SCM. Master-detail-detail Redwood page for Sales Orders with Hash key. Redwood Cookbook 2026. Advanced chapter.

Introduction/Goal

Oracle fusion standard REST APIs sometimes use what is called "Hash keys".

Without knowledge of this feature, you will not be able to use many REST APIs, for example for SCM Sales Orders and a few others.

Explanation from the AI:

In the context of Oracle REST APIs, hash codes are used to uniquely identify resources, particularly when dealing with composite keys. Instead of relying on the client to generate these hash keys, it's recommended to retrieve them by querying the relevant resource collection.

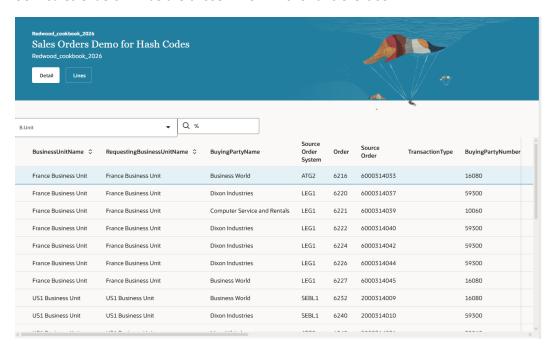
From us:

The hash codes are "special" filters for some REST APIs, usually to access child nodes.

To deal with them you have to "ask" the parent node which is the Hash code for a specific child.

We will build a page with 3 levels (master-detail-detail) using hash codes for the third level to show how these work.

SCM Sales Orders will be the chosen REST APIs for this exercise.

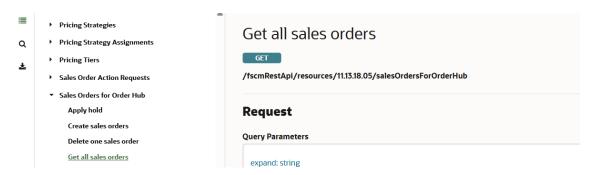


DISCLAIMER: this demo is for investigation, use at your discretion, no guarantee provided.

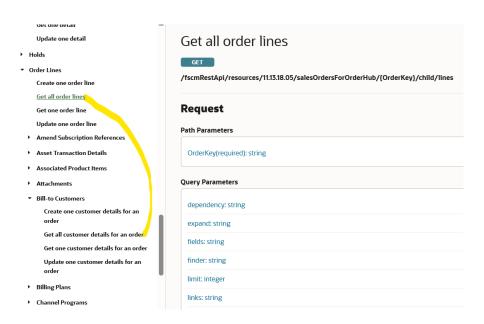
REST API investigation.

https://docs.oracle.com/en/cloud/saas/supply-chain-and-manufacturing/25c/fasrp/op-salesordersfororderhub-get.html

The following REST operation (GET all sales orders) will be used for Master.

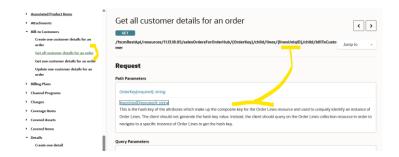


The following REST (GET all order lines) operation ABOVE will be used for first detail.



The following REST (GET all customer details for an order) operation BELOW will be used for second level detail.

Here we see that second parameter is "special", it is something that cannot be queried directly, and do not exist in the SaaS database.



Helper OIC integration to get the Hash Code.

Reference doc.

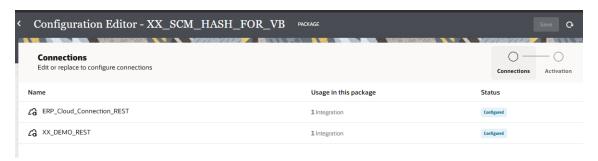
 $\verb|https://community.oracle.com/customerconnect/discussion/850275/how-to-get-hash-key-for-rest-api-input|$

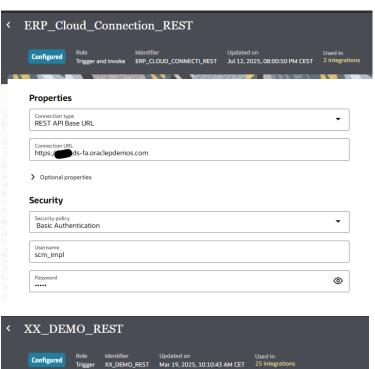
This integration has been built for our convenience; it is easier for us to deal with these types of payloads in OIC.

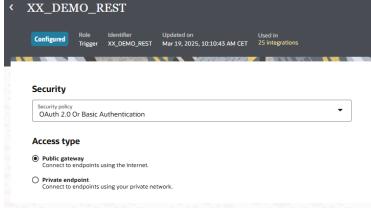
Feel free to investigate how to replicate this approach to finding the Hash keys in your Visual Builder application.

In the OIC integration we will have:

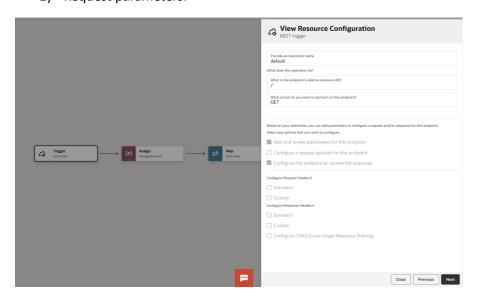
1) These connections.

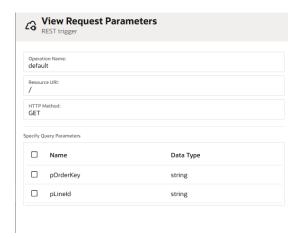




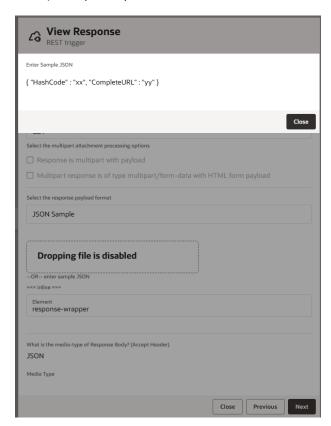


2) Request parameters.

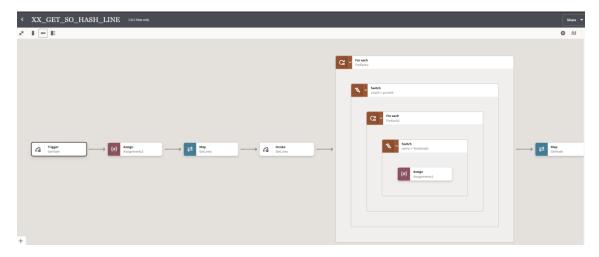




3) Response parameters.

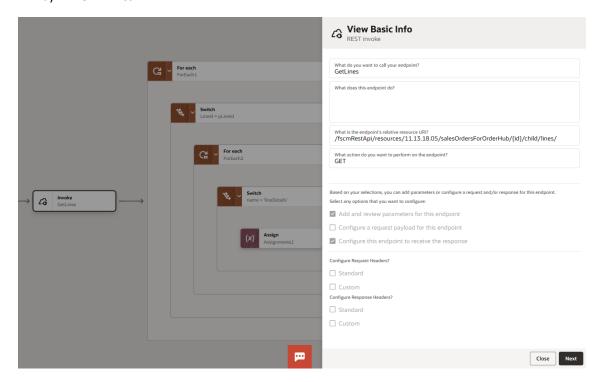


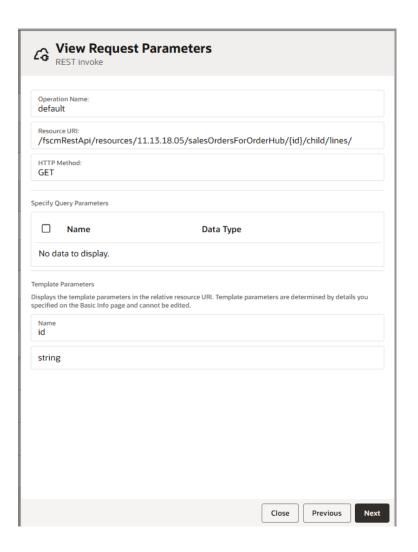
4) General overview.



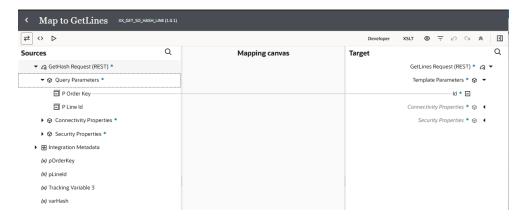
5) Details of the integration.

a) REST API call.





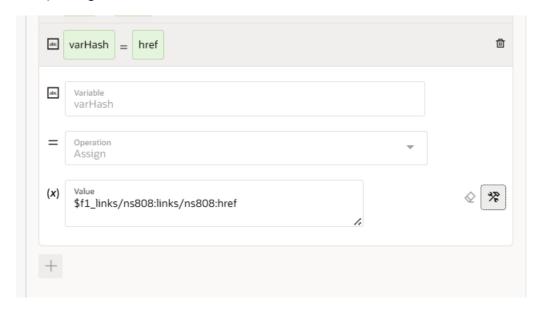




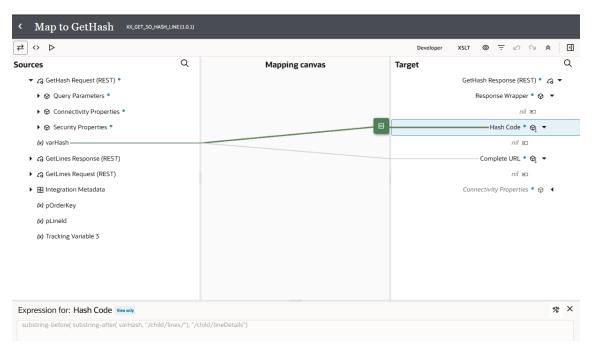
b) We will iterate first in outer loop to find our line, then in inner loop to find our correct HREF node, using name.



c) Assignment.



6) Response mapping.

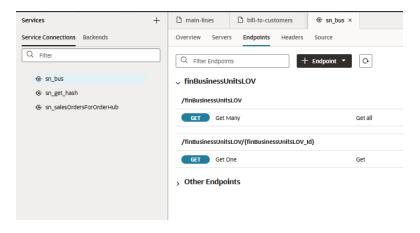


substring-before (substring-after (\$varHash, "/child/lines/"), "/child/lineDetails")

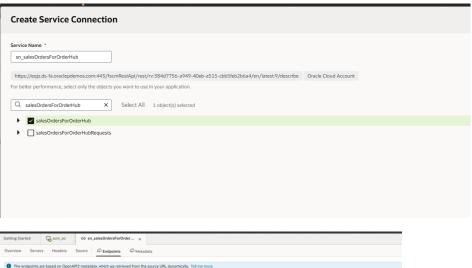
Preparatory steps Visual Builder.

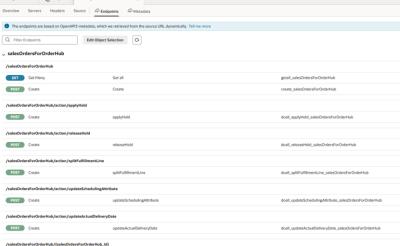
Connections.

1) For Business Units



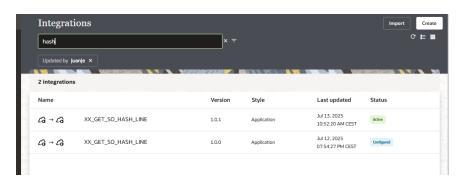
2) For Sales Orders.



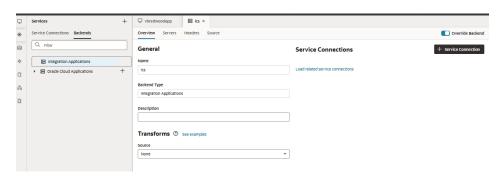


3) To OIC integration, to get the Hash Code.

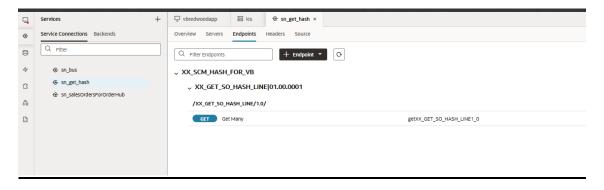
First, our integration must be active.



Then backend should be as shown.



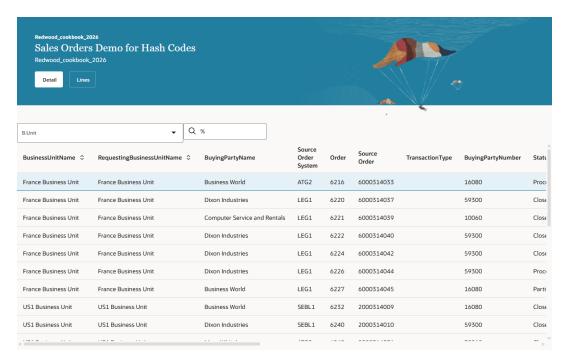
This is the connection and Endpoint.



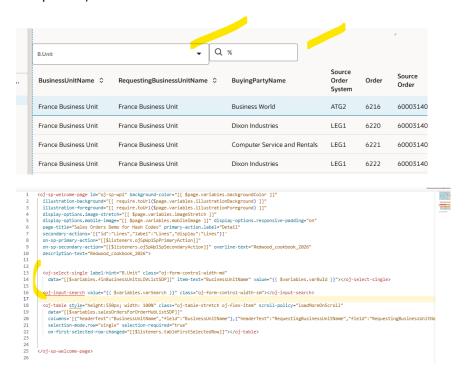
Steps in Visual Builder

We will build a basic master-detail-detail using "Welcome page templates" for the 3 levels for learning purposes.

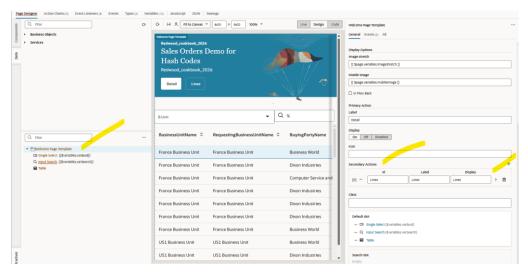
First level. Sales order headers.

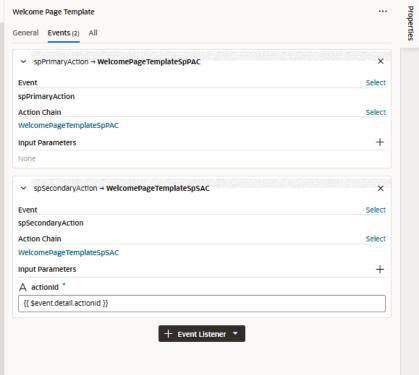


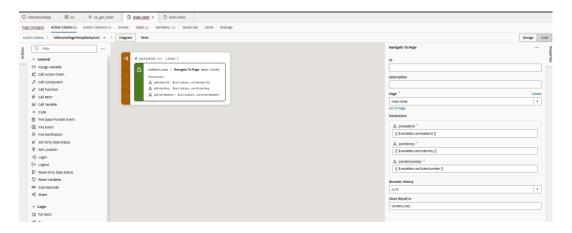
We will filter using Business Unit (Select single component) and Sales Order (Input text component).



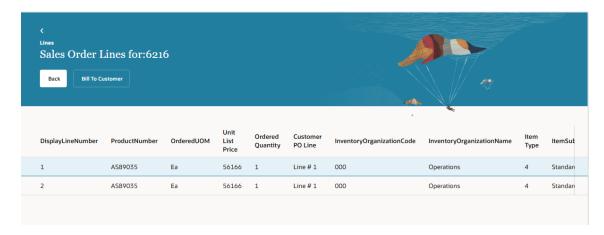
We will access second level from here.



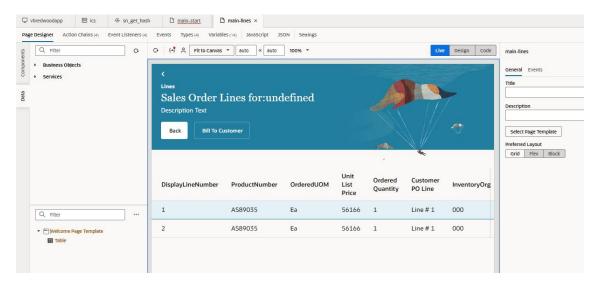




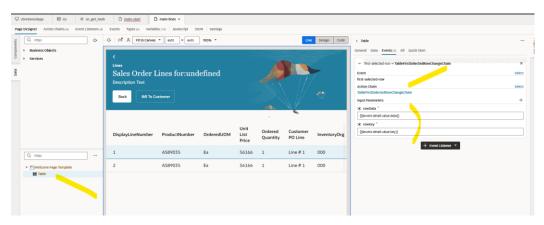
Second level. Lines.

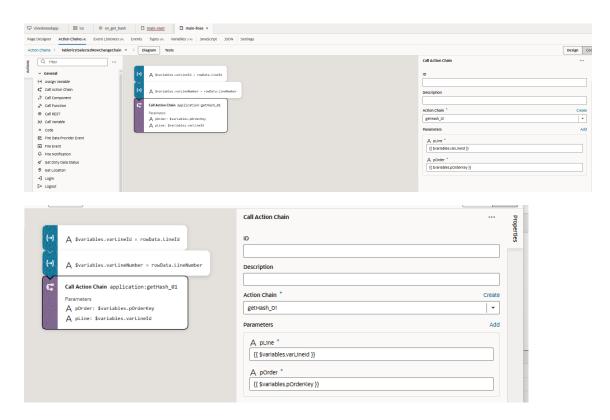


Design mode.

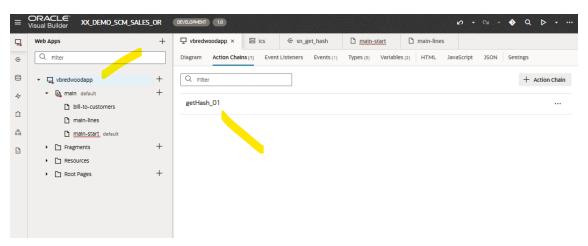


We will calculate Hash Key as we navigate the records in this Action Chain.

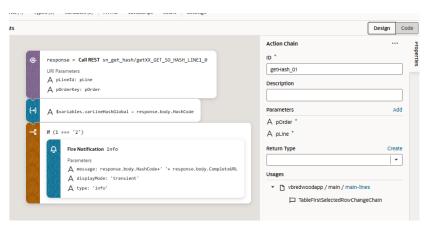




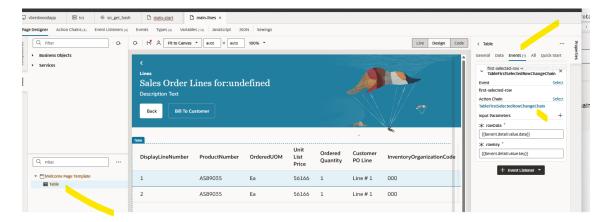
GetHash is at Application level, as shown.



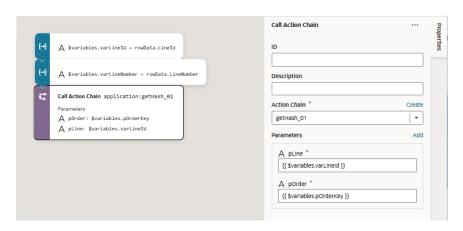
Here we call the OIC integration to find the Hask Key.



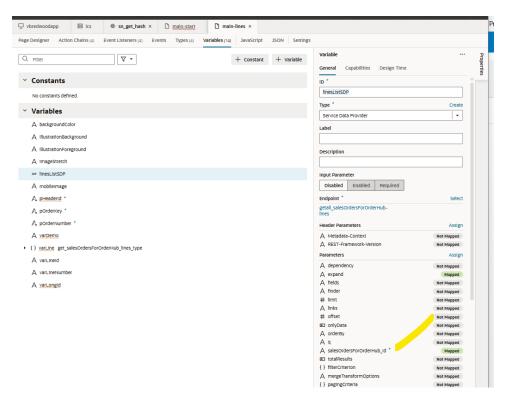
We will access second level page from here.



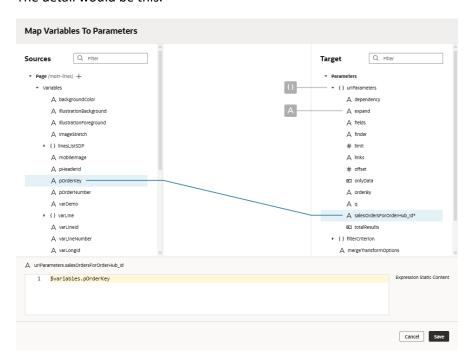
The Action Chain would show as follows.



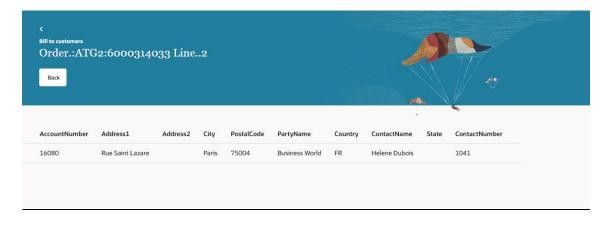
The SDP would have this filter.



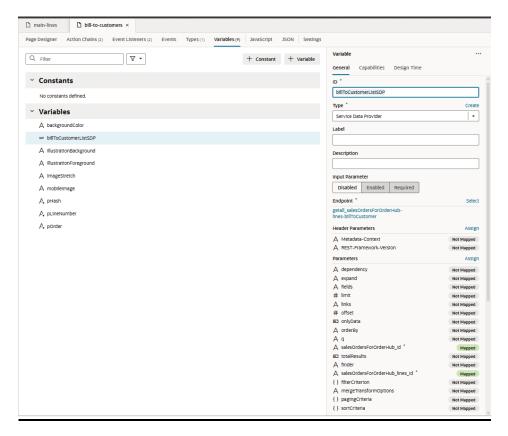
The detail would be this.



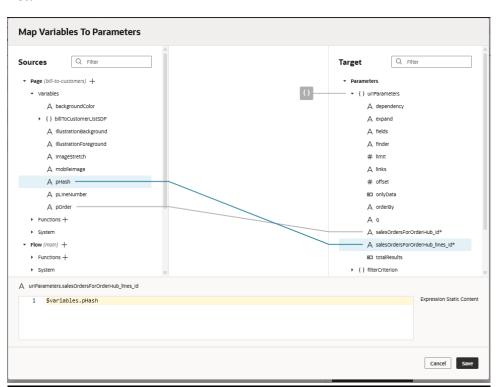
Third level. Bill to data.



Filter in SDP.



Detail.



Conclusion

We have shown how to find and use Hash keys using OIC integration in our Redwood pages in Visual Builder.

We have used SCM Sales Orders for this exercise.

This technique would be needed in plenty of standard Fusion REST API's.

Technical

Code example	Comments
XX_DEMO_SCM_SALES_OR-1.0.zip	Visual builder app. used in this demo.
XX_GET_SO_HASH_LINE_01.00.0001.iar	Integration used to find the Hash Key