ASP Mining Starter Pack - Data Dictionary Cubes

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| **Version** | **Author** | **Comments** |
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# **ASPMining.Analytics.EquipmentCube**

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

• measure **Capacity** (enabled)

sourceProperty: Capacity  
• measure **LastActivity** (enabled)

sourceProperty: LastUnifiedEvent.EventDateTime

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

• dimension **Equipment** (enabled)

• hierarchy **H1** (enabled)

• level **CategoryName** (enabled, type=data, sourceProperty=EquipmentCategory.Description) with display name = Group Name  
*[Equipment>H1>CategoryName]*

• level **EquipmentName** (enabled, type=data, sourceProperty=Name) with display name = Equipment Name  
*[Equipment>H1>EquipmentName]*

• dimension **LastActivity** (enabled)

sourceProperty: LastUnifiedEvent.EventDateTime

• hierarchy **H1** (enabled)

• level **EventDateDay** (enabled, type=time)  
*[LastActivity>H1>EventDateDay]*

• level **EventDateHour** (enabled, type=time)  
*[LastActivity>H1>EventDateHour]*

• level **EventDateMinute** (enabled, type=time)  
*[LastActivity>H1>EventDateMinute]*

• dimension **Model** (enabled)

• hierarchy **H1** (enabled)

• level **Model** (enabled, type=data, sourceProperty=EquipmentModel.Description) with display name = Equipment Model  
*[Model>H1>Model]*

# **ASPMining.Analytics.OEMEventsCube**

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

• measure **Value** (enabled)

sourceProperty: Value

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

• dimension **Event** (enabled)

sourceProperty: ReadTime

• hierarchy **H1** (enabled)

• level **ReadTime** (enabled, type=time)  
*[Event>H1>ReadTime]*

• dimension **Name** (enabled)

• hierarchy **H1** (enabled)

• level **EquipmentName** (enabled, type=data, sourceProperty=Equipment.Name)  
*[Name>H1>EquipmentName]*

• hierarchy **H2** (enabled)

• level **EquipmentModel** (enabled, type=data, sourceProperty=Equipment.EquipmentModel.Description)  
*[Name>H2>EquipmentModel]*

• hierarchy **H3** (enabled)

• level **EquipmentCategory** (enabled, type=data, sourceProperty=Equipment.EquipmentCategory.Description)  
*[Name>H3>EquipmentCategory]*

# **ASPMining.Analytics.ProductionEventsCube**

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

• measure **Capacity** (enabled)

sourceProperty: Equipment.Capacity

• measure **Duration** (enabled)

sourceProperty: Duration

• measure **MeasuredTons** (enabled)

sourceProperty: MeasuredTons

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

• dimension **Equipment** (enabled)

• hierarchy **H2** (enabled)

• level **Category** (enabled, type=data, sourceProperty=Equipment.EquipmentCategory.Description)  
*[Equipment>H2>Category]*

• hierarchy **H1** (enabled)

• level **Name** (enabled, type=data, sourceProperty=Equipment.Name)  
*[Equipment>H1>Name]*

• hierarchy **H3** (enabled)

• level **Model** (enabled, type=data, sourceProperty=Equipment.EquipmentModel.Description)  
*[Equipment>H3>Model]*

• dimension **Location** (enabled)

• hierarchy **H1** (enabled)

• level **Name** (enabled, type=data, sourceProperty=Location.Name)  
*[Location>H1>Name]*

• hierarchy **H2** (enabled)

• level **Grade** (enabled, type=data, sourceProperty=Location.Grade)  
*[Location>H2>Grade]*

• dimension **PreviousLocation** (enabled)

• hierarchy **H1** (enabled)

• level **Name** (enabled, type=data, sourceProperty=PreviousLocation.Name)  
*[PreviousLocation>H1>Name]*

• hierarchy **H2** (enabled)

• level **Grade** (enabled, type=data, sourceProperty=PreviousLocation.Grade)  
*[PreviousLocation>H2>Grade]*

• dimension **ProductionStatus** (enabled)

• hierarchy **H1** (enabled)

• level **Description** (enabled, type=data, sourceProperty=ProductionStatusType.Description)  
*[ProductionStatus>H1>Description]*

• dimension **Shift** (enabled)

• hierarchy **H1** (enabled)

• level **Id** (enabled, type=data, sourceProperty=Shift.Id)  
*[Shift>H1>Id]*

• hierarchy **H2** (enabled)

• level **Type** (enabled, type=data, sourceProperty=Shift.ShiftType.Type)  
*[Shift>H2>Type]*

• dimension **StartTime** (enabled)

sourceProperty: StartTime

• hierarchy **H1** (enabled)

• level **StartTimeDay** (enabled, type=time)  
*[StartTime>H1>StartTimeDay]*

• level **StartTimeHour** (enabled, type=time)  
*[StartTime>H1>StartTimeHour]*

• level **StartTimeMinute** (enabled, type=time)  
*[StartTime>H1>StartTimeMinute]*

# **ASPMining.Analytics.StatusEventSlicedCube**

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

• measure **PartialDuration** (enabled)

sourceProperty: PartialDuration

• measure **PartialDurationAVG** (enabled)

sourceProperty: PartialDuration

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

• dimension **Equipment** (enabled)

• hierarchy **H1** (enabled)

• level **Category** (enabled, type=data, sourceProperty=Equipment.EquipmentCategory.Name) with display name = Category  
*[Equipment>H1>Category]*

• level **Name** (enabled, type=data, sourceProperty=Equipment.Name) with display name = Name  
*[Equipment>H1>Name]*

• dimension **Reason** (enabled)

• hierarchy **H1** (enabled)

• level **Description** (enabled, type=data, sourceProperty=StatusReason.Description)  
*[Reason>H1>Description]*

• dimension **ShiftDate** (enabled)

sourceProperty: Shift.DateTime

• hierarchy **H1** (enabled)

• level **DateTimeYear** (enabled, type=time)  
*[ShiftDate>H1>DateTimeYear]*

• level **DateTimeMonth** (enabled, type=time)  
*[ShiftDate>H1>DateTimeMonth]*

• level **DateTimeDay** (enabled, type=time)  
*[ShiftDate>H1>DateTimeDay]*

• level **DateTimeMinute** (enabled, type=time)  
*[ShiftDate>H1>DateTimeMinute]*

• dimension **ShiftInfo** (enabled)

• hierarchy **H1** (enabled)

• level **ShiftId** (enabled, type=data, sourceProperty=Shift.Id)  
*[ShiftInfo>H1>ShiftId]*

• hierarchy **H2** (enabled)

• level **ShiftType** (enabled, type=data, sourceProperty=Shift.ShiftType.Type)  
*[ShiftInfo>H2>ShiftType]*

• hierarchy **H3** (enabled)

• level **CrewName** (enabled, type=data, sourceProperty=Shift.Crew.Name)  
*[ShiftInfo>H3>CrewName]*

• dimension **ShiftType** (enabled)

• hierarchy **H1** (enabled)

• level **Type** (enabled, type=data, sourceProperty=Shift.ShiftType.Type)  
*[ShiftType>H1>Type]*

• dimension **SliceStartDate** (enabled)

sourceProperty: SliceStartDate

• hierarchy **H1** (enabled)

• level **SliceStartDateYear** (enabled, type=time)  
*[SliceStartDate>H1>SliceStartDateYear]*

• level **SliceStartDateMonth** (enabled, type=time)  
*[SliceStartDate>H1>SliceStartDateMonth]*

• level **SliceStartDateDay** (enabled, type=time)  
*[SliceStartDate>H1>SliceStartDateDay]*

• level **SliceStartDateHour** (desenabled, type=time)  
*[SliceStartDate>H1>SliceStartDateHour]*

• level **SliceStartDateMinute** (enabled, type=time)  
*[SliceStartDate>H1>SliceStartDateMinute]*

• dimension **StatusType** (enabled)

• hierarchy **H1** (enabled)

• level **StatusType** (enabled, type=data, sourceProperty=StatusType.Description)  
*[StatusType>H1>StatusType]*

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

• listing **ListingDetails** (enabled) with display name = Equipment Name

Partial Duration

# **ASPMining.Analytics.UnifiedEventsCube**

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

• measure **AvgTravelTime** (enabled)

sourceProperty: Trip.AvgTravelTime

• measure **Capacity** (enabled)

sourceProperty: Equipment.Capacity

• measure **CapacityMax** (enabled)

sourceProperty: Equipment.Capacity

• measure **Duration** (enabled)

sourceProperty: Duration

• measure **MeasuredTons** (enabled)

sourceProperty: ProductionEvent.MeasuredTons

• measure **OperativeDuration** (enabled)

sourceProperty: OperativeDuration

• measure **ReferenceTravelTime** (enabled)

sourceProperty: Trip.ReferenceTravelTime

• measure **StatusEventDuration** (enabled)

sourceProperty: StatusEvent.Duration

• measure **TripTime** (enabled)

sourceProperty: TripTime

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

• dimension **Crew** (enabled)

• hierarchy **H1** (enabled)

• level **CrewName** (enabled, type=data, sourceProperty=Shift.Crew.Name)  
*[Crew>H1>CrewName]*

• dimension **Equipment** (enabled)

• hierarchy **H1** (enabled)

• level **EquipmentCategory** (enabled, type=data, sourceProperty=Equipment.EquipmentCategory.Name)  
*[Equipment>H1>EquipmentCategory]*

• level **EquipmentName** (enabled, type=data, sourceProperty=Equipment.Name)  
*[Equipment>H1>EquipmentName]*

• dimension **EventDateTime** (enabled)

sourceProperty: EventDateTime

• hierarchy **H1** (enabled)

• level **EventDateTimeYear** (enabled, type=time)  
*[EventDateTime>H1>EventDateTimeYear]*

• level **EventDateTimeMonth** (enabled, type=time)  
*[EventDateTime>H1>EventDateTimeMonth]*

• level **EventDateTimeDay** (enabled, type=time)  
*[EventDateTime>H1>EventDateTimeDay]*

• level **EventDateTimeHour** (enabled, type=time)  
*[EventDateTime>H1>EventDateTimeHour]*

• level **EventDateTimeMinute** (enabled, type=time)  
*[EventDateTime>H1>EventDateTimeMinute]*

• dimension **Location** (enabled)

• hierarchy **H1** (enabled)

• level **LocationName** (enabled, type=data, sourceProperty=ProductionEvent.Location.Name)  
*[Location>H1>LocationName]*

• dimension **PreviousLocation** (enabled)

• hierarchy **H1** (enabled)

• level **PreviousLocationName** (enabled, type=data, sourceProperty=ProductionEvent.PreviousLocation.Name)  
*[PreviousLocation>H1>PreviousLocationName]*

• dimension **ProductionEvent** (enabled)

• hierarchy **H1** (enabled)

• level **ProductionStatusType** (enabled, type=data, sourceProperty=ProductionEvent.ProductionStatusType.Description)  
*[ProductionEvent>H1>ProductionStatusType]*

• dimension **ProductionEventStartTime** (enabled)

sourceProperty: ProductionEvent.StartTime

• hierarchy **H1** (enabled)

• level **ProductionEventStartTimeDay** (enabled, type=time)  
*[ProductionEventStartTime>H1>ProductionEventStartTimeDay]*

• level **ProductionEventStartTimeMinute** (enabled, type=time)  
*[ProductionEventStartTime>H1>ProductionEventStartTimeMinute]*

• dimension **ShiftDateTime** (enabled)

sourceProperty: Shift.DateTime

• hierarchy **H1** (enabled)

• level **ShiftDateTimeDay** (enabled, type=time)  
*[ShiftDateTime>H1>ShiftDateTimeDay]*

• level **ShiftDateTimeHour** (enabled, type=time)  
*[ShiftDateTime>H1>ShiftDateTimeHour]*

• dimension **ShiftType** (enabled)

• hierarchy **H1** (enabled)

• level **Type** (enabled, type=data, sourceProperty=Shift.ShiftType.Type)  
*[ShiftType>H1>Type]*

• level **Id** (enabled, type=data, sourceProperty=Shift.Id)  
*[ShiftType>H1>Id]*

• dimension **StatusEvent** (enabled)

• hierarchy **H1** (enabled)

• level **StatusReason** (enabled, type=data, sourceProperty=StatusEvent.StatusReason.Description)  
*[StatusEvent>H1>StatusReason]*

• hierarchy **H2** (enabled)

• level **StatusTypeInsideReason** (enabled, type=data, sourceProperty=StatusEvent.StatusReason.StatusType.Description)  
*[StatusEvent>H2>StatusTypeInsideReason]*

• hierarchy **H3** (enabled)

• level **StatusType** (enabled, type=data, sourceProperty=StatusEvent.StatusType.Description)  
*[StatusEvent>H3>StatusType]*

• dimension **StatusEventStartDate** (enabled)

sourceProperty: StatusEvent.StartDate

• hierarchy **H1** (enabled)

• level **StatusEventStartDateDay** (enabled, type=time)  
*[StatusEventStartDate>H1>StatusEventStartDateDay]*

• level **StatusEventStartDateMinute** (enabled, type=time)  
*[StatusEventStartDate>H1>StatusEventStartDateMinute]*

• dimension **Trip** (enabled)

• hierarchy **H1** (enabled)

• level **TripName** (enabled, type=data, sourceProperty=Trip.Name)  
*[Trip>H1>TripName]*

• hierarchy **H2** (enabled)

• level **Destination** (enabled, type=data, sourceProperty=Trip.DestinationLocation.Name)  
*[Trip>H2>Destination]*

• hierarchy **H3** (enabled)

• level **Origin** (enabled, type=data, sourceProperty=Trip.OriginLocation.Name)  
*[Trip>H3>Origin]*

• hierarchy **H4** (enabled)

• level **ReferenceTravelTime** (enabled, type=data, sourceProperty=Trip.ReferenceTravelTime)  
*[Trip>H4>ReferenceTravelTime]*

• hierarchy **H5** (enabled)

• level **TravelCount** (enabled, type=data, sourceProperty=Trip.TravelCount)  
*[Trip>H5>TravelCount]*

• hierarchy **H6** (enabled)

• level **TotalTravelTime** (enabled, type=data, sourceProperty=Trip.TotalTravelTime)  
*[Trip>H6>TotalTravelTime]*

• dimension **TripTime** (enabled)

• hierarchy **H1** (enabled)

• level **TripTime** (enabled, type=data, sourceProperty=TripTime)  
*[TripTime>H1>TripTime]*

• hierarchy **H2** (enabled)

• level **ReferenceTravelTime** (enabled, type=data, sourceProperty=Trip.ReferenceTravelTime)  
*[TripTime>H2>ReferenceTravelTime]*

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

• listing **Listado1** (enabled)

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

• calculated member **CapacityPerformance** (enabled)

dimension: memberDimension

valueExpression: [Measures].[MeasuredTons]/ [Measures].[Capacity]

• calculated member **OEE** (enabled)

dimension: memberDimension

valueExpression: [MEMBERDIMENSION].[Utilization]\* [MEMBERDIMENSION].[CapacityPerformance]\* [MEMBERDIMENSION].[TimePerformance]

• calculated member **TimePerformance** (enabled)

dimension: memberDimension

valueExpression: [Measures].[AvgTravelTime]/[Measures].[TripTime]

• calculated member **Utilization** (enabled)

dimension: memberDimension

valueExpression: [Measures].[OperativeDuration] / [Measures].[Duration]