along the route in units such as feet or kilometers. This information allows the trip planner to determine how much of the shape to draw when showing part of a trip on the map. The values used forshape_dist_traveled must increase along with shape_pt_sequence: they cannot be used to show reverse travel along a route. The units used for shape_dist_traveled in the shapes.txt file must match the units that are used for this field in the stop_times.txt file. For example, if a bus travels along the three points defined above for A_shp, the additional shape_dist_traveled values (shown here in kilometers) would look like this: A_shp,37.61956,-122.48161,0,0 A_shp,37.64430,-122.41070,6,6.8310 A_shp,37.65863,-122.30839,11,15.8765	NE

Frequencies.txt

Field Name	Required	Details	
trip_id	Required	Contains an ID that identifies a trip on which the specified frequency of service applies. Trip IDs are referenced from the trips.txt file.	**ANO**
start_time	Required	Specifies the time at which service begins with the specified frequency. The time is measured from "noon minus 12h" (effectively midnight, except for days on which daylight savings time changes occur) at the beginning of the service date. For times occurring after midnight, enter the time as a value greater than 24:00:00 in HH:MM:SS local time for the day on which the trip schedule begins. For example, 25:35:00.	**ANO**
end_time	Required	Indicates the time at which service changes to a different frequency (or ceases) at the first stop in the trip. The time is measured from "noon minus 12h" (effectively midnight, except for days on which daylight savings time changes occur) at the beginning of the service date. For times occurring after midnight, enter the time as a value greater than 24:00:00 in HH:MM:SS local time for the day on which the trip schedule begins. For example, 25:35:00.	**ANO**
headway_secs	Required	Indicates the time between departures from the same stop (headway) for this trip type, during the time interval specified by start_time and end_time. The headway value must be entered in seconds. Periods in which headways are defined (the rows in frequencies.txt) shouldn't overlap for the same trip, because it's hard to determine what should be inferred from two overlapping headways. However, a headway period may begin at the exact same time that another one ends, for instance: A, 05:00:00, 07:00:00, 600 B, 07:00:00, 12:00:00, 1200	**ANO**

exact_times	Optional	Determines if frequency-based trips should be exactly scheduled based on the specified headway information. Valid values for this field are: 0 or (empty): Frequency-based trips are not exactly scheduled. This is the default behavior. 1: Frequency-based trips are exactly scheduled. For a frequencies.txt row, trips are scheduled starting with trip_start_time = start_time + x * headway_secs for all x in (0, 1, 2, ...) where trip_start_time < end_time. The value of exact_times must be the same for all frequencies.txt rows with the same trip_id. If exact_times is 1 and a frequencies.txt row has a start_time equal to end_time, no trip must be scheduled. When exact_times is 1, care must be taken to choose an end_time value that is greater than the last desired trip start time but less than the last desired trip start time + headway_secs.	**ANO**

Transfer.txt

from_stop_id	Required	Contains a stop ID that identifies a stop or station where a connection between routes begins. Stop IDs are referenced from the stops.txt file. If the stop ID refers to a station that contains multiple stops, this transfer rule applies to all stops in that station.	**ANO**
to_stop_id	Required	Contains a stop ID that identifies a stop or station where a connection between routes ends. Stop IDs are referenced from the stops.txt file. If the stop ID refers to a station that contains multiple stops, this transfer rule applies to all stops in that station.	**ANO**
transfer_type	Required	Specifies the type of connection for the specified (from_stop_id, to_stop_id) pair. Valid values for this field are: 0 or (empty): This is a recommended transfer point between two routes. 1: This is a timed transfer point between two routes. The departing vehicle is expected to wait for the arriving one, with sufficient time for a passenger to transfer between routes. 2: This transfer requires a minimum amount of time between arrival and departure to ensure a connection. The time required to transfer is specified by min_transfer_time. 3: Transfers are not possible between routes at this location.	**ANO**
min_transfer_time	Optional	When a connection between routes requires an amount of time between arrival and departure (transfer_type=2), this field defines the amount of time that must be available in an itinerary to permit a transfer between routes at these stops. The min_transfer_time must be sufficient to permit a typical rider to move between the two stops, including buffer time to allow for schedule variance on each route. The min_transfer_time value must be entered in seconds, and must be a non-negative integer.	**ANO**
from_route_id	Extensions		**ANO**
to_route_id	Extensions		**ANO**
from_trip_id	Extensions		**ANO**
to_trip_id	Extensions		**ANO**

Feed_info.txt

feed_publisher_name	Required	Contains the full name of the organization that publishes the feed. (This may be the same as one of the agency_name values in agency.txt.) GTFS-consuming applications can display this name when giving attribution for a particular feed's data.	**ANO**
feed_publisher_url	Required	Contains the URL of the feed publishing organization's website. (This may be the same as one of the agency_url values in agency.txt.) The value must be a fully qualified URL that includes http:// or https://, and any special characters in the URL must be correctly escaped. For a description of how to create fully-qualified URL values, see http://www.w3.org/Addressing/URL/4_URI_Recommentations.html.	**ANO**
feed_lang	Required	Contains a IETF BCP 47 language code specifying the default language used for the text in this feed. This setting helps GTFS consumers choose capitalization rules and other language-specific settings for the feed. For an introduction to IETF BCP 47, please refer to http://www.rfc-editor.org/rfc/bcp/bcp47.txt and http://www.w3.org/International/articles/language-tags/.	**ANO**
feed_start_date	Optional	The feed provides complete and reliable schedule information for service in the period from the beginning of the feed_start_date day to the end of the feed_end_date day. Both	**ANO**

		days are given as dates in YYYYMMDD format as for calendar.txt, or left empty if unavailable.	
feed_end_date		The feed_end_date date must not precede the feed_start_date date if both are given. Feed providers are encouraged to give schedule data outside this period to advise of likely future service, but feed consumers should treat it mindful of its non-authoritative status. If feed_start_date or feed_end_date extend beyond the active calendar dates defined in calendar.txt and calendar_dates.txt, the feed is making an explicit assertion that there is no service for dates within the feed_start_date or feed_end_date range but not included in the active calendar dates.	**ANO**
feed_version	Optional	The feed publisher can specify a string here that indicates the current version of their GTFS feed. GTFS-consuming applications can display this value to help feed publishers determine whether the latest version of their feed has been incorporated.	**ANO**

Translations.txt

trans_id	Required	This is used to match values in any URL or human-readable text field in the feed. The fields that qualify for translation typically end in "_name", "_desc", "_headsign", and "_url".	**ANO**
lang	Required	A BCP 47 code for the language of the translated value. For more guidance on specifying a language code, see Language Tags in HTML and XML and Picking the Right Language Code.	**ANO**
translation	Required	The translated value in the specified language. Whenever the contents of the feed are displayed in the language specified in the lang field, values matching trans_id will be replaced with the value specified here	**ANO**

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Ing. Tomáš Chlebničan
jednatel