Note: If no Id specified in properties, default %ID is being used as ID for table.

**ASPMining.CanonicalModel.Equipment.Equipment**

• property **Capacity** as [%Float](http://192.168.0.3:52773/csp/documatic/%25CSP.Documatic.cls?PAGE=CLASS&LIBRARY=APPINT&CLASSNAME=%25Library.Float);

Capacity of Vehicle ASSIGNED BY USERS

• property **EquipmentCategory** as [EquipmentCategory](http://192.168.0.3:52773/csp/documatic/%25CSP.Documatic.cls?PAGE=CLASS&LIBRARY=APPINT&CLASSNAME=ASPMining.CanonicalModel.Equipment.EquipmentCategory);

Category of Equipment, eg: Truck, Excav.

• property **EquipmentModel** as [EquipmentModel](http://192.168.0.3:52773/csp/documatic/%25CSP.Documatic.cls?PAGE=CLASS&LIBRARY=APPINT&CLASSNAME=ASPMining.CanonicalModel.Equipment.EquipmentModel);

Model of Equipment: e.g: CAT 770

• property **Id** as [%String](http://192.168.0.3:52773/csp/documatic/%25CSP.Documatic.cls?PAGE=CLASS&LIBRARY=APPINT&CLASSNAME=%25Library.String);

Mine Unique Identifier of Vehicle

• property **Name** as [%String](http://192.168.0.3:52773/csp/documatic/%25CSP.Documatic.cls?PAGE=CLASS&LIBRARY=APPINT&CLASSNAME=%25Library.String);

Readable Display Name of Vehicle

**ASPMining.CanonicalModel.Equipment.EquipmentCategory**

• property **Description** as [%String](http://192.168.0.3:52773/csp/documatic/%25CSP.Documatic.cls?PAGE=CLASS&LIBRARY=APPINT&CLASSNAME=%25Library.String);

Description of the Category, e.g: Newest fleet of excavators.

• property **Name** as [%String](http://192.168.0.3:52773/csp/documatic/%25CSP.Documatic.cls?PAGE=CLASS&LIBRARY=APPINT&CLASSNAME=%25Library.String);

Display name of the Category e.g: Truck, Excav, etc.

**ASPMining.CanonicalModel.Equipment.EquipmentModel**

• property **Brand** as [%String](http://192.168.0.3:52773/csp/documatic/%25CSP.Documatic.cls?PAGE=CLASS&LIBRARY=APPINT&CLASSNAME=%25Library.String);

Manufacturer's brand name

• property **Model** as [%String](http://192.168.0.3:52773/csp/documatic/%25CSP.Documatic.cls?PAGE=CLASS&LIBRARY=APPINT&CLASSNAME=%25Library.String);

Model of the equipment provided by manufacturer

• property **NominalCapacityTons** as [%Float](http://192.168.0.3:52773/csp/documatic/%25CSP.Documatic.cls?PAGE=CLASS&LIBRARY=APPINT&CLASSNAME=%25Library.Float);

Manufacturer's specified Tonnage of equipment (if applies)

**ASPMining.CanonicalModel.HWMonitoring.OEMEvent**

• property **EquipmentId** as [%Integer](http://192.168.0.3:52773/csp/documatic/%25CSP.Documatic.cls?PAGE=CLASS&LIBRARY=APPINT&CLASSNAME=%25Library.Integer);

Local copy of EquipmentId for this event, not reference to an Equipment Object, in case it changes to a different equipment

• property **Id** as [%Integer](http://192.168.0.3:52773/csp/documatic/%25CSP.Documatic.cls?PAGE=CLASS&LIBRARY=APPINT&CLASSNAME=%25Library.Integer);

Unique Id of event provided by Mining software

• property **Latitude** as [%Float](http://192.168.0.3:52773/csp/documatic/%25CSP.Documatic.cls?PAGE=CLASS&LIBRARY=APPINT&CLASSNAME=%25Library.Float);

GPS Latitude if available

• property **Location** as [ASPMining.CanonicalModel.Mine.Location](http://192.168.0.3:52773/csp/documatic/%25CSP.Documatic.cls?PAGE=CLASS&LIBRARY=APPINT&CLASSNAME=ASPMining.CanonicalModel.Mine.Location);

Mine Site location where the event happened

• property **Longitude** as [%Float](http://192.168.0.3:52773/csp/documatic/%25CSP.Documatic.cls?PAGE=CLASS&LIBRARY=APPINT&CLASSNAME=%25Library.Float);

GPS Longitude if available

• property **OEMEventType** as [OEMEventType](http://192.168.0.3:52773/csp/documatic/%25CSP.Documatic.cls?PAGE=CLASS&LIBRARY=APPINT&CLASSNAME=ASPMining.CanonicalModel.HWMonitoring.OEMEventType);

Type of the event, e.g: Overspeed event.

• property **OEMInterface** as [OEMInterface](http://192.168.0.3:52773/csp/documatic/%25CSP.Documatic.cls?PAGE=CLASS&LIBRARY=APPINT&CLASSNAME=ASPMining.CanonicalModel.HWMonitoring.OEMInterface);

HW Interface that generator this event

• property **ReadTime** as [%DateTime](http://192.168.0.3:52773/csp/documatic/%25CSP.Documatic.cls?PAGE=CLASS&LIBRARY=APPINT&CLASSNAME=%25Library.DateTime);

Reading time of the event

• property **Shift** as [ASPMining.CanonicalModel.Planning.Shift](http://192.168.0.3:52773/csp/documatic/%25CSP.Documatic.cls?PAGE=CLASS&LIBRARY=APPINT&CLASSNAME=ASPMining.CanonicalModel.Planning.Shift);

Shift when this event happened

• property **Value** as [%Float](http://192.168.0.3:52773/csp/documatic/%25CSP.Documatic.cls?PAGE=CLASS&LIBRARY=APPINT&CLASSNAME=%25Library.Float);

Value of the event (if it has one)

**ASPMining.CanonicalModel.HWMonitoring.OEMEventType**

• property **Description** as [%String](http://192.168.0.3:52773/csp/documatic/%25CSP.Documatic.cls?PAGE=CLASS&LIBRARY=APPINT&CLASSNAME=%25Library.String);

Assigned description of the event: e.g: "generated when driver is over accelerating"

• property **Other** as [%String](http://192.168.0.3:52773/csp/documatic/%25CSP.Documatic.cls?PAGE=CLASS&LIBRARY=APPINT&CLASSNAME=%25Library.String);

Other explainatory content: e.g: "for calibration only purposes"

**ASPMining.CanonicalModel.HWMonitoring.OEMInterface**

• property **Brand** as [%String](http://192.168.0.3:52773/csp/documatic/%25CSP.Documatic.cls?PAGE=CLASS&LIBRARY=APPINT&CLASSNAME=%25Library.String);

Brand of the Interface (optional)

• property **Name** as [%String](http://192.168.0.3:52773/csp/documatic/%25CSP.Documatic.cls?PAGE=CLASS&LIBRARY=APPINT&CLASSNAME=%25Library.String);

Display Name of the OEM Interface

**ASPMining.CanonicalModel.HWMonitoring.OEMInterfaceMap**

• property **Equipment** as [ASPMining.CanonicalModel.Equipment.Equipment](http://192.168.0.3:52773/csp/documatic/%25CSP.Documatic.cls?PAGE=CLASS&LIBRARY=APPINT&CLASSNAME=ASPMining.CanonicalModel.Equipment.Equipment);

Equipment Reference where this Interface is connected to

• property **OEMInterface** as [OEMInterface](http://192.168.0.3:52773/csp/documatic/%25CSP.Documatic.cls?PAGE=CLASS&LIBRARY=APPINT&CLASSNAME=ASPMining.CanonicalModel.HWMonitoring.OEMInterface);

OEMInterface Reference

**ASPMining.CanonicalModel.Mine.Location**

• property **Grade** as [%Float](http://192.168.0.3:52773/csp/documatic/%25CSP.Documatic.cls?PAGE=CLASS&LIBRARY=APPINT&CLASSNAME=%25Library.Float);

Grade of the material in this location

• property **Site** as [Site](http://192.168.0.3:52773/csp/documatic/%25CSP.Documatic.cls?PAGE=CLASS&LIBRARY=APPINT&CLASSNAME=ASPMining.CanonicalModel.Mine.Site);

Site to which this Location belongs

**ASPMining.CanonicalModel.Mine.Site**

• property **Name** as [%String](http://192.168.0.3:52773/csp/documatic/%25CSP.Documatic.cls?PAGE=CLASS&LIBRARY=APPINT&CLASSNAME=%25Library.String);

Display Name of the Site

**ASPMining.CanonicalModel.Operation.StatusEvent**

• property **Duration** as [%Integer](http://192.168.0.3:52773/csp/documatic/%25CSP.Documatic.cls?PAGE=CLASS&LIBRARY=APPINT&CLASSNAME=%25Library.Integer);

Calculated duration of the event

• property **EndDate** as [%DateTime](http://192.168.0.3:52773/csp/documatic/%25CSP.Documatic.cls?PAGE=CLASS&LIBRARY=APPINT&CLASSNAME=%25Library.DateTime);

End date of the event

• property **Equipment** as [ASPMining.CanonicalModel.Equipment.Equipment](http://192.168.0.3:52773/csp/documatic/%25CSP.Documatic.cls?PAGE=CLASS&LIBRARY=APPINT&CLASSNAME=ASPMining.CanonicalModel.Equipment.Equipment);

Equipment that generated this event

• property **Shift** as [ASPMining.CanonicalModel.Planning.Shift](http://192.168.0.3:52773/csp/documatic/%25CSP.Documatic.cls?PAGE=CLASS&LIBRARY=APPINT&CLASSNAME=ASPMining.CanonicalModel.Planning.Shift);

Shift where this event happened

• property **StartDate** as [%DateTime](http://192.168.0.3:52773/csp/documatic/%25CSP.Documatic.cls?PAGE=CLASS&LIBRARY=APPINT&CLASSNAME=%25Library.DateTime);

Start date of the event

• property **StatusReason** as [StatusReason](http://192.168.0.3:52773/csp/documatic/%25CSP.Documatic.cls?PAGE=CLASS&LIBRARY=APPINT&CLASSNAME=ASPMining.CanonicalModel.Operation.StatusReason);

Status Reason Link

• property **StatusType** as [StatusType](http://192.168.0.3:52773/csp/documatic/%25CSP.Documatic.cls?PAGE=CLASS&LIBRARY=APPINT&CLASSNAME=ASPMining.CanonicalModel.Operation.StatusType);

Status Type Link

**ASPMining.CanonicalModel.Operation.StatusReason**

• property **Description** as [%String](http://192.168.0.3:52773/csp/documatic/%25CSP.Documatic.cls?PAGE=CLASS&LIBRARY=APPINT&CLASSNAME=%25Library.String);

Description for the Reason, e.g: "operator went to restroom"

• property **Reason** as [%String](http://192.168.0.3:52773/csp/documatic/%25CSP.Documatic.cls?PAGE=CLASS&LIBRARY=APPINT&CLASSNAME=%25Library.String);

Reason code, e.g: "112"

• property **StatusType** as [StatusType](http://192.168.0.3:52773/csp/documatic/%25CSP.Documatic.cls?PAGE=CLASS&LIBRARY=APPINT&CLASSNAME=ASPMining.CanonicalModel.Operation.StatusType);

Link to Status Type

**ASPMining.CanonicalModel.Operation.StatusType**

• property **Description** as [%String](http://192.168.0.3:52773/csp/documatic/%25CSP.Documatic.cls?PAGE=CLASS&LIBRARY=APPINT&CLASSNAME=%25Library.String);

Description of the status, e.g: Operative, Standby, Downtime, Delay. Very important for Operational KPIs

• property **Type** as [%String](http://192.168.0.3:52773/csp/documatic/%25CSP.Documatic.cls?PAGE=CLASS&LIBRARY=APPINT&CLASSNAME=%25Library.String);

Type of the status, e.g: 1,2,3,4

**ASPMining.CanonicalModel.Personnel.Crew**

• property **Name** as [%String](http://192.168.0.3:52773/csp/documatic/%25CSP.Documatic.cls?PAGE=CLASS&LIBRARY=APPINT&CLASSNAME=%25Library.String);

Display Name of the Crew, usually 1 letter, e.g: A,B,C,D,E

**ASPMining.CanonicalModel.Personnel.CrewRegistry**

• property **Crew** as [Crew](http://192.168.0.3:52773/csp/documatic/%25CSP.Documatic.cls?PAGE=CLASS&LIBRARY=APPINT&CLASSNAME=ASPMining.CanonicalModel.Personnel.Crew);

Link to Crew

• property **OperatorList** as [%Library.ArrayOfObjects](http://192.168.0.3:52773/csp/documatic/%25CSP.Documatic.cls?PAGE=CLASS&LIBRARY=APPINT&CLASSNAME=%25Library.ArrayOfObjects);

List of Operators that this Crew had at each Shift assignment

**ASPMining.CanonicalModel.Personnel.Operator**

• property **Crew** as [Crew](http://192.168.0.3:52773/csp/documatic/%25CSP.Documatic.cls?PAGE=CLASS&LIBRARY=APPINT&CLASSNAME=ASPMining.CanonicalModel.Personnel.Crew);

Current Crew Link

• property **FirstName** as [%String](http://192.168.0.3:52773/csp/documatic/%25CSP.Documatic.cls?PAGE=CLASS&LIBRARY=APPINT&CLASSNAME=%25Library.String);

Operator's first name

• property **LastName** as [%String](http://192.168.0.3:52773/csp/documatic/%25CSP.Documatic.cls?PAGE=CLASS&LIBRARY=APPINT&CLASSNAME=%25Library.String);

Operator's last name

**ASPMining.CanonicalModel.Planning.Shift**

• property **Crew** as [ASPMining.CanonicalModel.Personnel.Crew](http://192.168.0.3:52773/csp/documatic/%25CSP.Documatic.cls?PAGE=CLASS&LIBRARY=APPINT&CLASSNAME=ASPMining.CanonicalModel.Personnel.Crew);

Crew Assigned to this shift

• property **DateTime** as [%DateTime](http://192.168.0.3:52773/csp/documatic/%25CSP.Documatic.cls?PAGE=CLASS&LIBRARY=APPINT&CLASSNAME=%25Library.DateTime);

Start time of the Shift

• property **Id** as [%Integer](http://192.168.0.3:52773/csp/documatic/%25CSP.Documatic.cls?PAGE=CLASS&LIBRARY=APPINT&CLASSNAME=%25Library.Integer);

Uniquie Shift Id

• property **ShiftType** as [ShiftType](http://192.168.0.3:52773/csp/documatic/%25CSP.Documatic.cls?PAGE=CLASS&LIBRARY=APPINT&CLASSNAME=ASPMining.CanonicalModel.Planning.ShiftType);

Shift's Shift Type

• property **StartDay** as [%Integer](http://192.168.0.3:52773/csp/documatic/%25CSP.Documatic.cls?PAGE=CLASS&LIBRARY=APPINT&CLASSNAME=%25Library.Integer);

Auxiliar variable, offset in days from start of IRIS internal time

• property **StartSeconds** as [%Integer](http://192.168.0.3:52773/csp/documatic/%25CSP.Documatic.cls?PAGE=CLASS&LIBRARY=APPINT&CLASSNAME=%25Library.Integer);

Auxiliar variable, offset in seconds from start of the day

**ASPMining.CanonicalModel.Planning.ShiftType**

• property **Other** as [%String](http://192.168.0.3:52773/csp/documatic/%25CSP.Documatic.cls?PAGE=CLASS&LIBRARY=APPINT&CLASSNAME=%25Library.String);

Any special details about this shift, e.g: holyday

• property **Type** as [%String](http://192.168.0.3:52773/csp/documatic/%25CSP.Documatic.cls?PAGE=CLASS&LIBRARY=APPINT&CLASSNAME=%25Library.String);

Shift Type, commonly day and night, e.g: A,B

**ASPMining.CanonicalModel.Production.DumpEvent**

• property **DumpId** as [%BigInt](http://192.168.0.3:52773/csp/documatic/%25CSP.Documatic.cls?PAGE=CLASS&LIBRARY=APPINT&CLASSNAME=%25Library.BigInt);

Unique DumpId

• property **EquipmentExcav** as [ASPMining.CanonicalModel.Equipment.Equipment](http://192.168.0.3:52773/csp/documatic/%25CSP.Documatic.cls?PAGE=CLASS&LIBRARY=APPINT&CLASSNAME=ASPMining.CanonicalModel.Equipment.Equipment);

Excavator Link

• property **EquipmentTruck** as [ASPMining.CanonicalModel.Equipment.Equipment](http://192.168.0.3:52773/csp/documatic/%25CSP.Documatic.cls?PAGE=CLASS&LIBRARY=APPINT&CLASSNAME=ASPMining.CanonicalModel.Equipment.Equipment);

Truck Link

• property **Latitude** as [%Float](http://192.168.0.3:52773/csp/documatic/%25CSP.Documatic.cls?PAGE=CLASS&LIBRARY=APPINT&CLASSNAME=%25Library.Float);

GPS of event (if available)

• property **LoadEvent** as [LoadEvent](http://192.168.0.3:52773/csp/documatic/%25CSP.Documatic.cls?PAGE=CLASS&LIBRARY=APPINT&CLASSNAME=ASPMining.CanonicalModel.Production.LoadEvent);

Next LoadEvent assigned to this Truck

• property **Location** as [ASPMining.CanonicalModel.Mine.Location](http://192.168.0.3:52773/csp/documatic/%25CSP.Documatic.cls?PAGE=CLASS&LIBRARY=APPINT&CLASSNAME=ASPMining.CanonicalModel.Mine.Location);

Location where the Dump happened

• property **Longitude** as [%Float](http://192.168.0.3:52773/csp/documatic/%25CSP.Documatic.cls?PAGE=CLASS&LIBRARY=APPINT&CLASSNAME=%25Library.Float);

GPS of event (if available)

• property **MeasuredTons** as [%Float](http://192.168.0.3:52773/csp/documatic/%25CSP.Documatic.cls?PAGE=CLASS&LIBRARY=APPINT&CLASSNAME=%25Library.Float);

Measured tons of the Dump (if available)

• property **OperatorExcav** as [ASPMining.CanonicalModel.Personnel.Operator](http://192.168.0.3:52773/csp/documatic/%25CSP.Documatic.cls?PAGE=CLASS&LIBRARY=APPINT&CLASSNAME=ASPMining.CanonicalModel.Personnel.Operator);

Excavator's Operator Link

• property **OperatorTruck** as [ASPMining.CanonicalModel.Personnel.Operator](http://192.168.0.3:52773/csp/documatic/%25CSP.Documatic.cls?PAGE=CLASS&LIBRARY=APPINT&CLASSNAME=ASPMining.CanonicalModel.Personnel.Operator);

Truck's Operator Link

• property **Shift** as [ASPMining.CanonicalModel.Planning.Shift](http://192.168.0.3:52773/csp/documatic/%25CSP.Documatic.cls?PAGE=CLASS&LIBRARY=APPINT&CLASSNAME=ASPMining.CanonicalModel.Planning.Shift);

Shift when this Dump Happened

• property **TimeArrive** as [%DateTime](http://192.168.0.3:52773/csp/documatic/%25CSP.Documatic.cls?PAGE=CLASS&LIBRARY=APPINT&CLASSNAME=%25Library.DateTime);

Time when the Truck Arrived

• property **TimeDump** as [%DateTime](http://192.168.0.3:52773/csp/documatic/%25CSP.Documatic.cls?PAGE=CLASS&LIBRARY=APPINT&CLASSNAME=%25Library.DateTime);

Time when the Load Started

• property **TimeEmpty** as [%DateTime](http://192.168.0.3:52773/csp/documatic/%25CSP.Documatic.cls?PAGE=CLASS&LIBRARY=APPINT&CLASSNAME=%25Library.DateTime);

Time when the Load Completed

• property **TravelTime** as [%Integer](http://192.168.0.3:52773/csp/documatic/%25CSP.Documatic.cls?PAGE=CLASS&LIBRARY=APPINT&CLASSNAME=%25Library.Integer);

Calculated Travel Time of the vehicle to arrive at the dump point

**ASPMining.CanonicalModel.Production.LoadEvent**

• property **DumpEvent** as [DumpEvent](http://192.168.0.3:52773/csp/documatic/%25CSP.Documatic.cls?PAGE=CLASS&LIBRARY=APPINT&CLASSNAME=ASPMining.CanonicalModel.Production.DumpEvent);

Next DumpEvent assigned to this Truck

• property **EquipmentExcav** as [ASPMining.CanonicalModel.Equipment.Equipment](http://192.168.0.3:52773/csp/documatic/%25CSP.Documatic.cls?PAGE=CLASS&LIBRARY=APPINT&CLASSNAME=ASPMining.CanonicalModel.Equipment.Equipment);

Excavator Link

• property **EquipmentTruck** as [ASPMining.CanonicalModel.Equipment.Equipment](http://192.168.0.3:52773/csp/documatic/%25CSP.Documatic.cls?PAGE=CLASS&LIBRARY=APPINT&CLASSNAME=ASPMining.CanonicalModel.Equipment.Equipment);

Truck Link

• property **Latitude** as [%Float](http://192.168.0.3:52773/csp/documatic/%25CSP.Documatic.cls?PAGE=CLASS&LIBRARY=APPINT&CLASSNAME=%25Library.Float);

GPS of event (if available)

• property **LoadId** as [%BigInt](http://192.168.0.3:52773/csp/documatic/%25CSP.Documatic.cls?PAGE=CLASS&LIBRARY=APPINT&CLASSNAME=%25Library.BigInt);

Unique LoadId

• property **Location** as [ASPMining.CanonicalModel.Mine.Location](http://192.168.0.3:52773/csp/documatic/%25CSP.Documatic.cls?PAGE=CLASS&LIBRARY=APPINT&CLASSNAME=ASPMining.CanonicalModel.Mine.Location);

Location where the Dump happened

• property **Longitude** as [%Float](http://192.168.0.3:52773/csp/documatic/%25CSP.Documatic.cls?PAGE=CLASS&LIBRARY=APPINT&CLASSNAME=%25Library.Float);

GPS of event (if available)

• property **MeasuredTons** as [%Float](http://192.168.0.3:52773/csp/documatic/%25CSP.Documatic.cls?PAGE=CLASS&LIBRARY=APPINT&CLASSNAME=%25Library.Float);

Measured tons of the Dump (if available)

• property **OperatorExcav** as [ASPMining.CanonicalModel.Personnel.Operator](http://192.168.0.3:52773/csp/documatic/%25CSP.Documatic.cls?PAGE=CLASS&LIBRARY=APPINT&CLASSNAME=ASPMining.CanonicalModel.Personnel.Operator);

Excavator's Operator Link

• property **OperatorTruck** as [ASPMining.CanonicalModel.Personnel.Operator](http://192.168.0.3:52773/csp/documatic/%25CSP.Documatic.cls?PAGE=CLASS&LIBRARY=APPINT&CLASSNAME=ASPMining.CanonicalModel.Personnel.Operator);

Truck's Operator Link

• property **Shift** as [ASPMining.CanonicalModel.Planning.Shift](http://192.168.0.3:52773/csp/documatic/%25CSP.Documatic.cls?PAGE=CLASS&LIBRARY=APPINT&CLASSNAME=ASPMining.CanonicalModel.Planning.Shift);

Shift when this Load Happened

• property **TimeArrive** as [%DateTime](http://192.168.0.3:52773/csp/documatic/%25CSP.Documatic.cls?PAGE=CLASS&LIBRARY=APPINT&CLASSNAME=%25Library.DateTime);

Time when the Truck Arrived

• property **TimeFull** as [%DateTime](http://192.168.0.3:52773/csp/documatic/%25CSP.Documatic.cls?PAGE=CLASS&LIBRARY=APPINT&CLASSNAME=%25Library.DateTime);

Time when the Load Completed

• property **TimeLoad** as [%DateTime](http://192.168.0.3:52773/csp/documatic/%25CSP.Documatic.cls?PAGE=CLASS&LIBRARY=APPINT&CLASSNAME=%25Library.DateTime);

Time when the Load Started

• property **TravelTime** as [%Integer](http://192.168.0.3:52773/csp/documatic/%25CSP.Documatic.cls?PAGE=CLASS&LIBRARY=APPINT&CLASSNAME=%25Library.Integer);

Calculated Travel Time of the vehicle to arrive at the load point