

Customer Integration Onboarding

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| The Toll standard process for Customer Integration. |

**Version:** [

**Version Date:** 07/06/2023]

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| Version Control |

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| --- | --- | --- | --- | --- |
| **Revision** | **Date** | **Author** | **Comments** | **Sections** |
| 1.0 | 28/03/2019 | Daniel Borg | Distributed to Integration Team | Initial Draft |
| 1.1 | 2/5/2019 | Daniel Borg | Updated XSD File to Version 6.0  Inserted XSD File Version 6.0 in to TollMessage.docx (API Toll Message Specifications  Updated Details on Depot Codes  Updated the Connote Format to reflect MyToll Connote Layout  Added Connote Examples for Standard/Dangerous Goods/Multi Page Connotes  Added QR Manifest Schema  Added login details to the Pricing API Request  Compressed Suburb Data  Updated Intermodal & Specialised Suburbs(Removed Multiple values)  Added Product and Service Codes Express Parcels Priority  Added Service Codes For IPEC/TAS/Intermodal & Specialised | 3(Shipment)  3.1(Shipment API)  4.1(Labels)  5.1(Connotes)  5.1(Connotes)  6.1(Manifest)  7.1 Pricing  APPENDIX A  APPENDIX A1  APPENDIX D1  APPENDIX D2 |
| 1.2 | 6/5/2019 | Daniel Borg | Updated XSD File to Version 7.0  Updated Service Codes Tables to assist with Label creation also adding MODE  Updated the Label samples for Portrait and Landscape | 3(Shipment)  APPENDIX D2  4.1(Labels) |
| 1.3 | 13/5/2019 | Daniel Borg | Added ZPL Requirements to Labels Section  Added in reference to MyToll site for registration purposes  Added in Check Digit Calculator(Intermodal/TAS)  Updated Tracking/POD Capabilities to reflect new MyToll Formats removing Toll Online  Added in a section defining AI’s, Extension Digit and FNC1  Added IP Whitelisting for events to be delivered to Client’s network  Added MyToll Tracking URL | 4.2(Label)  3 (Shipment)  APPENDIX C3  9 (Tracking)  4.3(Labels)  9.3(Tracking)  9(Tracking) |
| 1.4 | 20/5/2019 | Daniel Borg | Added PDF Requirements to Labels Section  Updated XSD to version 9.0  Added API Limitations  Updated XSD to version 10.0  Updated IPEC suburbs with Headers | 4.2(Label)  3.1(shipment API)  APPENDIX E  3.1(shipment API)  APPENDIX A |
| 1.5 | 11/6/2019 | Daniel Borg | Updated Sample Files for XML/JSON Shipments  Updated Common Manifest Specifications, Schema and supplied Sample JSON code, also added in advice on how to validate the QR code content  Updated XSD to version 13.0  Updated Manifest Specifications removing internal Toll Links  Updated Service Codes to reflect correct values within the API’s and Labels | 3 (Shipment)  6.1(Manifest)  3.1(shipment API)  3.1(shipment API)  Appendix D |
| 1.6 | 21/6/2019 | Daniel Borg | Added JSON Schema to Shipment  Updated XSD to version 13.0 | 3.1(shipment API)  3.1(shipment API) |
| 1.7 | 17/7/2019 | Daniel Borg | Updated XSD to version 17.0 | 3.1(shipment API) |

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| 2.0 | 20/8/2019 | Daniel Borg | Updated Booking API to relate to Toll Message Booking API  Updated Rating API to relate to Toll Message Rating API  Updated Tracking API to relate to Toll Message Tracking API  Updated POD API to relate to Toll Message POD API  Updated Returns API to relate to Toll Message Return API | 7.1 Booking API  8.1 Rating API  9.1 Tracking API  9.2 POD API  10.1 Returns API |
| 2.1 | 3/9/2019 | Daniel Borg | Updated the Manifest Sample to contain multiple QR codes | Manifest |
| 2.2 | 10/12/2019 | Daniel Borg | Added Toll Logo Image to Label Section  Updated Label Specifications to version 2.4  Updated Schema to version 19.0   * Added new Document Type *Purchase Order* * Added *Payer* Field to Manifest   Updated Limitation Appendix with Generic limitations across multiple API’s (Special Characters/Public Holidays)  Added APPENDIX F Dangerous Goods Matrix  Added Security Cipher Reference  Updated Tracking Samples  Added Pickup Cut Off times data  Added Token Section 9.6  Updated GS1 Check Digit Steps  Updated Tracking Event Code to display Event Code Returned in XML/JSON File  Added Sample XML Booking Responses  Added Intermodal Rating Samples XML and responses  Added Error Codes and examples error responses  Added PriorityAustralia connote ID for Global  Added PriorityAustralia Check Digit for Global  Added Global Check Digit Calculator  Added section for Global Suburbs List  Added section for NewZealand Suburbs List | 4 Printed Labels  4 Printed Labels  3 Shipment  E6 Shipment API Limitations  9.3 Push Tracking Events  7 Pickup Capabilities  9.3 Push of Tracking Events  7 Bookings  8.1 Rating  APPENDIX G  APPENDIX B  APPENDIX C  APPENDIX C4  APPENDIX A  APPENDIX A |
| 2.3 | 17/02/2020 | Daniel Borg | Updated XSD to version 20.0  Updated MIGS and removed internal links within the MIGs |  |
| 2.4 | 13/03/2020 | Daniel Borg | Updated limitations value on Shipment API |  |

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| 2.5 | 17/3/2020 | Daniel Borg | Updated XSD to version 22.0  Added advise on security protocol  Updates Service Codes  Updated  Manifest specifications with multiple QR code sample and updated definition of the JSON headers | D1. Product/Service Codes  Manifest |
| 2.6 | 4/5/2020 | Daniel Borg | Updated Toll Logo with Colour and Black and White samples  Updated ZPL Code for Portrait Label  Updated Label Specifications  Updated Public Holiday list  Updated Cut off Times  Updated XSD to version 23.0  Updated Suburb and Country List  Updated Shipment Examples | 4 Printed Labels  4 Printed Labels  Appendix E6  Appendix A |
| 3.0 | 7/10/2020 | Daniel Borg | Updated MyToll Service codes to contain Service code to be applied on Label  Updated advise on transfer protocols  Added certificates  Removed Toll Shipping from Applicable Toll Business  Added new limitation to Shipments removing 30 items to file size limits  Added advise on how to name the files when posting via SFTP  Added Manifest Response Message Samples  Updated XSD to version 24.0  Added new IP addresses for whitelisting  Updated POD samples for XML/JSON and correct naming convention  Updated DG Matrix to advise value of NA for HazardClassID  Updated Public Holiday List for 2020  Added Sample Extended Tracking Event/Milestone Examples  Updated List of MILESTONE and Events available for Subscription  Updated Manifest Samples to include Extended Purchase Order examples  Added Rating Sample in JSON Format  Updating Suburb Data to reflect correct Billing codes for NT  Updated Manifest XML Samples to include Courier Manifest Sample  Updated Sample Label to include NZ labels  Added Response Message MIG | APPENDIX E: Service Codes  4.1Shipment API  4.1Shipment API  2 Toll Business Units  4.1Shipment API  4.1Shipment API  4.1Shipment API  4.1Shipment API  10.5 IP Whitelisting  10.3 Push tracking events  APPENDIX F: Dangerous Goods  I6. Standard API Limitations  Tracking  Tracking & POD Capabilities  4.1 Shipment API  9.1 Rating API Request  APPENDIX B: Suburb Data  4.1 Shipment API  5 Printed Labels  APPENDIX A: Response Message |
| 3.1.2101 | 04/01/2021 | Daniel Borg | Updated DG Matrix Appendix and advise on how to declare DG’s  Updated JSON Rating Example  Updated Limitations against the PUSH transfer protocol  Updated Document Version to reflect MYTOLL release schedule  Updated POD responses with new reference fields  Updated Available Events list that can be pushed via Channel preferences  Added notation on SSCC Allocation  Updated Event Samples with Extended Events  Updated XML Booking Examples | APPENDIX F: Dangerous Goods  9.1 Rating API Request  10.5 IP Whitelisting  10.4 Push Proof of Delivery (POD)  10.3 Push tracking events  5.4 SSCC Allocation  10.3 Push tracking events via  8.1Pickup/Booking API Request |
| 3.1.2103 | 16/2/2021 | Daniel Borg | Updated 2021 Public Holidays  Updated Label Specifications to reflect Senstivei Service for IPEC  Updated Service Table to reflect Correct Service Code for IPEC Sensitive  Updated DG Matrix to reflect correct sub Risk and Package Group Headers  Updated Manifest XML samples with Correct Message Sender  Updated Manifest Printed Specs, adding QR Logic  Updated Consignment note specification  Updated MYTOLL Service Label Codes  Updated XSD to version 25.0, Changes to XSD are relative to Notifications Array in the Manifest and Returns API  Enhancement allowing 1000 items for Manifest via IPEC and Priority  Bug Fix for DG Class validation  Bug Fix for Global Shipments via Manifest API  Updated Error Codes  Added Commercial Invoice Template/Samples  Updated Item type Code for Pallet to PALL for Bookings | APPENDIX I7: Limitations  5 Printed Labels  APPENDIX E  APPENDIX F  4.1Shipment API |
| 3.1.2104 | 22/4/2021 | Daniel Borg | Updated Manifest Specification to reflect new Notifications segment  Updated Return Shipment Specification to reflect new Notifications segment  Updated list of Events available  Updated Country/Suburb listing adding Country Code value for QR code  Added advise on DG declaration against Aggregate values  Refreshed all specifications other than Manifest and Returns  Added Sample Manifest Shipments with Notifications  Added Sample Return with Notifications | 4.1 Shipment API  APPENDIX B  APPENDIX F  4.1 Shipment API  11 Retruns Process |
| 3.1.2105 | 28/5/2021 | Daniel Borg | Added Commercial Invoice Template  Added Harmonised Commodity Codes  Updated Service Code listing to display valid Booking Codes for IPEC and Priority and added Medical Overnight Service Code  Added notation on how to declare Bookings via Intermodal and Tasmania  Updated Suburb List, removing Duplicates  Updated Toll Tracking events removing non published events  Added advise for IP addresses relative to Events  Added Samples to Notifications  Updated Label Specs against barcode Symbology and DG declaration | APPENDIX H  APPENDIX H  APPENDIX E  8.1 Bookings  APPENDIX B  10.3 Tracking  10.5 Tracking  APPENDIX J  5. Printed Labels |

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| 3.1.2107 | 12/7/2021 | Daniel Borg | Updated Service List modifying incorrect service Label Code on certain services  Updated POD Request Samples  Added Tasmania Rating Example  Added Service Mode into Service List for Tasmania/Intermodal  Updated Returns Samples with B2C Samples | APPENDIX E: Service Codes  10.2 Pull POD encoded images via API call  9 Rating  APPENDIX E: Service Codes |
| 3.1.2108 | 16/08/2021 | Daniel Borg | Updated Manifest API to reflect new H2H Services  Updated Cut Off times  Added H2H services to Service List  Added TCP API  Added Appendix for Click and Collect  Added H2H Connote Spec  Updated Manifest/Booking/Return Spec to reflect 2 decimal place limit  Added Sample Email Notification(OUT FOR DELIVERY/DELIVERED) | 4 Manifest  Booking  Service  12  APPENDIX K  6 Printed Connotes |
| 3.1.2110 | 1/11/2021 | Daniel Borg | Updated Manifest Printed specification  Removed advise against Toll Online Credentials  Added notation to Labels around Subset C coding  Updated Label specifications, removing the account number from the labels  Added Booking Limitation values to Appendix  Added notation and sample to advise Pickup Location Type for IPEC and Priority Bookings  Updated Manifest Specs with SSCC items  Added Manifest example with 99 item Shipment  Added Sample JSON Manifest file declaring Pallets  Added Sample JSON Manifest file declaring multiple Shipments  Updated Suburb Files, refreshed Intermodal Depot Codes, removed PO/GPO Box Suburbs from list  Updated Events file and Merged Milestones into the one data set  Updated IPEC/Priority/Intermodal Booking Cut off times |  |
| 3.1.2203 | 26/3/2022 | Daniel Borg | Updated Printed Manifest specs to allow more than 99 QR Codes  Updated Check Digit Calculation advise for Intermodal conotes  Added Standard Toll message definitions  Updated Rating API Specifications to define correct Header for “ExtraServicesAmount”  Added JSON Manifest Sample for Courier  Updated 2022 Public Holiday list  Updated XSD to version 26.0  Updated Cut Off times  Added notation about default Cut off times  Updated Suburb Listing and Depot codes refresh  Updated DG Descriptions  Added Booking API requirements for each Business  Updated POD Specification to reflect POD/Photo download capabilities  Added new published events to the events list | APPENDIX D2  Headers 3.2  Rating |

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| 3.1.2206 | 24/6/2022 | Daniel Borg | Added in notation around Item and Miscellaneous item values  Updated length of the existing field ‘AddressLine1’ for ConsignorAddress and ConsigneeAddress to “250” from “40  Added Sample Tasmania Manifest JSON file  Updated Certificates for Production and UAT  Defined SSCC as Required for Courier  Added notation relative to default cut off time for IPEC and bookings  Added limitations based on Volume and Weight for Booking API  Updated Label specification  Updated ZPL/PDF label codes to reflect correct International Shipment ID’s  Updated XSD to version 28, relative to Print API and Reference Node Change  Updated JSON Manifest Swagger to reflect correct response code  Updated special characters list and included REGEX code  Updated DG Matrix  Add Rating JSON file with TES/ExtraService  Added Print API section  Updated Suburb Listing and Depot Codes |  |
| 3.1.2209 | 10/09/2022 | Daniel Borg | Added Business Unit Code to Service List  Updated XSD to version 29.0  Print API now provides Double Label for Intermodal and Tasmania  Updated Services List to include TAE Domestic Services  Added Print API, UAT PFX file  Updated Service List  Added Sample Manifest JSON file with Notifications  Added Sample Manifest JSON file with multiple DG’s  Added Sample Manifest JSON file with 1000 Misc declared  Added Sample Manifest XML file with 1000 items declared  Added Appendix relative to TSF Services  Updated Event Code lists  Refreshed IntermodalSpecialised depot codes within Suburbs list |  |
| 4.0 | 17/03/2023 | Mitchell Theisz | Removed 10. Rating Capabilities (Rating API)  Removed 12. Returns Process Capabilities (ReturnShipment API)  Removed 13. TCP 9Toll Collection Point) API  Removed Appendix C1, Express Parcels IPEC Connote ID, C2 Express Parcels Priority Connote ID, C3. Toll Priority Global Connote ID, C5. Toll Couriter Connote ID  Removed Appendix D3. Modulus 7 Connote Check Digit (TollPriority Global)  Removed Appendix I6. Rating Enquiry API Limitations  Removed Appendix L: Click and Collect | 10. Rating Capabilities (Rating API)  12. Returns Process Capabilities (ReturnShipment API)  13. TCP 9Toll Collection Point) API  Appendix C: Connote Number Structures  Appendix D: Check Digit Calculations  Appendix I: Limitations  Appendix L: Click and Collect |
| 4.1 | 07/06/2023 | Joanne Rudman | Removed all reference to TGE, Priority, Courier, IPEC, Tas | All sections |

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| API Connectivity |

* 1. Shipment API Connection Methods

There are 2 methods that a customer can use to deliver a Toll Message to Toll. These are

* Web Service Call via HTTPS
* Secure File Transfer Protocol (SFTP) – Currently, SFTP is only available for Toll Message - Manifest documents. No other messages are supported.
* the security protocol we use is TLS 1.1/1.2

Toll’s preferred Connection method is via HTTPS. To setup a successful HTTPS connection to the Toll API you need to ensure you are applying

* Basic Authentication as the Authorisation protocol (Toll will provide these details once API registration has occurred)
* Two Headers are to be applied to the HTTPS call
  + - Accept, where the value will be “application/xml” or “application/json”, pending the format you are posting the API in.
    - Content-Type, where the value will be “application/xml” or “application/json”, pending the format you are posting the API in.
* Within the request the Body of the Request will be declared as the “Raw” content of the Payload you are posting
  1. API Headers

Below is a snapshot of some the Headers within the Toll Message Format, some of these values are variable values that are unique to for customer.

* MessageIdentifier: This is a unique identifier value, you can apply the value of “{{$guid}}” or apply a value to the GUID standard, “{{$guid}}” can only be applied for HTTPS transfer and not via SFTP
* DocumentType: This Value represents the API call you are making, the valid values are
  + - Manifest
    - Booking
    - RateEnquiry
    - ReturnShipment
* Environment: The Environment declared will be “MYT\_PS” for UAT and “PRD” for Production
* SourceSystemCode: This value will be supplied to you from Toll Once API credentials are supplied. This value will vary based on the Toll Business Unit you when posting the Manifest API. For all other API calls you need to supply the same value as per the value within Message Sender. When posting a Manifest API Toll will supply you with a connote range, matching that Connote Range will be the SourceSystem Code. For example, PriorityAustralia Requires a ShipmentID structure of SLID+six numeric values. If the SLID equal ABCD the SourceSystemCode will also be ABCD
* MessageSender: This value will be supplied to you from Toll Once API credentials are supplied, usually applied as the Domain of the email used to register the API account against
* MessageReceiver: This value will always be “TOLL” as Toll is receiving the message

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| **Header Specifications** | **Toll Message Definitions** |
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| Manifest/Shipment Requirements (Manifest API) |

To successfully create shipments within Toll you will require to develop the below independently for each carrier of Toll you are shipping freight with at a minimum. Shipment API

* Labels
* Manifest
* Connotes (Depending on the business unit)

To successfully transmit shipment API’s to Toll we will need to provide you with a MyToll username and password as well as a Trading Partner ID to post the XML or JSON files to. You will be provided with these credentials once the Toll integration team has validated your file(s) in the testing phase and passed successfully. For a MyToll Login you will need to provide Toll with a valid company email address, it is recommended to supply a generic email account that is specific to API’s for example [B2BCustomerName@Domain.com](https://api-uat.tollgroup.com:6930/ws/TollMessageTrackAndTraceRestService/1.0/tom/enquireTrackTrace) (example integrate@yourdomain.com). To Register for a MyToll account please go to [www.MyToll.com](https://api-uat.tollgroup.com:6930/ws/TollMessageBookingRestService/1.0/tom/bookingRequest).

Below are the elements required for each Toll business. Printed connotes are only required for certain businesses which are listed below.

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| **Service/Business** | **Carrier Code** | **Printed Label Required** | **Printed Connote Required** | **Printed**  **H2H**  **Connote Required** | **Printed Manifest Required** | **Shipment API** | **Booking API** |
| Toll Energy & Marine | TE | Yes (Landscape | Yes | No | Yes | Yes | Yes |
| Toll Mining Services |  | Yes (Landscape | Yes | No | Yes | Yes | Yes |

* 1. Shipment API

The Toll message (ToM) is the shipment API to submit to Toll for each business unit and the respective shipments.

The format of this API can be in XML or JSON. The data contained within this XML/JSON file is replicated when producing the manifest. An API Shipment needs to be created for each Toll business unit and cannot be consolidated across multiple Toll Business Units. Shipment API’s are submitted to the below URL’s via an XML or JSON format. There is a limitation of the file size that can be submitted in one request against Shipments. This limitation is 14mb over SFTP and 5MB via HTTPS. If you are posting the Shipment API via SFTP you will need to name the files in the format tom\_manifest\_\*.xml or tom\_manifest\_\*.json. if the file name does not commence with “tom\_manifest” we will not collect this file for processing, the Asterix is represented by a date/time stamp value in no particular format.

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| API Toll Message Specifications | Toll Message JSON Schema | Toll Message XSD | ToM XML Samples | ToM JSON Samples | ToM Manifest Sample Responses | Certificates |
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| **Environment** | **HTTPS Address Manifest API** | **SFTP Address** |
| Test | <https://api-uat.tollgroup.com:6930/ws/TollMessageManifestRestService/1.0/tom/receiveManifest> | [sftp://api-uat.tollgroup.com:4524](http://www.mytoll.com)  203.9.121.155 |
| Production | [https://api.tollgroup.com:6930/ws/TollMessageManifestRestService/1.0/tom/receiveManifest](http://base64converter.com/) | [sftp://api.tollgroup.com:4524](https://www.mytoll.com/)  203.9.121.156 |

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| Printed Labels |

* 1. Label Requirements

A sticker label is required to be placed on each item despatched for each business unit below. Where an SSCC barcode is required you will need to advise Toll if you will be utilising toll’s company prefix and SSCC range or your own. If an external company code is required, you will need to advise Toll in the early stages of development the GS1 company code.

As part of the label requirements a Toll depot code needs to be displayed, please refer to APPENDIX B: Suburb Data

Within the label there is a requirement to display the Depot Code for Each Toll Business Unit. The Depot Code is contained within the Suburb Data in APPENDIX A: Suburb Data.

There are also certain check Digit Algorithms that are required to formulate a Valid barcode, please refer to APPENDIX C: Check Digit Calculations

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| **Service / Business** | **Label Type** | **SSCC Required** | **Number of Labels per item** |
| Toll Energy and Marine | Landscape | Yes | 1 |
| Toll Mining Services | Landscape | Yes | 1 |

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| **Label Samples** | **Toll Logo** | **Label Specifications** |
| [**Current Landscape Label used by Mining, Energy.pptx**](https://www.mytoll.com/documents/20182/62602095/Current+Landscape+Label+used+by+Mining%2C+Energy.pptx/b8e42a6e-3457-58b5-7f76-b503d26f18c0?t=1686485313955&download=true) |  | [**Toll Common Label Specification-v2.11.pdf**](https://www.mytoll.com/documents/20182/62602095/Toll+Common+Label+Specification-v2.11.pdf/321ec930-b87d-dc26-62da-ed3692581c82?t=1686485315724&download=true) |

* 1. Linear Barcode Requirements

When developing the Portrait Label you need to consider applying a specific barcode format against the Linear/1D Barcodes. When developing the SSCC and EAN/Destination barcode you need to ensure you apply the Barcodes in Code 128 Subset C format. Together with the Subset C element you will need to ensure you apply the FNC values as per the Label specification. Below is a document expanding on how to apply the barcodes in Subset C format as well as the FNC values. There is also an image that indicates how you can identify when the FNC value together with Subset C is applied correctly.

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| **Detailed Code 128** | **Subset C Image** |
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* 1. ZPL\PDF Code Requirements

Depending on how the label is developed you may require the ZPL or PDF codes for development of Toll’s labels.

Please find below samples of Toll’s ZPL code as well as the PDF Codes (JSON format). The definition of the ZPL codes can be referred via the link below.

[Zebra Programming(ZPL Guide)](https://api.tollgroup.com:6930/ws/TollMessageTrackAndTraceRestService/1.0/tom/enquireTrackTrace)

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| **Label ZPL Codes** | **Label PDF Codes** |
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* 1. Label Specific Elements

When developing the label there are certain elements that are fixed values within the Barcode as well as elements that need to be applied

* The FNC1 is an invisible character that must be applied in front of the respective AI values
* The AI Values are fixed values against each format
  + - “401” and “420” for the Landscape Label
    - “421” and” 403” for the Portrait Label
* The Country Code value is a fixed value of “036” against the Portrait Label
* The Extension Digit is always “0” if the SSCC range is supplied by Toll and unless advised otherwise
  1. SSCC Allocation

When creating the Label, there is a vital element relative to the Item number. The Item number is derived base on the Global SSCC Format. The customer has two options

* Adopting your own SSCC Range and having it setup for the Toll API’s
* Toll to provide an SSCC Range

When an SSCC Range is allocated and calculated the below Factors need to be considered when calculating the Correct 20-digit SSCC Item Number. Noting the underlined values are examples of the values provided.

AI = 00 (Fixed Value)

EXT Digit = 0 (Variable Value)

Company code = 9360152(Variable Value)

Range = 195059944-195060443

And extension digit = Calculated from the above

* 1. Limited Quantities Label

When creating a label with Respect to Dangerous Goods and Limited Quantities (LQ) you need to ensure the correct elements are declared within the Label. Please ensure you confirm to the below when generating a shipment with LQ freight

* The Label should only be declared as DG “YES” within the visual Display and within the QR Code for items that only contain Dangerous Goods
* The weight declared on the Label should be the gross weight of the individual Shipment Item/Outer Packaging
* The service name on the label requires the service Name to be extended with “LQ” at the end identifying this carton is LQ. For example if you are sending a Road Express Service where some cartons contain LQ, the service name on the label needs to be declared as “Road Express - LQ”
* The declaration on the Label *“Consignment contains dangerous goods packed in limited quantities”*

|  |
| --- |
| Printed Connotes |

* 1. Connotes

A paper connote is required for freight shipments with a bulk requirement. The current Toll business units that fall in to this category are as per below. A connote is printed in A4 portrait and is a summary of all the shipment details for each individual shipment. If the content of the data exceeds the space available within each field, a second page is required replicating the same format across the next page of the connote. The continuous pages will be labelled as “Page 2 of 2” and so forth.

If you are transporting Dangerous Goods and a Connote is required for the respective Carrier,the DG documentation is to the standard below. No further DG documentation is required to travel with the Shipment. Otherwise you will need to supply DG Documentation.

|  |  |
| --- | --- |
| **Service / Business** | **Connote Required** |
| **Toll Energy & Marine** | Yes |
| **Toll Mining Services** | Yes |

|  |  |  |
| --- | --- | --- |
| **Connote Examples** | **Connote Specifications** | **H2H specifications** |
| [**Connotes.zip**](https://www.mytoll.com/documents/20182/62602095/Connotes.zip/46fe8216-22f1-ae6a-a6a2-81583ea3d692?t=1686485859082&download=true) | [**Consignment Note Spec.zip**](https://www.mytoll.com/documents/20182/62602095/Consignment+Note+Spec.zip/e7ea9aae-b3ad-a0a8-7286-f37a915c0b6d?t=1686485973431&download=true) | [**H2H Specs.zip**](https://www.mytoll.com/documents/20182/62602095/H2H+Specs.zip/d898352e-8a9a-4cee-9a65-9c14ad0054ef?t=1686486070007&download=true) |

|  |
| --- |
| Printed Manifest |

* 1. Manifest

A printed manifest is required for all businesses in Toll. A manifest will be printed in landscape A4 and is a summary of all connotes transmitted to Toll per day for each business unit. The content of the manifest reflects the same data contained within the Shipment API of each business unit and is also reflected with the same data when submitting a pickup API. Two copies of the manifest are required at point of freight collection. One for the Toll Driver and one to remain at point of Pickup.

You can validate the QR code against the Schema below via [https://www.jsonschemavalidator.net/](https://www.zebra.com/content/dam/zebra/manuals/printers/common/programming/zpl-zbi2-pm-en.pdf) against your own JSON code within the QR

|  |  |  |  |
| --- | --- | --- | --- |
| **Manifest Example** | **Manifest Specifications** | **Manifest QR Sample JSON** | **QR CODE Manifest Schema** |
| [**Sample Manifest.zip**](https://www.mytoll.com/documents/20182/62602095/Sample+Manifest.zip/aae70de4-e673-0d52-5fd6-b1c1b433006d?t=1686486243575&download=true) | [**Common Manifest Specification 1.8.zip**](https://www.mytoll.com/documents/20182/62602095/Common+Manifest+Specification+1.8.zip/185863bc-8f24-e8fd-da6a-272505d16829?t=1686486319504&download=true) |  |  |

* 1. Manifest with Dangerous Goods & DG in Limited QTY (TBA)

|  |
| --- |
| Print API |

* 1. Print API

All the Documents in the previous sections can now be generated via an API Request. You can send a valid API request and in return you will receive.

The connection process to the Print API varies to that of our toher API’s within this document

* Label(in PDF encoded in BASE64 or raw ZPL)
* Manifest(in PDF encoded in BASE64)
* Shipment/Connote (in PDF encoded in BASE64)
* Commercial Invoice (in PDF encoded in BASE64)

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Print Specifications** | **Curl examples** | **JSON Swagger** | **JSON Samples** | **XML Samples** | **Certificates/Key** |
|  |  |  |  |  |  |

* 1. Print API Headers

|  |  |  |
| --- | --- | --- |
| **Header Name** | **Header Value** | **Header Definition** |
| x-api-key | Defined below | Key value to retrieve specific GET request |
| x-MyToll-identity | Supplied by Toll | Value linked to MyToll username for authentication |
| Channel | CES | Channel Definition |
| x-MyToll-token | Supplied by Toll | Value linked to MyToll username for authentication |
| Content-Type | application/json  application/xml | Defines Content type of response |
| Accept | application/json  application/xml | Defines Content type of response |
| callId | Supplied by Toll | Free Text Value to identify user |

|  |  |
| --- | --- |
| **Environment** | **HTTPS Address for Print API** |
| Test | https://au-print-sit-apigw.internal.mytoll.com/printDocument |
| Production | https://au-print-prd-apigw.internal.mytoll.com/printDocument |

|  |  |
| --- | --- |
| **Environment** | **x-api-key** |
| Test | XurRx4Ip3kaVcc8442DPN13dLUaaPuEX6ngIK1id |
| Production | 0O87zfzRVu4yf84mxgRiQ2uw9Q86Xb1Z8JrcnJfL |

|  |
| --- |
| Pickup/Booking Capabilities (Booking API) |

* 1. Pickup/Booking API Request

Depending on your operational engagement with Toll it may be a requirement to book a pickup. Below are the API and data specifications.

You can post the Booking API via XML or JSON Format via HTTPS post only

When Booking pickups for Toll Mining, you can declare multiple line items across the one pickup request. When booking a pickup for Toll Energy and Marine, you can only declare one-line item. The advice is to declare a total item count and cubic value or declare the Carton Dimension of greater size. Depending on your freight profile it may be advised to declare the average carton dimension value.

|  |  |
| --- | --- |
| **Service / Business** | **Pickup API** |
| **Toll Energy and Marine** | Yes |
| **Toll Mining Services** | Yes |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Pickup API Example XML** | **Pickup API Example JSON** | **Pickup API Specifications** | **Sample Responses** | **Pickup Cut-off Times** |
|  |  |  |  | [**Toll Pickup Cut Off Times.zip**](https://www.mytoll.com/documents/20182/62602095/Toll+Pickup+Cut+Off+Times.zip/afa762bd-285b-3925-6d6a-b5993384ca9a?t=1686486550374&download=true) |

|  |  |
| --- | --- |
| **Environment** | **HTTPS Address Booking API** |
| Test | [https://api-uat.tollgroup.com:6930/ws/TollMessageBookingRestService/1.0/tom/bookingRequest](mailto:B2BCustomerName@Domain.com) |
| Production | [https://api.tollgroup.com:6930/ws/TollMessageBookingRestService/1.0/tom/bookingRequest](sftp://api-uat.tollgroup.com:4524/) |

|  |
| --- |
| Tracking & POD Capabilities (TrackAndTrace API) |

Toll can offer various technical services that will provide tracking event & POD information. As per below, these services allow you to be pushed specific event & tracking information or pull the information via our API’s.

If you require a direct Track and Trace Link to individual connotes via the MyToll Website you can make the request via the below URL, replacing XX with the toll Shipment number.

[https://www.MyToll.com/?externalSearchQuery=XX](https://api-uat.tollgroup.com:6930/ws/TollMessageFreightDeliveryProofRestService/1.0/tom/freightDeliveryProof?externalSearchQuery=XX)

11.1 Pull Tracking events via API call

Toll can provide the ability to make an API call and return the Tracking event based on particular search queries, you can make a Tracking API Call via the Shipment/SSCC/reference number.

|  |  |  |  |
| --- | --- | --- | --- |
| **Tracking API Examples XML** | **Tracking API Examples JSON** | **Tracking API Specifications** | **Tracking Sample Responses** |
|  |  |  |  |

|  |  |
| --- | --- |
| **Environment** | **HTTPS Address Tracking API** |
| Test | [https://api-uat.tollgroup.com:6930/ws/TollMessageTrackAndTraceRestService/1.0/tom/enquireTrackTrace](https://api.tollgroup.com:6930/ws/TollMessageFreightDeliveryProofRestService/1.0/tom/freightDeliveryProof) |
| Production | [https://api.tollgroup.com:6930/ws/TollMessageTrackAndTraceRestService/1.0/tom/enquireTrackTrace](https://unstats.un.org/unsd/tradekb/Knowledgebase/50018/Harmonized-Commodity-Description-and-Coding-Systems-HS) |

11.2 Pull POD encoded images via API call

Toll can provide the ability to make an API call and return the POD image via an Encoded formatted that can be decoded via a base 64 converter. Within the POD API you can also retrieve the POD Image/photo’s that are captured at point of delivery. To request Delivery photos you will need to declare

* PhotoOption = DeliveryPhoto
* MessageVersion = 2.0

|  |  |  |
| --- | --- | --- |
| **POD API Samples** | **POD API Specifications** | **POD Sample Responses** |
|  |  |  |

|  |  |
| --- | --- |
| **Environment** | **HTTPS Address POD API** |
| Test | [https://api-uat.tollgroup.com:6930/ws/TollMessageFreightDeliveryProofRestService/1.0/tom/freightDeliveryProof](https://api.tollgroup.com:6930/ws/TollMessageBookingRestService/1.0/tom/bookingRequest) |
| Production | [https://api.tollgroup.com:6930/ws/TollMessageFreightDeliveryProofRestService/1.0/tom/freightDeliveryProof](https://api.tollgroup.com:6930/ws/TollMessageManifestRestService/1.0/tom/receiveManifest) |

11.3 Push tracking events via HTTPS/SFTP

Toll can push tracking events. For the below Events to be configured you will require a valid MyToll Account(MyToll.com). Once the MyToll Account is advised, Toll will setup the Tracking Events, The MyToll account supplied can be the same account used for Shipment API’s.

|  |  |  |  |
| --- | --- | --- | --- |
| **Event Specifications** | **Tracking API Examples** | **Tracking Events & Milestones available for Toll Business** | **Tracking API Configuration Requirements** |
|  |  | [**Events and Milestones.zip**](https://www.mytoll.com/documents/20182/62602095/Events+and+Milestones.zip/7f63c667-b4bd-cff5-71da-559c4e529022?t=1686486829872&download=true) |  |

11.4 Push Proof of Delivery (POD) via HTTPS/SFTP

Further to the above. Toll can also push the POD data. The data Toll will send you will need to be decoded. To assist in decoding the data please go to [http://base64converter.com/](https://www.jsonschemavalidator.net/) and apply the contents within the Contents Tab, to decode successfully you will need to select the Decode option, download the file and rename to download.PDF.

|  |  |
| --- | --- |
| **Response POD data** | **Decoded POD Data** |
|  |  |

11.5 IP Whitelisting

To successfully receive Events and/or POD’s you may need to whitelist Toll’s IP addresses to receive the inbound data from the respective environments. The IP addresses are

* 203.9.125.47 (SFTP via Production and UAT)
* 203.9.125.48 (SFTP via Production and UAT)
* 203.9.125.254
* 203.11.81.235 (HTTPS via Production and UAT)
* 203.11.81.236 (HTTPS via Production and UAT)

For any Toll PUSH Events, Toll requires the customer to supply them with a HTTPS or SFTP endpoint as well as all of the respective credentials. There is a limit of 100 characters for the URL endpoint and 30 characters against the password

11.6 Tokens

MYTOLL now enables customers to allow their customers to view certain Shipping data and images via a search Token. The search Token once applied and developed enables the person wanting to view a certain Shipment to view all Shipment history against only that Shipment via MYTOLL. The Token is generated via a Valid MYTOLL account and once generated enables any shipment to be viewed individually with the same access the respective MYTOLL account contains.

The Token can be requested for 6/12/24 months respectively, when the Token is close to its expiry date the username will receive reasonable time to request a new Token value. Only one Token can be active at any given time, hence once a new Token is requested, the current Token immediately becomes inactive.

|  |  |
| --- | --- |
| **TOKEN Documentation** | **Sample Token HTML** |
| [**Token Docs.zip**](https://www.mytoll.com/documents/20182/62602095/Token+Docs.zip/3a81c321-64ed-34f1-edd8-949109c59978?t=1686486942604&download=true) |  |

|  |
| --- |
| **APPENDIX A: Response Message** |

## **A1. API Response Message**

Below is the Standard specification on all the API messages relative to the Responses we will return on each API call.

|  |
| --- |
| **MYTOLL API Response Specifications** |
|  |

|  |
| --- |
| **APPENDIX B: Suburb Data** |

## **B1. Suburb Data**

To complete all of the above you will need to apply the respective Suburb or Country data and respective depot codes as per below for Suburb/Country validation, as well as applying the correct Toll depot code against the receiver’s suburb for each shipment on the label.

Below is one complete data set for all the Toll Businesses and their respective Suburbs, the primary list for Toll Domestic services needs to be referenced back from via the MYTOLL Business Code, there are additional Suburbs listed against specific Toll Business units and needs to be applied for that Business unit only when the initial search is not retrieved against a Suburb listed against the MYTOLL Business code.

|  |
| --- |
| **MYTOLL Suburb/Country data** |
| [MYTOLL Suburb and Country List(2209).zip](https://www.mytoll.com/documents/20182/62602095/MYTOLL+Suburb+and+Country+List%282209%29.zip/89fc8159-8b2e-6ba6-c02b-bbc20445a3d9?t=1686487048389&download=true) |

|  |
| --- |
| APPENDIX C: Connote Number Structure |

The below defines the connote structure for each Toll business unit. It is recommended that a warning mechanism is applied advising when most of the connote/item range is exhausted. This warning will allow time for you to contact Toll to replenish the range as you cannot re use previous numbers.

## **C1. Toll Energy and Marine Connote ID**

Toll Energy and Marine have a connote ID length of 10 characters in total. Toll will supply you with a connote range 9 characters long and the last value is calculated by a Modulus 10 Check Digit (please refer to APPENDIX D2)

## **C2. Connote ID Summary**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Service / Business** | **Connote Check Digit Required** | **Total Length** | **Type** | **SLID required** | **Barcode Check Digit Required** | **SSCC Required** |
| Toll Energy and Marine | Yes | 10 | Numeric | N | Yes | Yes |
| Toll Mining Services | Yes | 10 | Numeric | N | Yes | Yes |

## **C3. Item SSCC ID Summary**

If Toll provide you with an Item/SSCC range the Company Prefix for this range is 9360152

## **C4. API Credentials**

For all API requests we will need to set you up with MyToll Account to authenticate these queries via. Once all the business units and account numbers are provided together with the Contact details, the Integration team will provide you with the credentials to submit these API requests via MyToll

|  |
| --- |
| APPENDIX D: Check Digit Calculations |

D1. Barcode Check Digit

When developing the Landscape Label, you will need to provide two types of barcodes

* GS1
* SSCC

To develop these compliant barcodes, you will need to derive the check digits respectively.

|  |
| --- |
| **Landscape GS1/SSCC Check Digit** |
|  |

D2. Modulus 10 Connote Check Digit

Once Toll have allocated you with a connote range you will need to formulate the complete Shipment ID number via a Modulus 10 Check Digit. Below is the process to calculate the check digit.

|  |
| --- |
| **Modulus 10 Check Digit** |
|  |

D3. Check Digit Calculator

Below is a tool that will allow you to validate the check digit values against the Ranges Toll have supplied for

* Toll Energy and Marine
* Toll Mining Services
* All SSCC Ranges

|  |
| --- |
| **Check Digit Calculator** |
|  |

|  |
| --- |
| APPENDIX E: Service Codes |

Depending on the Toll Business Unit will depict the way the service codes are declared. With all Toll Business units, the Service Code needs to be declared.

E1. Product/Service Codes for MYTOLL API’s

Below are the current possible Product and Service Code combinations that can be utilised within MYTOLL API’s

|  |
| --- |
| **Product/Service Codes** |
|  |

|  |
| --- |
| APPENDIX F: Dangerous Goods |

Depending on the API’s you use within Certain Toll Businesses, you will be able to submit these API calls with Dangerous Goods values. Below is a complete list of Dangerous Goods as well as DG values allowed to be shipped via Each Toll Carrier. These values are validated within the API call. The values within the below need to be applied as listed within the “ShippingName” Tag, the value in the “TechnicalName” is only required if Listed as Y in the list below under Technical Name. the Limit in TechnicalName is set to 30 Characters, if these conditions are not adhered to the API call will fail DG validation declaration.

* AggregateQuantity – is the Aggregate Weight Quantity of the respective DG
* Quantity – is the aggregate Item Quantity

|  |
| --- |
| **DG Descriptions** |
|  |

|  |
| --- |
| APPENDIX G: API Error Codes |

When posting an unsuccessful API, you will receive a return response based on the most recent error received, each error is returned in a certain order and can only continue validation once the initial error is resolved successfully. Below is a complete list of all the Error messages MYTOLL will return when making any of the API call within this documentation.

|  |  |  |
| --- | --- | --- |
| **Error Specification** | **Response Error codes** | **Error Code examples** |
|  |  |  |

|  |
| --- |
| APPENDIX H: Global Shipments |

When posting International Shipments, you will need to declare Harmonised Commodity Codes (HCC). The HCC values are free format values and is not validated but required when posting Global Shipment. To attain a complete list of HCC codes please go to the link [HCC codes](sftp://api.tollgroup.com:4524/) to view and attain the most recent list of HCC codes.

When despatching International Shipments you are required to supply a Commercial invoice declaring value and total of goods being despatched. This data is also mandatory within the API submission. If you need to develop this document the below is a guidleline of the layout required

|  |  |
| --- | --- |
| **Commercial Invoice Template/Samples** | **Harmonised Commodity Codes** |
| [Commercial Invoice.zip](https://www.mytoll.com/documents/20182/62602095/Commercial+Invoice.zip/d99a025f-e073-8ff7-2e24-5e058bc565a5?t=1686487253278&download=true) | [HarmonisedCommodityCode.zip](https://www.mytoll.com/documents/20182/62602095/HarmonisedCommodityCode.zip/cf60302c-f2a1-b2bc-a8f9-94702343a4d2?t=1686487321068&download=true) |

H1 International Service limiations

* Product Code “01” has a maximum weight of 2.5 kg
* Product Code “02” has max weight 20 kg per piece, if you do have 40 or 50 kg, you would need to increase the number of pieces
* Product Code “03” no limit, the cargo should be within 120X120X150 cm dimension

|  |
| --- |
| APPENDIX I: Limitations |

Depending on the API’s you need to submit, there will be limitations on the amount of data you can submit within one transaction. Our Server utilises the security Mechanism TLSv1.2 with Cipher ECDHE-RSA-AES128-GCM-SHA256, which may need to be considered when posting via credentials Toll provides

I1. API Capabilities

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Service / Business** | **Shipment API** | **Booking API** | **Rating API** | **Track and Trace API** | **Returns API** | **Purchase Order API** |
| **Toll Energy and Marine** | Yes | Yes | Yes | Yes | No | Yes |
| **Toll Mining Services** | Yes | Yes | Yes | Yes | No | Yes |

I2. Shipment API Limitations

* Shipment API’s will allow a file size to be transmitted of 14mb over SFTP and 5MB via HTTPS

I3. Tracking API Limitations

* Tracking API’s will allow for a maximum of 4 search tokens in a request and 20 records within the response (5 per search token) and a payload size no greater than 5mb.

I4. POD API Limitations

* POD API’s will allow for a maximum of 20 records in the response and a payload size no greater than 5mb

I5. Booking API Limitations

* Booking API’s will allow for a maximum file size of 5mb. The request will timeout after 29 seconds and can only contain one pickup location per request.
* Max no of items allowed per line is 99
* Max no of lines is 99
* Max no of items in all lines is 250

I6. Standard API Limitations

Below is a list of valid characters allowed for each TAG within the API Schema

|  |
| --- |
| **Special Characters and field Limitations** |
|  |

* For the majority of the API calls, Toll will cross reference the date against any public holidays and weekends. If a date is declared as the despatch date and the date falls on a public holiday for that Suburb the API will return an invalid date error. Below is the Current List of Public Holiday dates.

|  |
| --- |
| **Toll listed Public Holidays** |
| [MyToll\_Public\_Holiday\_2022.zip](https://www.mytoll.com/documents/20182/62602095/MyToll_Public_Holiday_2022.zip/43ec1ba9-0eb3-0ff8-be1d-f9cbf9e38e54?t=1686487419666&download=true) |

|  |
| --- |
| APPENDIX J: Notifications |

Within the Shipment and Return API you have the ability to declare which notifications you require for each Sender and/or Receiver at a Shipment Level. This needs to be activated to be enabled, once enabled you can declared any of the Event/Messages below to be sent as the event occurs via eMail and/or SMS. If the setting is activated and you declare valid content in the Notification Array of the Manifest API the default Events will be sent as they occur. Currently the default list is all of the events. The Events need to be entered as below (UPPERCASE). You can also select individual event types based on each receiver.

When applying the notifications Array or decalring a B2C service, the mobile number will be validated

J1. Valid Mobile Number Combinations for validation

CountryCode=empty, AreaCode=empty, Number=0431601281

CountryCode=+61, AreaCode=empty, Number=431601281

CountryCode=61, AreaCode=empty, Number=431601281

CountryCode=+61, areaCode=431, phoneNumber = 601281

CountryCode=+61, areaCode=-431, phoneNumber = 601281

CountryCode=+61, areaCode=431, phoneNumber = 601-281

CountryCode=empty, areaCode=empty, phoneNumber = +61401601281

CountryCode=empty, areaCode=+61, phoneNumber = 401601281

J2. Valid Notification Events

Below are the valid Event names you van Apply within the EventName TAG within the Manifest or Returns Message

|  |  |
| --- | --- |
| **Event Name** | **Notification Description** |
| PRTDEL | Partially delivered |
| AWTCOL | Awaiting collection |
| OUTFDL | Out for delivery |
| INTRNST | In transit |
| COLLCTD | Collected |
| SHPCRE | Shipment created |
| CANCLD | Cancelled |
| DELVERD | Delivered |
| PCKDUP | Picked up |

J3. Sample notifications

|  |  |
| --- | --- |
| **Sample Notification eMail** | **Sample Notification SMS** |
|  |  |

Below are sample messages Toll will send to receipients email and Mobile numbers when declared for notifications

|  |
| --- |
| APPENDIX K: Time Sensitive Freight (TSF) Services |

When declaring “TSF” it is mandatory to declare within the special instructions field within the data and label the below

* Delivery time window: example “Deliver between 6am-8am only”
* Contact name: “John Smith”
* Contact Number: “0400000000