

General Transit Feed Specification (GTFS) - Timetable Feed for NSW Buses

Fileset Consumer Guide



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Change Record and Documentation Control

Version	Date	Name	Change Reference
1.0	15-Apr-2016	TfNSW	Release Version
1.1	6-July-2016	TfNSW	References to stop_note and trip_note updated

Related Documents

Ref	Document Name	Version / Date	Location
01	GTFS Guides on Google Developers	Accessed 26-Oct-2015	https://developers.google.com/transit/gtfs/?hl=en
02	Realtime Transit on Google Developers	Accessed 26-Oct-2015	https://developers.google.com/transit/gtfs-realtime/

1 Introduction

1.1 Overview

The purpose of this document is to describe the structure and contents of the Bus Timetable data feed supplied by NSW Transport for consumption and use by Transport for NSW systems and business units and application developers.

The Bus Timetable data feed is in the form of a General Transit Feed Specification fileset, known as 'GTFS'.

The intended audience of this document is application developers.

While GTFS is well documented, it provides several optional fields and some flexibility in how to populate some fields. This document provides some general information regarding the specific contents and structure of the GTFS Timetable Feed for NSW Buses.

1.2 Purpose of GTFS Bus Fileset

The purpose of the GTFS Bus Timetable Feed is to publish in advance the schedules and route information of Bus services operated under the Sydney Metropolitan and Outer Sydney Metropolitan Bus Services Contracts ('O/SMBSC'), plus Sydney NightRide and Sydney Olympic Park Major Events Bus Contracts.

Consumers of the GTFS Bus Timetable Feed are expected to include:

- TfNSW Transport Info (<http://www.transportnsw.info>);
- Realtime Transport App providers (<http://www.transportnsw.info/en/travelling-with-us/keep-updated/apps/real-time-transport.page>);
- Google Maps, Apple Maps, other online services.

1.3 Definition of Terms Used

Term	Definition
GTFS	The General Transit Feed Specification (GTFS) defines a common format for public transportation schedules and associated geographic information.
GTFS-R	GTFS-realtime is a feed specification that allows public transportation agencies to provide realtime updates about their fleet to application developers. It is an extension to GTFS.
O/SMBSC	The current (at time of writing) contracts between Bus Operators and TfNSW for providing Bus services in Sydney, Newcastle, Wollongong and surrounding areas. <ul style="list-style-type: none">• SMBSC: Sydney Metropolitan Bus Service Contract• OSMBSC: Outer Sydney Metropolitan Bus Services Contract
Operator	Business contracted by TfNSW to operate a group of Bus Routes.
Vehicle Journey ID	A globally unique identifier for bus trips derived as part of the TfNSW transformation process. Provides the unique ' Trip ID ' used in the GTFS Feed, and provides the link to GTFS Realtime data.

2 Background

2.1 Lifecycle of GTFS Bus Timetable Feed

A brief overview of the process to generate the GTFS Bus Timetable feed.

- Operators of Sydney and Outer Sydney bus services, NightRide and Major Events contracted services, submit Timetable information a minimum of 2 weeks prior to the 'activation date' of timetable data.
- The TfNSW system detects new data and transforms the data into a Transmodel format.
As part of this process, each Trip is analysed to determine similarity with a Vehicle Journey that already exists, based on attributes such as route path, stopping pattern, time pattern, start time and other elements.
- At the end of each calendar day, GTFS Bus Timetable filesets are generated for Contracts which have had changes successfully submitted by Operators during the day.
At the end of each week, all GTFS Bus Timetable filesets are generated to ensure the minimum of 100 days of advanced timetable data is available.
- During GTFS Bus Timetable Fileset generation, timetables for which there are less than 100 days of schedules are projected up to the 100 days, based on most recent schedule information for each day-type.
- Filesets are transferred to the Open Data Hub via internal processes.

2.2 GTFS Realtime

“GTFS-realtime is a feed specification that allows public transportation agencies to provide realtime updates about their fleet to application developers. It is an extension to GTFS (General Transit Feed Specification), an open data format for public transportation schedules and associated geographic information. GTFS-realtime was designed around ease of implementation, good GTFS interoperability and a focus on passenger information.”

- 'What is GTFS-realtime', Google Realtime Transit Overview (<https://developers.google.com/transit/gtfs-realtime/>)

The TfNSW Bus GTFS Realtime feed is generated by PTIPS as part of the live bus tracking system.

3 General Technical Notes

3.1 GTF Specification Compliance

3.1.1 Variations

The fileset includes definitions for certain fields that are different to the GTF Specification:

File	Field	GTFS Definition	TfNSW Bus Definition
routes.txt	route_desc	<p>The route_desc field contains a description of a route. Please provide useful, quality information. Do not simply duplicate the name of the route.</p> <p>For example, "<i>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).</i>"</p>	<p>Describes the 'Bus Network' that the Route belongs to.</p> <p>Defined by TfNSW.</p> <p>For example:</p> <ul style="list-style-type: none"> • "Sydney Buses Network" • "Illawarra Buses Network" <p>...etc...</p>
routes.txt	route_type	<p>The route_type field describes the type of transportation used on a route. Valid values for this field are:</p> <ol style="list-style-type: none"> 0. <i>Tram, Streetcar, Light rail. Any light rail or street level system within a metropolitan area.</i> 1. <i>Subway, Metro. Any underground rail system within a metropolitan area.</i> 2. <i>Rail. Used for intercity or long-distance travel.</i> 3. <i>Bus. Used for short- and long-distance bus routes.</i> 4. <i>Ferry. Used for short- and long-distance boat service.</i> 5. <i>Cable car. Used for street-level cable cars where the cable runs beneath the car.</i> 6. <i>Gondola, Suspended cable car. Typically used for aerial cable cars where the car is suspended from the cable.</i> 7. <i>Funicular. Any rail system designed for steep inclines.</i> 	<p>Is a code indicating the Route Type of the Route, as per the extended GTFS route types following Hierarchical Vehicle Type (HVT) codes from the European TPEG standard</p> <p>Refer to https://support.google.com/transitpartners/answer/3520902?hl=en&ref_topic=1095593</p>

3.1.2 Extensions

The fileset includes additional fields that do not for part of the GTF Specification:

File	Field	Purpose	Contents
stop_times.txt	stop_note	To reference text contained in notes.txt, being Notes provided by Operators for each Stop, to be available to Customers.	Freetext
trips.txt	trip_note	To reference text contained in notes.txt, being Notes provided by Operators for each Trip, to be available to Customers.	Freetext
trips.txt	route_direction	To reflect the Route Direction Name for each Trip, to be visible to Customers in Timetables.	Freetext
notes.txt	note_id note_text	To reflect note text for Stop Notes and Trip Notes. Entire file is an extension to GTFS.	Freetext

3.2 Publication Cycle & Scope

3.2.1 One Regular Contract Per Filesset; NightRide Filesset; Major Events Filesset

In order to optimise the GTFS File sizes, and to align Filesset generation with actual updates received from Operators, the full GTFS timetable feed is broken into separate Filessets.

- Each O/SMBSC Contract will be represented in a single GTFS Filesset .zip file. For example, there will be a Filesset for SMBSC001, one for SMBSC002 and so-on.
- All Night Ride bus services will be published in a single separate GTFS Filesset.
- All Major Event bus services will be published in a single separate GTFS Filesset.

The full GTFS Filesset will be represented across 28 .zip files:

- 14 x Sydney Metro Contracts
- 12 x Outer Sydney Metro Contracts
- 1 x Night Ride (all)
- 1 x Major Events (all)

3.2.2 Validity Period and Timetable Projection

Filesset for each Contract will contain:

- timetables commencing the day of generation
- a minimum of 100 days of timetables
 - Schedule information provided by Operator in full. This may be a little as a few weeks to 180 days or more.
 - Projected information up to the minimum of 100 days, where less than 90 days of schedule information has been provided. The projection is based on the most recent information provided by Operators.

3.2.3 Generation Triggers

GTFS Filesets are generated:

- Every evening for each Fileset (O/SMBSC Contract, Nightride, Major Events) for which the responsible Operator(s) have submitted updated schedule information during the previous day.
- Every Sunday evening for all Filesets.

3.2.4 Modes / Geography

The GTFS Bus Timetable fileset specified in this document contains data for:

- All bus services contracted to TfNSW under the Outer / Sydney Metropolitan Bus Services Contracts ('O/SMBSC').
- Nightride and Sydney Olympic Park Major Event Bus Services.

These are detailed in **Section 5.2 below**.

The fileset excludes:

- Data for modes other than Sydney Metropolitan Buses.
These modes are Sydney Trains, Sydney Ferries, Sydney Light Rail, NSW TrainLink Regional Trains and Coaches, Regional private buses
- Other services, including:
 - Charters operated on behalf of private companies;
 - Special services not part of the O/SMBSC, NightRide and Sydney Olympic Park Major Event contracts.
 - Trackwork buses

3.3 Standards Applied

3.3.1 Identifiers

Many of the identifiers used within the feed include underscore (_) to join elements. Care may need to be taken to consider this when using the data or developing applications.

3.3.2 Value Quoting

All values in the text files are double-quoted. This includes numeric values and empty values.

For example (from agency.txt):

```
agency_id,agency_name,agency_url,agency_timezone,agency_lang,agency_phone  
"23537","Transdev NSW","http://transportnsw.info","Australia/Sydney","EN","131500"
```

3.4 File Structure

3.4.1 Single Fileset Contents:

Each fileset will be a 'ZIP' format compressed archive – a .zip file - containing 9 text files.

Each file within the .zip file is a comma delimited / comma separated format file with the ".txt" extension.

For example:

Name	Type
agency.txt	Text Document
calendar.txt	Text Document
calendar_dates.txt	Text Document
notes.txt	Text Document
routes.txt	Text Document
shapes.txt	Text Document
stops.txt	Text Document
stop_times.txt	Text Document
trips.txt	Text Document

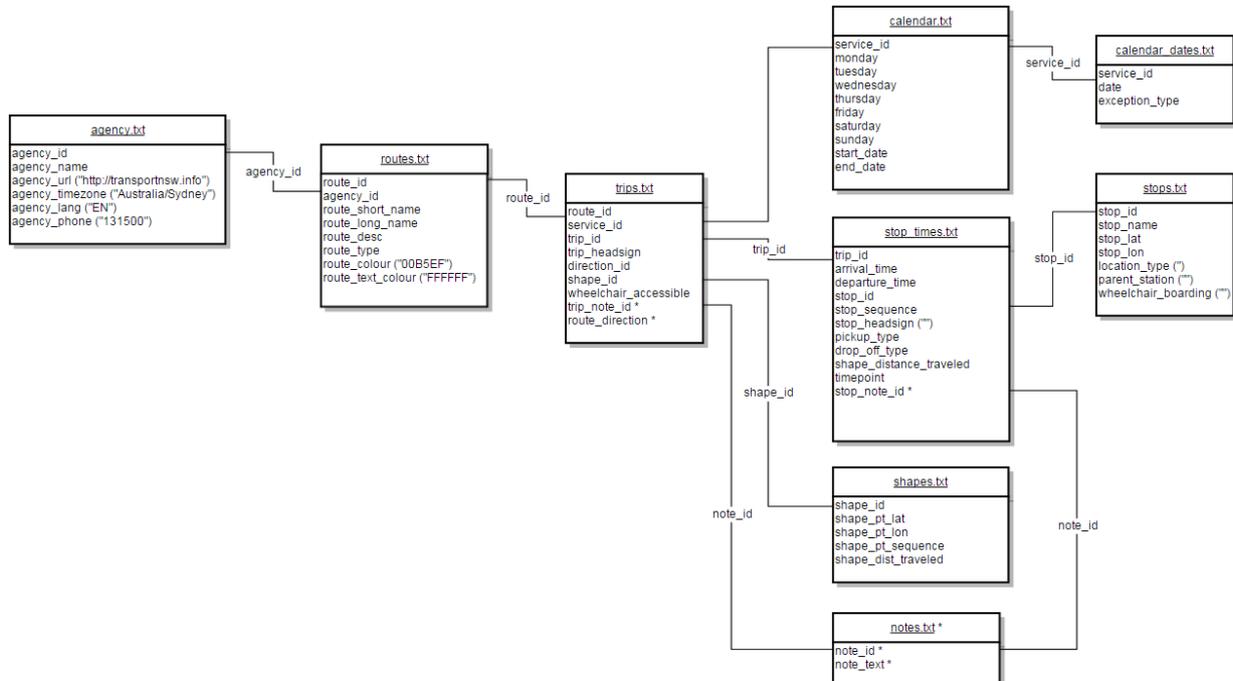
3.5 File Size

Compressed (.zip) filesets range in size from 100KB to 11 MB. Filesets are unlikely to ever be larger than 20MB each.

4 GTFS Timetable Feed for NSW Buses

4.1 Overview

The following diagram provides a physical data model view of the relationship between the TfNSW GTFS Bus Timetable Fileset files and fields.



Understanding this diagram:

- This is a representation of the relationships between the components of the GTFS Timetable fileset as implemented by TfNSW.
- "*" denotes a TfNSW implemented extension on the GTFS standard.
- GTFS files and columns not implemented by TfNSW are not shown.
- Columns showing ("text") indicates hardcoded content.

4.2 agency.txt

Defines one or more transit agencies (Operators) that provide the data in this feed.

Note that for each O/SMBSC Fileset, there will be a single Agency record. For each of the NightRide and Major Events Fileset, there will be multiple Agency records.

Field	Included	TfNSW GTFS Bus Timetable Fileset Definition
agency_id	Yes	The Contract ID, allocated by TfNSW. For Example: "2447"
agency_name	Yes	The Operator's 'Customer Facing Name'. Note that this is not necessarily the same as the legal entity name. For example: "Transdev NSW"
agency_url	Yes	For all: "http://transportnsw.info"
agency_timezone	Yes	For all: "Australia/Sydney"
agency_lang	Yes	For all: "EN"
agency_phone	Yes	For all: "131500"
agency_fare_url	No	N/A

4.3 calendar_dates.txt

Defines exceptions for the service IDs defined in the calendar.txt file.

Field	Included	TfNSW GTFS Bus Timetable Fileset Definition
service_id	Yes	The internally generated ID that identifies a set of dates when a service exception is available for one or more routes. This identifier will be unique only within a GTFS Fileset, for example for a single Contract. This number has no meaning outside the Fileset.
date	Yes	The date field specifies a particular date when service availability is different than the norm. For Example: "20160315"
exception_type	Yes	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.

4.4 calendar.txt

Dates for service IDs using a weekly schedule. Specify when service starts and ends, as well as days of the week where service is available.

Field	Included	TfNSW GTFS Bus Timetable Fileset Definition
service_id	Yes	The service_id contains an ID that uniquely identifies a set of dates when service is available for one or more routes. This identifier will be unique only within a GTFS Fileset, for example for a single Contract. This number has no meaning outside the Fileset.
monday	Yes	Each day field contains a binary value that indicates whether the service is valid for all of that day. A value of 1 indicates that service is available for all of that day 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 that day in the date range. Note: Exceptions for particular dates, such as public holidays and service differences between school term and non-school term, are represented for the service_id in the calendar_dates.txt file.
tuesday	Yes	
wednesday	Yes	
thursday	Yes	
friday	Yes	
saturday	Yes	
sunday	Yes	
start_date	Yes	The start_date field contains the start date for the service.
end_date	Yes	The end_date field contains the end date for the service. This date is included in the service interval.

4.5 routes.txt

Transit routes. A route is a group of trips that are displayed to riders as a single service.

Field	Included	TfNSW GTFS Bus Timetable Fileset Definition
route_id	Yes	The route_id field contains an ID that uniquely identifies a route. The route_id is dataset unique. Constructed as "(CONTRACT ID)_(ROUTE ID)" For example: "2447_10A"
agency_id	Yes	The O/SMBSC Contract ID, allocated by TfNSW. For Example: "2447"
route_short_name	Yes	The short code identifying the Route to the public. Sourced from the Bus Contracts Management System. For example: "10A"
route_long_name	Yes	The long name identifying the Route to the public. Sourced from the Bus Contracts Management System. For example: "Marrickville Metro to City"
route_desc	Yes	Note: TfNSW Variation. Indicates the Bus Network that the Route belongs to. The Bus Network is defined by TfNSW For example: "Sydney Buses Network".
route_type	Yes	Note: TfNSW Variation. Indicates the Route Type of the Route. as per the extended GTFS route types following Hierarchical Vehicle Type (HVT) codes from the European TPEG standard Refer to https://support.google.com/transitpartners/answer/3520902?hl=en&ref_topic=1095593 For example: "700".
route_url	No	N/A
route_color	Yes	For all: "00B5EF"
route_text_color	Yes	For all: "FFFFFF"

4.6 shapes.txt

Rules for drawing lines on a map to represent a transit organization's routes.

Field	Included	TfNSW GTFS Bus Timetable Fileset Definition
shape_id	Yes	The shape_id field contains an ID that uniquely identifies a shape.
shape_pt_lat	Yes	These fields associate a shape point's longitude and latitude with a shape ID. The field values must be valid WGS 84 values from -180 to 180. Each row in shapes.txt represents a shape point in the trip's shape definition. For example: "-32.8407", "151.3551139"
shape_pt_lon	Yes	
shape_pt_sequence	Yes	The shape_pt_sequence field associates the latitude and longitude of a shape point with its sequence order along the shape. The values for shape_pt_sequence will be non-negative integers, and they will increase along the trip. These numbers have no meaning outside the trip point sequence.
shape_dist_traveled	Yes	The shape_dist_traveled 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 meters . The values used for shape_dist_traveled will increase along with shape_pt_sequence: they cannot be used to show reverse travel along a route.

4.7 stop_times.txt

Times that a vehicle arrives at and departs from individual stops for each trip.

Field	Included	TfNSW GTFS Bus Timetable Fileset Definition
trip_id	Yes	The trip_id field contains an ID that identifies a trip. This value is referenced from the trips.txt file. This ID is internally generated by TfNSW as a Vehicle Journey ID . This ID is not the same as the trip ID used by Operators.
arrival_time	Yes	The arrival time at a specific stop for a specific trip on a route. Times for trips starting before 04:00 am will be expressed in '36 hour format'. For example: "25:07" (01:07 am)
departure_time	Yes	The departure time from a specific stop for a specific trip on a route. Times for trips starting before 04:00 am will be expressed in '36 hour format'. For example: "25:09" (01:09 am)
stop_id	Yes	The TSN ID for the Stop. This uniquely identifies a stop. This ID is the unique Transit Stop Number that identifies a stop in the Transit Stop Management System ('TSM') , the original Transit Stop reference resource maintained by TfNSW. For example: "220411".
stop_sequence	Yes	The sequence of the Stop within the Trip. The stop_sequence will be a non-negative integer, and will increase along the trip. For example: "3" indicates that the stop is the 3 rd in the Trip.
stop_headsign	Yes	For all: "" (i.e. null)
pickup_type	Yes	Indicates whether the Stop is for Pickup. For example: "0" indicates that regularly scheduled pickup occurs at the Stop for the Trip.
drop_off_type	Yes	Indicates whether the Stop is for Pickup. For example: "1" indicates that no drop off available for the Stop for the Trip.
shape_dist_traveled	Yes	The shape_dist_traveled 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 meters . The values used for shape_dist_traveled will increase along with stop_sequence: they cannot be used to show reverse travel along a trip.
timepoint	Yes	Indicates whether the Stop is a timing point for the Trip. Timing Points are considered more accurate than non-timing point stops. For example: "1" indicates that the Stop is a Timing Point for the Trip.

Field	Included	TfNSW GTFS Bus Timetable Fileset Definition
stop_note	Yes	<p>Note: TfNSW Extension.</p> <p>To reflect Notes provided by Operators for each Stop, to be available to Customers.</p> <p>May be empty.</p> <p>The value is referenced from the notes.txt file.</p> <p>For example: “2143” refers to notes.txt note_txt “Stops only on request”.</p>

Additional notes:

- Arrival and departing times should be used verbatim from the GTFS Timetable Feed. **Refer 5.1 below.**

4.8 stops.txt

Individual locations where vehicles pick up or drop off passengers.

Field	Included	TfNSW GTFS Bus Timetable Fileset Definition
stop_id	Yes	The Transit Stop Number (TSN) ID for the Stop. This uniquely identifies a stop. This ID is the unique TSN that identifies a stop in the Transit Stop Management System (TSM) , the original Transit Stop reference resource maintained by TfNSW. For example: “ 220411 ”
stop_code	No	N/A
stop_name	Yes	The correct name of the Stop. This Stop name is the ‘official’ name for the Stop as recorded in the TSM System. For example: “ Smidmore St Terminus ”
stop_desc	No	N/A
stop_lat	Yes	The WGS 84 longitude (‘y’ coordinate’) for the stop. For example: “ -33.907666 ”
stop_lon	Yes	The WGS 84 longitude (‘x’ coordinate’) for the stop. For example: “ 151.172236 ”
zone_id	No	N/A
stop_url	No	N/A
location_type	Yes	For all: “” (i.e. null). Indicates that the stop is a ‘Stop’ as opposed to a ‘Station’.
parent_station	Yes	For all: “” (i.e. null).
stop_timezone	No	N/A
wheelchair_boarding	Yes	For all: “” (i.e. null) Indicates there is no accessibility information for the stop.

4.9 trips.txt

Trips for each route. A trip is a sequence of two or more stops that occurs at specific time.

Field	Included	TfNSW GTFS Bus Timetable Fileset Definition
route_id	Yes	The route_id field contains an ID that uniquely identifies a route. The route_id is dataset unique. The value is referenced from route.txt. Constructed as "(CONTRACT ID)_(ROUTE ID)". For example: "2447_10A"
service_id	Yes	The service_id contains an ID that uniquely identifies a set of dates when service is available for one or more routes. This identifier will be unique only within a GTFS Fileset, for example for a single Contract. This number has no meaning outside the Fileset.
trip_id	Yes	The trip_id field contains an ID that identifies a trip. This value is referenced from the trips.txt file. This ID is internally generated by TfNSW as a Vehicle Journey ID . This ID is not the same as the trip ID used by Operators.
trip_headsign	Yes	The trip_headsign field contains the text that appears on a sign that identifies the trip's destination to passengers. For example: "Parramatta to Rouse Hill Town Centre"
trip_short_name	No	N/A
direction_id	Yes	Indicates the direction (outgoing, inbound) of the Trip. Possible values are: <ul style="list-style-type: none"> "0": Outbound "1": Inbound Note that 'Loop' services will be indicated as '1 – Inbound'.
block_id	Yes	For all: "" (i.e. null).
shape_id	Yes	Contains an ID that defines a shape for the trip. This value is referenced from the shapes.txt file.
wheelchair_accessible	Yes	Indicates wheelchair accessibility for a scheduled trip. Note that this may not be the same as the accessibility status of a trip as operated. Possible values are: <ul style="list-style-type: none"> "0": No accessibility information available. "1": Scheduled to be an accessible service.
bikes_allowed	No	N/A
trip_note	Yes	Note: TfNSW Extension. To reflect Notes provided by Operators for each Trip, to be available to Customers. May be empty. The value is referenced from the notes.txt file. For example: "2143" refers to notes.txt note_txt "Trip terminates at Railway Square".

Field	Included	TfNSW GTFS Bus Timetable Fileset Definition
route_direction	Yes	<p>Note: TfNSW Extension.</p> <p>To describe the Route Direction for each Trip, to be visible to Customers in Timetables.</p> <p>Enables grouping of Trips together in a meaningful way.</p> <p>For example: “Parramatta to Rouse Hill Town Centre via North-West T-way service”</p>

4.10 notes.txt

This file is an extension on the GTFS Fileset standard.

Contains a list of notes referenced from trips.txt and stop_times.txt.

Field	Included	TfNSW GTFS Bus Timetable Fileset Definition
note_id	Yes	Unique ID for Notes referenced in trips.txt (trip_note) and stop_times.txt (stop_note).
note_txt	Yes	Text for note used in stop_times.txt and trips.txt. A single Note may be re-used multiple times. For example: “Trip terminates at Railway Square” .

5 GTFS Timetable Feed Usage Notes

5.1 Stop Arrival and Departure Times

End users should display arrival_time and departure_time as supplied in stop_times.txt. Users should not interpolate values between timepoints.

5.2 Filesets and Operators

For each of the Bus GTFS Timetable Filesets, the current 'Agencies' are listed below. **Agency parameters for download are as follows:**

Sydney Metro:

- **SMBSC001:** Busways Western Sydney
- **SMBSC002:** Interline Bus Services
- **SMBSC003:** Transit Systems
- **SMBSC004:** Hillsbus
- **SMBSC005:** Punchbowl Bus Company
- **SMBSC006:** State Transit Sydney
- **SMBSC007:** State Transit Sydney
- **SMBSC008:** State Transit Sydney
- **SMBSC009:** State Transit Sydney
- **SMBSC010:** Transdev NSW
- **SMBSC012:** Transdev NSW
- **SMBSC013:** Transdev NSW
- **SMBSC014:** Forest Coach Lines
- **SMBSC015:** Busabout

Outer Sydney Metro:

- **OSMBSC001:** Rover Coaches
- **OSMBSC002:** Hunter Valley Buses
- **OSMBSC003:** Port Stephens Coaches
- **OSMBSC004:** Hunter Valley Buses
- **OSMBSC005:** State Transit Newcastle
- **OSMBSC006:** Busways Central Coast
- **OSMBSC007:** Red Bus Service
- **OSMBSC008:** Blue Mountains Transit
- **OSMBSC009:** Premier Charters
- **OSMBSC010:** Premier Illawarra
- **OSMBSC011:** Coastal Liner
- **OSMBSC012:** Dions Bus Service

Others:

- **Nightride:** NightRide
- **Major_Events:** Sydney Olympic Park Major Event Buses

5.3 Scope and Source of Identifiers (Keys) within the Fileset

In order for Fileset consumers to understand keys used within the GTFS Bus Timetable Filesets, the following table provides details.

Additional notes:

- Direction ID is not a key but an indicator.
- This analysis does not consider modes other than Bus.

Files	Attribute	Definition	Source	Scope	Note
agency.txt, routes.txt	agency_id	Identifies a transit agency (operator)	TfNSW Operator Accreditation ID	Unique across ALL Filesets. Will be consistent from one Fileset version to another.	
routes.txt, trips.txt	route_id	Identifies a route	Agency (operator) ID + Operator Route ID	Unique across ALL Filesets. Will be consistent from one Fileset version to another.	Route number on its own is NOT unique across filesets.
trips.txt, calendar.txt, calendar_dates.txt	service_id	Identifies a set of dates when service is available for one or more routes	Sequentially numbered 'on-the-fly' during the creation of each GTFS Fileset	Unique only with EACH fileset. Can change from one Fileset version to another.	
trip.txt, stop_times.txt	trip_id	Identifies a trip.	TfNSW generates a 'Vehicle Journey ID' for each identifiable trip encompassing route, stopping pattern, stopping times, start time and other elements. Where a trip has the same features, the Vehicle Journey is re-used.	Unique across ALL Filesets. Will be consistent from one Fileset version to another.	

Files	Attribute	Definition	Source	Scope	Note
trips.txt, shapes.txt	shape_id	Identifies a shape for the trip.	TfNSW generates a 'route path ID' for each different route path provided by Operators. Route paths are re-used where they are the same.	Unique across ALL Filesets. Will be consistent from one Fileset version to another.	Route paths that vary by even the smallest amount will produce a different route path ID.
trips.txt, stop_times.txt, notes.txt	stop_note, trip_note, note_id	stop_note and trip_note each identify a note contained in notes.txt file.	TfNSW generates a Note ID for each different note string provided by Operators. Notes are re-used where text string is the same.	Unique across ALL Filesets. Will be consistent from one Fileset version to another.	An extension to GTFS. Notes are currently suppressed in the GTFS Feed to allow Operators time to apply customer facing notes and remove operational notes.
stop_times.txt, stops.txt	stop_id	Identifies a stop or station	TfNSW 'Transit Stop Management (TSM) System'.	Unique across ALL Filesets. Will be consistent from one Fileset version to another.	