



Transport
Open Data



Manly Fast Ferry Real Time Ferry

GTFS & GTFS-R Technical Documentation

Version	Date	Author	Reason for Issue / Changes Included
0.5	3 rd July 2024	MFF	Initial draft
1.0	18 th July 2024	MFF	Initial version
2.0	15 th October 2024	MFF	Test release version
2.1	19 th March 2025	MFF	Production release version

GTFS Bundle Notes

General Notes

Manly Fast Ferry operates on Sydney Harbour and provides direct services between Manly and Circular Quay.

On weekdays during peak periods, Manly Fast Ferry operates five (5) vessels, providing departures on ten (10) minute frequency during these periods with a transit time of nineteen (19) minutes for each service.

On weekends and during off-peak periods, Manly Fast Ferry operates three (3) vessels, providing twenty (20) minute frequencies during these periods with a transit time of twenty (20) minutes for each service.

Summer services vary service delivery between mid-December and late January each year. Typically, peak commuter services are reduced and off-peak service levels increased to satisfy passenger travel demands.

The Manly Fast Ferry GTFS bundle uses standard international specifications and is sourced directly from the Navaho database. Navaho is based in the United Kingdom and provides Manly Fast Ferry with hardware and services supporting real-time ferry management.

As Navaho is based in the United Kingdom, bundles are generated at 21:00 GMT. Consumers are advised to update their systems with this data daily (refer section Calendar)

Shapes

A valid shape for the Manly Fast Ferry service is available to developers.

Calendar

Service planning is reviewed between July and August each year and timetables for the ensuing twelve (12) months are loaded and updated after confirmation by TfNSW.

As a function of the annual review, summer services can vary each year. Updated dates and timetables will normally be available in feeds prior to October each year.

Current export configuration from the Navaho database includes valid timetable data between six (6) to twelve (12) months in advance.

In circumstances where service delivery is hampered by external factors, timetables could be varied with minimal notice. Timetables on day of service will be valid and for this reason, consumers should refresh bundle data daily.

Trip Updates

General Notes

Trip updates will show prediction based on data provided by Navaho systems.

Schedule Relationship

Cancelled Trips will have a TripDescriptor 'schedule_relationship: CANCELLED'

Example

Sample file output attached as [Attachment A](#)

Vehicle Position

Coverage

Vehicle coverage is provided for the Manly to Circular Quay route. There are known blackspots on the route as it transits near Bradley's Head and vessels may briefly lose connectivity. While systems maintain reliable connectivity, nominal feed delays may be encountered in this area.

Label

Label is populated with vessel name and will be accurate for all future operations. Label can be customer facing.

Example

Sample file output attached as [Attachment A](#)

Occupancy Status

General Notes

Data for Occupancy Status is not available for the Manly Fast Ferry service.

Attachment A

```
header {
  gtfs_realtime_version: "2.0"
  incrementality: FULL_DATASET
  timestamp: 1741726531
}
entity {
  id: "1004"
  vehicle {
    trip {
      trip_id: "MFF.VJ209"
      route_id: "MFF"
      start_time: "07:45:00"
      start_date: "20250312"
      schedule_relationship: SCHEDULED
    }
    vehicle {
      id: "1004"
      label: "Ocean Flyer"
    }
  }
  position {
    latitude: -33.8430672
    longitude: 151.261734
    bearing: 30
    speed: 23
  }
  current_stop_sequence: 2
  stop_id: "209525"
  current_status: IN_TRANSIT_TO
  timestamp: 1741726529
  congestion_level: RUNNING_SMOOTHLY
  occupancy_status: NO_DATA_AVAILABLE
}
entity {
  id: "1006"
  vehicle {
    trip {
      trip_id: "MFF.VJ384"
      route_id: "MFF"
      start_time: "07:55:00"
      start_date: "20250312"
      schedule_relationship: SCHEDULED
    }
    vehicle {
      id: "1006"
      label: "Ocean Rider"
    }
  }
  position {
    latitude: -33.8601151
    longitude: 151.212234
    bearing: 184
    speed: 7
  }
  current_stop_sequence: 1
}
```

```

    stop_id: "2000212"
    current_status: INCOMING_AT
    timestamp: 1741726124
    congestion_level: RUNNING_SMOOTHLY
    occupancy_status: NO_DATA_AVAILABLE
  }
}
entity {
  id: "1005"
  vehicle {
    trip {
      trip_id: "MFF.VJ293"
      route_id: "MFF"
      start_time: "07:40:00"
      start_date: "20250312"
      schedule_relationship: SCHEDULED
    }
    vehicle {
      id: "1005"
      label: "Ocean Surfer"
    }
    position {
      latitude: -33.854023
      longitude: 151.219543
      bearing: 268
      speed: 22
    }
  }
  current_stop_sequence: 2
  stop_id: "2000212"
  current_status: IN_TRANSIT_TO
  timestamp: 1741726527
  congestion_level: RUNNING_SMOOTHLY
  occupancy_status: NO_DATA_AVAILABLE
}
}
entity {
  id: "1003"
  vehicle {
    trip {
      trip_id: "MFF.VJ375"
      route_id: "MFF"
      start_time: "07:50:00"
      start_date: "20250312"
      schedule_relationship: SCHEDULED
    }
    vehicle {
      id: "1003"
      label: "Ocean Tracker"
    }
    position {
      latitude: -33.8186531
      longitude: 151.277313
      bearing: 196
      speed: 22
    }
  }
  current_stop_sequence: 2
  stop_id: "2000212"

```

```

    current_status: IN_TRANSIT_TO
    timestamp: 1741726527
    congestion_level: RUNNING_SMOOTHLY
    occupancy_status: NO_DATA_AVAILABLE
  }
}
entity {
  id: "1002"
  vehicle {
    trip {
      trip_id: "MFF.VJ294"
      route_id: "MFF"
      start_time: "08:00:00"
      start_date: "20250312"
      schedule_relationship: SCHEDULED
    }
    vehicle {
      id: "1002"
      label: "Ocean Wave"
    }
    position {
      latitude: -33.8010483
      longitude: 151.283951
      bearing: 18
      speed: 5
    }
  }
  current_stop_sequence: 1
  stop_id: "209525"
  current_status: INCOMING_AT
  timestamp: 1741726368
  congestion_level: RUNNING_SMOOTHLY
  occupancy_status: NO_DATA_AVAILABLE
}
}

```