

News from the odata V4 Model

Latest Features and Innovations



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Agenda



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Latest Binding Capabilities

Expensive Properties, Upsert,
OneWay Property Bindings for Objects

Expensive Navigation Properties

- v4.ODataListBinding: [\\$\\$separate](#)
- Parallel loading of single-valued navigation properties
- Better UX by improved performance

From

GET EntitySet?\$select=ID,Name&\$expand=NotExpensive,**Expensive**

To

GET EntitySet?\$select=ID,Name&\$expand=NotExpensive

GET EntitySet?\$expand=**Expensive**

Expensive Navigation Properties

Handle Loaded Data with [separateReceived](#) Event

```
oListBinding.attachSeparateReceived(async (oEvent) => {  
    const {property, start, length} = oEvent.getParameters();  
  
    const aContexts = await oListBinding.requestContexts(start, length);  
    const aResults = aContexts.map((oContext) => oContext.getObject(property));  
    // ...  
});
```



Expensive Navigation Properties

Handle Errors with separateReceived Event

```
oListBinding.attachSeparateReceived(async (oEvent) => {  
    const aErrors = oEvent.getParameter("messagesOnError");  
  
    if (aErrors) {  
        const aMessages = aErrors.map((oMessage) => oMessage.getMessage());  
        MessageBox.error(aMessages.join("\n"));  
    }  
});
```



Upsert

- Create an entity
- Associated by single-valued navigation property
- Intuitive usage via TwoWay bindings
- Optional APIs
 - [v4.Context#setProperty](#)
 - [v4.Context#resetChanges](#)

OneWay Property Bindings for Object Values

- Support OneWay bindings for complex types
- Bound objects can be used for formatter functions

```
<Text text="{  
  path    : 'Address',  
  mode    : 'OneWay',  
  formatter : '.formatAddress',  
  targetType : 'any'  
}" />
```




Aggregations

Data Aggregation and Hierarchy Support

Allow to filter by aggregated properties

- | Purchasing Document Items (125) | | Standard * ▾ | |
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| > Company | | Show Details | 100,00 EUR |
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| > Company | | Show Details | -163,20 EUR |
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Recursive Hierarchy

Additional features provided in the last year

- Expand/Collapse a node completely
 - Model API: [v4.Context#expand](#) and [v4.Context#collapse](#)
- Copy & Paste of nodes
 - Model API: [v4.Context#move](#)
- Create in backend position (instead of showing a newly created node as the first sibling)
 - Model API: [v4.ODataListBinding#setAggregation](#), parameter `createInPlace`
 - Fiori elements: option `createInPlace` for the `creationMode` as documented in [Tree Tables](#)

Backend availability

- RAP: Available with the 2502 release
- CAP (Java and Node): available as Beta
 - Note also the session "**TreeTables Support in CAP**" at reCAP on 2025-07-09 in the Blue room at 16:00



Selection

Selection

The OData V4 model is now managing selection.

- The selection is already used by the tables.
- Documentation: [Selection](#)
- Model APIs
 - [v4.Context#setSelected](#)
 - [v4.Context#isSelected](#)
- Caution: The data of a selected context may not be up to date or available. Always use [requestObject](#) or [requestProperty](#) to access data.
- Vision: Allow to efficiently perform mass operations in the backend using filter segments, `$each` and collection bound actions provided with OData V4.
 - But it is unclear when we will get there.



Expert Corner "UI5 Models"



13:25 – 14:45



Q&A



Got feedback? Let's hear it!



News from the
OData V4 Model

Keynote

Feedback

Overall, how satisfied were you with this session? (5=Very Satisfied)

☐ 5 - Very satisfied

☐ 4 - Satisfied ☐ 3 - Neutral

☐ 2 - Dissatisfied

☐ 1 - Very dissatisfied

How relevant was the session content to your work? (5=Very Relevant)

☐ 5 - Very satisfied

☐ 4 - Satisfied ☐ 3 - Neutral

☐ 2 - Dissatisfied

☐ 1 - Very dissatisfied