The following changes have been made between release 3.3.0 and 3.4.0:

Summary:

1. In response to stakeholder comments, we have adopted a more widely adopted approach - the data model, data schema and service have been adapted to use camelCase for all object names and attribute names. Previously, object names were in PascalCase.
2. All /rules endpoints and the /schemas/{id} endpoint have been retired due to redundancy.
3. Additional objects and attributes added in response to expected functional needs resulting from the Secondary Legislation – see below for details.
4. In response to stakeholder comments, we have moved "maximumAccessDuration" and "minimumTimetoNextEntry" from "permitSubjectToFee" object to "permitCondition" object.
5. Use of the extension enumerations has been clarified.
6. The ability to submit a consultation D-TRO record is now correctly supported.
7. In response to stakeholder comments, additional enumeration values to regulationType, vehicleType and permitType.
8. A few attribute datatypes have been changed.
9. Use of headers x-app-id, x-app-id-override and X-Correlation-ID has been clarified.

Detailed description:

1. The data model, data schema and service have been adapted to use camelCase for all object names and attribute names. Previously, object names were in PascalCase.
2. All /rules endpoints and the GET /schemas/{id} endpoint have been removed.

   See [Rules and Schemas Ids - Unnecessary endpoints? · Issue #37 · department-for-transport-public/D-TRO](Rules%20and%20Schemas%20Ids), [Rules endpoints - escaped/control characters in response · Issue #38 · department-for-transport-public/D-TRO](Rules%20endpoints)

3. Additional objects and attributes added in response to expected functional needs resulting from the Secondary Legislation.

   Note: many of these changes apply to Made orders (whether on initial making, amendment or revocation). The following orderReportPoint types are included in the list of Made orders:

   - "experimentalAmendment",
   - "experimentalMakingPermanent",
   - "experimentalNoticeOfMaking",
   - "experimentalRevocation",
   - "permanentAmendment",

- "permanentNoticeOfMaking",
- "permanentRevocation",
- "specialEventOrderNoticeOfMaking",
- "ttroTtmoByNotice",
- "ttroTtmoExtension",
- "ttroTtmoNoticeAfterMaking",
- "ttroTtmoNoticeOfIntention",
- "ttroTtmoRevocation",
- "variationByNotice"

These are referred to as *Made Orders* in the notes below.

3.1 "source" object:

3.1.1 Add attribute

- name: madeDate
- type: date
- multiplicity: [0..1]
    - validation – mandatory for *Made Orders*

3.1.2 Add attribute

- name: "comingIntoForceDate"
- type: date
- multiplicity [0..1]
- validation - mandatory for *Made Orders*

3.1.3 Add attribute:

- name: "statementDescription"
- type: string
- multiplicity [0..1]
- validation - mandatory for *Made Orders*

3.2 "provision" object

3.2.1 Add attribute:

- name: "comingIntoForceDate"
- type: date
- multiplicity [0..1]
- validation - mandatory for these *Made Orders*

3.2.2 Add attribute:

- name: "expectedOccupancyDuration"
- type: duration
- multiplicity [0..1]

3.3 Add linked object (linked to provision object):

- name: "actualStartOrStop"
- multiplicity [1..*]

- attributes:
    o name: "eventDateTime
    o type: dateTime

    o name: "eventType"
    o type: eventType
    o values: "start", "stop"

- validation – Not mandatory in the schema (required under specific situations by policy and legislation); can only be applied to TTRO type orderReportingPoint types:

    - "ttroTtmoByNotice"
    - "ttroTtmoExtension"
    - "ttroTtmoNoticeAfterMaking"
    - "ttroTtmoNoticeOfIntention"
    - "ttroTtmoRevocation"
    - "ttroTtmoByNotice"

3.4 Add linked object:

- name: "experimentalVariation"
- multiplicity [0..1]

- attributes:
    o name: "effectOfChange"
    o type: string
    o multiplicity [1]

    o name: "expectedDuration"
    o type: duration
    o multiplicity [1]

- validation - Not mandatory in the schema (required under specific situations by policy and legislation); can only be applied to "experimentalAmendment" orderReportingPoint type.

3.5 Add linked object:

- name: "experimentalCessation"
- multiplicity: [0..1]

- attributes:
  - name: "natureOfCessation"
  - type: string
  - multiplicity [1]

  - name: "actualDateOfCessation"
  - type: date
  - multiplicity [1]

- validation - Not mandatory in the schema (required under specific situations by policy and legislation); can only be applied to "experimentalRevocation" orderReportingPoint type.

3.6 "regulatedPlace" object

3.6.1 Add attribute:

- name: "concession"
- type: boolean;
- multiplicity [0..1]
- validation – mandatory for *Made Orders*

3.6.2 Add attribute:

- name: "assignment"
- type: boolean;
- multiplicity [0..1]
- validation – mandatory for *Made Orders*

3.6.3 Add attribute:

- name: "tramcar"
- type: boolean;
- multiplicity [0..1]
- validation – mandatory for *Made Orders*

3.6.4 Add attribute:

- name: "busRoute"
- type: boolean;
- multiplicity [0..1]
- validation – mandatory for *Made Orders*

3.6.5 Add attribute:

- name: "bywayType"
- type: bywayType;
- values: "road", "footpath", "bridleway", "cycleTrack", "restrictedByway" or "bywayOpenToAllTraffic"
- multiplicity [0..1]
- validation – mandatory for *Made Orders*

Other changes

4. Move "maximumAccessDuration" and "minimumTimetoNextEntry" from "permitSubjectToFee" object to "permitCondition" object. (see "No return" attribute · Issue #21 · department-for-transport-public/D-TRO)

5. ExtensionEnumeration

   Additional relationships added to model and the documentation has been updated to clarify intended usage:

   - "extensionEnumeration" object optionally linked to "permitCondition" object;
   - "extensionEnumeration" object optionally linked to "emissions" object;
   - "extensionEnumeration" object optionally linked to "vehicleCharacteristics" object;

6. Consultation

   The ability to submit a consultation D-TRO record is now correctly supported.

7. Additional enumeration values added:

   7.1 on RegulationType add the following enumerations:

   - kerbsideFootwayParkingProhibited
   - publicRightOfWayClosure
   - kerbsideLoadingPlacePassengerSetDownPermitted
   - kerbsideLoadingPlacePassengerSetDownProhibited
   - kerbsideNoLoadingPassengerSetDownPermitted
   - kerbsideNoLoadingPassengerSetDownProhibited
   - kerbsideLoadingBayPassengerSetDownPermitted
   - kerbsideLoadingBayPassengerSetDownProhibited

   7.2 on vehicleType add the following enumerations:

   - policeVehicle
   - ambulance
   - coastguardVehicle

- fireServiceVehicle

7.3 on permitType add the following enumerations:

- residentPlusBadgeHolders
- residentNotBlueBadgeHolders (which is intended to exclude non-resident blue badge holders, not the resident ones)

8. Change datatypes:
    a. rateLineCollection.minTime and. maxtime change to type duration

9. The headers x-app-id, x-app-id-override and X-Correlation-ID are not required when sending requests to any endpoint. Users simply need to send the access token in the Authorization header and Google's Apigee will automatically add any App-Id header if needed.