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| **RoadProtect MVP** | | | | |  |  | **Service Group** |
| Consulting Services |
| **Functional Specification** | | | | | **Contact Details** |
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| **Document Overview** | | | | | **Document Information** |
|  | | | | |  |
| This document describes Spear Web Services proposed product near-term roadmap and Minimum Viable Product functional specifications for launching the next generation product of One Protect. | | | |  | **Customer** |
| One Protect |
| **Version** |
| 0.9 |
| **Created By** |
| Ortal Tubul |
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| **SECTION 1** | | | | | | | | | |
| **Introduction** | | | | | | | | **1** | |
| **Background** | | **1.1** | |  |  | **Document Purpose** | | **1.2** | |
| One Protect is an early design and operational readiness phases of developing the company RoadProtect next generation product and associated services.  The company had approached Spear to provide consulting services focused on the product near-term roadmap and Minimum Viable Product (MVP) functional specifications required to assess the overall solution benefits, time-to-market implications and to potentially commence development.  For this purpose, Spear conducted design and specification workshops with One Protect to capture, analyze, advice and design the RoadProtect next generation product.  The company aim to facilitate a broad range of data collection, data management and customer business processes that addresses the overall management and end-to-end lifecycle of infringements, leasing companies and privately held vehicle assets, payment procedures and their associated routines via a secured, high performant and modern web and mobile compatible devices experience.  To address the identified business, users’ and none-functional requirements, the company is seeking to build and ship a new product based on an up-to-date technology stack. | | | | The below document detailed the functional requirements in launching the company platform, it provides detailed information on how the system solution will function and the requested behavior for launching the next generation product of One Protect.  This document is created based on the high-level requirements identified in the design and specification workshops with One Protect and provides traceability on the functional specifications back to the business requirements.  Included in this document will be the product roadmap for the upcoming year and a detailed functional requirement including system epics and their related user stories, system inputs and outputs, process flows, diagrams, and mock ups. | | | |

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| **Business Requirements** | | | | **1.3** |
| The following section describes the product Business Requirements. | | | |  |
| **Time-Bound Objectives** Due to varying business constraints, the company is required to ship its next-generation product in upcoming months. To this end, the company wishes to employ an iterative product development and release approach, that will enable it to ship an early access, Minimal Viable Product (MVP) version to its early adapter customer base (MVP scope and features prioritization later described in this document).  The company short-term objectives include conducting market validation, quick go-to-market and support marketing teams’ efforts, required to onboard new potential customers and business partners. Long term objectives include extending the product to support B2C based business processes, increase the company data centered offerings and product features, and the development of a product eco-system. **Scalability for Business Needs** One Protect wish to extend its customer base, addressing new audiences and potential customers in varying geographies. To support this objective, the newly developed product must accommodate for rapid growth of customer accounts, end users, rapidly growing data and data providers in a cost-effective, relatively low-effort and quick adaptation of the supporting services, software and infrastructures.  It is the company intention to identify and procure cloud-based services which will enable these scalability needs, and to address them farther via a suitable technology stack, solution architecture and automation (note that Solution Architecture and Technical Design project phases to commence in later project phases, which will address this topic in detail). |  |  | **Availability for Business Needs** According to the company, its current software and services are not classified as mission-critical by its customers. As a result, there was no customer requirement in this regard, nor a Service-Level Agreement which legally binds the company to its platform availability.  Although high-availability was not identified as a priority by the business stakeholders, Spear recommends that any customer release will follow a high-availability implementation of the software service provided. Aside to customer expectation regarding software-based services availability, implementing High-Availability will facilitate increased service agility, business continuity and data integrity. **Security** The newly developed product to contain processes and features that requires strict governance of data privacy, data access, financial transactions and user-managed legal contents.  In addition, it is assumed that the product will actively host multiple customers accessing the various product interfaces which will be hosted under shared application and physical infrastructures. As a result, the newly developed product is classified as a multi-tenant-based system which is required to implement and enforce strict security routines and processes, with required mechanisms to assure customer data integrity, data privacy, data access management, authentication, authorization and more. | |

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| **Compliance** The newly developed product to support mandatory compliance and regulations for Data Privacy, Data Records Management, Financial Records Management and Accessibility, per State of Israel and European Union. **Support for Multiple Device Types** Initial product releases to address key data and content administration which are best-suitable for desktop devices, due to its capacity to facilitate rich content editing and support data modification tools and format most commonly available in desktop operating system.  It is the company intention to develop and release mobile-centric processes following the release and stabilization of the product core processes. The underline product infrastructures and solution architecture should accommodate mobile devices (such as compatible API’s) as best possible to avoid any significant waste in later product phases. **Performance**  Given the product core features addresses data processing and Business Intelligence of data at scale, relevant data services, product and infrastructures are required to perform both real-time and back-processing operations under moderate load, in good performance criteria’s (all back-processing tasks to complete in 24 hours’ time-frame, real-time analytics and BI related features to comply with front-end interfaces view load metrics). Web application based user interfaces to meet standard page-load metrics of up to 3 seconds in total (excluding network latency and bandwidth parameters). |  |  | **User Experience** Excluding the company system administration team, all identified user personas are of none-technical focus and are mainly employed in business operations, logistics and support functions. The newly develop product should keep clear and standardized User Experience guidelines which users should be familiar with, and that is reflected in the product user interfaces in a consistent and predictable manner they can be oriented with in minimal effort investment.  In addition, the product to support full localization to various languages, including LTR and RTL based languages in its initial release (Hebrew and English, to be followed by additional languages per business need). **Interoperability** Some of the company potential customers require to integrate and automate key business processes systems to the newly developed product (i.e. ERP processes). The product to support full interoperability, allowing customers to integrate, consume and modify product data, while invoking and subscribing to key processes and system events, using a standardized, secured and highly-available RESTful API. **Manageability** The company is currently limited in its capacity to support core product features with manual based processes and procedures. It is assumed the available team will conduct required customer onboarding, provisioning and support in early release phases. The developed product to minimize any manageability aspects requiring manual human effort where possible as a guiding principle. Implementation of post version release tasks such as product health & availability monitoring and proactive maintenance (such as backups, volume cleanups etc.) should account for the team capacity limitations. |

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| **Supportability** Following the initial release, the company will require close support of relevant tech-personnel required to handle any customer support needs, production incidents, bug fixing and any reactive maintenance tasks.  It is currently assumed that a 24/7 staff availability will be required. Standard customer and business support will be provided by the company current staff during standard business hours. **Staffing** The company is currently considering sourcing the product development to specialized vendors who can accommodate the previously specified time-bound objectives, business, users and system requirements, and the end-to-end delivery expertise as a short-term strategy.  Once initial project objectives will be met, the company will onboard the required personnel to take complete ownership of the developed product maintenance and future versions development. As such, it is imperative that employed technologies, services and tech-standards will align to acceptable industry standards, avoiding unique components or self-developed IP’s that might prevent the company from identifying and onboarding required skills resources. |  |  |  |

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| **SECTION 2** | | | | | |
| **Product Roadmap** | | | | | **2** |
| **Overview** | **2.1** |  |  | |  |  |  | | --- | --- | --- | | TABLE 2.1 – PRODUCT MODULES |  | | | **Module** | **Priority** | | | **Account Management**  Includes product features that enables system administrators to provision, manage and analyze customer accounts. | 1 | | **Identity and Access Management**  Includes product features that enables system and account-level administrators to provision and manage user accounts. In addition, this module to include core-security principles required to facilitate access control (authorization) and authentication capabilities user accounts. | 2 | | **Vehicles Management**  Includes product features that enables account administrators create and manage vehicles records. This includes associated data entities (such as contracts, owners) and core-business processes such as nominations. | 3 | | **Infringements Management**  Includes product features that enables system and account users to create and manage infringement records. This includes data entry and infringement validation processes. | 4 | | |
| The following section describes the product roadmap in terms that describes its key features, features release priorities, major versions scope and high-level timeline for designing, building and releasing future product versions. | |
| **Product Modules** | **2.2** |
| A product module represents a set of use cases that facilitate new business and system processes, with the aim of delivering increased business value to the product end-users.  The following table describes the list of identified product modules. | |
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| |  |  |  | | --- | --- | --- | | **Module** | **Priority** | | | **Infringement Payments**  Includes product features that enables data entry, management and reporting capabilities of infringements. These enables customers accounting to automate payment of a single or multiple infringement via a consolidated user interface and includes the product interoperability features required by customers to automate and integrate ERP based-systems with the product. | 5 | | **Issuers Management**  Includes product features that enables system administrators and account users to provision, manage and analyze infringement issuers (i.e. a municipality or local authority). | 6 | | **Owners Management**  Includes product features that enables system and account users to create, manage and analyze vehicle owner records. | 7 | | **Data Visualization**  Includes product features that visually track, analyze and display key performance indicators (KPI), metrics and key data points to monitor a single or multiple process within the system. | 8 | | **Reporting**  Includes product features which enables rich reporting capabilities. These include various system and account level reports which aggregate and intersects existing records at real-time. | 9 | |  |  | |  |  |  | | --- | --- | --- | | **Module** | **Priority** | | | **Appeals**  Includes product features that enables potential end-customers (not necessarily members of an active account, i.e. B2C) to contest (appeal) an infringement by submitting and tracking the appeal request with the relevant infringement issuer. This may include an enriched user-experience via a rich mobile and web client. | 10 | | **Driver Management**  Includes product features that enables system and account users to create, manage and analyze vehicle drivers by associating a uniquely identified driver to a specific vehicle at varying time periods. | 11 | | **User Personalization**  Includes product features which enables users of all types to personalize the product features and behaviors based on a set of user-profile settings and user profile information. | 12 | | **Identity and Access Management Self-Service**  Includes product features which enables end-users (not necessarily active or authenticated users) of all types to self-cater identity and access related activities such as self-registration resetting passwords and submitting resource access requests. | 13 | |  |  | |

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| **Product Roadmap Timeline** | | | | | | **2.3** | | |
| The following section describes the Product Roadmap key milestone and time objectives. | | | | | ILLUSTRATION 2.1 – PRODUCT ROADMAP TIMELINE | | | |
|  | | | | | | | | |
| **SECTION 3** | | | | | | | | |
| **MVP Specifications** | | | | | | | **3** | |
| **Overview** | **3.1** |  |  | TABLE 3.1 – MVP PRODUCT MODULES PRIORITIZATION | | | | |
| A Minimal Viable Product (MVP) is a development technique in which a new product is developed with sufficient features to satisfy early adopters. The final, complete set of features is only designed and developed after considering feedback from various stakeholders within the business and the product's initial users.  The following section describes the initial product Minimal Viable Product (MVP) version functional scope in terms that describes its included project modules, high-level user stories, system processes and user interfaces. | | |  |  |  | | --- | --- | --- | | **Module** | **Priority** | | | Account Management | 1 | | Identity and Access Management | 2 | | Vehicles Management | 3 | | Infringements Management | 4 | | Infringements Payments | 5 | | Issuers Management | 6 | | Owners Management | 7 | | Data Visualization | 8 | | | | |
| **MVP Modules Prioritization** | **3.2** |
| The product MVP Modules prioritization considers identified product modules which are of the highest customer and business value that will enable the company to go-to-market while supporting its marketing, sales and customer validation needs. | |

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| **Personas** | | | | | **3.3** | |
|  | | | | | | |
| **Overview** | **3.3.1** |  |  | **Persona (Account)** | | |
| A persona defines an archetypical user of a system, an example of the kind of person who would interact with. To better put, personas describe an archetypical instance of an actor. In a use case model, personas may describe several different types of users.  The following section list and describes the required product MVP release personas. | | |  | | --- | | **Account Administrator**  The Account Administrator is a customer appointed administrator which can cater for account-based users, access control and data records management. These include, provisioning of account users, management of account records (such as infringements, vehicles and reports) and account restricted data management features such explicit deletion of the associated account records, exporting account information and more. | | **Account Manager**  The Account Fleet Manager is a customer appointed user that has complete management capabilities of the account Fleet related records and associated features. These include, provisioning and management of new vehicles, in-app administration of infringements (create, batch upload, edit, delete etc.), accessing fleet related reports and BI features, nominating infringements (if vehicle is owned by the account) and submitting infringements for payment by an Account Finance Manager. | | **Account Finance Manager**  The Account Finance Manager is a restricted account user that has account-based records viewing rights for account vehicles, infringements and past payments with the sole exception of submitting approved infringement for payment. | | |
| TABLE 3.3.1 – PERSONAS | |
| **Persona (One Protect)** | |
| **System Administrator**  The System Administrator is One-Protect restricted user that has complete administration and management capabilities of the product features, users, access control and data records. These include, provisioning and management of accounts, users, issuers, account records (such as infringements, vehicles and reports) and data management features such as importing infringements from trusted data providers, explicit deletion of account records, exporting sensitive information and more. Please note that EU and US based data privacy regulation may require applying multiple restrictions to this persona (supporting these regulations are not required in upcoming versions). | |

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| **Personas Roles and Responsibilities** | | | | | **3.3.2** |
| The following table describes the Product personas roles and responsibilities. | | | TABLE 3.3.2 – PERSONAS ROLES AND RESPONSIBILITIES | | |
| **Module** | **System Administrator** | **A. Administrator** | **A. Fleet Manager** | **A. Finance Manager** | |
| **Account Management** | **✓** |  |  |  | |
| **Issuers Management** | **✓** |  |  |  | |
| **Owners Management** | **✓** |  |  |  | |
| **Identity and Access Management** | **✓** | **✓** |  |  | |
| **Infringements Management** | **✓** | **✓** | **✓** |  | |
| **Infringements Payments** |  |  |  | **✓** | |
| **Vehicles Management** | **✓** | **✓** | **✓** |  | |
| **Data Visualization** | **✓** | **✓** | **✓** | **✓** | |

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| **User Stories Summary** | | | | | | **3.3.3** |
|  | | | TABLE 3.3.3 – USER STORIES SUMMARY | | | |
| **Module** | **Story ID** | **Story Title** | | **Actors** | **Pre-Conditions** | |
| **Account Management** | AM-01 | Access Account Management | | SA |  | |
| AM-02 | List accounts records | | SA | AM-01 | |
| AM-03 | Export accounts records | | SA | AM-01, AM-02 | |
| AM-04 | Sort and Filter account list records | | SA | AM-01, AM-02 | |
| AM-05 | View an account record | | SA | AM-01, AM-02 | |
| AM-06 | Create a new account record | | SA | AM-01, AM-02 | |
| AM-07 | Edit an account record | | SA | AM-01, AM-02, AM-05 | |
| AM-08 | Delete an account record | | SA | AM-01, AM-02, AM-05 | |
| **Identity and Access Management** | IAM-01 | Access User Accounts Management | | SA, A.ADM |  | |
|  | IAM-02 | List user accounts records | | SA, A.ADM | IAM-01 | |
|  | IAM-03 | Export user accounts records | | SA, A.ADM | IAM-01, IAM-02 | |
|  | IAM-04 | Sort and Filter user account list records | | SA, A.ADM | IAM-01, IAM-02 | |
|  | IAM-05 | View a user account record | | SA, A.ADM | IAM-01, IAM-02 | |
|  | IAM-06 | Create a new user account record | | SA, A.ADM | IAM-01, IAM-02 | |
|  | IAM-07 | Edit a user account record | | SA, A.ADM | IAM-01, IAM-02, IAM-05 | |
|  | IAM-08 | Delete a user account record | | SA, A.ADM | IAM-01, IAM-02, IAM-05 | |
|  | IAM-09 | Reset a user account password | | SA, A.ADM | IAM-01, IAM-02, IAM-05 | |
| **Vehicle Management** | VM-01 | Access Vehicles Management | | All |  | |
|  | VM-02 | List vehicle records | | All | VM-01 | |
|  | VM-03 | Export vehicle records | | All | VM-01, VM-02 | |
|  | VM-04 | Sort and Filter vehicles list records | | All | VM-01, VM-02 | |
|  | VM-05 | View a vehicle record | | All | VM-01, VM-02 | |
|  | VM-06 | Create a new vehicle record | | SA, A.ADM, A.FLM | VM-01, VM-02 | |
|  | VM-07 | Edit a vehicle record | | SA, A.ADM, A.FLM | VM-01, VM-02, VM-05 | |
|  | VM-08 | Delete a vehicle record | | SA, A.ADM, A.FLM | VM-01, VM-02, VM-05 | |
|  | VM-09 | Upload vehicles file | | SA, A.ADM, A.FLM | VM-01, VM-02 | |
|  | VM-10 | Map Imported File Structure | | SA, A.ADM, A.FLM | VM-01, VM-02, VM-09 | |
| **Infringements Management** | IM-01 | Access Infringements Management | | All |  | |
|  | IM-02 | List Infringement records | | All | IM-01 | |
|  | IM-03 | Export Infringement records | | All | IM-01, IM-02 | |
|  | IM-04 | Sort and Filter infringement list records | | All | IM-01, IM-02 | |
|  | IM-05 | View an infringement record | | All | IM-01, IM-02 | |
|  | IM-06 | Create a new infringements record | | SA, A.ADM, A.FLM | IM-01, IM-02 | |
|  | IM-07 | Edit an infringement record | | SA, A.ADM, A.FLM | IM-01, IM-02, IM-05 | |
|  | IM-08 | Delete an infringement record | | SA, A.ADM, A.FLM | IM-01, IM-02, IM-05 | |
|  | IM-09 | Upload infringements file | | SA, A.ADM, A.FLM | IM-01, IM-02 | |
|  | IM-10 | Map Imported File Structure | | SA, A.ADM, A.FLM | IM-01, IM-02, IM-09 | |
|  | IM-11 | Select infringements for nomination | | SA, A.ADM, A.FLM | IM-01, IM-02, IM-05 | |
|  | IM-12 | Nominate infringement | | SA, A.ADM, A.FLM | IM-01, IM-02, IM-05 | |
| **Infringements Payments** | IP-01 | Approve or reject infringement | | SA, A.ADM, A.FLM | IM-01, IM-02, IM-05 | |
|  | IP-02 | Approve or reject infringement payments | | A.FIM | IP-01 | |
|  | IP-03 | View payment summary | | A.FIM | IP-02 | |
|  | IP-04 | View past payment summary records | | A.FIM | IP-05 | |
|  | IP-05 | Submit payment details | | A.FIM | IP-03 | |
| **Issuers Management** | ISM-01 | Access Issuers Management | | SA, A.ADM |  | |
|  | ISM-02 | List issuer records | | SA, A.ADM | ISM-01 | |
|  | ISM-03 | Export issuer records | | SA, A.ADM | ISM-01, ISM-02 | |
|  | ISM-04 | Sort and Filter issuers list records | | SA, A.ADM | ISM-01, ISM-02 | |
|  | ISM-05 | View an issuer record | | SA, A.ADM | ISM-01, ISM-02 | |
|  | ISM-06 | Create a new issuer record | | SA | ISM-01, ISM-02 | |
|  | ISM-07 | Edit an issuer record | | SA | ISM-01, ISM-02, ISM-05 | |
|  | ISM-08 | Delete an issuer record | | SA | ISM-01, ISM-02, ISM-05 | |
|  | ISM-09 | Import Issuer Infringements | | SA | ISM-01, ISM-02, ISM-05 | |
| **Owners Management** | OM-01 | Access Owners Management | | SA, A.ADM, A.FLM |  | |
| OM-02 | List owner records | | SA, A.ADM, A.FLM |  | |
| OM-03 | Export owner records | | SA, A.ADM, A.FLM |  | |
| **Data Visualization** | DV-01 | Access Account Dashboard | | All |  | |
|  | DV-02 | View Total Managed Vehicles | | All | DV-01 | |
|  | DV-03 | View Total Infringements | | All | DV-01 | |
|  | DV-04 | View Total Outstanding Infringements | | All | DV-01 | |
|  | DV-05 | View Last Due Infringement Payment | | All | DV-01 | |
|  | DV-06 | View Total Infringements (Per Month, Past Year) | | All | DV-01 | |
|  | DV-07 | View Total Monthly Cost | | All | DV-01 | |
|  | DV-08 | View Top Leading Issuers | | All | DV-01 | |
|  | DV-09 | View Top Leading Vehicles | | All | DV-01 | |

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| **Account Management Module** | | | | | **3.4** |
| The following section describes the Account Management product module. | | | | | |
|  | | | | | |
| **Overview** | **3.4.1** |  |  | TABLE 3.4.1 – ACCOUNT MANAGEMENT MODULE USE CASES SUMMARY | |
| The Account Management product module includes product features that enables System Administrators to provision, manage and analyze customer accounts. | | |  | | --- | | **Use Case** | | Provision a New Account | | Manage Accounts | |  | | TABLE 3.4.2 – ACCOUNT MANAGEMENT MODULE USER INTERFACES SUMMARY | | **User Interface** | | Accounts List | | View Account | | Add Account Form | | Edit Account Form | | Delete Account Model Dialog | | |
| **Use Cases Summary** | **3.4.2** |
| A Use Case is a collection User Stories that defines the supported use of a feature or a component within the product. A User Story is a tool used in Agile software development to capture a description of a software feature from an end-user perspective. The User Story describes the type of user, what they want and why that establish a simplified description of a requirement.  The following section lists the account management product module features and use-cases, in terms that describe its supported user stories. | |

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| **Account Management Module Use Cases** | | | | | **3.4.3** |
| The following section describes the Account Management product module use cases. | | | | | |
| **Provision a New Account** | **3.4.3.1** |  |  | **Manage Accounts** | **3.4.3.2** |
| **Overview** Prior the creation of data records and account-based features configuration, an account record must be created by a System Administrator. The account record serves as an object reference of various system objects (such as the Identity and Access module objects) and data records (such as vehicles, infringements, payments etc.).  In the process of onboarding a new customer, provisioning an account is the first action required which can be than followed by uploading or manually creating relevant account data. **User Stories Summary** The following table lists the associated user stories required by the use case.   |  |  | | --- | --- | | TABLE 3.4.3.1 – PROVISION A NEW ACCOUNT USER STORIES SUMMARY | | | **User Story** | **ID** | | Access the Account Administration management interface | AM-01 | | List accounts records | AM-02 | | Create a new account record | AM-06 | | | **Overview** Following the creation of an Account record, account administration tasks may be required from time-time to support both customers and various teams within the business. These include viewing, modifying, deleting and exporting accounts records. Cross-accounts and account specific management to be made available to System Administrators only, due to data sensitivity and potential risks involved in altering system-wide records such as the account entity. **User Stories Summary** The following table lists the associated user stories required by the use case. | |
| |  |  | | --- | --- | | TABLE 3.4.3.2 – MANAGE ACCOUNTS USER STORIES SUMMARY | | | **User Story** | **ID** | | Access the Account Administration management interface | AM-01 | | List accounts records | AM-02 | | Export accounts records | AM-03 | | Sort and Filter account list records | AM-04 | | View an account record | AM-05 | | Edit an account record | AM-07 | | Delete an account record | AM-08 | | |

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| **Account Management Module User Interfaces** | | | | | | **3.4.4** |
| The following section describes the Account Management product module user interfaces. | | | | | | |
| **Account List (Accounts)** | **3.4.4.1** |  |  | |  |  | | --- | --- | | TABLE 3.4.4.1 – ACCOUNT LIST ACTIONS SUMMARY | | | **Action Name** | **Action Description** | | Export Accounts | Download Accounts file | | Filter Accounts | Filter the Accounts list based on a selected property | | Add Accounts | Open the Add Account Form user interface | | Edit Account | Open the Edit Account Form user interface | | Delete Account | Open confirmation dialog and delete account | | | |
| **Overview** The Account List user interface enables System Administrators to manage account records from a centralized management interface. It includes UI elements required to facilitate account management use cases and user stories.  The Account List displays essential account properties of the complete list of account records using a table like UI component that supports records navigation, filtering and sorting. Use-case related actions are available from the contextual table row menus and view toolbar. **Actions Summary** The following table lists the associated user interface actions. | |
|  | | | | | | |
| **View Fields Summary** | | | TABLE 3.4.4.1-2 – ACCOUNT UI VIEW FIELDS SUMMARY | | | |
| **Field Name** | | **Format** | | | **Example Value** | |
| Account Name | | Text | | | Spear Web Services LTD | |
| B.R ID | | Number | | | 44826711 | |

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| **View Account Form** | **3.4.4.2** |  |  | | |  |  | | --- | --- | | TABLE 3.4.4.2 – ADD ACCOUNT FORM ACTIONS SUMMARY | | | **Action Name** | **Action Description** | | Back | Navigate to origin | | Edit | Navigate to the Edit Account Form user interface | | Delete | Display confirmation model dialog and delete the record | | |
| **Overview** The View Account Form user interface enables System Administrators to view an account record details in a read-only like form interface.  The form displays the account record properties in a text like format (fields are none editable or interactable). **Actions Summary** The following table lists the associated user interface actions. | |
|  | | | | | | |
| **User Interface Fields Summary** | | | TABLE 3.4.4.2-2 – ADD ACCOUNT USER INTERFACE VIEW FIELDS SUMMARY | | | |
| **Field Name** | | | | **Format** | | **Example Value** |
| Account Name | | | | Text | | Spear Web Services LTD |
| B.R ID | | | | Number | | 44826711 |
| Enabled | | | | Checkbox | | True |
| PoA Document | | | | File | | N/A |

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| **Add Account Form** | | | **3.4.4.3** | |  |  | |  |  | | --- | --- | | TABLE 3.4.4.3 – ADD ACCOUNT FORM ACTIONS SUMMARY | | | **Action Name** | **Action Description** | | Cancel | Dismiss form data and navigate to origin | | Submit | Submit form data and navigate to origin | | |
| **Overview** The Add Account Form user interface enables System Administrators to create a new account record.  The form displays account record properties in varying form control types to match its property data type and required format. All form controls require field-level validations to assure appropriate data is entered in the required format. **Actions Summary** The following table lists the associated user interface actions. | | | | |
|  | | | | | | | | |
| **User Interface Fields Summary** | | | | | | TABLE 3.4.4.3-2 – ADD ACCOUNT VIEW FIELDS SUMMARY | | |
| **Field Name** | **Format** | **Required** | | **Default Value** | | | **Example Value** | **Validations** |
| Account Name | Text | True | | N/A | | | Spear Web Services LTD | Required, Is Unique |
| B.R ID | Number | True | | N/A | | | 44826711 | Required, Min / Max Length, Numeric |
| Enabled | Checkbox | True | | True | | | True | N/A |
| PoA Document | File | False | | N/A | | | N/A | File Type, File Size |

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| **Edit Account Form** | | | **3.4.4.4** | |  |  | |  |  | | --- | --- | | TABLE 3.4.4.4 – EDIT ACCOUNT FORM ACTIONS SUMMARY | | | **Action Name** | **Action Description** | | Cancel | Dismiss form changes and navigate to origin | | Save | Save form data and navigate to origin | | |
| **Overview** The Edit Account Form user interface enables System Administrators to edit an account record.  The form displays the account record existing properties values in varying form control types to match its property data type and required format. All form controls require field-level validations to assure appropriate data is entered in the required format. **Actions Summary** The following table lists the associated user interface actions. | | | | |
|  | | | | | | | | |
| **User Interface Fields Summary** | | | | | | TABLE 3.4.4.4-2 – EDIT ACCOUNT USER INTERFACE VIEWS SUMMARY | | |
| **Field Name** | **Format** | **Required** | | **Default Value** | | | **Example Value** | **Validations** |
| Account Name | Text | True | | N/A | | | Spear Web Services LTD | Required, Is Unique |
| B.R ID | Number | True | | N/A | | | 44826711 | Required, Min / Max Length, Numeric |
| Enabled | Checkbox | True | | True | | | True | N/A |
| PoA Document | File | False | | N/A | | | N/A | File Type, File Size |

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| **Delete Account** | **3.4.4.5** |  |  | | |  |  | | --- | --- | | TABLE 3.4.4.5 – DELETE ACCOUNT ACTIONS SUMMARY | | | **Action Name** | **Action Description** | | Confirm | Confirm delete action and dismiss the model dialog | | Cancel | Dismiss the model dialog and cancel the delete action | | |
| **Overview** The Delete Account model dialog is displayed following a Delete action of an account record. The user is prompt to confirm or cancel the deletion process while view explicitly stating the selected account record properties values as a safety percussion.  The model dialog appears within the Accounts List and Account View user interfaces. **Actions Summary** The following table lists the associated user interface actions. | |
|  | | | | | | |
| **User Interface Fields Summary** | | | TABLE 3.4.4.5-2 – DELETE ACCOUNT UI VIEW FIELDS SUMMARY | | | |
| **Field Name** | | | | **Format** | | **Example Value** |
| Account Name | | | | Text | | Spear Web Services LTD |
| B.R ID | | | | Number | | 44826711 |

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| **Identity and Access Management Module** | | | | | **3.5** |
| The following section describes the Identity and Access Management product module features. | | | | | |
|  | | | | | |
| **Overview** | **3.5.1** |  |  | TABLE 3.5.2 – ACCOUNT MANAGEMENT MODULE USE CASES SUMMARY | |
| The Identity and Access Management product module includes product features that enables System and Account Administrators to provision and manage user accounts and their required access to the system. | | |  | | --- | | **Use Case** | | Provision a New User Account | | Manage User Accounts | | Assign or Revoke User Account Role | | Reset a User Account Password  Enable or disable a User Account | |  | | TABLE 3.4.2 – ACCOUNT MANAGEMENT MODULE USER INTERFACES SUMMARY | | **User Interface** | | Users Accounts List | | View User Account | | Add User Account Form | | Edit User Account Form | | Delete User Model Dialog | | Reset User Password | | |
| **Use Cases Summary** | **3.5.2** |
| The following section lists the account management product module features and use-cases, in terms that describe its supported user stories. | |

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| **Identity and Access Management Module Use Cases** | | | | | **3.5.3** |
| The following section describes the Identity and Access product module use cases. | | | | | |
| **Provision a New User Account** | **3.5.3.1** |  |  | **Manage User Accounts** | **3.5.3.2** |
| **Overview** For a user of any role within the system to gain access and perform role-based actions within the system, a User Account record must be created by either a System Administrator or an Account Administrator within the User Accounts administration management interface. **User Stories Summary** The following table lists the associated user stories required by the use case.   |  |  | | --- | --- | | TABLE 3.5.3.1 – PROVISION A NEW USER ACCOUNT USER STORIES SUMMARY | | | **User Story** | **ID** | | Access the User Accounts Administration management interface | IAM-01 | | List user accounts records | IAM-02 | | Create a new user account record | IAM-06 | | | **Overview** Following the creation of a User Account record, user account administration tasks may be required to support both customers and various teams within the business. These include viewing, modifying, deleting and exporting user accounts records. User accounts management to be made available to System Administrators and Account Administrators only, to assure suitable access rights. **User Stories Summary** The following table lists the associated user stories required by the use case. | |
| |  |  | | --- | --- | | TABLE 3.5.3.2 – MANAGE USERS ACCOUNTS USER STORIES SUMMARY | | | **User Story** | **ID** | | Access the User Accounts Administration management interface | IAM-01 | | List user accounts records | IAM-02 | | Export user accounts records | IAM-03 | | Sort and Filter user account list records | IAM-04 | | View a user account record | IAM-05 | | Edit a user account record | IAM-07 | | Delete a user account record | IAM-08 | | Reset a user account password | IAM-09 | | |
| **Assign or Revoke User Account Role** | **3.5.3.3** |  |  | **Enable or Disable a User Account** | **3.5.3.4** |
| **Overview** A User Role is a system object that is associated to all user accounts and is used by the system to enforce access control policies within the various product modules and system features.  Assigning a role to a user is a mandatory step when provisioning a new user account but may also be later required as users access needs or their role within the organization change over time. This use case is strictly available to System and Accounts Administrators. **User Stories Summary** The following table lists the associated user stories required by the use case.   |  |  | | --- | --- | | TABLE 3.5.3.3 – ASSIGN OR REVOKE USER ACCOUNT ROLE USER STORIES SUMMARY | | | **User Story** | **ID** | | Access the User Accounts Administration management interface | IAM-01 | | List user accounts records | IAM-02 | | View a user account record | IAM-05 | | Edit a user account record | IAM-07 | | | **Overview** Enable or disable a user account by System or Account Administrators to restrict its access to the system and associated role access rights.  Although revoking access to various product features can be achieved by revoking associated user roles from the user, this ability grants the administrator to prevent any access to the system with the added benefit of retaining the user account role configuration. By default, all user accounts are in an enabled state. **User Stories Summary** The following table lists the associated user stories required by the use case. | |
| |  |  | | --- | --- | | TABLE 3.5.3.4 – ENABLE OR DISABLE A USER ACCOUNT USER STORIES SUMMARY | | | **User Story** | **ID** | | Access the User Accounts Administration management interface | IAM-01 | | List user accounts records | IAM-02 | | View a user account record | IAM-05 | | Enable or disable a user account | IAM-10 | | |

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| **Reset a User Account Password** | **3.5.3.5** |  |  |  |  |
| **Overview** This use case provides administrators with the ability to reset a user account password (rather than have the user to reset it via self-service features which will not be available in the product MVP release). **User Stories Summary** The following table lists the associated user stories required by the use case.   |  |  | | --- | --- | | TABLE 3.4.4.1 – RESET A USER ACCOUNT PASSWORD USER STORIES SUMMARY | | | **User Story** | **ID** | | Access the User Accounts Administration management interface | IAM-01 | | List user accounts records | IAM-02 | | View a user account record | IAM-05 | | Reset a user account password | IAM-09 | | |  | |

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| **Identity and Access Management Module User Interfaces** | | | | | | | **3.5.4** |
| The following section describes the Identity and Access Management product module user interfaces. | | | | | | | |
| **Users List** | **3.5.4.1** |  |  | | |  |  | | --- | --- | | TABLE 3.5.4.1 – USERS LIST ACTIONS SUMMARY | | | **Action Name** | **Action Description** | | Export Users | Download Users file | | Filter Users | Filter the Users list based on a selected property | | Add User | Open the Add Users Form user interface | | Edit User | Open the Edit Users Form user interface | | Delete User | Open confirmation dialog and delete user | | | |
| **Overview** The Users List user interface enables System Administrators to manage user records from a centralized management interface. It includes UI elements required to facilitate user management use cases and user stories.  The Users List displays essential user properties of the complete list of user records using a table like UI component that supports records navigation, filtering and sorting. Use-case related actions are available from the contextual table row menus and view toolbar. **Actions Summary** The following table lists the associated user interface actions. | |
|  | | | | | | | |
| **View Fields Summary** | | | TABLE 3.5.4.1-2 – USERS UI VIEW FIELDS SUMMARY | | | | |
| **Field Name** | | | | **Format** | | **Example Value** | |
| User Name | | | | Email | | mark@spear.ws | |
| First Name | | | | Text | | Mark | |
| Last Name | | | | Text | | Miller | |
| Account | | | | Text | | Spear Web Services LTD | |
| Role | | | | Text | | Account Administrator | |

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| **View User Form** | **3.5.4.2** |  |  | | |  |  | | --- | --- | | TABLE 3.5.4.2 – ADD USER FORM ACTIONS SUMMARY | | | **Action Name** | **Action Description** | | Back | Navigate to origin | | Edit | Navigate to the Edit User Form user interface | | Delete | Display confirmation model dialog and delete the record | | Reset User Password | Open the Reset User Password user interface | | |
| **Overview** The View User Form user interface enables System Administrators to view a user record details in a read-only like form interface.  The form displays the user record properties in a text like format (fields are none editable or interactable). **Actions Summary** The following table lists the associated user interface actions. | |
|  | | | | | | |
| **User Interface Fields Summary** | | | TABLE 3.5.4.2-2 – ADD ACCOUNT UI VIEW FIELDS SUMMARY | | | |
| **Field Name** | | | | **Format** | | **Example Value** |
| User Name | | | | Email | | mark@spear.ws |
| First Name | | | | Text | | Mark |
| Last Name | | | | Text | | Miller |
| Account | | | | Text | | Spear Web Services LTD |
| Role | | | | Text | | Account Administrator |
| Enabled | | | | Checkbox | | True |

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| **Add User Form** | | | **3.5.4.3** | |  |  | |  |  | | --- | --- | | TABLE 3.5.4.3 – ADD USER FORM ACTIONS SUMMARY | | | **Action Name** | **Action Description** | | Cancel | Dismiss form data and navigate to origin | | Submit | Submit form data and navigate to origin | | |
| **Overview** The Add User Form user interface enables System Administrators to create a new user record. The form displays user record properties in varying form control types to match its property data type and required format.  All form controls require field-level validations to assure appropriate data is entered in the required format.  Note that the Account field is made optional if the user who is creating the record is of a System Administrator role. The Role field values should include the System Administrator role only in the event of the user who is creating the record is of a System Administrator role as well. **Actions Summary** The following table lists the associated user interface actions. | | | | |
|  | | | | | | | | |
| **User Interface Fields Summary** | | | | | | TABLE 3.5.4.3-2 – ADD USER UI VIEW FIELDS SUMMARY | | |
| **Field Name** | **Format** | **Required** | | **Default Value** | | | **Example Value** | **Validations** |
| User Name | Email | True | | N/A | | | mark@spear.ws | Required, Unique |
| First Name | Text | True | | N/A | | | Mark | Required, Alphabetical |
| Last Name | Text | True | | N/A | | | Miller | Required, Alphabetical |
| Account | Text | False | | N/A | | | Spear Web Services LTD |  |
| Role | Select | True | | N/A | | | Account Administrator | Required |
| Password | Password | True | | N/A | | | P@ssw0rd | Required, Min Length |
| Enabled | Checkbox | True | | True | | | True | N/A |
| **Edit User Form** | | | **3.5.4.4** | |  |  | |  |  | | --- | --- | | TABLE 3.5.4.4 – EDIT USER FORM ACTIONS SUMMARY | | | **Action Name** | **Action Description** | | Cancel | Dismiss form changes and navigate to origin | | Save | Save form data and navigate to origin | | |
| **Overview** The Edit User Form user interface enables System Administrators to edit a user record.  The form displays the user record existing properties values in varying form control types to match its property data type and required format. All form controls require field-level validations to assure appropriate data is entered in the required format.  Note that User Name and Password fields are not available for editing (password reset can be performed using its dedicated user interface) and that the form is to inherit restrictions and behaviors available in the Add User Account user interface. **Actions Summary** The following table lists the associated user interface actions. | | | | |
|  | | | | | | | | |
| **User Interface Fields Summary** | | | | | | TABLE 3.5.4.4-2 – EDIT USER UI VIEW FIELDS SUMMARY | | |
| **Field Name** | **Format** | **Required** | | **Default Value** | | | **Example Value** | **Validations** |
| First Name | Text | True | | N/A | | | Mark | Required, Alphabetical |
| Last Name | Text | True | | N/A | | | Miller | Required, Alphabetical |
| Account | Text | True | | N/A | | | Spear Web Services LTD | Required |
| Role | Select | True | | N/A | | | Account Administrator | Required |
| Enabled | Checkbox | True | | True | | | True | N/A |

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| **Delete User** | **3.5.4.5** |  |  | | |  |  | | --- | --- | | TABLE 3.4.4.5 – DELETE USER ACTIONS SUMMARY | | | **Action Name** | **Action Description** | | Confirm | Confirm delete action and dismiss the model dialog | | Cancel | Dismiss the model dialog and cancel the delete action | | |
| **Overview** The Delete User model dialog is displayed following a Delete action of a user record. The user is prompt to confirm or cancel the deletion process while view explicitly stating the selected user record properties values as a safety percussion.  The model dialog appears within the Users List and User View user interfaces. **Actions Summary** The following table lists the associated user interface actions. | |
|  | | | | | | |
| **User Interface Fields Summary** | | | TABLE 3.5.4.5-2 – DELETE USER UI VIEW FIELDS SUMMARY | | | |
| **Field Name** | | | | **Format** | | **Example Value** |
| User Name | | | | Email | | mark@spear.ws |
| Account | | | | Text | | Spear Web Services LTD |
| Role | | | | Text | | Account Administrator |

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| **Reset User Password** | | | **3.5.4.6** | |  |  | |  |  | | --- | --- | | TABLE 3.5.4.6 – RESET USER PASSWORD ACTIONS SUMMARY | | | **Action Name** | **Action Description** | | Cancel | Dismiss form changes and navigate to origin | | Save | Save form data and navigate to origin | | |
| **Overview** The Reset User Password user interface enables System Administrators to reset a user password by providing new values to the user account password field. **Actions Summary** The following table lists the associated user interface actions. | | | | |
|  | | | | | | | | |
| **User Interface Fields Summary** | | | | | | TABLE 3.5.4.6-2 – RESET USER PASSWORD UI VIEW FIELDS SUMMARY | | |
| **Field Name** | **Format** | **Required** | | **Default Value** | | | **Example Value** | **Validations** |
| Password | Password | True | | N/A | | | P@ssw0rd | Required, Min-Length |

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| --- | --- | --- | --- | --- | --- |
| **Vehicles Management Module** | | | | | **3.6** |
| The following section describes the Vehicles Management product module features. | | | | | |
|  | | | | | |
| **Overview** | **3.6.1** |  |  | TABLE 3.6.1 – VEHICLES MANAGEMENT MODULE USE CASES SUMMARY | |
| The Vehicles Management product module includes product features that enables System Administrators, Account Administrators and Account Fleet Managers to create and manage vehicle records (including associated vehicle contracts). | | |  | | --- | | **Use Case** | | Add a New Vehicle | | Manage Vehicles | | Import Vehicles | | Manage Vehicle Contract | | Upload Vehicle Documents | | Review Vehicle Infringements | |  | | |  | | --- | | **User Interface** | | Vehicle List | | View Vehicle | | Add Vehicle Form | | Edit Vehicle Form | | Delete Vehicle Model Dialog | | Import Vehicles | | | |
| **Use Cases Summary** | **3.6.2** |
| The following section lists the Vehicles Management product module features and use-cases, in terms that describe its supported user stories. | |
| **Vehicles Management Module Use Cases** | | | | | **3.6.3** |
| The following section describes the Vehicles Management product module use cases. | | | | | |
| **Add a New Vehicle** | **3.6.3.1** |  |  | **Manage Vehicles** | **3.6.3.2** |
| **Overview** A Vehicle represent a physical vehicle being managed by a registered account within the system. A vehicle is a mandatory record that is required for the system to associate infringements to an account. A new vehicle record can be created by either a System Administrator, Account Administrator or an Account Fleet Manager. Beyond the mandatory information required to create the vehicle record, a required set of documents may also be required to support other product modules such as Infringement Management, Payments and Nominations and are to be included during the vehicle creation process. **User Stories Summary** The following table lists the associated user stories required by the use case.   |  |  | | --- | --- | | TABLE 3.6.3.1 – ADD A NEW VEHICLE USER STORIES SUMMARY | | | **User Story** | **ID** | | Access the Vehicles management interface | VM-01 | | List vehicle records | VM-02 | | Create a new vehicle record | VM-06 | | | **Overview** Following the creation of a Vehicle record, vehicle administration tasks may be required to support both customers and various teams within the business. These include viewing, modifying, deleting and exporting vehicles records. Vehicles management to be made available to System Administrators, Account Administrators, Account Fleet Managers and Account Finance Manager (view only). **User Stories Summary** The following table lists the associated user stories required by the use case. | |
| |  |  | | --- | --- | | TABLE 3.6.3.2 – MANAGE VEHICLES USER STORIES SUMMARY | | | **User Story** | **ID** | | Access the Vehicles Management interface | VM-01 | | List vehicle records | VM-02 | | Export vehicle records | VM-03 | | Sort and Filter vehicles list records | VM-04 | | View a vehicle record | VM-05 | | Edit a vehicle record | VM-07 | | Delete a vehicle record | VM-08 | | |

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| --- | --- | --- | --- | --- | --- |
| **Import Vehicles** | **3.6.3.3** |  |  | **Manage Vehicle Contract** | **3.6.3.4** |
| **Overview** As an alternatively to the manual entry of vehicle records, a list of vehicles can be imported using an excel-based file format. The file may be uploaded by System Administrators, Account Administrators and Account Fleet Managers.  Once uploaded, the file structure and contents need to be mapped to the system vehicle records schema (each data file field needs to be associated with the required vehicle record schema field). Upon completion, the user may start the import process.  Note the import process address vehicles metadata properties and that associated documents will require manual uploading by an authorized user. **User Stories Summary** The following table lists the associated user stories required by the use case.   |  |  | | --- | --- | | TABLE 3.6.3.3 – IMPORT VEHICLES FROM FILE USER STORIES SUMMARY | | | **User Story** | **ID** | | Access the Vehicles management interface | VM-01 | | List vehicle records | VM-02 | | Upload vehicles File | VM-09 | | Map Imported File Structure | VM-10 | | | **Overview** In some scenarios, a vehicle might not be owned by the managing account (i.e. a leased vehicle). To enable the complete management of the vehicle by the account, the system enables the user to specify its contract details in terms that identify the true vehicle owner, contract start and termination dates.  Note that multiple contracts may exist over a use-period of a vehicle (i.e. contract renewals) as multiple contracts can be associated with a vehicle but varies by date periods or owners. **User Stories Summary** The following table lists the associated user stories required by the use case. | |
| |  |  | | --- | --- | | TABLE 3.6.3.4 – ENABLE OR DISABLE A USER ACCOUNT USER STORIES SUMMARY | | | **User Story** | **ID** | | Access the Vehicles management interface | VM-01 | | List vehicle records | VM-02 | | Create a new vehicle record | VM-06 | | Edit a vehicle record | VM-07 | | |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Upload Vehicle Documents** | **3.6.3.5** |  |  | **Review Vehicle Infringements** | **3.6.3.6** |
| **Overview** Beyond the mandatory information required to create the vehicle record, a required set of documents may also be required to support other product modules such as Infringement Management, Payments and Nominations. Although uploading these documents during the creation of a new vehicle record, in some scenarios (such as importing vehicles from a file for example) a user might require adding these in a later date.   **User Stories Summary** The following table lists the associated user stories required by the use case.   |  |  | | --- | --- | | TABLE 3.6.3.5 – UPLOAD VEHICLE DOCUMENTS USER STORIES SUMMARY | | | **User Story** | **ID** | | Access the Vehicles management interface | VM-01 | | List vehicle records | VM-02 | | Upload File | VM-09 | | Edit a vehicle record | VM-07 | | | **Overview** System Administrators, Account Administrators and Account Fleet Managers may review infringements that were associated with a specific vehicle. **User Stories Summary** The following table lists the associated user stories required by the use case. | |
| |  |  | | --- | --- | | TABLE 3.6.3.6 – ENABLE OR DISABLE A USER ACCOUNT USER STORIES SUMMARY | | | **User Story** | **ID** | | Access the Vehicles management interface | VM-01 | | List vehicle records | VM-02 | | View a vehicle record | VM-05 | | |

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| --- | --- | --- | --- | --- | --- | --- | --- |
| **Vehicles Management Module User Interfaces** | | | | | | | **3.6.4** |
| The following section describes the Vehicles Management product module user interfaces. | | | | | | | |
| **Vehicles List** | **3.6.4.1** |  |  | | |  |  | | --- | --- | | TABLE 3.6.4.1 – VEHICLES LIST ACTIONS SUMMARY | | | **Action Name** | **Action Description** | | Export Vehicles | Download Vehicles file | | Filter Vehicles | Filter the Vehicles list based on a selected property | | Add Vehicle | Open the Add Vehicle Form user interface | | Edit Vehicle | Open the Edit Vehicle Form user interface | | Delete Vehicle | Open confirmation dialog and delete vehicle | | Import Vehicles | Import Vehicles | | | |
| **Overview** The Vehicles List user interface enables users to manage vehicle records from a centralized management interface. It includes UI elements required to facilitate issuer management use cases and user stories.  The Vehicles List displays essential user properties of the complete list of vehicle records using a table like UI component that supports records navigation, filtering and sorting. Use-case related actions are available from the contextual table row menus and view toolbar. **Actions Summary** The following table lists the associated user interface actions. | |
|  | | | | | | | |
| **View Fields Summary** | | | TABLE 3.6.4.1-2 – VEHICLES LIST UI VIEW FIELDS SUMMARY | | | | |
| **Field Name** | | | | **Format** | | **Example Value** | |
| Registration Number | | | | Number | | 816877 | |
| Manufacturer | | | | Text | | Audi | |
| Classification | | | | Text | | Private | |
| Owner | | | | Text | | Spear Web Services LTD | |
| Total Unpaid | | | | Currency | | $180.48 | |

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| **View Vehicle Form** | | | **3.6.4.2** | |  |  | | |  |  | | --- | --- | | TABLE 3.6.4.2 – ADD VEHICLE FORM ACTIONS SUMMARY | | | **Action Name** | **Action Description** | | Back | Navigate to origin | | Edit | Navigate to the Edit Vehicle Form user interface | | Delete | Display confirmation model dialog and delete the record | | | | |
| **Overview** The View Vehicle Form user interface enables users to view a vehicle record details in a read-only like form interface. The form displays the vehicle record properties in a text like format (fields are none editable or interactable). **Actions Summary** The following table lists the associated user interface actions. | | | | |
|  | | | | | | | | | | | |
| **User Interface Fields Summary** | | | | | | TABLE 3.6.4.2-2 – ADD VEHICLE UI VIEW FIELDS SUMMARY | | | | | |
| **Field Name** | | | | | | | **Format** | | **Example Value** | | |
| Registration Number | | | | | | | Number | | 816877 | | |
| Manufacturer | | | | | | | Text | | Audi | | |
| Classification | | | | | | | Text | | Private | | |
| Colour | | | | | | | Text | | Silver | | |
| Owner | | | | | | | Text | | Spear Web Services LTD | | |
| Unpaid Infringements | | | | | | | List | | $180.48 | | |
| Contract Id | | | | | | | Number | | 882193 | | |
| Contract Start | | | | | | | Date | | 01/01/2019 | | |
| Contract End | | | | | | | Date | | 01/01/2020 | | |
| Contract File | | | | | | | File | | N/A | | |
| Vehicle Documents | | | | | | | List | | N/A | | |
| **Add Vehicle Form** | | | **3.6.4.3** | |  |  | | |  |  | | --- | --- | | TABLE 3.6.4.3 – ADD VEHICLE FORM ACTIONS SUMMARY | | | **Action Name** | **Action Description** | | Cancel | Dismiss form data and navigate to origin | | Submit | Submit form data and navigate to origin | | | | |
| **Overview** The Add Vehicle Form vehicle interface enables users to create a new vehicle record. The form displays vehicle record properties in varying form control types to match its property data type and required format. All form controls require field-level validations to assure appropriate data is entered in the required format. **Actions Summary** The following table lists the associated user interface actions. | | | | |
|  | | | | | | | | | | | |
| **User Interface Fields Summary** | | | | | | TABLE 3.6.4.3-2 – ADD VEHICLE UI VIEW FIELDS SUMMARY | | | | | |
| **Field Name** | **Format** | **Required** | | **Default Value** | | | | **Example Value** | | | **Validations** |
| Registration Number | Number | True | | N/A | | | | 816877 | | | Required, Unique |
| Manufacturer | Text | True | | N/A | | | | Audi | | | Required, Alphabetical |
| Classification | Select | True | | N/A | | | | Private | | | Required, Alphabetical |
| Colour | Select | False | | N/A | | | | Silver | | | Required |
| Owner | List / Text | False | | N/A | | | | Colmobil Group LTD | | | N/A |
| Contract Id | Number | False | | N/A | | | | LS-882193 | | | N/A |
| Contract Start | Date | False | | Today | | | | 01/01/2019 | | | N/A |
| Contract End | Date | False | | N/A | | | | 01/01/2019 | | | N/A |
| Contract Document | File | False | | N/A | | | | N/A | | | N/A |
| Vehicle Documents | List, File Upload | False | | N/A | | | | N/A | | | File Types, File Size |
| **Edit Vehicle Form** | | | **3.6.4.4** | |  |  | | |  |  | | --- | --- | | TABLE 3.6.4.4 – EDIT VEHICLE FORM ACTIONS SUMMARY | | | **Action Name** | **Action Description** | | Cancel | Dismiss form changes and navigate to origin | | Save | Save form data and navigate to origin | | | | |
| **Overview** The Edit Vehicle Form user interface enables users to edit a vehicle record. The form displays the vehicle record existing properties values in varying form control types to match its property data type and required format. All form controls require field-level validations to assure appropriate data is entered in the required format. **Actions Summary** The following table lists the associated user interface actions. | | | | |
|  | | | | | | | | | | | |
| **User Interface Fields Summary** | | | | | | TABLE 3.6.4.4-2 – EDIT VEHICLE UI VIEW FIELDS SUMMARY | | | | | |
| **Field Name** | **Format** | **Required** | | **Default Value** | | | | **Example Value** | | | **Validations** |
| Registration Number | Number | True | | N/A | | | | 816877 | | | Required, Unique |
| Manufacturer | Text | True | | N/A | | | | Audi | | | Required, Alphabetical |
| Classification | Select | True | | N/A | | | | Private | | | Required, Alphabetical |
| Colour | Select | False | | N/A | | | | Silver | | | Required |
| Owner | List / Text | False | | N/A | | | | Colmobil Group LTD | | | N/A |
| Contract Id | Number | False | | N/A | | | | LS-882193 | | | N/A |
| Contract Start | Date | False | | Today | | | | 01/01/2019 | | | N/A |
| Contract End | Date | False | | N/A | | | | 01/01/2019 | | | N/A |
| Contract File | File Upload | False | | N/A | | | | N/A | | | N/A |
| Vehicle Documents | List, File Upload | False | | N/A | | | | N/A | | | File Types, File Size |
| **Delete Vehicle** | | | **3.6.4.5** | |  |  | | |  |  | | --- | --- | | TABLE 3.6.4.5 – DELETE VEHICLE ACTIONS SUMMARY | | | **Action Name** | **Action Description** | | Confirm | Confirm delete action and dismiss the model dialog | | Cancel | Dismiss the model dialog and cancel the delete action | | | | |
| **Overview** The Delete Vehicle model dialog is displayed following a Delete action of a vehicle record. The user is prompt to confirm or cancel the deletion process while view explicitly stating the selected vehicle record properties values as a safety percussion.  The model dialog appears within the Vehicle List and Vehicle View user interfaces. **Actions Summary** The following table lists the associated user interface actions. | | | | |
|  | | | | | | | | | | | |
| **User Interface Fields Summary** | | | | | | TABLE 3.6.4.5-2 – DELETE VEHICLE UI VIEW FIELDS SUMMARY | | | | | |
| **Field Name** | | | | | | | **Format** | | | **Example Value** | |
| Registration Number | | | | | | | Email | | | 816877 | |
| Owner | | | | | | | Text | | | Colmobil Group LTD | |

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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Import Vehicles** | **3.6.4.6** | |  |  | |  |  | | --- | --- | | TABLE 3.6.4.6 – IMPORT VEHICLE FROM FILE ACTIONS SUMMARY | | | **Action Name** | **Action Description** | | Upload File | Upload a local file to import | | Cancel | Dismiss form changes and navigate to origin | | Submit | Submit form data, execute import and navigate to origin | | | |
| **Overview** The Import Vehicle user interface enables users to import multiple vehicle records from an Excel-based file. The user selects a local file for upload and associate the file auto-detected fields to the system vehicle record fields.  A preview of the data is created during the mapping process. Once all required schema fields are mapped, the user can submit the file for processing and the system will generate the vehicle records. **Actions Summary** The following table lists the associated user interface actions. | | |
|  | | | | | | | |
| **User Interface Fields Summary** | | | | TABLE 3.6.4.6-2 – IMPORT VEHICLE FROM FILE UI VIEW FIELDS SUMMARY | | | |
| **Field Name** | | **Format** | | | | **Required** | **Validations** |
| File | | File Upload | | | | True | Required, File Type, File Size |
| File Fields | | Select, Table | | | | True | Required |
| Record Field | | Select, Table | | | | True | Required |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Infringements Management Module** | | | | | **3.7** |
| The following section describes the Infringements Management product module features. | | | | | |
|  | | | | | |
| **Overview** | **3.7.1** |  |  | TABLE 3.7.1 – INFRINGEMENTS MANAGEMENT MODULE USE CASES SUMMARY | |
| The Infringements Management product module includes product features that enables System Administrators, Account Administrators and Account Fleet Managers to create and manage infringement records. | | |  | | --- | | **Use Case** | | Add a New Infringement | | Manage Infringements | | Import Infringements | |  | | **User Interface** | | Infringements List | | View Infringement | | Add Infringement Form | | Edit Infringement Form | | Delete Infringement Model Dialog | | Import Infringements | | |
| **Use Cases Summary** | **3.7.2** |
| The following section lists the Infringements Management product module features and use-cases, in terms that describe its supported user stories. | |

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| **Infringements Management Module Use Cases** | | | | | **3.7.3** |
| The following section describes the Infringements Management product module use cases. | | | | | |
| **Add a New Infringement** | **3.7.3.1** |  |  | **Manage Infringements** | **3.7.3.2** |
| **Overview** An infringement represents a vehicle related infringement that was issued by an issuer (a municipality or a local authority). A new infringement record can be created by either a System Administrator, Account Administrator or an Account Fleet Manager to enable various product features such as Reporting, Data Visualization, Payments and Nominations. **User Stories Summary** The following table lists the associated user stories required by the use case.   |  |  | | --- | --- | | TABLE 3.7.3.1 – ADD A NEW INFRINGEMENT USER STORIES SUMMARY | | | **User Story** | **ID** | | Access the Infringements management interface | IM-01 | | List infringements records | IM-02 | | Create a new infringements record | IM-06 | | | **Overview** Following the creation of an infringement record, infringement administration tasks may be required to support both customers and various teams within the business. These include viewing, modifying, deleting and exporting infringement records. Infringement management capabilities to be made available to System Administrators, Account Administrators, Account Fleet Managers and Account Finance Manager (view only). **User Stories Summary** The following table lists the associated user stories required by the use case. | |
| |  |  | | --- | --- | | TABLE 3.7.3.2 – MANAGE INFRINGEMENTS USER STORIES SUMMARY | | | **User Story** | **ID** | | Access the Infringements management interface | IM-01 | | List Infringement records | IM-02 | | Export Infringement records | IM-03 | | Sort and Filter infringement list records | IM-04 | | View an infringement record | IM-05 | | Edit an infringement record | IM-07 | | Delete an infringement record | IM-08 | | |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Import Infringements** | **3.7.3.3** |  |  |  |  |
| **Overview** As an alternatively to the manual entry of infringement records, a list of infringements can be imported using an excel-based file format. The file may be uploaded by System Administrators, Account Administrators and Account Fleet Managers.  Once uploaded, the file structure and contents need to be mapped to the system infringement records schema (each data file field needs to be associated with the required vehicle record schema field). Upon completion, the user may start the import process. **User Stories Summary** The following table lists the associated user stories required by the use case.   |  |  | | --- | --- | | TABLE 3.7.3.3 – IMPORT INFRINGEMENTS FROM FILE USER STORIES SUMMARY | | | **User Story** | **ID** | | Access the Infringements management interface | IM-01 | | List infringement records | IM-02 | | Upload Infringement File | IM-09 | | Map Imported File Structure | IM-10 | | |  | |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Infringements Management Module User Interfaces** | | | | | | | **3.7.4** |
| The following section describes the Infringements Management product module user interfaces. | | | | | | | |
| **Infringements List** | **3.7.4.1** |  |  | | |  |  | | --- | --- | | TABLE 3.7.4.1 – INFRINGEMENTS LIST ACTIONS SUMMARY | | | **Action Name** | **Action Description** | | Export Infringements | Download Infringements file | | Filter Infringements | Filter the Infringements list based on selected property | | Add Infringement | Open the Add Infringement Form user interface | | Edit Infringement | Open the Edit Infringement Form user interface | | Delete Infringement | Open confirmation dialog and delete vehicle | | | |
| **Overview** The Infringements List user interface enables users to manage infringement records from a centralized management interface. It includes UI elements required to facilitate infringements management use cases and user stories. The Infringements List displays essential user properties of the complete list of infringement records using a table like UI component that supports records navigation, filtering and sorting. Use-case related actions are available from the contextual table row menus and view toolbar. **Actions Summary** The following table lists the associated user interface actions. | |
|  | | | | | | | |
| **View Fields Summary** | | | TABLE 3.7.4.1-2 – INFRINGEMENTS LIST UI VIEW FIELDS SUMMARY | | | | |
| **Field Name** | | | | **Format** | | **Example Value** | |
| Infringement ID | | | | Text | | TLV-816877 | |
| Offence Date | | | | Date | | 01/01/2019 | |
| Payment Due | | | | Text | | Private | |
| Is Passed Due | | | | Boolean | | True | |
| Issuer | | | | Text | | City of Tel-Aviv (Municipality) | |
| Total Amount | | | | Currency | | $180.48 | |
| **View Infringement Form** | **3.7.4.2** |  |  | | |  |  | | --- | --- | | TABLE 3.7.4.2 – ADD INFRINGEMENT FORM ACTIONS SUMMARY | | | **Action Name** | **Action Description** | | Back | Navigate to origin | | Edit | Navigate to the Edit Vehicle Form user interface | | Delete | Display confirmation model dialog and delete the record | | | |
| **Overview** The View Infringement Form user interface enables users to view an infringement record details in a read-only like form interface. The form displays the infringement record properties in a text like format (fields are none editable or interactable). **Actions Summary** The following table lists the associated user interface actions. | |
|  | | | | | | | |

|  |  |  |  |
| --- | --- | --- | --- |
| **User Interface Fields Summary** | TABLE 3.7.4.2-2 – ADD INFRINGEMENT UI VIEW FIELDS SUMMARY | | |
| **Field Name** | | **Format** | **Example Value** |
| Infringement ID | | Text | TLV-816877 |
| Vehicle Registration ID | | Number | 818778 |
| Offence Date | | Date | 01/01/2019 |
| Payment Due | | Text | Private |
| Is Passed Due | | Boolean | True |
| Issuer | | Text | City of Tel-Aviv (Municipality) |
| Original Amount | | Currency | $180.48 |
| Penalties Amount | | Currency | $180.48 |
| Total Amount | | Currency | $180.48 |
| Location | | Text | Hataysim 37 Tel-Aviv |
| Description | | Text | N/A |
| By Law Clause | | Text | N/A |
| Status | | Text | Pending Approval, Approved for Payment, Resolved |
| Logged Method | | Text | User, System |
| Last Updated | | Date | 01/01/2019 |
| Nomination Status | | Text | Pending, Completed |
| Attachments | | File | N/A |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Add Infringement Form** | | | **3.7.4.3** | |  |  | | |  |  | | --- | --- | | TABLE 3.7.4.3 – ADD INFRINGEMENT FORM ACTIONS SUMMARY | | | **Action Name** | **Action Description** | | Cancel | Dismiss form data and navigate to origin | | Submit | Submit form data and navigate to origin | | | |
| **Overview** The Add Infringement Form user interface enables users to create a new infringement record. The form displays infringement record properties in varying form control types to match its property data type and required format. All form controls require field-level validations to assure appropriate data is entered in the required format. **Actions Summary** The following table lists the associated user interface actions. | | | | |
| **User Interface Fields Summary** | | | | | | TABLE 3.7.4.3-2 – ADD INFRINGEMENT UI VIEW FIELDS SUMMARY | | | | |
| **Field Name** | **Format** | **Required** | | **Default Value** | | | | **Example Value** | | **Validations** |
| Infringement ID | Text | True | | N/A | | | | TLV-816877 | | Required, Unique |
| Vehicle Registration ID | Number | True | | N/A | | | | 818778 | | Required, Numerical |
| Offence Date | Date | True | | N/A | | | | 01/01/2019 | | Required, Date |
| Payment Due | Date | True | | N/A | | | | Private | | Required, Date |
| Issuer | List | True | | N/A | | | | City of Tel-Aviv (Municipality) | | Required |
| Amount | Currency | True | | N/A | | | | $180.48 | | Required, Numerical |
| Penalties Amount | Currency | False | | N/A | | | | $180.48 | | Numerical |
| Location | Text | True | | N/A | | | | Ha’tayasim 37 Tel-Aviv | | Required |
| Description | Text | False | | N/A | | | | N/A | | N/A |
| By Law Clause | Text | False | | N/A | | | | N/A | | N/A |
| Attachments | File Upload | False | | N/A | | | | N/A | | File Type, File Size |
| **Edit Infringement Form** | | | **3.7.4.4** | |  |  | | |  |  | | --- | --- | | TABLE 3.7.4.4 – EDIT INFRINGEMENT FORM ACTIONS SUMMARY | | | **Action Name** | **Action Description** | | Cancel | Dismiss form data and navigate to origin | | Submit | Submit form data and navigate to origin | | | |
| **Overview** The Edit Infringement Form user interface enables users to edit an infringement record. The form displays the infringement record existing properties values in varying form control types to match its property data type and required format. All form controls require field-level validations to assure appropriate data is entered in the required format. **Actions Summary** The following table lists the associated user interface actions. | | | | |
| **User Interface Fields Summary** | | | | | | TABLE 3.7.4.4-2 – EDIT INFRINGEMENT UI VIEW FIELDS SUMMARY | | | | |
| **Field Name** | **Format** | **Required** | | **Default Value** | | | | **Example Value** | | **Validations** |
| Infringement ID | Text | True | | N/A | | | | TLV-816877 | | Required, Unique |
| Vehicle Registration ID | Number | True | | N/A | | | | 818778 | | Required, Numerical |
| Offence Date | Date | True | | N/A | | | | 01/01/2019 | | Required, Date |
| Payment Due | Date | True | | N/A | | | | Private | | Required, Date |
| Issuer | Select | True | | N/A | | | | City of Tel-Aviv (Municipality) | | Required |
| Amount | Currency | True | | N/A | | | | $180.48 | | Required, Numerical |
| Penalties Amount | Currency | False | | N/A | | | | $180.48 | | Numerical |
| Location | Text | True | | N/A | | | | Ha’tayasim 37 Tel-Aviv | | Required |
| Description | Text | False | | N/A | | | | N/A | | N/A |
| By Law Clause | Text | False | | N/A | | | | N/A | | N/A |
| Attachments | File Upload | False | | N/A | | | | N/A | | File Type, File Size |
| **Delete Infringement** | | | **3.7.4.5** | |  |  | | |  |  | | --- | --- | | TABLE 3.7.4.5 – DELETE INFRINGEMENT ACTIONS SUMMARY | | | **Action Name** | **Action Description** | | Confirm | Confirm delete action and dismiss the model dialog | | Cancel | Dismiss the model dialog and cancel the delete action | | | |
| **Overview** The Delete Infringement model dialog is displayed following a Delete action of an infringement record. The user is prompt to confirm or cancel the deletion process while view explicitly stating the selected infringement record properties values as a safety percussion.  The model dialog appears within the Infringements List and Infringement View user interfaces. **Actions Summary** The following table lists the associated user interface actions. | | | | |
|  | | | | | | | | | | |
| **User Interface Fields Summary** | | | | | | TABLE 3.6.4.5-2 – DELETE INFRINGEMENT UI VIEW FIELDS SUMMARY | | | | |
| **Field Name** | | | | | | | **Format** | | **Example Value** | |
| Infringement ID | | | | | | | Number | | TLV-816877 | |
| Vehicle Registration ID | | | | | | | Number | | 818778 | |
| Issuer | | | | | | | Text | | City of Tel-Aviv (Municipality) | |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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| **Import Infringements** | | | **3.7.4.6** | |  |  | |  |  | | --- | --- | | TABLE 3.7.4.6 – IMPORT INFRINGEMENT FROM FILE ACTIONS SUMMARY | | | **Action Name** | **Action Description** | | Upload File | Upload a local file to import | | Cancel | Dismiss form changes and navigate to origin | | Submit | Submit form data, execute import and navigate to origin | | |
| **Overview** The Import Infringements user interface enables users to import multiple infringement records from an Excel-based file. The user selects a local file for upload and associates the file auto-detected fields to the system infringement record fields.  A preview of the data is created during the mapping process. Once all required schema fields are mapped, the user can submit the file for processing and the system will generate the infringement records. **Actions Summary** The following table lists the associated user interface actions. | | | | |
|  | | | | | | | | |
| **User Interface Fields Summary** | | | | | | TABLE 3.7.4.6-2 – IMPORT INFRINGEMENT FROM FILE UI VIEW FIELDS SUMMARY | | |
| **Field Name** | **Format** | **Required** | | **Default Value** | | | **Example Value** | **Validations** |
| File | File Upload | True | | N/A | | | N/A | Required, File Type, File Size |
| File Fields | Select, Table | True | | N/A | | | N/A | Required |
| Record Field | Select, Table | True | | N/A | | | N/A | Required |

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| **Infringements Payments Module** | | | | | **3.8** |
| The following section describes the Infringements Payments product module features. | | | | | |
|  | | | | | |
| **Overview** | **3.8.1** |  |  | TABLE 3.8.1 – INFRINGEMENTS PAYMENTS MODULE USE CASES SUMMARY | |
| The Infringements Payments product module includes product features that enables System Administrators, Account Administrators and Account Fleet Managers to review and approve infringements for payment. To complete the payment, and Account Finance Manager will be required to review payment requests and provide billing related information. | | |  | | --- | | **Use Case** | | Review & Approve Infringements | | Review & Approve Payments | | Review Payment Summary | | Submit & Confirm Payment | |  | | **User Interface** | | | Payment Summary | | | |
| **Use Cases Summary** | **3.8.2** |
| The following section lists the Infringements Payments product module features and use-cases, in terms that describe its supported user stories. | |

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| **Infringements Payments Module Use Cases** | | | | | **3.8.3** |
| The following section describes the Infringements Payments product module use cases. | | | | | |
| **Review & Approve Infringements** | **3.8.3.1** |  |  | **Review & Approve Outstanding Payments** | **3.8.3.2** |
| **Overview** Prior to any payment processing, outstanding infringements must be reviewed and approved by a System Administrator, Account Administrator or an Account Fleet Manager. Once Reviewed, infringement approval state is set by the user. Infringements of an approved state will be reviewed by an Account Finance Manger prior to payment submission and processing by the system. **User Stories Summary** The following table lists the associated user stories required by the use case.   |  |  | | --- | --- | | TABLE 3.8.3.1 – REVIEW & APPROVE INFRINGEMENTS USER STORIES SUMMARY | | | **User Story** | **ID** | | Access the Infringements management interface | IM-01 | | List infringements records | IM-02 | | View an infringement record | IM-05 | | Approve or reject infringement records | IP-01 | | | **Overview** Following the payment approval of infringement records, an Account Finance Manager can review outstanding infringement payments. Selected payments are marked as approved for payment and can be processed for. **User Stories Summary** The following table lists the associated user stories required by the use case. | |
| |  |  | | --- | --- | | TABLE 3.8.3.2 – REVIEW & APPROVE OUTSTANDING PAYMENTS USER STORIES SUMMARY | | | **User Story** | **ID** | | Access the Infringements management interface | IM-01 | | List infringements records | IM-02 | | View an infringement record | IM-05 | | Approve or reject infringement records payments | IP-02 | | |

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| **Review Payment Summary** | **3.8.3.3** |  |  | **Submit & Confirm Payment** | **3.8.3.4** |
| **Overview** Following the payment approval of outstanding infringement payments, a detail summary of the payment is displayed to the Account Finance Manager prior submitting the payment for processing. The payment summary includes references to infringements, total cost calculation and cost breakdown per infringement issuer. If approved, the payment summary will be saved for later viewing within the Infringement Payments management interface. **User Stories Summary** The following table lists the associated user stories required by the use case.   |  |  | | --- | --- | | TABLE 3.8.3.3 – REVIEW PAYMENT SUMMARY USER STORIES SUMMARY | | | **User Story** | **ID** | | Access the Infringements management interface | IM-01 | | Approve or reject infringement records payments | IP-02 | | View payment summary | IP-03 | | View past payment summary records | IP-04 | | | **Overview** Following a payment summary review and approval, the account payment method and details are collected from the Account Finance Manager. These are required to issue the transaction and complete the payment process.  Upon completion, the user will be notified as for any potential failures executing the transaction. If successful, the user will be displayed a transaction reference for future use. The transaction reference ID will be coupled to the payment summary associated with the transaction and infringements addressed by the payment will be set to resolve state and will now include a reference to the payment summary. **User Stories Summary** The following table lists the associated user stories required by the use case. | |
| |  |  | | --- | --- | | TABLE 3.8.3.4 – SUBMIT & CONFIRM PAYMENT USER STORIES SUMMARY | | | **User Story** | **ID** | | Access the Infringements management interface | IM-01 | | View payment summary | IP-03 | | View payment summary records | IP-04 | | Submit payment details | IP-05 | | |

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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Infringements Payments Module User Interfaces** | | | | | | | | | | **3.8.4** |
| The following section describes the Infringements Payments product module user interfaces. | | | | | | | | | | |
| **Payment Summary** | **3.8.4.1** |  | |  | | | |  |  | | --- | --- | | TABLE 3.8.4.1 –PAYMENT SUMMARY LIST ACTIONS SUMMARY | | | **Action Name** | **Action Description** | | Cancel Payment | Discard payment and return to the Infringements list | | Approve Payment | Submit the payment for processing | | | | |
| **Overview** The Payment Summary user interface provides Account Finance Managers to review a summarized list of infringements approved for payments while providing essential payment related information such as an infringement cost breakdown and issuers breakdown prior to submitting the payment for approval. It includes UI elements required to facilitate Infringement Summary use cases and user stories. **Actions Summary** The following table lists the associated user interface actions. | |
|  | | | | | | | | | | |
| **View Fields Summary** | | | | TABLE 3.8.4.1-2 – PAYMENT SUMMARY LIST UI VIEW FIELDS SUMMARY | | | | | | |
| **Field Name** | | | | | | **Format** | | **Example Value** | | |
| Infringements | | | | | | List | | N/A | | |
| Issuers Summary | | | | | | List | | N/A | | |
| Vehicles Summary | | | | | | List | | N/A | | |
| Infringements Total Cost | | | | | | Currency | | $180.48 | | |
| Infringements Total Penalties Cost | | | | | | Currency | | $180.48 | | |
| Handling Fee Total Cost | | | | | | Currency | | $180.48 | | |
| Total Amount | | | | | | Currency | | $180.48 | | |
| **Infringements Nomination Module** | | | | | | | | | **3.9** | |
| The following section describes the Infringements Nomination product module features. | | | | | | | | | | |
|  | | | | | | | | | | |
| **Overview** | **3.9.1** | |  | |  | | TABLE 3.9.1 – INFRINGEMENTS NOMINATION MODULE USE CASES SUMMARY | | | |
| The Infringements Nomination product module includes product features that enables System Administrators, Account Administrators and Account Fleet Managers to nominate and associate infringements to another business entity by generating the required request document.  Note that Infringements Nominations are strictly available to infringements that are associated with a vehicle that is owned by the account, a vehicle contract is associated with the vehicle at the time the infringement offense date, and the user account is the listed owner of the vehicle. | | | |  | | --- | | **Use Case** | | Nominate Infringements | | Create a Nomination Request | |  | |  | | **User Interface** | | | Create Nomination Request | | | Nomination Request View | | | | | |
| **Use Cases Summary** | **3.9.2** | |
| The following section lists the Infringements Nomination product module features and use-cases, in terms that describe its supported user stories. | | |

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| **Infringements Nomination Module Use Cases** | | | | | | | | | | **3.9.3** | |
| The following section describes the Infringements Nomination product module use cases. | | | | | | | | | | | |
| **Nominate Infringements** | | **3.9.3.1** | | |  |  | | **Create a Nomination Request** | | **3.9.3.2** | |
| **Overview** The Infringements List user interface (described in Infringements Management module) enables users to nominate infringement records from a centralized management interface. Note that only infringements that meets nomination criteria should enable the nomination action. Use-case related actions are available from the contextual table row menus and view toolbar. **User Stories Summary** The following table lists the associated user stories required by the use case.   |  |  | | --- | --- | | TABLE 3.9.3.1 –NOMINATION INFRINGEMENTS USER STORIES SUMMARY | | | **User Story** | **ID** | | Access the Infringements management interface | IM-01 | | List infringements records | IM-02 | | Select infringements for nomination | IM-11 | | Nominate infringements | IP-01 | | | | | | **Overview** Following the selection of infringements within the Infringements Management user interface, the Nomination action UI element is made available. Invoking this action will navigate the user to the Create a Nomination Request form, populated with the required account-level PoA and the selected infringements vehicle license documents.  To complete the request, the user is to fill the name, title and signature of the request owner (request owners can be anyone from the user organization that may not have access to the system).  The generated nomination request is saved within the system and is available for future viewing or editing within the View Infringement user interface. **User Stories Summary** The following table lists the associated user stories required by the use case. | | | |
| |  |  | | --- | --- | | TABLE 3.9.3.2 – CREATE A NOMINATION REQUEST USER STORIES SUMMARY | | | **User Story** | **ID** | | Access the Infringements management interface | IM-01 | | List infringements records | IM-02 | | Nominate infringements | IP-01 | | View an infringement record | IM-05 | |  |  | | | | |
| **Issuers Management Module** | | | | | | | | | **3.10** | |
| The following section describes the Issuers Management product module features. | | | | | | | | | | |
|  | | | | | | | | | | |
| **Overview** | **3.10.1** | |  |  | | | TABLE 3.10.1 – ISSUERS MANAGEMENT MODULE USE CASES SUMMARY | | | |
| The Issuers Management product module includes product features that enables System Administrators to create and manage Issuer records. | | | |  | | --- | | **Use Case** | | Add an Issuer | | Manage Issuers | | Import Infringements | |  | | **User Interface** | | Issuers List | | View Issuer | | Add Issuer Form | | Edit Issuer Form | | Delete Issuer Model Dialog | | | | |
| **Use Cases Summary** | **3.10.2** | |
| The following section lists the Issuer Management product module features and use-cases, in terms that describe its supported user stories. | | |

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| **Issuers Management Module Use Cases** | | | | | **3.10.3** |
| The following section describes the Issuers Management product module use cases. | | | | | |
| **Add an Issuer** | **3.10.3.1** |  |  | **Manage Issuers** | **3.10.3.2** |
| **Overview** An issuer represents a legal entity that issue infringements. This may include municipalities, local and state authorities. As most issuers will be automatically identified by the system during reports processing and API-based integration with various data providers, System Administrators create new issuer record manually to support any manual infringement records entry that will need to corollate with an issuer. **User Stories Summary** The following table lists the associated user stories required by the use case.   |  |  | | --- | --- | | TABLE 3.10.3.1 – ADD AN ISSUER USER STORIES SUMMARY | | | **User Story** | **ID** | | Access the Issuers management interface | ISM-01 | | List issuer records | ISM-02 | | Create a new issuer record | ISM-06 | | | **Overview** Following the creation of an issuer record, issuer administration tasks may be required to support both customers and various teams within the business. These include viewing, modifying, deleting and exporting issuer records. Issuer management to be made explicitly available to System Administrators. **User Stories Summary** The following table lists the associated user stories required by the use case. | |
| |  |  | | --- | --- | | TABLE 3.10.3.2 – MANAGE ISSUERS USER STORIES SUMMARY | | | **User Story** | **ID** | | Access the Issuers management interface | ISM-01 | | List issuer records | ISM-02 | | Export issuer records | ISM-03 | | Sort and Filter issuers list records | ISM-04 | | View an issuer record | ISM-05 | | Edit an issuer record | ISM-07 | | Delete an issuer record | ISM-08 | | Import Issuer Infringements | ISM-09 | | |

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| --- | --- | --- | --- | --- | --- | --- | --- |
| **Issuer Management Module User Interfaces** | | | | | | | **3.10.4** |
| The following section describes the Issuer Management product module user interfaces. | | | | | | | |
| **Issuers List** | **3.10.4.1** |  |  | | |  |  | | --- | --- | | TABLE 3.10.4.1 – ISSUERS LIST ACTIONS SUMMARY | | | **Action Name** | **Action Description** | | Export Issuers | Download issuers file | | Filter Issuers | Filter the issuers list based on selected property | | Add Issuer | Open the Add Issuer Form user interface | | Edit Issuer | Open the Edit Issuer Form user interface | | Delete Issuer | Open confirmation dialog and delete issuer | | | |
| **Overview** The Issuers List user interface enables System Administrators to manage issuer records from a centralized management interface. It includes UI elements required to facilitate issuer management use cases and user stories.  The Issuer List displays essential issuer properties of the complete list of issuer records using a table like UI component that supports records navigation, filtering and sorting. Use-case related actions are available from the contextual table row menus and view toolbar. **Actions Summary** The following table lists the associated user interface actions. | |
|  | | | | | | | |
| **View Fields Summary** | | | TABLE 3.10.4.1-2 – ISSUERS LIST UI VIEW FIELDS SUMMARY | | | | |
| **Field Name** | | | | **Format** | | **Example Value** | |
| Issuer ID | | | | Number | | 6142 | |
| Issuer Name | | | | Text | | City of Tel-Aviv (Municipality) | |
| Country | | | | Text | | Israel | |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **View Issuer Form** | **3.10.4.2** |  |  | | |  |  | | --- | --- | | TABLE 3.10.4.2 – ADD ISSUER FORM ACTIONS SUMMARY | | | **Action Name** | **Action Description** | | Back | Navigate to origin | | Edit | Navigate to the Edit Issuer Form user interface | | Delete | Display confirmation model dialog and delete the record | | Import Infringements | Navigate to the Import Infringement user interface | | |
| **Overview** The View Issuer Form user interface enables users to view an issuer record details in a read-only like form interface. The form displays the issuer record properties in a text like format (fields are none editable or interactable). **Actions Summary** The following table lists the associated user interface actions. | |
|  | | | | | | |
| **User Interface Fields Summary** | | | TABLE 3.10.4.2-2 – ADD ISSUER UI VIEW FIELDS SUMMARY | | | |
| **Field Name** | | | | **Format** | | **Example Value** |
| Issuer ID | | | | Number | | 6142 |
| Issuer Name | | | | Text | | City of Tel-Aviv (Municipality) |
| Country | | | | Text | | Israel |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Add Issuer Form** | | | **3.10.4.3** | |  |  | |  |  | | --- | --- | | TABLE 3.10.4.3 – ADD ISSUER FORM ACTIONS SUMMARY | | | **Action Name** | **Action Description** | | Cancel | Dismiss form data and navigate to origin | | Submit | Submit form data and navigate to origin | | |
| **Overview** The Add Issuer Form user interface enables System Administrators to create a new issuer record. The form displays issuer record properties in varying form control types to match its property data type and required format. All form controls require field-level validations to assure appropriate data is entered in the required format. **Actions Summary** The following table lists the associated user interface actions. | | | | |
|  | | | | | |  | | |
| **User Interface Fields Summary** | | | | | | TABLE 3.10.4.3-2 – ADD ISSUER UI VIEW FIELDS SUMMARY | | |
| **Field Name** | **Format** | **Required** | | **Default Value** | | | **Example Value** | **Validations** |
| Issuer ID | Number | True | | N/A | | | 6142 | Required, Numerical, Unique |
| Issuer Name | Text | True | | N/A | | | City of Tel-Aviv (Municipality) | Required, Unique |
| Country | List | True | | N/A | | | Israel | Required |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Edit Issuer Form** | | | **3.10.4.4** | |  |  | |  |  | | --- | --- | | TABLE 3.10.4.4 – EDIT ISSUER FORM ACTIONS SUMMARY | | | **Action Name** | **Action Description** | | Cancel | Dismiss form data and navigate to origin | | Submit | Submit form data and navigate to origin | | |
| **Overview** The Edit Issuer Form user interface enables users to edit an issuer record. The form displays the issuer record existing properties values in varying form control types to match its property data type and required format. All form controls require field-level validations to assure appropriate data is entered in the required format. **Actions Summary** The following table lists the associated user interface actions. | | | | |
|  | | | | | |  | | |
| **User Interface Fields Summary** | | | | | | TABLE 3.10.4.4-2 – EDIT ISSUER UI VIEW FIELDS SUMMARY | | |
| **Field Name** | **Format** | **Required** | | **Default Value** | | | **Example Value** | **Validations** |
| Issuer ID | Number | True | | N/A | | | 6142 | Required, Numerical, Unique |
| Issuer Name | Text | True | | N/A | | | City of Tel-Aviv (Municipality) | Required, Unique |
| Country | List | True | | N/A | | | Israel | Required |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Delete Issuer** | **3.10.4.5** |  |  | | |  |  | | --- | --- | | TABLE 3.10.4.5 – DELETE ISSUER ACTIONS SUMMARY | | | **Action Name** | **Action Description** | | Confirm | Confirm delete action and dismiss the model dialog | | Cancel | Dismiss the model dialog and cancel the delete action | | |
| **Overview** The Delete Issuer model dialog is displayed following a Delete action of an issuer record. The user is prompt to confirm or cancel the deletion process while view explicitly stating the selected issuer record properties values as a safety percussion.  The model dialog appears within the Issuers List and Issuer View user interfaces. **Actions Summary** The following table lists the associated user interface actions. | |
|  | | | | | | |
| **User Interface Fields Summary** | | | TABLE 3.10.4.5-2 – DELETE ISSUER UI VIEW FIELDS SUMMARY | | | |
| **Field Name** | | | | **Format** | | **Example Value** |
| Issuer ID | | | | Number | | 6142 |
| Issuer Name | | | | Text | | City of Tel-Aviv (Municipality) |
| Country | | | | Text | | Israel |

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| **Owners Management Module** | | | | | **3.11** |
| The following section describes the Owners Management product module features. | | | | | |
|  | | | | | |
| **Overview** | **3.11.1** |  |  | TABLE 3.11.1 – OWNERS MANAGEMENT MODULE USE CASES SUMMARY | |
| The Owners Management product module includes product features that enables users to view Owner records from a centralized management interface. | | |  | | --- | | **Use Case** | | List Owners |  |  | | --- | | **User Interface** | | Owners List | | |
| **Use Cases Summary** | **3.11.2** |
| The following section lists the Owners Management product module features and use-cases, in terms that describe its supported user stories. | |

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| --- | --- | --- | --- | --- | --- |
| **Owners Management Module Use Cases** | | | | | **3.10.3** |
| The following section describes the Issuers Management product module use cases. | | | | | |
| **List Owners** | **3.11.3.1** |  |  |  |  |
| **Overview** An owner represents a business entity that owns one or more vehicles managed within the system. The system defines owners as part of the creation of vehicle contract that associates an account to a specific owner over a predefined time. The use case purpose is to enable users to gain an overview of vehicles owners associated to account managed vehicles at a point in time. **User Stories Summary** The following table lists the associated user stories required by the use case.   |  |  | | --- | --- | | TABLE 3.11.3.1 – ADD AN OWNER USER STORIES SUMMARY | | | **User Story** | **ID** | | Access the Owners management interface | OM-01 | | List owner records | OM-02 | | Export owner records | OM-03 | | |  | |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Owners Management Module User Interfaces** | | | | | | | **3.11.4** |
| The following section describes the Owners Management product module user interfaces. | | | | | | | |
| **Owners List** | **3.11.4.1** |  |  | | |  |  | | --- | --- | | TABLE 3.11.4.1 – OWNERS LIST ACTIONS SUMMARY | | | **Action Name** | **Action Description** | | Export Owners | Download issuers file | | Filter Owners | Filter the issuers list based on selected property | | | |
| **Overview** The Owners List user interface enables users to view owner records from a centralized management interface. It includes UI elements required to facilitate issuer management use cases and user stories.  The Owners List displays essential properties of the complete list of owner records using a table like UI component that supports records navigation, filtering and sorting. Use-case related actions are available from the contextual table row menus and view toolbar. **Actions Summary** The following table lists the associated user interface actions. | |
|  | | | | | | | |
| **View Fields Summary** | | | TABLE 3.11.4.1-2 – OWNERS LIST UI VIEW FIELDS SUMMARY | | | | |
| **Field Name** | | | | **Format** | | **Example Value** | |
| Owner ID | | | | Number | | 6142 | |
| Owner Name | | | | Text | | Colmobil Group LTD | |
| Country | | | | Text | | Israel | |

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| **Data Visualization Module** | | | | | **3.12** |
| The following section describes the Data Visualization product module features. | | | | | |
|  | | | | | |
| **Overview** | **3.12.1** |  |  | TABLE 3.12.1 – DATA VISUALIZATION MODULE USE CASES SUMMARY | |
| The Data Visualization product module includes product features that enables users to gain key insights regarding managed records associated with the user account from a centralized user interface (dashboards). | | |  | | --- | | **Use Case** | | View Account Statistics | |  | | |  | | --- | | **User Interface** | | Account Dashboard | | | |
| **Use Cases Summary** | **3.12.2** |
| The following section lists the Owners Management product module features and use-cases, in terms that describe its supported user stories. | |
| **Data Visualization Module Use Cases** | | | | | **3.12.3** |
| The following section describes the Issuers Management product module use cases. | | | | | |
| **View Account Statistics** | **3.12.3.1** |  |  |  |  |
| **Overview** Using the Account Dashboard user interface, System Administrators and account users gain access to key account-based statistics using visual elements. **User Stories Summary** The following table lists the associated user stories required by the use case.   |  |  | | --- | --- | | TABLE 3.12.3.1 – VIEW ACCOUNT STATISTICS USER STORIES SUMMARY | | | **User Story** | **ID** | | Access the Account Dashboard user interface | DV-01 | | View Total Managed Vehicles | DV-02 | | View Total Infringements | DV-03 | | View Total Outstanding Infringements | DV-04 | | View Last Due Infringement Payment | DV-05 | | View Total Infringements (Per Month, Past Year) | DV-06 | | View Total Monthly Cost | DV-07 | | View Top Leading Issuers | DV-08 | | View Top Leading Vehicles | DV-09 | | |  | |

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| --- | --- | --- | --- | --- | --- | --- | --- |
| **Data Visualization Module User Interfaces** | | | | | | | **3.12.4** |
| The following section describes the Data Visualization product module user interfaces. | | | | | | | |
| **Account Dashboard** | **3.12.4.1** |  |  | |  | | |
| **Overview** The Account Dashboard user interface includes visual features that track, analyze and display account-level key performance indicators (KPI), metrics and key data points. **Actions Summary** This user interface has no associated actions. | |
|  | | | | | | | |
| **View Fields Summary** | | | TABLE 3.12.4.1-2 – ISSUERS LIST UI VIEW FIELDS SUMMARY | | | | |
| **Field Name** | | | | **Format** | | **Example Value** | |
| Total Vehicles | | | | Number | | 312 | |
| Total Infringements | | | | Number | | 312 | |
| Total Infringements (Per Month, Past Year) | | | | Time Series | | N/A | |
| Total Outstanding Infringements | | | | Number | | 312 | |
| Last Due Infringement Payment | | | | Date | | 01/01/2019 | |
| Total Monthly Cost | | | | Currency | | $1,240.52 | |
| Top Leading Issuers | | | | List | | N/A | |
| Top Leading Vehicles | | | | List | | N/A | |

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| **Processes** | | | | | **4** |
| The following section describes the main process flows and the associated steps and user actions. | | | | | |
| **Account Provisioning Process** | **4.1** |  |  | **Process Flow Description** |  |
| **Overview** The Account Provisioning flow includes the creation of new account, users, vehicles, contract and infringement records by importing Excel-based data files using the appropriate record import features or by manually creating them using the system user interfaces. The initial process is performed by System Administrators (required to create new Account records) but data entry may be delegated to Account Administrators. **Activities Summary** The following table lists the associated actions required by the process flow.   |  |  | | --- | --- | | TABLE 4.1 – ACCOUNT PROVISIONING ACTIVITIES SUMMARY | | | **Activity** | **ID** | | Create Account | 1 | | Create Users | 2 | | Map Data Files | 3 | | Import Vehicles | 4 | | Import Infringements | 5 | | Create Vehicles | 4 | | Create Infringements Records | 5 | | | **Activity** | **Story ID** |
| Any account record is created by a System Administrator prior to any account-based records are created within the system. | AM-06 |
| An Account Administrator provision required account users. Account Administrators can complete the provisioning if required by creating additional account users and create relevant records. | IAM-06 |
| If data files containing vehicles are available, import and map the files using the vehicles import feature. Alternatively, manually create the vehicles records. | VM-09  VM-10  VM-06 |
| If data files containing infringements are available, import and map the files using the infringement import feature. Alternatively, manually create the infringement records. | IM-09  IM-10  IM-06 |
|  | |

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| **Account Provisioning Process Flow Diagram** | | **4.1.1** |
| The following flow diagram describes the Account Provisioning process. | ILLUSTRATION 4.1.1 – ACCOUNT PROVISIONING PROCESS | |
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| **Import Files Process** | **4.2** |  |  | **Process Flow Description** |  |
| **Overview** The process details data records import using an excel-based file format. Various system record types support importing file data that can be uploaded by System Administrators, Account Administrators and Account Fleet Managers.  The first step of an import process is the uploading of a data file to the system. Once uploaded, the file structure and contents are mapped to the appropriate system records schema. Upon completion, the user may start the import process. **Activities Summary** The following table lists the associated activities required by the process flow.   |  |  | | --- | --- | | TABLE 4.2 – IMPORT FILES ACTIVITIES SUMMARY | | | **Activity** | **ID** | | File Upload | 1 | | Map Data Files | 2 | | Preview Data Upload | 3 | | Submit Data | 4 | | | **Activity** | **Story ID** |
| Upload Vehicle or Infringements files | VM-09  IM-09  ISM-09 |
| Map Data Files | VM-10  IM-10 |
| Preview Data | VM-10  IM-10 |
| Submit data for processing | VM-10  IM-10 |
|  | |

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| **Infringements Payment Process** | **4.3** |  |  | **Process Flow Description** |  |
| **Overview** Infringement Payments process enables System Administrators, Account Administrators and Account Fleet Managers to review and approve infringements for payment. The process includes two main steps – the review and approval of account infringements, and the payment approval and processing, restricted to Account Finance Managers. **Activities Summary** The following table lists the associated activities required by the infringement process flow.   |  |  | | --- | --- | | TABLE 4.3 – INFRINGEMENT PAYMENT ACTIVITIES SUMMARY | | | **Activity** | **ID** | | Review and Approve Infringements | 1 | | Review and Approve Outstanding Infringements | 2 | | Review Payment Summary | 3 | | Submit & Confirm Payment Details | 4 | | | **Activity** | **Story ID** |
| Approve or reject infringement | IP-01 |
| Approve or reject infringement payments | IP-02 |
| View payment summary | IP-03 |
| Submit payment details | IP-04 |
|  | |

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| --- | --- | --- | --- | --- | --- | --- | --- |
| **Infringements Payment Process Flow Diagram** | | | | | | **4.3.1** | |
| The following flow diagram describes the Infringement Payment process | | | | | ILLUSTRATION 3.8.1 – INFRINGEMENT PAYMENT PROCESS | | |
|  | | | | | | | |
| **Infringements Nomination Process** | **4.4** |  |  | **Process Flow Description** | | |  | |
| **Overview** Infringement Nomination process enables users to nominate vehicle infringements. The process is restricted to System Administrators, Account Administrators and Fleet Managers and enables One Protect customers to independently manage and track Nomination within the system. **Activities Summary** The following table lists the associated activities required by the infringement nomination process.   |  |  | | --- | --- | | TABLE 4.4 – INFRINGEMENT NOMINATION ACTIVITIES SUMMARY | | | **Activity** | **ID** | | Select Infringements for Nomination | 1 | | Create an Infringement Nomination Request | 2 | | Download Infringement Nomination Request | 3 | | | **Activity** | | | **Story ID** | |
| Approve or reject infringement | | | IP-01 | |
| Approve or reject infringement payments | | | IP-02 | |
| View payment summary | | | IP-03 | |
| Submit payment details | | | IP-04 | |
|  | | | | |