Sage 300 Web Screens SDK

Grid Server Interface

May 2019

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1. Introduction

This document is intended to provide information on the server-side grid interface.

There will be three types of grids for the web screens:

* View List
  + sg.viewList
  + Counterpart to the desktop’s **AccpacViewList**
  + Introduced in 2019.2

The only grid to support server-side customization

* Optional Field Control
  + sg.optionalFieldControl
  + Counterpart to the desktop’s **OFCtrl**
  + Introduced in 2019.2

Only supports EDIT mode currently (not SETUP mode)

* Grid Control
  + sg.gridControl
  + Counterpart to the desktop’s **AccpacGrid**
  + Supports a virtual table (i.e. Tax Authorities)

Not yet implemented

1. Customization

By default, server requests for the grid are routed to ***GridDataServiceController*** which is responsible for all CRUD operations against the underlying ACCPAC business view.

When a 3rd party wants to participate in the CRUD operations, it will need to:

1. Create a controller inherited from ***GridDataServiceController*** (i.e.   
   ***MyGridDataServiceController***.)
2. Override the default CRUD operation as needed for the customization
3. Register ***MyGridDataServiceController*** in the 3rd party bootstrapper
4. Define the **GridDataServiceController** property in the grid’s json configuration file (i.e. ***GridDataServiceController***: ***MyGridDataServiceController***)
5. Methods

|  |  |
| --- | --- |
| Name | Description |
| **Read** | Read a page of records starting at a specified position |
| **Create** | Create a new record |
| **Insert** | Create a new record |
| **Update** | Update a record |
| **Refresh** | Put a value into a field and refresh all the fields |
| **MoveTo** | Move the current record to a specified position |
| **Delete** | Delete the current record |

* 1. Read

|  |  |  |
| --- | --- | --- |
| ***ActionResult*** ***Read***((***string*** ***viewID***, ***int*** ***take***, ***int*** ***skip***, ***string*** ***filter***) | | |
| **Description** | Read a page of records starting at a specified position | |
| **Parameters** | ***viewID*** | The guid to the ACCPAC business entity |
|  | ***take*** | The number of records to read |
|  | ***skip*** | The starting point |
|  | ***filter*** | The filter for the ACCPAC business entity |
| **Returns** | A JSON payload with the following properties:  **Total** Total number of records in this payload  **Data** An array of dictionaries for the records fetched from the business entity. Each dictionary contains all the fields in the ACCPAC business entity and their corresponding values. In addition, the dictionary must contain a constructed key named **KendoGridAccpacViewPrimaryKey** which contains a hashed string value from the primary key fields of the records | |
| **Example** |  | |

* 1. Create

|  |  |  |
| --- | --- | --- |
| ***ActionResult*** ***Create***(***string*** ***viewID***, ***IDictionary****<****string****,* ***string****>* ***record***) | | |
| **Description** | Create a new record | |
| **Parameters** | ***viewID*** | The guid to the ACCPAC business entity |
|  | ***record*** | For sequence revision list, the record must be initialized with the row after which the new record will be inserted. For ordered revision list, record can be NULL |
| **Returns** | A JSON payload with the following properties:  **Data** A dictionary containing the fields in the ACCPAC business entity and the corresponding values. In addition, the dictionary must contain a constructed key named **KendoGridAccpacViewPrimaryKey** which contains a hashed string value from the primary key fields of the new record.  **UserMessage** Contains the message(s) returned from the business entity | |
| **Example** |  | |

* 1. Insert

|  |  |  |
| --- | --- | --- |
| ***ActionResult*** ***Insert***(***string*** ***viewID***, ***IDictionary****<****string****,* ***string****>* ***record***) | | |
| **Description** | Create a new record | |
| **Parameters** | ***viewID*** | The guid to the ACCPAC business entity |
|  | ***record*** | For sequence revision list, the record must be initialized with the row after which the new record will be inserted. For ordered revision list, record can be NULL |
| **Returns** | A JSON payload with the following properties:  **Data** A dictionary containing the fields in the ACCPAC business entity and the corresponding values. In addition, the dictionary must contain a constructed key named **KendoGridAccpacViewPrimaryKey** which contains a hashed string value from the primary key fields of the new record.  **UserMessage** Contains the message(s) returned from the business entity | |
| **Example** |  | |

* 1. Update

|  |  |  |
| --- | --- | --- |
| ***ActionResult*** ***Update***(***string*** ***viewID***, ***IDictionary****<****string****,* ***string****>* ***record***) | | |
| **Description** | Update a record | |
| **Parameters** | ***viewID*** | The guid to the ACCPAC business entity |
|  | ***record*** | The active record |
| **Returns** | None | |
| **Example** |  | |

* 1. Refresh

|  |  |  |
| --- | --- | --- |
| ***ActionResult*** ***Refresh***(***string*** ***viewID***, ***IDictionary****<****string****,* ***string****>* ***record, string fieldName***) | | |
| **Description** | Put a value into a field and refresh all the fields | |
| **Parameters** | ***viewID*** | The guid to the ACCPAC business entity |
|  | ***record*** | The active record |
|  | ***fieldName*** | The field that has changed |
| **Returns** | A JSON payload with the following properties:  **Data** A dictionary containing the fields in the ACCPAC business entity and the corresponding values. In addition, the dictionary must contain a constructed key named **KendoGridAccpacViewPrimaryKey** which contains a hashed string value from the primary key fields of the record.  **UserMessage** Contains the message(s) returned from the business entity | |
| **Example** |  | |

* 1. MoveTo

|  |  |  |
| --- | --- | --- |
| ***ActionResult*** ***MoveTo***(***string*** ***viewID***, ***IDictionary****<****string****,* ***string****>* ***record***) | | |
| **Description** | Move the record to a specified position | |
| **Parameters** | ***viewID*** | The guid to the ACCPAC business entity |
|  | ***record*** | The active record |
| **Returns** | A JSON payload with the following properties:  **Data** A dictionary containing the fields in the ACCPAC business entity and the corresponding values. In addition, the dictionary must contain a constructed key named **KendoGridAccpacViewPrimaryKey** which contains a hashed string value from the primary key fields of the record.  **UserMessage** Contains the message(s) returned from the business entity | |
| **Example** |  | |

* 1. Delete

|  |  |  |
| --- | --- | --- |
| ***ActionResult*** ***Delete***(***string*** ***viewID***, ***IDictionary****<****string****,* ***string****>* ***record***) | | |
| **Description** | Delete a record | |
| **Parameters** | ***viewID*** | The guid to the ACCPAC business entity |
|  | ***record*** | The active record |
| **Returns** | None | |
| **Example** |  | |