TramsAppServer API documentation

Data Types

|  |  |  |
| --- | --- | --- |
| **Data Type** | **Value Format** | **Range** |
| Integer | nnn | +/- 2^32-1 |
| LargeInt | nnn | +/- 2^64-1 |
| Boolean | TRUE/FALSE |  |
| DateTime | YYYY-MM-DDTHH:MM:SS.000Z |  |
| Date | YYYY-MM-DD |  |
| Double | nnn.nnn |  |
| Blob | Base64 encoded |  |
| String/String[xx] |  | xx=max string length |

JSON Structures

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Name** | **Element** | **Element** | **Element** | **Format** |
| Params |  |  |  | {“Params”:[**Param**, …]} |
|  | Param |  |  | {“Name”:<ParamName>, “Type”:**DataType**, “Value”:<ParamValue>} |
|  |  | DataType |  | “Integer”, “LargeInt”, “Boolean”, “DateTime”, “Date”, “Double”, “Blob”, “String” |
|  |  |  |  |  |
| Dataset |  |  |  | {“Dataset”:{**MetaData**, **Data**}} |
|  | MetaData |  |  | “MetaData”:{<DatasetName>:**MetaDataRow**} |
|  |  | MetaDataRow |  | {**MetaDataColumn**, …} |
|  |  |  | MetaDataColumn | “Name”:<ColumnName>:”Type”:**DataType** |
|  | Data |  |  | “Data”:{<DatasetName>:[**DataRow**, …]} |
|  |  | DataRow |  | {**DataColumn**, …} |
|  |  |  | DataColumn | <ColumnName>:<Value>  <Value> can be a nested **Dataset** |
|  |  |  |  |  |
| DeltaDataset |  |  |  | {“DeltaDataset”:**DeltaData**} |
|  | DeltaData |  |  | {<DatasetName>:[**DeltaDataRow**, …]} |
|  |  | DeltaDataRow |  | {“UpdateAction”:<DeltaAction>, **DeltaDataColumn**, …}  DeltaAction: None, Insert (New), Update (Old/New), Delete (Old) |
|  |  |  | DeltaDataColumn | <ColumnName>:{“OldValue”:<Value>, “NewValue”:<Value>} (Insert/Update/Delete)  <ColumnName>:<Value> (UpdateAction=None or Nested **Dataset**) |
|  |  |  |  |  |
| Result |  |  |  | {"result": {"resultcode": <resultcode>,"resulttext": <resulttext>, <return-param-name>:<return-param-value>}} |

Parameters

|  |  |  |
| --- | --- | --- |
| **Name** | **Format** | **Direction** |
| SessionID | SessionID={7C188062-A23D-4DCF-90BF-46580478CBFE} | In/Out |
| JSONParams | JSONParams=<**Params**> | Out |
| JSONDataset | JSONDataset=<**Dataset**> | Out |
| JSONDeltaDataset | JSONDeltaDataset=<**DeltaDataset**> | In |

Methods

|  |  |  |  |
| --- | --- | --- | --- |
| **Name** | **Parameters** | **Response** | **Example** |
| Version |  | <Version number> | <http://localhost:8085/version>  4.02.00.000 |
| Login | PCC/Alias  UserName  Password  NewPassword (for password changes)  AppType (TBO=1, CB=2000) | **Result,**  SessionID | <http://localhost:8085/login?username=sysdba&password=masterkey&pcc=automate_cbb_117>  {"result":{"resultcode":0,"resulttext":"","SessionID":"{7C188062-A23D-4DCF-90BF-46580478CBFE}"}} |
| Logout | SessionID | **Result** | [http://localhost:8085/logout?sessionid=":"{7C188062-A23D-4DCF-90BF-46580478CBFE}](http://localhost:8085/logout?sessionid=%22:%22%7b7C188062-A23D-4DCF-90BF-46580478CBFE%7d)  {"result":{"resultcode":0,"resulttext":"Logout Successful"}} |
| <ModuleName>.GetParams | SessionID | **Result,**  **Params** | http://localhost:8085/<ModuleName>.getparams?sessionid[={7C188062-A23D-4DCF-90BF-46580478CBFE}](http://localhost:8085/logout?sessionid=%22:%22%7b7C188062-A23D-4DCF-90BF-46580478CBFE%7d)  { "result": {  "resultcode": 0,  "resulttext": "",  "Params": [  {"Name": "IntParam", "Type": "Integer"},  {"Name": "LargeIntParam", "Type": "LargeInt"},  {"Name": "BoolParam", "Type": "Boolean"},  {"Name": "TimeStampParam", "Type": "Timestamp"},  ]  }  } |
| <ModuleName>.RunQuery | SessionID  JSONParams | **Result,**  **Dataset** | http://localhost:8085/<ModuleName>.runquery?sessionid[={7C188062-A23D-4DCF-90BF-46580478CBFE}](http://localhost:8085/logout?sessionid=%22:%22%7b7C188062-A23D-4DCF-90BF-46580478CBFE%7d)  { "result": {  "resultcode": 0,  "resulttext": "",  "Params": [  {"Name": "IntParam", "Type": "Integer"},  {"Name": "LargeIntParam", "Type": "LargeInt"},  {"Name": "BoolParam", "Type": "Boolean"},  {"Name": "TimeStampParam", "Type": "Timestamp"},  ]  }  } |
| InvoiceQuery.GetParams | SessionID | **Result,**  **Params** | http://localhost:8085/invoicequery.getparams?sessionid[={7C188062-A23D-4DCF-90BF-46580478CBFE}](http://localhost:8085/logout?sessionid=%22:%22%7b7C188062-A23D-4DCF-90BF-46580478CBFE%7d)  { "result": {  "resultcode": 0,  "resulttext": "",  "Params": [  {"Name": "RecNo", "Type": "LargeInt"},  {"Name": "AllowCancel", "Type": "Boolean"},  {"Name": "IncludeCols", "Type": "String"},  {"Name": "ExcludeCols", "Type": "String"},  {"Name": "QueryID", "Type": "String"},  {"Name": "StartingRow", "Type": "Integer"},  {"Name": "RowCount", "Type": "Integer"},  {"Name": "TopRows", "Type": "Integer"},  {"Name": "PaymentNo", "Type": "Integer"},  {"Name": "InvoiceNumberFrom", "Type": "Integer"},  {"Name": "InvoiceNumberTo", "Type": "Integer"},  {"Name": "IssueDateFrom", "Type": "Date"},  {"Name": "IssueDateTo", "Type": "Date"},  {"Name": "InvoiceGroup", "Type": "String"},  {"Name": "RecLoc", "Type": "String"},  {"Name": "InvoiceType", "Type": "String"},  {"Name": "InvoiceStatus", "Type": "String"},  {"Name": "ClientNo", "Type": "Integer"},  {"Name": "BranchGroup", "Type": "Integer"},  {"Name": "BranchNo", "Type": "Integer"},  {"Name": "AllowBranchList", "Type": "String"},  {"Name": "InsideAgentNo", "Type": "Integer"},  {"Name": "OutsideAgentNo", "Type": "Integer"},  {"Name": "ClientType", "Type": "Integer"},  {"Name": "DepartDateFrom", "Type": "Date"},  {"Name": "DepartDateTo", "Type": "Date"},  {"Name": "ReturnDateFrom", "Type": "Date"},  {"Name": "ReturnDateTo", "Type": "Date"},  {"Name": "TicketNo", "Type": "String"},  {"Name": "OrigTicketNo", "Type": "String"},  {"Name": "ConfirmNo", "Type": "String"},  {"Name": "TicketConfirmNo", "Type": "String"},  {"Name": "PassengerName", "Type": "String"},  {"Name": "PassengerNameCombo", "Type": "Integer"},  {"Name": "VendorNo", "Type": "Integer"},  {"Name": "SubmitTo", "Type": "String"},  {"Name": "TravelType", "Type": "String"},  {"Name": "TravelCategory", "Type": "String"},  {"Name": "Remarks", "Type": "String"},  {"Name": "RemarksCombo", "Type": "Integer"},  {"Name": "TicketType", "Type": "String"},  {"Name": "TotalFareMin", "Type": "Double"},  {"Name": "TotalFareMax", "Type": "Double"},  {"Name": "HomeNo", "Type": "Integer"},  {"Name": "HostNo", "Type": "Integer"},  {"Name": "CBPInvoice", "Type": "Boolean"},  {"Name": "BkgRecLoc", "Type": "String"},  {"Name": "ClientGroup", "Type": "String"},  {"Name": "VendorGroup", "Type": "String"},  {"Name": "AgentAction", "Type": "Integer"},  {"Name": "ClientRemarks", "Type": "String"},  {"Name": "ClientRemarksCombo", "Type": "Integer"},  {"Name": "VendorRemarks", "Type": "String"},  {"Name": "VendorRemarksCombo", "Type": "Integer"},  {"Name": "UDIDSel", "Type": "Integer"},  {"Name": "UDIDCond", "Type": "Integer"},  {"Name": "UDIDVal","Type": "String"},  {"Name": "FlightNo", "Type": "Integer"},  {"Name": "AgentPaymentNo", "Type": "Integer"},  {"Name": "ResCardNo", "Type": "Integer"},  {"Name": "Department", "Type": "String"},  {"Name": "DepartCity", "Type": "String"},  {"Name": "ArriveCity", "Type": "String"},  {"Name": "AccountingRemarks", "Type": "String"},  {"Name": "AccountingRemarksCombo", "Type": "Integer"},  {"Name": "RecordLocator", "Type": "String"},  {"Name": "HasAttachments", "Type": "Boolean"},  {"Name": "AgentNo", "Type": "Integer"},  {"Name": "ClientPayStatus", "Type": "String"},  {"Name": "VendorPayStatus", "Type": "String"},  {"Name": "InvoiceRecNo", "Type": "LargeInt"}  ]  }  } |

Modules

|  |  |  |  |
| --- | --- | --- | --- |
| **Module Name** | **Method** | **Parameters** | **JSON Result** |
| InvoiceQuery | GetParams | SessionID | Params |
| InvoiceQuery | RunQuery | SessionID, JSONParams | Dataset |
| PaymentQuery | GetParams | SessionID | Params |
| PaymentQuery | RunQuery | SessionID, JSONParams | Dataset |
| ProfileQuery | GetParams | SessionID | Params |
| ProfileQuery | RunQuery | SessionID, JSONParams | Dataset |
| ResCardQuery | GetParams | SessionID | Params |
| ResCardQuery | RunQuery | SessionID, JSONParams | Dataset |
| Invoice | Load | SessionID, RecNo | Dataset |
| Payment | Load | SessionID, RecNo | Dataset |
| Profile | Load | SessionID, RecNo | Dataset |
| ResCard | Load | SessionID, RecNo | Dataset |
| Invoice | Insert | SessionID, JSONDataset | RecNo |
| Payment | Insert | SessionID, JSONDataset | RecNo |
| Profile | Insert | SessionID, JSONDataset | RecNo |
| ResCard | Insert | SessionID, JSONDataset | RecNo |
| Invoice | Update | SessionID, JSONDeltaDataset | RecNo |
| Payment | Update | SessionID, JSONDeltaDataset | RecNo |
| Profile | Update | SessionID, JSONDeltaDataset | RecNo |
| ResCard | Update | SessionID, JSONDeltaDataset | RecNo |

{"DeltaDataset":

{"Invoice":

[

{

"UpdateAction" : "None" ,

"Col1":"Value",

"Col2":"Value",

"Booking":

[

{

"UpdateAction" : "Insert" ,

"Col1":"NewValue",

"Col2":"NewValue"

},

{

"UpdateAction" : "Update" ,

"Col1":{"OldValue":"OldValue", "NewValue":"NewValue"},

"Col2": {"OldValue":"OldValue", "NewValue":"NewValue"}

},

{

"UpdateAction" : "Delete" ,

"Col1":"OldValue",

"Col2":"OldValue"

}

]

}

]

}

}