|  |  |  |  |
| --- | --- | --- | --- |
| **Function** | Retrieve security token | | |
| **URL** | api/tokens | | |
| **Http Method** | GET | | |
| **Parameter** | **Name** | **Type** | **Remark** |
| *userLogin* | *string* | *Mandatory* |
| *password* | *string* | *Mandatory* |
| **Return** | Single object with the following property | | |
| **Name** | **Type** | **Remark** |
| *token* | *string* |  |

|  |  |  |  |
| --- | --- | --- | --- |
| **Function** | Retrieve WIP | | |
| **URL** | api/wips | | |
| **Http Method** | GET | | |
| **Parameter** | **Name** | **Type** | **Remark** |
| *serialNumber* | *string* | *Mandatory* |
| *customerName* | *string* | *Optional* |
| *materialName* | *string* | *Optional* |
| *materialPlantCode* | *string* | *Optional* |
| **Return** | Single object with the following property | | |
| **Property Name** | **Type** | **Remark** |
| *wips* | *WIP* | *Collection of objects* |
|  | | |
| WIP | | |
| **Property Name** | **Type** | **Remark** |
| *bomAlternativeBom* | *string* |  |
| *bomHeaderRev* | *string* |  |
| *bomId* | *string* |  |
| *bomVersion* | *int* | *-2147483648 to 2147483647* |
| *customerName* | *string* |  |
| *deliveryOrderNumber* | *string* |  |
| *id* | *long* | *-9223372036854775808 to 9223372036854775807* |
| *isAssembled* | *bool* |  |
| *isOnHold* | *bool* |  |
| *isOnShippingHold* | *bool* |  |
| *isPacked* | *bool* |  |
| *isScrapped* | *bool* |  |
| *materialName* | *string* |  |
| *materialPlantCode* | *string* |  |
| *plannedOrderNumber* | *string* |  |
| *productionOrderNumber* | *string* |  |
| *serialNumber* | *string* |  |
| *wipStatus* | *string* | *New / InProcess / Completed / Shipped / Archived* |

|  |  |  |  |
| --- | --- | --- | --- |
| **Function** | Retrieve WIP Attribute | | |
| **URL** | api/wips/{wipId}/attributes/ | | |
| **Http Method** | GET | | |
| **URL Segment** | **Name** | **Type** | **Remark** |
|  | *wipId* | *long* | *-9223372036854775808 to 9223372036854775807* |
| **Parameter** | **Name** | **Type** | **Remark** |
| *attributeName* | *string* | *Optional* |
| **Return** | Single object with the following property | | |
| **Property Name** | **Type** | **Remark** |
| *wipAttributes* | *WIP\_ATTRIBUTE* | *Collection of objects* |
|  | | |
| WIP\_ATTRIBUTE | | |
| **Property Name** | **Type** | **Remark** |
| *id* | *long* | *-9223372036854775808 to 9223372036854775807* |
| *name* | *string* |  |
| *type* | *string* | *Boolean / Decimal / Integer / String* |
| *value* | *string* |  |

|  |  |  |  |
| --- | --- | --- | --- |
| **Function** | Insert WIP Attribute | | |
| **URL** | api/wips/{wipId}/attributes | | |
| **Http Method** | POST | | |
| **URL Segment** | **Name** | **Type** | **Remark** |
| *wipId* | *long* | *-9223372036854775808 to 9223372036854775807* |
| **Parameter** | **Name** | **Type** | **Remark** |
| *wipAttributeName* | *string* | *Mandatory* |
| *wipAttributeType* | *string* | *Mandatory - Boolean / Decimal / Integer / String* |
| *wipAttributeValue* | *string* | *Mandatory* |
| **Return** | No object return | | |

|  |  |  |  |
| --- | --- | --- | --- |
| **Function** | Update WIP Attribute | | |
| **URL** | api/wips/{wipId}/attributes/{wipAttributeId} | | |
| **Http Method** | PUT | | |
| **URL Segment** | **Name** | **Type** | **Remark** |
| *wipId* | *long* | *-9223372036854775808 to 9223372036854775807* |
| *wipAttributeId* | *long* | *-9223372036854775808 to 9223372036854775807* |
| **Parameter** | **Name** | **Type** | **Remark** |
| *wipAttributeType* | *string* | *Mandatory - Boolean / Decimal / Integer / String* |
| *wipAttributeValue* | *string* | *Mandatory* |
| **Return** | No object return | | |

|  |  |  |  |
| --- | --- | --- | --- |
| **Function** | Delete WIP Attribute | | |
| **URL** | api/wips/{wipId}/attributes/{wipAttributeId} | | |
| **Http Method** | DELETE | | |
| **URL Segment** | **Name** | **Type** | **Remark** |
| *wipId* | *long* | *-9223372036854775808 to 9223372036854775807* |
| *wipAttributeId* | *long* | *-9223372036854775808 to 9223372036854775807* |
| **Return** | No object return | | |

|  |  |  |  |
| --- | --- | --- | --- |
| **Function** | Start WIP | | |
| **URL** | api/wips/{wipId}/processSteps/start | | |
| **Http Method** | POST | | |
| **URL Segment** | **Name** | **Type** | **Remark** |
| *wipId* | *long* | *-9223372036854775808 to 9223372036854775807* |
| **Parameter** | **Name** | **Type** | **Remark** |
| *resourceName* | *string* | *Mandatory* |
| **Return** | Single object with the following property | | |
| **Property Name** | **Type** | **Remark** |
| *wipProcessStepHistoryId* | *long* | *-9223372036854775808 to 9223372036854775807* |

|  |  |  |  |
| --- | --- | --- | --- |
| **Function** | Complete WIP Process Step | | |
| **URL** | api/wips/{wipId}/processSteps/{wipProcessStepHistoryId}/complete | | |
| **Http Method** | POST | | |
| **URL Segment** | **Name** | **Type** | **Remark** |
| *wipId* | *long* | *-9223372036854775808 to 9223372036854775807* |
| *wipProcessStepHistoryId* | *long* | *-9223372036854775808 to 9223372036854775807* |
| **Return** | Single object with the following properties | | |
| **Property Name** | **Type** | **Remark** |
| *inQueueRouteSteps* | *ROUTE\_STEP* | *Collection of objects* |
| *wipProcessStepHistoryStatus* | *string* | *Pass / Fail (has open failure)* |
|  | | |
| ROUTE\_STEP | | |
| **Property Name** | **Type** | **Remark** |
| *routeStepId* | *int* | *-2147483648 to 2147483647* |
| *routeStepName* | *string* |  |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Function** | Abort WIP Process Step | | | |
| **URL** | api/wips/{wipId}/processSteps/{wipProcessStepHistoryId}/abort | | | |
| **Http Method** | POST | | | |
| **URL Segment** | **Name** | **Type** | **Remark** | |
| *wipId* | *long* | *-9223372036854775808 to 9223372036854775807* | |
| *wipProcessStepHistoryId* | *long* | *-9223372036854775808 to 9223372036854775807* | |
| **Return** | Single object with the following property | | | |
| **Property Name** | **Type** | | **Remark** |
| *inQueueRouteSteps* | *ROUTE\_STEP* | | *Collection of objects* |
|  | | | |
| ROUTE\_STEP | | | |
| **Property Name** | **Type** | | **Remark** |
| *routeStepId* | *int* | *-2147483648 to 2147483647* | |
| *routeStepName* | *string* |  | |

|  |  |  |  |
| --- | --- | --- | --- |
| **Function** | Insert Failure | | |
| **URL** | api/wips/{wipId}/processSteps/{wipProcessStepHistoryId}/symptoms | | |
| **Http Method** | POST | | |
| **URL Segment** | **Name** | **Type** | **Remark** |
| *wipId* | *long* | *-9223372036854775808 to 9223372036854775807* |
| *wipProcessStepHistoryId* | long | -9223372036854775808 to 9223372036854775807 |
| **Parameter** | **Name** | **Type** | **Remark** |
| *failureMessage* | *string* | *Optional - if no value provided, will take symptom label as default value* |
| *symptomLabel* | *string* | *Mandatory* |
| **Return** | No object return | | |

|  |  |  |  |
| --- | --- | --- | --- |
| **Function** | Retrieve WIP Genealogy | | |
| **URL** | api/wips/{wipId}/genealogy | | |
| **Http Method** | GET | | |
| **URL Segment** | **Name** | **Type** | **Remark** |
| *wipId* | *long* | *-9223372036854775808 to 9223372036854775807* |
| **Parameter** | **Name** | **Type** | **Remark** |
| *maxLevel* | *int* | *1 to 10 - if other value is given or no value provided, will take 10 as default value* |
| *serializedOnly* | *string* | *True / False - if other value is given or no value provided, will take False as default value* |
| **Return** | Single object with the following property | | |
| **Property Name** | **Type** | **Remark** |
| *wipAssembleHistoryList* | *ASSEMBLE\_HISTORY* | *Collection of objects* |
|  | | |
| ASSEMBLE\_HISTORY | | |
| **Property Name** | **Type** | **Remark** |
| *assembledDate* | *string* |  |
| *assembledRouteStep* | *string* |  |
| *crd* | *string* |  |
| *id* | *int* | *-2147483648 to 2147483647* |
| *manufacturerPartNumber* | *string* |  |
| *materialId* | *int* | *-2147483648 to 2147483647* |
| *materialName* | *string* |  |
| *materialPlantCode* | *string* |  |
| *operatorUserLogin* | *string* |  |
| *parentId* | *int* | *-2147483648 to 2147483647* |
| *phoenixMaterialType* | *string* |  |
| *quantity* | *decimal* |  |
| *returnCount* | *int* | *-2147483648 to 2147483647* |
| *serializedMaterialId* | *long* | *-9223372036854775808 to 9223372036854775807 - Nullable* |
| *serialNumber* | *string* |  |
| *wipId* | *long* | *-9223372036854775808 to 9223372036854775807 - Nullable* |
| *dataCollectionList* | *DATA\_COLLECTION* | *Collection of objects* |
| *uniqueProductDataList* | *UPD* | *Collection of objects* |
|  | | |
| DATA\_COLLECTION | | |
| **Property Name** | **Type** | **Remark** |
| *dataType* | *string* |  |
| *labelName* | *string* |  |
| *lowerLimit* | *string* |  |
| *status* | *string* |  |
| *unitOfMeasurement* | *string* |  |
| *upperLimit* | *string* |  |
| *value* | *string* |  |
|  | | |
| UPD | | |
| **Name** | **Type** | **Remark** |
| *name* | *string* |  |
| *type* | *string* |  |
| *value* | *string* |  |

NOTE:

To call the API, a security token is needed. In order to retrieve a security token, we can call a API at api/tokens, and passing an active user account and password. Then create a Http header entry with "Authorization" name, and assign it with value "Bearer " + security token.

Any validation or exception thrown, will return a collection of objects with the following structure.

Error

|  |  |  |
| --- | --- | --- |
| **Name** | **Type** | **Remark** |
| message | String |  |