ASP Mining Starter Pack - Data Dictionary Classes

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# **ASPMining.CanonicalModel.Equipment.Equipment**

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| [**Parameters**](http://192.168.0.4:52773/csp/documatic/%25CSP.Documatic.cls?PAGE=CLASS&SHOWCLASSONLY=1&&LIBRARY=APPINT&CLASSNAME=ASPMining.CanonicalModel.Equipment.Equipment) |

• parameter **DSTIME** = "AUTO";

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| **[Properties](http://192.168.0.4:52773/csp/documatic/%25CSP.Documatic.cls?PAGE=CLASS&SHOWCLASSONLY=1&&LIBRARY=APPINT&CLASSNAME=ASPMining.CanonicalModel.Equipment.Equipment" \o "Expand/Collapse Properties)** |

• property **Capacity** as [%Float](http://192.168.0.4:52773/csp/documatic/%25CSP.Documatic.cls?PAGE=CLASS&LIBRARY=APPINT&CLASSNAME=%25Library.Float);

Capacity of Vehicle ASSIGNED BY USERS

• property **EquipmentCategory** as [EquipmentCategory](http://192.168.0.4:52773/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://192.168.0.4:52773/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://192.168.0.4:52773/csp/documatic/%25CSP.Documatic.cls?PAGE=CLASS&LIBRARY=APPINT&CLASSNAME=%25Library.String);

Mine Unique Identifier of Vehicle

• property **LastProductionUpdate** as [ASPMining.CanonicalModel.Production.ProductionEventSliced](http://192.168.0.4:52773/csp/documatic/%25CSP.Documatic.cls?PAGE=CLASS&LIBRARY=APPINT&CLASSNAME=ASPMining.CanonicalModel.Production.ProductionEventSliced);

Used to keep track of travel/unknown times in the production cycle, for production slices only

• property **LastUnifiedEvent** as [ASPMining.CanonicalModel.Operation.UnifiedEvents](http://192.168.0.4:52773/csp/documatic/%25CSP.Documatic.cls?PAGE=CLASS&LIBRARY=APPINT&CLASSNAME=ASPMining.CanonicalModel.Operation.UnifiedEvents);

Used to check Last production DumpEvent

• property **Name** as [%String](http://192.168.0.4:52773/csp/documatic/%25CSP.Documatic.cls?PAGE=CLASS&LIBRARY=APPINT&CLASSNAME=%25Library.String);

Readable Display Name of Vehicle

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| **[Indices](http://192.168.0.4:52773/csp/documatic/%25CSP.Documatic.cls?PAGE=CLASS&SHOWCLASSONLY=1&&LIBRARY=APPINT&CLASSNAME=ASPMining.CanonicalModel.Equipment.Equipment" \o "Expand/Collapse Indices)** |

•index **(EquipmentIndex** on **Id)** [Unique];

•index **(NameIndex** on **Name)** [Type = bitmap];

# **ASPMining.CanonicalModel.Equipment.EquipmentCategory**

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| [**Properties**](http://192.168.0.4:52773/csp/documatic/%25CSP.Documatic.cls?PAGE=CLASS&SHOWCLASSONLY=1&&LIBRARY=APPINT&CLASSNAME=ASPMining.CanonicalModel.Equipment.EquipmentCategory) |

• property **Description** as [%String](http://192.168.0.4:52773/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://192.168.0.4:52773/csp/documatic/%25CSP.Documatic.cls?PAGE=CLASS&LIBRARY=APPINT&CLASSNAME=%25Library.String);

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

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| [**Indices**](http://192.168.0.4:52773/csp/documatic/%25CSP.Documatic.cls?PAGE=CLASS&SHOWCLASSONLY=1&&LIBRARY=APPINT&CLASSNAME=ASPMining.CanonicalModel.Equipment.EquipmentCategory) |

•index **(EquipmentCategoryIndex** on **Name)** [Unique];

# **ASPMining.CanonicalModel.Equipment.EquipmentModel**

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| [**Properties**](http://192.168.0.4:52773/csp/documatic/%25CSP.Documatic.cls?PAGE=CLASS&SHOWCLASSONLY=1&&LIBRARY=APPINT&CLASSNAME=ASPMining.CanonicalModel.Equipment.EquipmentModel) |

• property **Brand** as [%String](http://192.168.0.4:52773/csp/documatic/%25CSP.Documatic.cls?PAGE=CLASS&LIBRARY=APPINT&CLASSNAME=%25Library.String);

Manufacturer's brand name

• property **Description** as [%String](http://192.168.0.4:52773/csp/documatic/%25CSP.Documatic.cls?PAGE=CLASS&LIBRARY=APPINT&CLASSNAME=%25Library.String);

Model Description

• property **Model** as [%String](http://192.168.0.4:52773/csp/documatic/%25CSP.Documatic.cls?PAGE=CLASS&LIBRARY=APPINT&CLASSNAME=%25Library.String);

Model of the equipment provided by manufacturer

• property **NominalCapacityTons** as [%Float](http://192.168.0.4:52773/csp/documatic/%25CSP.Documatic.cls?PAGE=CLASS&LIBRARY=APPINT&CLASSNAME=%25Library.Float);

Manufacturer's specified Tonnage of equipment (if applies)

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| [**Indices**](http://192.168.0.4:52773/csp/documatic/%25CSP.Documatic.cls?PAGE=CLASS&SHOWCLASSONLY=1&&LIBRARY=APPINT&CLASSNAME=ASPMining.CanonicalModel.Equipment.EquipmentModel) |

•index **(EquipmentModelIndex** on **Model)** [Unique];

# **ASPMining.CanonicalModel.HWMonitoring.OEMEvent**

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| [**Parameters**](http://192.168.0.4:52773/csp/documatic/%25CSP.Documatic.cls?PAGE=CLASS&SHOWCLASSONLY=1&&LIBRARY=APPINT&CLASSNAME=ASPMining.CanonicalModel.HWMonitoring.OEMEvent) |

• parameter **DSTIME** = "AUTO";

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| [**Properties**](http://192.168.0.4:52773/csp/documatic/%25CSP.Documatic.cls?PAGE=CLASS&SHOWCLASSONLY=1&&LIBRARY=APPINT&CLASSNAME=ASPMining.CanonicalModel.HWMonitoring.OEMEvent) |

• property **Equipment** as [ASPMining.CanonicalModel.Equipment.Equipment](http://192.168.0.4:52773/csp/documatic/%25CSP.Documatic.cls?PAGE=CLASS&LIBRARY=APPINT&CLASSNAME=ASPMining.CanonicalModel.Equipment.Equipment);

GPS Latitude if available GPS Longitude if available 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://192.168.0.4:52773/csp/documatic/%25CSP.Documatic.cls?PAGE=CLASS&LIBRARY=APPINT&CLASSNAME=%25Library.Integer);

Unique Id of event provided by Mining software

• property **OEMEventType** as [OEMEventType](http://192.168.0.4:52773/csp/documatic/%25CSP.Documatic.cls?PAGE=CLASS&LIBRARY=APPINT&CLASSNAME=ASPMining.CanonicalModel.HWMonitoring.OEMEventType);

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

• property **ReadTime** as [%DateTime](http://192.168.0.4:52773/csp/documatic/%25CSP.Documatic.cls?PAGE=CLASS&LIBRARY=APPINT&CLASSNAME=%25Library.DateTime);

HW Interface that generator this event Shift when this event happened Mine Site location where the event happened Reading time of the event

• property **Value** as [%Float](http://192.168.0.4:52773/csp/documatic/%25CSP.Documatic.cls?PAGE=CLASS&LIBRARY=APPINT&CLASSNAME=%25Library.Float);

Value of the event (if it has one)

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| [**Indices**](http://192.168.0.4:52773/csp/documatic/%25CSP.Documatic.cls?PAGE=CLASS&SHOWCLASSONLY=1&&LIBRARY=APPINT&CLASSNAME=ASPMining.CanonicalModel.HWMonitoring.OEMEvent) |

•index **(OEMEventIndex** on **Id)** [Unique];

•index **(ReadTimeIndex** on **ReadTime)**;

# **ASPMining.CanonicalModel.HWMonitoring.OEMEventType**

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| [**Properties**](http://192.168.0.4:52773/csp/documatic/%25CSP.Documatic.cls?PAGE=CLASS&SHOWCLASSONLY=1&&LIBRARY=APPINT&CLASSNAME=ASPMining.CanonicalModel.HWMonitoring.OEMEventType) |

• property **Description** as [%String](http://192.168.0.4:52773/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://192.168.0.4:52773/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**

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| [**Properties**](http://192.168.0.4:52773/csp/documatic/%25CSP.Documatic.cls?PAGE=CLASS&SHOWCLASSONLY=1&&LIBRARY=APPINT&CLASSNAME=ASPMining.CanonicalModel.HWMonitoring.OEMInterface) |

• property **Brand** as [%String](http://192.168.0.4:52773/csp/documatic/%25CSP.Documatic.cls?PAGE=CLASS&LIBRARY=APPINT&CLASSNAME=%25Library.String);

Brand of the Interface (optional)

• property **Name** as [%String](http://192.168.0.4:52773/csp/documatic/%25CSP.Documatic.cls?PAGE=CLASS&LIBRARY=APPINT&CLASSNAME=%25Library.String);

Display Name of the OEM Interface

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| [**Indices**](http://192.168.0.4:52773/csp/documatic/%25CSP.Documatic.cls?PAGE=CLASS&SHOWCLASSONLY=1&&LIBRARY=APPINT&CLASSNAME=ASPMining.CanonicalModel.HWMonitoring.OEMInterface) |

•index **(BrandIndex** on **Brand)** [Type = bitmap];

•index **(NameIndex** on **Name)** [Type = bitmap];

# **ASPMining.CanonicalModel.HWMonitoring.OEMInterfaceMap**

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| [**Properties**](http://192.168.0.4:52773/csp/documatic/%25CSP.Documatic.cls?PAGE=CLASS&SHOWCLASSONLY=1&&LIBRARY=APPINT&CLASSNAME=ASPMining.CanonicalModel.HWMonitoring.OEMInterfaceMap) |

• property **Equipment** as [ASPMining.CanonicalModel.Equipment.Equipment](http://192.168.0.4:52773/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://192.168.0.4:52773/csp/documatic/%25CSP.Documatic.cls?PAGE=CLASS&LIBRARY=APPINT&CLASSNAME=ASPMining.CanonicalModel.HWMonitoring.OEMInterface);

OEMInterface Reference

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| [**Indices**](http://192.168.0.4:52773/csp/documatic/%25CSP.Documatic.cls?PAGE=CLASS&SHOWCLASSONLY=1&&LIBRARY=APPINT&CLASSNAME=ASPMining.CanonicalModel.HWMonitoring.OEMInterfaceMap) |

•index **(EquipmentIndex** on **OEMInterface)** [Type = bitmap];

•index **(OEMInterfaceIndex** on **OEMInterface)** [Unique];

# **ASPMining.CanonicalModel.Mine.Location**

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| [**Properties**](http://192.168.0.4:52773/csp/documatic/%25CSP.Documatic.cls?PAGE=CLASS&SHOWCLASSONLY=1&&LIBRARY=APPINT&CLASSNAME=ASPMining.CanonicalModel.Mine.Location) |

• property **Grade** as [%String](http://192.168.0.4:52773/csp/documatic/%25CSP.Documatic.cls?PAGE=CLASS&LIBRARY=APPINT&CLASSNAME=%25Library.String);

Grade of the material in this location

• property **Name** as [%String](http://192.168.0.4:52773/csp/documatic/%25CSP.Documatic.cls?PAGE=CLASS&LIBRARY=APPINT&CLASSNAME=%25Library.String);

Site to which this Location belongs

• property **Site** as [Site](http://192.168.0.4:52773/csp/documatic/%25CSP.Documatic.cls?PAGE=CLASS&LIBRARY=APPINT&CLASSNAME=ASPMining.CanonicalModel.Mine.Site);

Site to which this Location belongs

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| [**Indices**](http://192.168.0.4:52773/csp/documatic/%25CSP.Documatic.cls?PAGE=CLASS&SHOWCLASSONLY=1&&LIBRARY=APPINT&CLASSNAME=ASPMining.CanonicalModel.Mine.Location) |

•index **(GradeIndex** on **Grade)** [Type = bitslice];

•index **(NameIndex** on **Name)** [Unique];

# **ASPMining.CanonicalModel.Mine.Site**

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| [**Properties**](http://192.168.0.4:52773/csp/documatic/%25CSP.Documatic.cls?PAGE=CLASS&SHOWCLASSONLY=1&&LIBRARY=APPINT&CLASSNAME=ASPMining.CanonicalModel.Mine.Site) |

• property **Name** as [%String](http://192.168.0.4:52773/csp/documatic/%25CSP.Documatic.cls?PAGE=CLASS&LIBRARY=APPINT&CLASSNAME=%25Library.String);

Display Name of the Site

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| [**Indices**](http://192.168.0.4:52773/csp/documatic/%25CSP.Documatic.cls?PAGE=CLASS&SHOWCLASSONLY=1&&LIBRARY=APPINT&CLASSNAME=ASPMining.CanonicalModel.Mine.Site) |

•index **(NameIndex** on **Name)** [Type = bitmap];

**ASPMining.CanonicalModel.Mine.Trip**

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| [**Properties**](http://192.168.0.4:52773/csp/documatic/%25CSP.Documatic.cls?PAGE=CLASS&SHOWCLASSONLY=1&&LIBRARY=APPINT&CLASSNAME=ASPMining.CanonicalModel.Mine.Trip) |

• property **AvgTravelTime** as [%Double](http://192.168.0.4:52773/csp/documatic/%25CSP.Documatic.cls?PAGE=CLASS&LIBRARY=APPINT&CLASSNAME=%25Library.Double);

Average Registered Time

• property **DestinationLocation** as [Location](http://192.168.0.4:52773/csp/documatic/%25CSP.Documatic.cls?PAGE=CLASS&LIBRARY=APPINT&CLASSNAME=ASPMining.CanonicalModel.Mine.Location);

Site to which this Location belongs

• property **Id** as [%String](http://192.168.0.4:52773/csp/documatic/%25CSP.Documatic.cls?PAGE=CLASS&LIBRARY=APPINT&CLASSNAME=%25Library.String)(MAXLEN=70);

Unique Id of this Trip

• property **MaxTravelTime** as [%Double](http://192.168.0.4:52773/csp/documatic/%25CSP.Documatic.cls?PAGE=CLASS&LIBRARY=APPINT&CLASSNAME=%25Library.Double);

Maximum Registered Time

• property **MinTravelTime** as [%Double](http://192.168.0.4:52773/csp/documatic/%25CSP.Documatic.cls?PAGE=CLASS&LIBRARY=APPINT&CLASSNAME=%25Library.Double);

Minimum Registered Time

• property **Name** as [%String](http://192.168.0.4:52773/csp/documatic/%25CSP.Documatic.cls?PAGE=CLASS&LIBRARY=APPINT&CLASSNAME=%25Library.String)(MAXLEN=70);

Site to which this Location belongs

• property **OriginLocation** as [Location](http://192.168.0.4:52773/csp/documatic/%25CSP.Documatic.cls?PAGE=CLASS&LIBRARY=APPINT&CLASSNAME=ASPMining.CanonicalModel.Mine.Location);

Site to which this Location belongs

• property **ReferenceTravelTime** as [%Double](http://192.168.0.4:52773/csp/documatic/%25CSP.Documatic.cls?PAGE=CLASS&LIBRARY=APPINT&CLASSNAME=%25Library.Double);

Reference Time Used to Compare data automatically calculated.

• property **TotalTravelTime** as [%BigInt](http://192.168.0.4:52773/csp/documatic/%25CSP.Documatic.cls?PAGE=CLASS&LIBRARY=APPINT&CLASSNAME=%25Library.BigInt);

Sum of all times of this trip, useful for calculations

• property **TravelCount** as [%Double](http://192.168.0.4:52773/csp/documatic/%25CSP.Documatic.cls?PAGE=CLASS&LIBRARY=APPINT&CLASSNAME=%25Library.Double);

Amounts of Travels Performed

• property **UserReferenceTravelTime** as [%Double](http://192.168.0.4:52773/csp/documatic/%25CSP.Documatic.cls?PAGE=CLASS&LIBRARY=APPINT&CLASSNAME=%25Library.Double);

Reference Time Used to Compare data specified by th euser

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| [**Indices**](http://192.168.0.4:52773/csp/documatic/%25CSP.Documatic.cls?PAGE=CLASS&SHOWCLASSONLY=1&&LIBRARY=APPINT&CLASSNAME=ASPMining.CanonicalModel.Mine.Trip) |

•index **(DestinationLocationIndex** on **DestinationLocation)** [Type = bitmap];

•index **(IdIndex** on **Id)** [Unique];

•index **(NameIndex** on **Name)**;

•index **(OriginLocationIndex** on **OriginLocation)** [Type = bitmap];

# **ASPMining.CanonicalModel.Operation.StatusEvent**

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| [**Parameters**](http://192.168.0.4:52773/csp/documatic/%25CSP.Documatic.cls?PAGE=CLASS&SHOWCLASSONLY=1&&LIBRARY=APPINT&CLASSNAME=ASPMining.CanonicalModel.Operation.StatusEvent) |

• parameter **DSTIME** = "AUTO";

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| [**Properties**](http://192.168.0.4:52773/csp/documatic/%25CSP.Documatic.cls?PAGE=CLASS&SHOWCLASSONLY=1&&LIBRARY=APPINT&CLASSNAME=ASPMining.CanonicalModel.Operation.StatusEvent) |

• property **Duration** as [%Double](http://192.168.0.4:52773/csp/documatic/%25CSP.Documatic.cls?PAGE=CLASS&LIBRARY=APPINT&CLASSNAME=%25Library.Double);

Calculated duration of the event

• property **EndDate** as [%DateTime](http://192.168.0.4:52773/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://192.168.0.4:52773/csp/documatic/%25CSP.Documatic.cls?PAGE=CLASS&LIBRARY=APPINT&CLASSNAME=ASPMining.CanonicalModel.Equipment.Equipment);

Equipment that generated this event

• property **Id** as [%BigInt](http://192.168.0.4:52773/csp/documatic/%25CSP.Documatic.cls?PAGE=CLASS&LIBRARY=APPINT&CLASSNAME=%25Library.BigInt);

Unique Id

• property **Shift** as [ASPMining.CanonicalModel.Planning.Shift](http://192.168.0.4:52773/csp/documatic/%25CSP.Documatic.cls?PAGE=CLASS&LIBRARY=APPINT&CLASSNAME=ASPMining.CanonicalModel.Planning.Shift);

Shift where this event happened

• property **StartDate** as [%DateTime](http://192.168.0.4:52773/csp/documatic/%25CSP.Documatic.cls?PAGE=CLASS&LIBRARY=APPINT&CLASSNAME=%25Library.DateTime);

Start date of the event

• property **StatusReason** as [StatusReason](http://192.168.0.4:52773/csp/documatic/%25CSP.Documatic.cls?PAGE=CLASS&LIBRARY=APPINT&CLASSNAME=ASPMining.CanonicalModel.Operation.StatusReason);

Status Reason Link

• property **StatusType** as [StatusType](http://192.168.0.4:52773/csp/documatic/%25CSP.Documatic.cls?PAGE=CLASS&LIBRARY=APPINT&CLASSNAME=ASPMining.CanonicalModel.Operation.StatusType);

Status Type Link

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| **[Methods](http://192.168.0.4:52773/csp/documatic/%25CSP.Documatic.cls?PAGE=CLASS&SHOWCLASSONLY=1&&LIBRARY=APPINT&CLASSNAME=ASPMining.CanonicalModel.Operation.StatusEvent" \o "Expand/Collapse Methods)** |

• classMétodo **HourToInt(datetime As**[**%DateTime**](http://192.168.0.4:52773/csp/documatic/%25CSP.Documatic.cls?PAGE=CLASS&LIBRARY=APPINT&CLASSNAME=%25Library.DateTime)**)** as [%Integer](http://192.168.0.4:52773/csp/documatic/%25CSP.Documatic.cls?PAGE=CLASS&LIBRARY=APPINT&CLASSNAME=%25Library.Integer)

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| [**Indices**](http://192.168.0.4:52773/csp/documatic/%25CSP.Documatic.cls?PAGE=CLASS&SHOWCLASSONLY=1&&LIBRARY=APPINT&CLASSNAME=ASPMining.CanonicalModel.Operation.StatusEvent) |

•index **(DurationIndex** on **Duration)** [Type = bitslice];

•index **(EndTimeIndex** on **EndDate)**;

•index **(EquipmentIndex** on **Equipment)** [Type = bitmap];

•index **(IdIndex** on **Id)** [Unique];

•index **(StartTimeIndex** on **StartDate)**;

•index **(StatusReasonIndex** on **StatusReason)** [Type = bitmap];

•index **(StatusTypeIndex** on **StatusType)** [Type = bitmap];

# **ASPMining.CanonicalModel.Operation.StatusEventSliced**

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| [**Parameters**](http://192.168.0.4:52773/csp/documatic/%25CSP.Documatic.cls?PAGE=CLASS&SHOWCLASSONLY=1&&LIBRARY=APPINT&CLASSNAME=ASPMining.CanonicalModel.Operation.StatusEventSliced) |

• parameter **DSTIME** = "AUTO";

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| [**Properties**](http://192.168.0.4:52773/csp/documatic/%25CSP.Documatic.cls?PAGE=CLASS&SHOWCLASSONLY=1&&LIBRARY=APPINT&CLASSNAME=ASPMining.CanonicalModel.Operation.StatusEventSliced) |

• property **Equipment** as [ASPMining.CanonicalModel.Equipment.Equipment](http://192.168.0.4:52773/csp/documatic/%25CSP.Documatic.cls?PAGE=CLASS&LIBRARY=APPINT&CLASSNAME=ASPMining.CanonicalModel.Equipment.Equipment);

Equipment that generated this event

• property **PartialDuration** as [%Float](http://192.168.0.4:52773/csp/documatic/%25CSP.Documatic.cls?PAGE=CLASS&LIBRARY=APPINT&CLASSNAME=%25Library.Float);

Calculated duration of the event

• property **Shift** as [ASPMining.CanonicalModel.Planning.Shift](http://192.168.0.4:52773/csp/documatic/%25CSP.Documatic.cls?PAGE=CLASS&LIBRARY=APPINT&CLASSNAME=ASPMining.CanonicalModel.Planning.Shift);

Shift where this event happened

• property **SliceStartDate** as [%DateTime](http://192.168.0.4:52773/csp/documatic/%25CSP.Documatic.cls?PAGE=CLASS&LIBRARY=APPINT&CLASSNAME=%25Library.DateTime);

Start date of the event

• property **StatusReason** as [StatusReason](http://192.168.0.4:52773/csp/documatic/%25CSP.Documatic.cls?PAGE=CLASS&LIBRARY=APPINT&CLASSNAME=ASPMining.CanonicalModel.Operation.StatusReason);

Status Reason Link

• property **StatusType** as [StatusType](http://192.168.0.4:52773/csp/documatic/%25CSP.Documatic.cls?PAGE=CLASS&LIBRARY=APPINT&CLASSNAME=ASPMining.CanonicalModel.Operation.StatusType);

Status Type Link

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| [**Indices**](http://192.168.0.4:52773/csp/documatic/%25CSP.Documatic.cls?PAGE=CLASS&SHOWCLASSONLY=1&&LIBRARY=APPINT&CLASSNAME=ASPMining.CanonicalModel.Operation.StatusEventSliced) |

•index **(PartialDurationIndex** on **PartialDuration)** [Type = bitslice];

•index **(SliceStartTimeIndex** on **SliceStartDate)** [Type = index];

•index **(ddbkeyIndex** on **ddbkey)** [Type = index];

# **ASPMining.CanonicalModel.Operation.StatusReason**

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| [**Properties**](http://192.168.0.4:52773/csp/documatic/%25CSP.Documatic.cls?PAGE=CLASS&SHOWCLASSONLY=1&&LIBRARY=APPINT&CLASSNAME=ASPMining.CanonicalModel.Operation.StatusReason) |

• property **Description** as [%String](http://192.168.0.4:52773/csp/documatic/%25CSP.Documatic.cls?PAGE=CLASS&LIBRARY=APPINT&CLASSNAME=%25Library.String);

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

• property **Id** as [%String](http://192.168.0.4:52773/csp/documatic/%25CSP.Documatic.cls?PAGE=CLASS&LIBRARY=APPINT&CLASSNAME=%25Library.String);

Reason Unique Id = Concat StatusType+Reason

• property **Reason** as [%String](http://192.168.0.4:52773/csp/documatic/%25CSP.Documatic.cls?PAGE=CLASS&LIBRARY=APPINT&CLASSNAME=%25Library.String);

Reason code, e.g: "112"

• property **StatusType** as [StatusType](http://192.168.0.4:52773/csp/documatic/%25CSP.Documatic.cls?PAGE=CLASS&LIBRARY=APPINT&CLASSNAME=ASPMining.CanonicalModel.Operation.StatusType);

Link to Status Type

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| [**Indices**](http://192.168.0.4:52773/csp/documatic/%25CSP.Documatic.cls?PAGE=CLASS&SHOWCLASSONLY=1&&LIBRARY=APPINT&CLASSNAME=ASPMining.CanonicalModel.Operation.StatusReason) |

•index **(IdIndex** on **Id)** [Unique];

•index **(ReasonIndex** on **Reason)** [Type = bitmap];

•index **(StatusTypeIndex** on **StatusType)** [Type = bitmap];

# **ASPMining.CanonicalModel.Operation.StatusType**

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| [**Properties**](http://192.168.0.4:52773/csp/documatic/%25CSP.Documatic.cls?PAGE=CLASS&SHOWCLASSONLY=1&&LIBRARY=APPINT&CLASSNAME=ASPMining.CanonicalModel.Operation.StatusType) |

• property **Description** as [%String](http://192.168.0.4:52773/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://192.168.0.4:52773/csp/documatic/%25CSP.Documatic.cls?PAGE=CLASS&LIBRARY=APPINT&CLASSNAME=%25Library.String);

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

|  |
| --- |
| [**Indices**](http://192.168.0.4:52773/csp/documatic/%25CSP.Documatic.cls?PAGE=CLASS&SHOWCLASSONLY=1&&LIBRARY=APPINT&CLASSNAME=ASPMining.CanonicalModel.Operation.StatusType) |

•index **(TypeIndex** on **Type)** [Unique];

# **ASPMining.CanonicalModel.Operation.UnifiedEvents**

This unifies the production events and operation events such that each row represents only 1 change in status or production for each equipment. The duration field of each field is only calculated when a new event is received and then the difference is calculated. LoadEvents + DumpEvents + StatusEvents

|  |
| --- |
| [**Parameters**](http://192.168.0.4:52773/csp/documatic/%25CSP.Documatic.cls?PAGE=CLASS&SHOWCLASSONLY=1&&LIBRARY=APPINT&CLASSNAME=ASPMining.CanonicalModel.Operation.UnifiedEvents) |

• parameter **DSTIME** = "AUTO";

|  |
| --- |
| [**Properties**](http://192.168.0.4:52773/csp/documatic/%25CSP.Documatic.cls?PAGE=CLASS&SHOWCLASSONLY=1&&LIBRARY=APPINT&CLASSNAME=ASPMining.CanonicalModel.Operation.UnifiedEvents) |

• property **Duration** as [%Double](http://192.168.0.4:52773/csp/documatic/%25CSP.Documatic.cls?PAGE=CLASS&LIBRARY=APPINT&CLASSNAME=%25Library.Double);

Duration in seconds of this state, is the time between this interval and the next

• property **Equipment** as [ASPMining.CanonicalModel.Equipment.Equipment](http://192.168.0.4:52773/csp/documatic/%25CSP.Documatic.cls?PAGE=CLASS&LIBRARY=APPINT&CLASSNAME=ASPMining.CanonicalModel.Equipment.Equipment);

Related Equipment has to exist

• property **EventDateTime** as [%DateTime](http://192.168.0.4:52773/csp/documatic/%25CSP.Documatic.cls?PAGE=CLASS&LIBRARY=APPINT&CLASSNAME=%25Library.DateTime);

Saves the datetime of the received event to simplify the Duration calculation of next event

• property **Id** as [%BigInt](http://192.168.0.4:52773/csp/documatic/%25CSP.Documatic.cls?PAGE=CLASS&LIBRARY=APPINT&CLASSNAME=%25Library.BigInt);

Unique Id

• property **OperativeDuration** as [%Double](http://192.168.0.4:52773/csp/documatic/%25CSP.Documatic.cls?PAGE=CLASS&LIBRARY=APPINT&CLASSNAME=%25Library.Double);

Only Operative Duration of this state, will basically be 0 for any statusevent with Non Operative StatusType, and Duration if statustype is operative. It could exists an equivalent way to do this in the Cube.

• property **ProductionEvent** as [ASPMining.CanonicalModel.Production.ProductionEvent](http://192.168.0.4:52773/csp/documatic/%25CSP.Documatic.cls?PAGE=CLASS&LIBRARY=APPINT&CLASSNAME=ASPMining.CanonicalModel.Production.ProductionEvent);

Production Event, NEED TO ADD THIS UNIFIED TABLE

• property **Shift** as [ASPMining.CanonicalModel.Planning.Shift](http://192.168.0.4:52773/csp/documatic/%25CSP.Documatic.cls?PAGE=CLASS&LIBRARY=APPINT&CLASSNAME=ASPMining.CanonicalModel.Planning.Shift);

Related Shift has to exist

• property **StatusEvent** as [ASPMining.CanonicalModel.Operation.StatusEvent](http://192.168.0.4:52773/csp/documatic/%25CSP.Documatic.cls?PAGE=CLASS&LIBRARY=APPINT&CLASSNAME=ASPMining.CanonicalModel.Operation.StatusEvent);

Status Event

• property **Trip** as [ASPMining.CanonicalModel.Mine.Trip](http://192.168.0.4:52773/csp/documatic/%25CSP.Documatic.cls?PAGE=CLASS&LIBRARY=APPINT&CLASSNAME=ASPMining.CanonicalModel.Mine.Trip);

Trip Id

• property **TripTime** as [%Double](http://192.168.0.4:52773/csp/documatic/%25CSP.Documatic.cls?PAGE=CLASS&LIBRARY=APPINT&CLASSNAME=%25Library.Double);

Trip Time of the most Recent Trip Made by this Truck

|  |
| --- |
| [**Indices**](http://192.168.0.4:52773/csp/documatic/%25CSP.Documatic.cls?PAGE=CLASS&SHOWCLASSONLY=1&&LIBRARY=APPINT&CLASSNAME=ASPMining.CanonicalModel.Operation.UnifiedEvents) |

•index **(EquipmentIndex** on **Equipment)** [Type = bitmap];

•index **(EventDateTimeIndex** on **EventDateTime)**;

•index **(IdIndex** on **Id)** [Unique];

•index **(ProductionEventIndex** on **ProductionEvent)**;

•index **(ShiftIndex** on **Shift)** [Type = bitmap];

•index **(StatusEventIndex** on **StatusEvent)**;

# **ASPMining.CanonicalModel.Personnel.Crew**

|  |
| --- |
| [**Properties**](http://192.168.0.4:52773/csp/documatic/%25CSP.Documatic.cls?PAGE=CLASS&SHOWCLASSONLY=1&&LIBRARY=APPINT&CLASSNAME=ASPMining.CanonicalModel.Personnel.Crew) |

• property **Name** as [%String](http://192.168.0.4:52773/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

|  |
| --- |
| [**Indices**](http://192.168.0.4:52773/csp/documatic/%25CSP.Documatic.cls?PAGE=CLASS&SHOWCLASSONLY=1&&LIBRARY=APPINT&CLASSNAME=ASPMining.CanonicalModel.Personnel.Crew) |

•index **(CrewIndex** on **Name)** [Unique];

# **ASPMining.CanonicalModel.Personnel.Operator**

|  |
| --- |
| [**Properties**](http://192.168.0.4:52773/csp/documatic/%25CSP.Documatic.cls?PAGE=CLASS&SHOWCLASSONLY=1&&LIBRARY=APPINT&CLASSNAME=ASPMining.CanonicalModel.Personnel.Operator) |

• property **Crew** as [Crew](http://192.168.0.4:52773/csp/documatic/%25CSP.Documatic.cls?PAGE=CLASS&LIBRARY=APPINT&CLASSNAME=ASPMining.CanonicalModel.Personnel.Crew);

Current Crew Link

• property **FirstName** as [%String](http://192.168.0.4:52773/csp/documatic/%25CSP.Documatic.cls?PAGE=CLASS&LIBRARY=APPINT&CLASSNAME=%25Library.String);

Operator's first name

• property **LastName** as [%String](http://192.168.0.4:52773/csp/documatic/%25CSP.Documatic.cls?PAGE=CLASS&LIBRARY=APPINT&CLASSNAME=%25Library.String);

Operator's last name

|  |
| --- |
| [**Indices**](http://192.168.0.4:52773/csp/documatic/%25CSP.Documatic.cls?PAGE=CLASS&SHOWCLASSONLY=1&&LIBRARY=APPINT&CLASSNAME=ASPMining.CanonicalModel.Personnel.Operator) |

•index **(FirstNameIndex** on **FirstName)** [Type = bitmap];

•index **(LastNameIndex** on **LastName)** [Type = bitmap];

# **ASPMining.CanonicalModel.Planning.Shift**

|  |
| --- |
| [**Properties**](http://192.168.0.4:52773/csp/documatic/%25CSP.Documatic.cls?PAGE=CLASS&SHOWCLASSONLY=1&&LIBRARY=APPINT&CLASSNAME=ASPMining.CanonicalModel.Planning.Shift) |

• property **Crew** as [ASPMining.CanonicalModel.Personnel.Crew](http://192.168.0.4:52773/csp/documatic/%25CSP.Documatic.cls?PAGE=CLASS&LIBRARY=APPINT&CLASSNAME=ASPMining.CanonicalModel.Personnel.Crew);

Crew Assigned to this shift

• property **DateTime** as [%DateTime](http://192.168.0.4:52773/csp/documatic/%25CSP.Documatic.cls?PAGE=CLASS&LIBRARY=APPINT&CLASSNAME=%25Library.DateTime);

Start time of the Shift

• property **Id** as [%Integer](http://192.168.0.4:52773/csp/documatic/%25CSP.Documatic.cls?PAGE=CLASS&LIBRARY=APPINT&CLASSNAME=%25Library.Integer);

Uniquie Shift Id

• property **ShiftType** as [ShiftType](http://192.168.0.4:52773/csp/documatic/%25CSP.Documatic.cls?PAGE=CLASS&LIBRARY=APPINT&CLASSNAME=ASPMining.CanonicalModel.Planning.ShiftType);

Shift's Shift Type

• property **StartDay** as [%Integer](http://192.168.0.4:52773/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://192.168.0.4:52773/csp/documatic/%25CSP.Documatic.cls?PAGE=CLASS&LIBRARY=APPINT&CLASSNAME=%25Library.Integer);

Auxiliar variable, offset in seconds from start of the day

|  |
| --- |
| [**Indices**](http://192.168.0.4:52773/csp/documatic/%25CSP.Documatic.cls?PAGE=CLASS&SHOWCLASSONLY=1&&LIBRARY=APPINT&CLASSNAME=ASPMining.CanonicalModel.Planning.Shift) |

•index **(CrewIndex** on **Crew)** [Type = bitmap];

•index **(ShiftIndex** on **Id)** [Unique];

# **ASPMining.CanonicalModel.Planning.ShiftType**

Types of shifts have a basic schedule day/night, and can have some extra information like holyday information

|  |
| --- |
| [**Properties**](http://192.168.0.4:52773/csp/documatic/%25CSP.Documatic.cls?PAGE=CLASS&SHOWCLASSONLY=1&&LIBRARY=APPINT&CLASSNAME=ASPMining.CanonicalModel.Planning.ShiftType) |

• property **Other** as [%String](http://192.168.0.4:52773/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://192.168.0.4:52773/csp/documatic/%25CSP.Documatic.cls?PAGE=CLASS&LIBRARY=APPINT&CLASSNAME=%25Library.String);

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

|  |
| --- |
| [**Indices**](http://192.168.0.4:52773/csp/documatic/%25CSP.Documatic.cls?PAGE=CLASS&SHOWCLASSONLY=1&&LIBRARY=APPINT&CLASSNAME=ASPMining.CanonicalModel.Planning.ShiftType) |

•index **(ShiftTypeIndex** on **Type)** [Unique];

# **ASPMining.CanonicalModel.Production.DumpEvent**

|  |
| --- |
| [**Properties**](http://192.168.0.4:52773/csp/documatic/%25CSP.Documatic.cls?PAGE=CLASS&SHOWCLASSONLY=1&&LIBRARY=APPINT&CLASSNAME=ASPMining.CanonicalModel.Production.DumpEvent) |

• property **DumpId** as [%BigInt](http://192.168.0.4:52773/csp/documatic/%25CSP.Documatic.cls?PAGE=CLASS&LIBRARY=APPINT&CLASSNAME=%25Library.BigInt);

Unique DumpId

• property **EquipmentExcav** as [ASPMining.CanonicalModel.Equipment.Equipment](http://192.168.0.4:52773/csp/documatic/%25CSP.Documatic.cls?PAGE=CLASS&LIBRARY=APPINT&CLASSNAME=ASPMining.CanonicalModel.Equipment.Equipment);

Excavator Link

• property **EquipmentTruck** as [ASPMining.CanonicalModel.Equipment.Equipment](http://192.168.0.4:52773/csp/documatic/%25CSP.Documatic.cls?PAGE=CLASS&LIBRARY=APPINT&CLASSNAME=ASPMining.CanonicalModel.Equipment.Equipment);

Truck Link

• property **Latitude** as [%Float](http://192.168.0.4:52773/csp/documatic/%25CSP.Documatic.cls?PAGE=CLASS&LIBRARY=APPINT&CLASSNAME=%25Library.Float);

GPS of event (if available)

• property **Location** as [ASPMining.CanonicalModel.Mine.Location](http://192.168.0.4:52773/csp/documatic/%25CSP.Documatic.cls?PAGE=CLASS&LIBRARY=APPINT&CLASSNAME=ASPMining.CanonicalModel.Mine.Location);

Location where the Dump happened

• property **Longitude** as [%Float](http://192.168.0.4:52773/csp/documatic/%25CSP.Documatic.cls?PAGE=CLASS&LIBRARY=APPINT&CLASSNAME=%25Library.Float);

GPS of event (if available)

• property **MeasuredTons** as [%Float](http://192.168.0.4:52773/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://192.168.0.4:52773/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://192.168.0.4:52773/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://192.168.0.4:52773/csp/documatic/%25CSP.Documatic.cls?PAGE=CLASS&LIBRARY=APPINT&CLASSNAME=ASPMining.CanonicalModel.Planning.Shift);

Shift when this Dump Happened

• property **TimeArrive** as [%DateTime](http://192.168.0.4:52773/csp/documatic/%25CSP.Documatic.cls?PAGE=CLASS&LIBRARY=APPINT&CLASSNAME=%25Library.DateTime);

Time when the Truck Arrived

• property **TimeDump** as [%DateTime](http://192.168.0.4:52773/csp/documatic/%25CSP.Documatic.cls?PAGE=CLASS&LIBRARY=APPINT&CLASSNAME=%25Library.DateTime);

Time when the Load Started

• property **TimeEmpty** as [%DateTime](http://192.168.0.4:52773/csp/documatic/%25CSP.Documatic.cls?PAGE=CLASS&LIBRARY=APPINT&CLASSNAME=%25Library.DateTime);

Time when the Load Completed

• property **TravelTime** as [%Integer](http://192.168.0.4:52773/csp/documatic/%25CSP.Documatic.cls?PAGE=CLASS&LIBRARY=APPINT&CLASSNAME=%25Library.Integer);

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

|  |
| --- |
| [**Indices**](http://192.168.0.4:52773/csp/documatic/%25CSP.Documatic.cls?PAGE=CLASS&SHOWCLASSONLY=1&&LIBRARY=APPINT&CLASSNAME=ASPMining.CanonicalModel.Production.DumpEvent) |

•index **(DumpIndex** on **DumpId)** [Unique];

# **ASPMining.CanonicalModel.Production.LoadEvent**

|  |
| --- |
| [**Properties**](http://192.168.0.4:52773/csp/documatic/%25CSP.Documatic.cls?PAGE=CLASS&SHOWCLASSONLY=1&&LIBRARY=APPINT&CLASSNAME=ASPMining.CanonicalModel.Production.LoadEvent) |

• property **EquipmentExcav** as [ASPMining.CanonicalModel.Equipment.Equipment](http://192.168.0.4:52773/csp/documatic/%25CSP.Documatic.cls?PAGE=CLASS&LIBRARY=APPINT&CLASSNAME=ASPMining.CanonicalModel.Equipment.Equipment);

Excavator Link

• property **EquipmentTruck** as [ASPMining.CanonicalModel.Equipment.Equipment](http://192.168.0.4:52773/csp/documatic/%25CSP.Documatic.cls?PAGE=CLASS&LIBRARY=APPINT&CLASSNAME=ASPMining.CanonicalModel.Equipment.Equipment);

Truck Link

• property **Latitude** as [%Float](http://192.168.0.4:52773/csp/documatic/%25CSP.Documatic.cls?PAGE=CLASS&LIBRARY=APPINT&CLASSNAME=%25Library.Float);

GPS of event (if available)

• property **LoadId** as [%BigInt](http://192.168.0.4:52773/csp/documatic/%25CSP.Documatic.cls?PAGE=CLASS&LIBRARY=APPINT&CLASSNAME=%25Library.BigInt);

Unique LoadId

• property **Location** as [ASPMining.CanonicalModel.Mine.Location](http://192.168.0.4:52773/csp/documatic/%25CSP.Documatic.cls?PAGE=CLASS&LIBRARY=APPINT&CLASSNAME=ASPMining.CanonicalModel.Mine.Location);

Location where the Dump happened

• property **Longitude** as [%Float](http://192.168.0.4:52773/csp/documatic/%25CSP.Documatic.cls?PAGE=CLASS&LIBRARY=APPINT&CLASSNAME=%25Library.Float);

GPS of event (if available)

• property **MeasuredTons** as [%Float](http://192.168.0.4:52773/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://192.168.0.4:52773/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://192.168.0.4:52773/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://192.168.0.4:52773/csp/documatic/%25CSP.Documatic.cls?PAGE=CLASS&LIBRARY=APPINT&CLASSNAME=ASPMining.CanonicalModel.Planning.Shift);

Shift when this Load Happened

• property **TimeArrive** as [%DateTime](http://192.168.0.4:52773/csp/documatic/%25CSP.Documatic.cls?PAGE=CLASS&LIBRARY=APPINT&CLASSNAME=%25Library.DateTime);

Time when the Truck Arrived

• property **TimeFull** as [%DateTime](http://192.168.0.4:52773/csp/documatic/%25CSP.Documatic.cls?PAGE=CLASS&LIBRARY=APPINT&CLASSNAME=%25Library.DateTime);

Time when the Load Completed

• property **TimeLoad** as [%DateTime](http://192.168.0.4:52773/csp/documatic/%25CSP.Documatic.cls?PAGE=CLASS&LIBRARY=APPINT&CLASSNAME=%25Library.DateTime);

Time when the Load Started

• property **TravelTime** as [%Integer](http://192.168.0.4:52773/csp/documatic/%25CSP.Documatic.cls?PAGE=CLASS&LIBRARY=APPINT&CLASSNAME=%25Library.Integer);

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

|  |
| --- |
| [**Indices**](http://192.168.0.4:52773/csp/documatic/%25CSP.Documatic.cls?PAGE=CLASS&SHOWCLASSONLY=1&&LIBRARY=APPINT&CLASSNAME=ASPMining.CanonicalModel.Production.LoadEvent) |

•index **(LoadIndex** on **LoadId)** [Unique];

# **ASPMining.CanonicalModel.Production.ProcessTimes**

|  |
| --- |
| [**Properties**](http://192.168.0.4:52773/csp/documatic/%25CSP.Documatic.cls?PAGE=CLASS&SHOWCLASSONLY=1&&LIBRARY=APPINT&CLASSNAME=ASPMining.CanonicalModel.Production.ProcessTimes) |

• property **ExpectedTime** as [%Integer](http://192.168.0.4:52773/csp/documatic/%25CSP.Documatic.cls?PAGE=CLASS&LIBRARY=APPINT&CLASSNAME=%25Library.Integer);

ExpectedTime for this process at this site in seconds

• property **Location** as [ASPMining.CanonicalModel.Mine.Location](http://192.168.0.4:52773/csp/documatic/%25CSP.Documatic.cls?PAGE=CLASS&LIBRARY=APPINT&CLASSNAME=ASPMining.CanonicalModel.Mine.Location);

Location for this site

• property **ProductionStatusType** as [ProductionStatusType](http://192.168.0.4:52773/csp/documatic/%25CSP.Documatic.cls?PAGE=CLASS&LIBRARY=APPINT&CLASSNAME=ASPMining.CanonicalModel.Production.ProductionStatusType);

Production Type of the process, this table should not have "traveling" types

|  |
| --- |
| [**Indices**](http://192.168.0.4:52773/csp/documatic/%25CSP.Documatic.cls?PAGE=CLASS&SHOWCLASSONLY=1&&LIBRARY=APPINT&CLASSNAME=ASPMining.CanonicalModel.Production.ProcessTimes) |

•index **(LocationIndex** on **Location)**;

•index **(ProductionStatusTypeIndex** on **ProductionStatusType)** [Type = bitmap];

# **ASPMining.CanonicalModel.Production.ProductionEvent**

This table holds all the ProductionEvents of the production cycle in one table: Transit to Load, Waiting to Load, Loading, Transit to Dump, Waiting for Dump and Dumping

|  |
| --- |
| [**Properties**](http://192.168.0.4:52773/csp/documatic/%25CSP.Documatic.cls?PAGE=CLASS&SHOWCLASSONLY=1&&LIBRARY=APPINT&CLASSNAME=ASPMining.CanonicalModel.Production.ProductionEvent) |

• property **Duration** as [%Double](http://192.168.0.4:52773/csp/documatic/%25CSP.Documatic.cls?PAGE=CLASS&LIBRARY=APPINT&CLASSNAME=%25Library.Double);

Duration of the Event in Seconds

• property **Equipment** as [ASPMining.CanonicalModel.Equipment.Equipment](http://192.168.0.4:52773/csp/documatic/%25CSP.Documatic.cls?PAGE=CLASS&LIBRARY=APPINT&CLASSNAME=ASPMining.CanonicalModel.Equipment.Equipment);

Equipment asociated, must exist

• property **EquipmentExcav** as [ASPMining.CanonicalModel.Equipment.Equipment](http://192.168.0.4:52773/csp/documatic/%25CSP.Documatic.cls?PAGE=CLASS&LIBRARY=APPINT&CLASSNAME=ASPMining.CanonicalModel.Equipment.Equipment);

Equipment Excav, must exist

• property **EquipmentTruck** as [ASPMining.CanonicalModel.Equipment.Equipment](http://192.168.0.4:52773/csp/documatic/%25CSP.Documatic.cls?PAGE=CLASS&LIBRARY=APPINT&CLASSNAME=ASPMining.CanonicalModel.Equipment.Equipment);

Equipment Truck, must exist

• property **Id** as [%BigInt](http://192.168.0.4:52773/csp/documatic/%25CSP.Documatic.cls?PAGE=CLASS&LIBRARY=APPINT&CLASSNAME=%25Library.BigInt);

Unique Id

• property **Location** as [ASPMining.CanonicalModel.Mine.Location](http://192.168.0.4:52773/csp/documatic/%25CSP.Documatic.cls?PAGE=CLASS&LIBRARY=APPINT&CLASSNAME=ASPMining.CanonicalModel.Mine.Location);

Location where event happens, should exist

• property **MeasuredTons** as [%Double](http://192.168.0.4:52773/csp/documatic/%25CSP.Documatic.cls?PAGE=CLASS&LIBRARY=APPINT&CLASSNAME=%25Library.Double);

Measured Tons related to this event

• property **OperatorExcav** as [ASPMining.CanonicalModel.Personnel.Operator](http://192.168.0.4:52773/csp/documatic/%25CSP.Documatic.cls?PAGE=CLASS&LIBRARY=APPINT&CLASSNAME=ASPMining.CanonicalModel.Personnel.Operator);

Equipment Excav, must exist

• property **OperatorTruck** as [ASPMining.CanonicalModel.Personnel.Operator](http://192.168.0.4:52773/csp/documatic/%25CSP.Documatic.cls?PAGE=CLASS&LIBRARY=APPINT&CLASSNAME=ASPMining.CanonicalModel.Personnel.Operator);

Equipment Truck, must exist

• property **PreviousLocation** as [ASPMining.CanonicalModel.Mine.Location](http://192.168.0.4:52773/csp/documatic/%25CSP.Documatic.cls?PAGE=CLASS&LIBRARY=APPINT&CLASSNAME=ASPMining.CanonicalModel.Mine.Location);

Target Location where the equipment came from, only exists when this event is a moving ProductionEventType e.g: transitToDump, transitToLoad

• property **ProductionStatusType** as [ProductionStatusType](http://192.168.0.4:52773/csp/documatic/%25CSP.Documatic.cls?PAGE=CLASS&LIBRARY=APPINT&CLASSNAME=ASPMining.CanonicalModel.Production.ProductionStatusType);

Production Status Type: loading, dump, waiting, etc.

• property **Shift** as [ASPMining.CanonicalModel.Planning.Shift](http://192.168.0.4:52773/csp/documatic/%25CSP.Documatic.cls?PAGE=CLASS&LIBRARY=APPINT&CLASSNAME=ASPMining.CanonicalModel.Planning.Shift);

Shift where that event belongs to

• property **StartTime** as [%DateTime](http://192.168.0.4:52773/csp/documatic/%25CSP.Documatic.cls?PAGE=CLASS&LIBRARY=APPINT&CLASSNAME=%25Library.DateTime);

Registration Time of the Event

|  |
| --- |
| [**Indices**](http://192.168.0.4:52773/csp/documatic/%25CSP.Documatic.cls?PAGE=CLASS&SHOWCLASSONLY=1&&LIBRARY=APPINT&CLASSNAME=ASPMining.CanonicalModel.Production.ProductionEvent) |

•index **(EquipmentIndex** on **Equipment)** [Type = bitmap];

•index **(IdIndex** on **Id)** [Unique];

•index **(LocationIndex** on **Location)** [Type = bitmap];

•index **(PreviousLocationIndex** on **PreviousLocation)** [Type = bitmap];

•index **(ShiftIndex** on **Shift)** [Type = bitmap];

•index **(StartTimeIndex** on **StartTime)**;

# **ASPMining.CanonicalModel.Production.ProductionEventSliced**

|  |
| --- |
| [**Parameters**](http://192.168.0.4:52773/csp/documatic/%25CSP.Documatic.cls?PAGE=CLASS&SHOWCLASSONLY=1&&LIBRARY=APPINT&CLASSNAME=ASPMining.CanonicalModel.Production.ProductionEventSliced) |

• parameter **DSTIME** = "AUTO";

|  |
| --- |
| [**Properties**](http://192.168.0.4:52773/csp/documatic/%25CSP.Documatic.cls?PAGE=CLASS&SHOWCLASSONLY=1&&LIBRARY=APPINT&CLASSNAME=ASPMining.CanonicalModel.Production.ProductionEventSliced) |

• property **DumpLocation** as [ASPMining.CanonicalModel.Mine.Location](http://192.168.0.4:52773/csp/documatic/%25CSP.Documatic.cls?PAGE=CLASS&LIBRARY=APPINT&CLASSNAME=ASPMining.CanonicalModel.Mine.Location);

Location of origin of the cycle

• property **EquipmentExcav** as [ASPMining.CanonicalModel.Equipment.Equipment](http://192.168.0.4:52773/csp/documatic/%25CSP.Documatic.cls?PAGE=CLASS&LIBRARY=APPINT&CLASSNAME=ASPMining.CanonicalModel.Equipment.Equipment);

Excavator Link

• property **EquipmentTruck** as [ASPMining.CanonicalModel.Equipment.Equipment](http://192.168.0.4:52773/csp/documatic/%25CSP.Documatic.cls?PAGE=CLASS&LIBRARY=APPINT&CLASSNAME=ASPMining.CanonicalModel.Equipment.Equipment);

Truck Link

• property **EventEndDate** as [%DateTime](http://192.168.0.4:52773/csp/documatic/%25CSP.Documatic.cls?PAGE=CLASS&LIBRARY=APPINT&CLASSNAME=%25Library.DateTime);

Real End date of the event

• property **EventStartDate** as [%DateTime](http://192.168.0.4:52773/csp/documatic/%25CSP.Documatic.cls?PAGE=CLASS&LIBRARY=APPINT&CLASSNAME=%25Library.DateTime);

Event Start Date INSIDE this time slot

• property **LoadLocation** as [ASPMining.CanonicalModel.Mine.Location](http://192.168.0.4:52773/csp/documatic/%25CSP.Documatic.cls?PAGE=CLASS&LIBRARY=APPINT&CLASSNAME=ASPMining.CanonicalModel.Mine.Location);

Location of origin of the cycle

• property **MeasuredTons** as [%Double](http://192.168.0.4:52773/csp/documatic/%25CSP.Documatic.cls?PAGE=CLASS&LIBRARY=APPINT&CLASSNAME=%25Library.Double);

Measured tons of the Dump (if available)

• property **PartialDuration** as [%Double](http://192.168.0.4:52773/csp/documatic/%25CSP.Documatic.cls?PAGE=CLASS&LIBRARY=APPINT&CLASSNAME=%25Library.Double);

Calculated duration of the event

• property **ProductionStatusType** as [ProductionStatusType](http://192.168.0.4:52773/csp/documatic/%25CSP.Documatic.cls?PAGE=CLASS&LIBRARY=APPINT&CLASSNAME=ASPMining.CanonicalModel.Production.ProductionStatusType);

Status Type Link

• property **Shift** as [ASPMining.CanonicalModel.Planning.Shift](http://192.168.0.4:52773/csp/documatic/%25CSP.Documatic.cls?PAGE=CLASS&LIBRARY=APPINT&CLASSNAME=ASPMining.CanonicalModel.Planning.Shift);

Shift where this event happened

• property **SliceStartDate** as [%DateTime](http://192.168.0.4:52773/csp/documatic/%25CSP.Documatic.cls?PAGE=CLASS&LIBRARY=APPINT&CLASSNAME=%25Library.DateTime);

Start date of the event

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| [**Indices**](http://192.168.0.4:52773/csp/documatic/%25CSP.Documatic.cls?PAGE=CLASS&SHOWCLASSONLY=1&&LIBRARY=APPINT&CLASSNAME=ASPMining.CanonicalModel.Production.ProductionEventSliced) |

•index **(PartialDurationIndex** on **PartialDuration)** [Type = bitslice];

•index **(SliceStartTimeIndex** on **SliceStartDate)** [Type = index];

•index **(ddbkeyIndex** on **ddbkey)** [Type = index];

# **ASPMining.CanonicalModel.Production.ProductionStatusType**

Standarized Production Status. These status are 100% related to the production cycle and are independant of the Operation Status.

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| [**Properties**](http://192.168.0.4:52773/csp/documatic/%25CSP.Documatic.cls?PAGE=CLASS&SHOWCLASSONLY=1&&LIBRARY=APPINT&CLASSNAME=ASPMining.CanonicalModel.Production.ProductionStatusType) |

• property **Description** as [%String](http://192.168.0.4:52773/csp/documatic/%25CSP.Documatic.cls?PAGE=CLASS&LIBRARY=APPINT&CLASSNAME=%25Library.String);

Description of the status, e.g: TransitToDumpSite, TransitToLoadSite, Loading, Dumping, WaitingForLoad, WaitingForDump. Very important for Production KPIs

• property **Type** as [%Integer](http://192.168.0.4:52773/csp/documatic/%25CSP.Documatic.cls?PAGE=CLASS&LIBRARY=APPINT&CLASSNAME=%25Library.Integer);

Type of the status, e.g: 1,2,3,4,5,6

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| [**Methods**](http://192.168.0.4:52773/csp/documatic/%25CSP.Documatic.cls?PAGE=CLASS&SHOWCLASSONLY=1&&LIBRARY=APPINT&CLASSNAME=ASPMining.CanonicalModel.Production.ProductionStatusType) |

• classMétodo **CreateTypes()**

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| [**Indices**](http://192.168.0.4:52773/csp/documatic/%25CSP.Documatic.cls?PAGE=CLASS&SHOWCLASSONLY=1&&LIBRARY=APPINT&CLASSNAME=ASPMining.CanonicalModel.Production.ProductionStatusType) |

•index **(TypeIndex** on **Type)** [Unique];