











DATES & TIMES

```
<EntityType Name="SalesOrder" sap:content-version="1">
  <Key>
    <PropertyRef Name="SalesOrderId"/>
  </Key>
  <Property Name="SalesOrderId" Type="Edm.String" Nullable="false" MaxLength="18" sap:label="Sales Document" sap:creatable="false" sap:updatable="false"/>
  <Property Name="SalesOrderDate" Type="Edm.DateTimeOffset" Precision="7" sap:label="Document Date" sap:creatable="false" sap:updatable="false" sap:filterable="false"/>
  <NavigationProperty Name="Customer" Relationship="ZDEMO_SRV.Customer_SalesOrder" FromRole="ToRole_Customer_SalesOrder" ToRole="FromRole_Customer_SalesOrder"/>
  <NavigationProperty Name="SalesOrderItems" Relationship="ZDEMO_SRV.SalesOrder_Items" FromRole="FromRole_SalesOrder_Items" ToRole="ToRole_SalesOrder_Items"/>
</EntityType>
```

Use `Edm.DateTimeOffset` for date/time/timestamp properties

Don't be tempted to use `Edm.String` “for convenience”

`Edm.DateTime` replaced in oData V4 specification





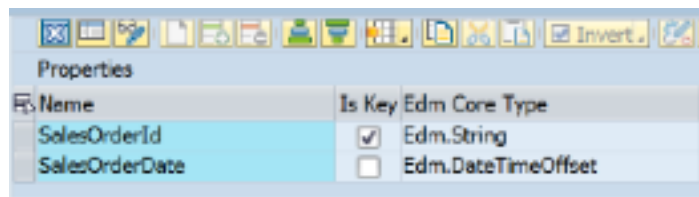


## Properties

F6	Name	Is Key	Edm Core Type
	SalesOrderId	<input checked="" type="checkbox"/>	Edm.String
	SalesOrderDate	<input type="checkbox"/>	Edm.DateTimeOffset

```
= <content type="application/xml">
  = <m:properties xmlns:m="http://schemas.microsoft.com/ado/2007/08/dataservi
    <d:SalesOrderId>600000008</d:SalesOrderId>
    <d:SalesOrderDate>2006-10-19T00:00:00Z</d:SalesOrderDate>
  </m:properties>
</content>
```

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Name	Is Key	Edm Core Type
SalesOrderId	<input checked="" type="checkbox"/>	Edm.String
SalesOrderDate	<input type="checkbox"/>	Edm.DateTimeOffset

```
- <content type="application/xml">
  - <m:properties xmlns:m="http://schemas.microsoft.com/ado/2007/08/dataservices/m" >
    <d:SalesOrderId>600000008 </ d:SalesOrderId>
    <d:SalesOrderDate>2006-10-19T00:00:00Z </ d:SalesOrderDate>
  </m:properties>
</ content>
```

```
<EntityType Name="SalesOrder" sap:content-version="1">
  <Key>
    <PropertyRef Name="SalesOrderId"/>
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  <Property Name="SalesOrderId" Type="Edm.String" Nullable="false" MaxLength="18" sap:label="Sales Document" sap:creatable="false" sap:updatable="false"/>
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  <NavigationProperty Name="Customer" Relationship="ZDEMO_SRV.Customer_SalesOrder" FromRole="ToRole_Customer_SalesOrder" ToRole="FromRole_Customer_SalesOrder"/>
  <NavigationProperty Name="SalesOrderItems" Relationship="ZDEMO_SRV.SalesOrder_Items" FromRole="FromRole_SalesOrder_Items" ToRole="ToRole_SalesOrder_Items"/>
</EntityType>
```

Use **Edm.DateTimeOffset** for date/time/timestamp properties

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# AGENDA

- Some Warnings
- Service Design
- **Code patterns for reusability**
- Code patterns for extensibility

