

# Sparqube Lookup Column

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**Overview**

**Sparqube Lookup Column** is powerful component suite that significantly enhances and extends standard lookup functionality. It allows referencing list data from **any site** within site collection, across site collections and provides set of **additional controls** for easy and intuitive data look-up and data tracking:

Products Sparqube Picture Column  
 (None)  
 Sparqube Lookup Column  
 Sparqube Picture Column  
 Sparqube Status Indicator

Technologies ASP.NET; SharePoint  
 ASP.NET  
 DotNetNuke  
 Dynamics CRM  
 SharePoint  
 Web Services/SOAP

Industry Co  
 Computer  
 Consulting  
 Consumer Products  
 Cosmetics

Company Chevron ;

Picker -- Webpage Dialog

Find Industry oil

| Company Name      | Industry    | Country       |
|-------------------|-------------|---------------|
| BP                | Oil and gas | United Kindon |
| Chevron           | Oil and gas | US            |
| ConocoPhillips    | Oil and gas | US            |
| ExxonMobil        | Oil and gas | US            |
| PetroChina        | Oil and gas | China         |
| Royal Dutch Shell | Oil and gas | United Kindon |
| Sinopec           | Oil and gas | China         |

**Found 7 matches.**

Add -> Chevron

OK Cancel

Picker Dialog and Autocomplete Textbox will allow you to work with large list items. You can also apply list view **filter** or specify custom filter to reduce number of possible items for lookup column and prevent unwanted data selection. Moreover, Sparqube Lookup column provides ability to build parent-child

relationships between columns in current list (**cascaded lookup**), so data entered in one field filters out options present in another:

The image shows a form with three dropdown menus: Country, Region, and City. The Country dropdown is set to 'US', the Region dropdown is set to 'Texas', and the City dropdown is set to 'Houston'. The City dropdown is open, showing a list of cities: (None), Austin, Dallas, El Paso, Fort Worth (highlighted), Houston, and San Antonio. Red arrows point from the Country and Region dropdowns to the City dropdown, indicating the cascading relationship.

## Features

- Supports referencing lists located on any site of the same site collection or between site collection (cross-site collection lookup support)
- Additional controls for columns value editing including Picker Dialog with search function, Autocomplete textbox, Drop-down checkboxes and others useful controls.
- Allows building parent-child relationships between columns in the same list (cascaded lookup, multi-levels supported)
- Multiple filtering in cascading scenarios
- Two-way relationship inspection
- Advanced filter options (filtering items by existing list view and ability to specify custom filters)
- Ability to add new items to source list using "add new item" link
- Single and multiple values supported
- Automatic removal of duplicates
- Ability to show additional fields from source list
- Enforce relationship behavior
- Datasheet view supported
- Ability to display value in list view as text or as link to parent item
- Supports default values
- Default values can be passed to new item form via query string using sqc\* prefix, where \* is lookup column internal name (eg. sqcMyLookupCol1=Value1&sqcMyLookupCol2=Value2)
- Default values fetched from source list item can be passed to new item form via query string using sqllookup\* prefix, where \* is lookup column internal name (eg. sqllookupMyLookupCol1=SourceListItemID1&sqllookupMyLookupCol2=SourceListItemID1)
- Document lookup
- Track related items directly from within their parent item (reverse lookup)
- Conversion of standard Lookup to Sparqube Lookup Classic column
- Multi-lingual (specific language support can be added per request)

## Setup

### Requirements

Server:

- SharePoint Foundation 2010/2013 or SharePoint Server 2010/2013/2016
- Windows Server 2008/Windows Server 2008 R2/Windows Server 2012/Windows 7
- .NET Framework 3.5/4.5

### Installation

Sparqube Lookup Column requires the following permissions for an account running installation:

- Must be a member of the local server **Administrators** group to install application files.
- Must be a member of the SharePoint **Farm Administrators** group to deploy solutions to the farm.

To install Sparqube Lookup Column:

1. Run as Administrator self-extracting package **Sparqube.LokupColumn.exe**
2. In confirmation dialog, click **Yes** to proceed with files unpacking
3. In Welcome screen, click **Next** to begin the installation
4. Verify that the system checks pass successfully. If all requirements are met, click **Next** to proceed
5. Read and accept the End-User License Agreement
6. Select one or more web applications to which you want to deploy Sparqube Lookup Column
7. Please wait for the setup to deploy the solution. Depending on your farm configuration it can take from 30 seconds up to 15 minutes. Click **Next** to continue
8. Please check the details to see if solution was properly installed. Click **Close** to finish setup

### Licensing

You can use Sparqube Lookup Column for 3 days after installation without license. After that if you want to continue using it, you should request free 30-days trial or buy a license.

Note: After evaluation period is expired, you cannot use the product. This will be indicated by the following warning message: "Evaluation period has expired. Please activate the product". You can purchase Sparqube Lookup license at any time or you can request extended trial license by contacting sales@sparqube.com.

To activate Sparqube Lookup Column on your SharePoint farm you need to:

- 1) Install Sparqube License Manager
- 2) Activate the license

### Installing Sparqube License Manager

Download Sparqube License Manager from Web site: <http://www.sparqube.com/SharePoint-Lookup-Column/Download.aspx> and install it to Central Administration Web application.

### Licensing and Activation

You can get Full or Development license key via purchase or request Trial license key via product download web page. License key is sent via e-mail and looks the following way A1B2C3D-E4F5G6H-I7J8K9L-M1N2O3P.

License is activated using License Manager:

- 1) Open SharePoint Central Administration
- 2) Under **Sparqube Configuration** section, click **Sparqube License Manager**:

**Central Administration**

- Application Management
- System Settings
- Monitoring
- Backup and Restore
- Security
- Upgrade and Migration
- General Application Settings
- Configuration Wizards



**Application Management**  
[Manage web applications](#)  
[Create site collections](#)  
[Manage service applications](#)  
[Manage content databases](#)



**Monitoring**  
[Review problems and solutions](#)  
[Check job status](#)  
[View Web Analytics reports](#)



**Security**  
[Manage the farm administrators group](#)  
[Configure service accounts](#)



**General Application Settings**  
[Configure send to connections](#)  
[Configure content deployment paths and jobs](#)  
[Manage form templates](#)



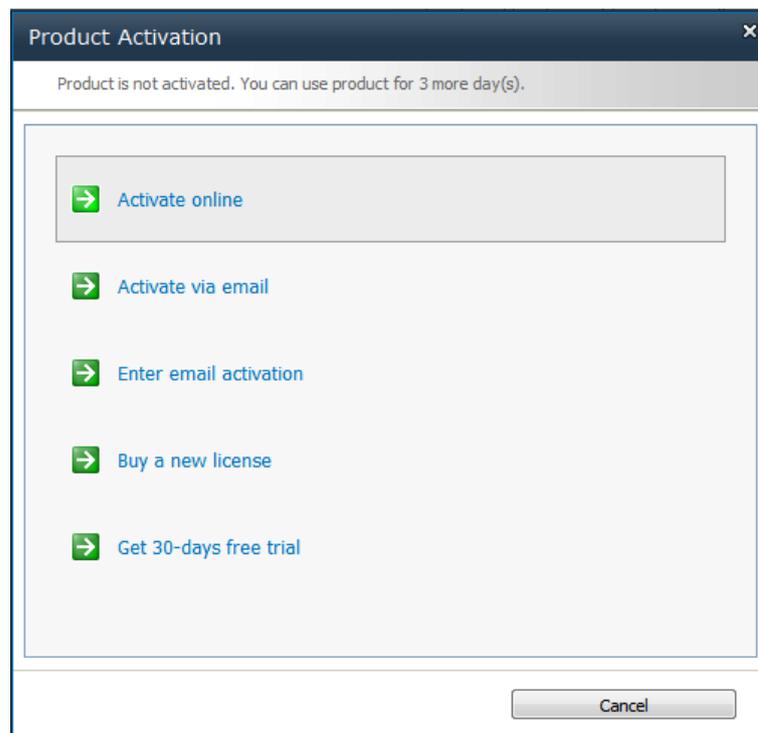
**Sparqube Settings**  
[Sparqube License Manager](#)

- 3) In this page, you can see all installed Sparqube components and its license type and status. Find **Sparqube Lookup Column** and click it

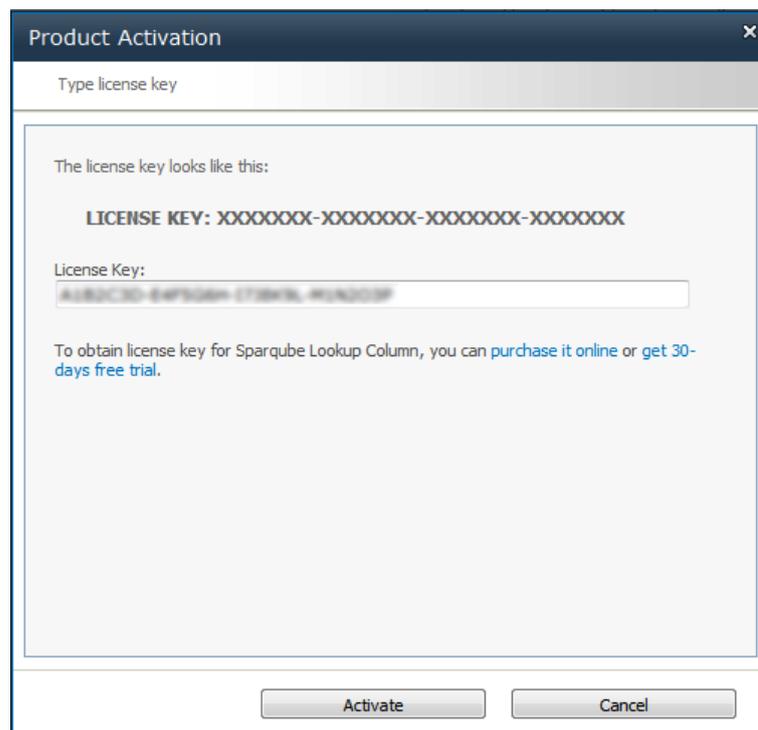
| Installed Products  |               |          |              |                |   |
|---|---------------|----------|--------------|----------------|---|
| Product   | Version       | Edition  | License Type | License Status |   |
|  Sparqube Lookup Column     | 1.0.1202.2601 | Standard | No license   | Not activated  |   |
|  Sparqube Picture Column   | 1.0.1202.2601 | Standard | No license   | Not activated  |  |
|  Sparqube Status Indicator | 1.0.1203.2601 | Standard | No license   | Not activated  |  |

- 4) In product detail page, you can see product information and licenses details. To activate license click **Enter new license**

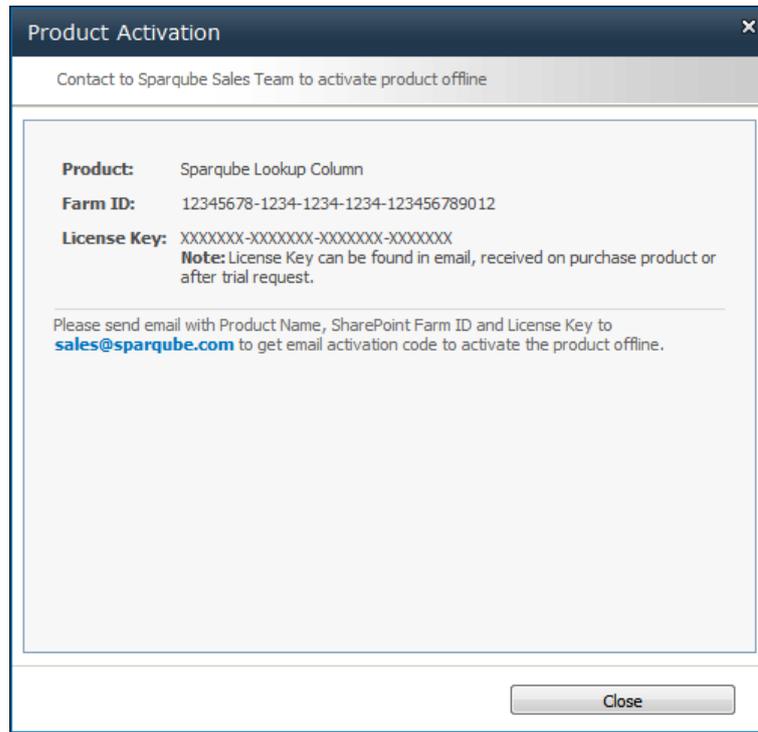
|                           |  |
|---------------------------|--|
| <b>Product</b>            | <p><b>Sparqube Lookup Column</b><br/>         version 1.0.1202.2601<br/>         Extends the capabilities of SharePoint Lookup column with the ability to perform lookups across sites, provides filtering functionality of possible options, allows to build parent-child relationships between columns in list, offers various set of column controls.</p> |
| <b>Product Activation</b> | <p><b>Product is not activated. You can use product for 3 more day(s).</b><br/> <b>Edition:</b> Standard<br/> <b>Current number of WFE servers:</b> 1</p> <hr/> <p> <a href="#">Enter new license</a></p>   |



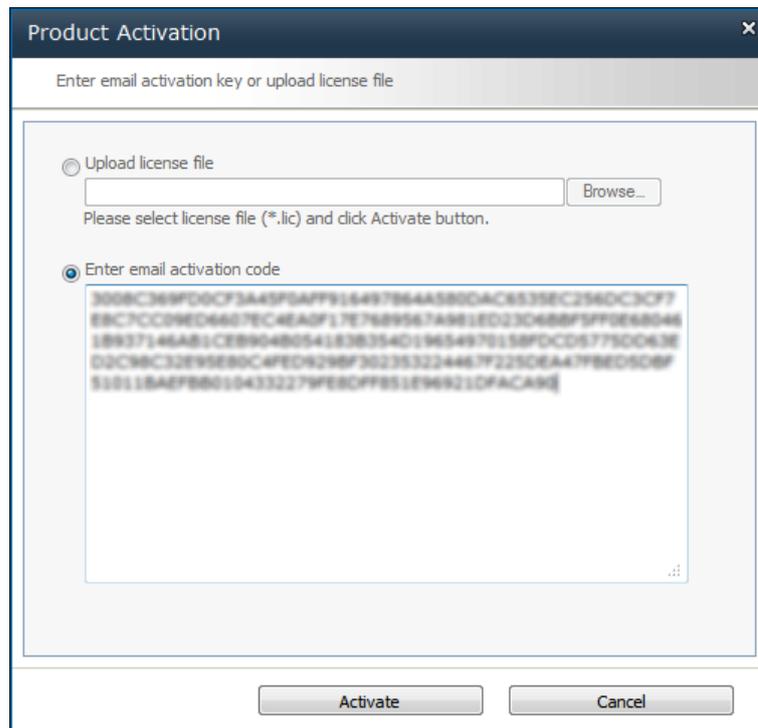
- 5) If SharePoint server has internet connectivity you can activate online:
  - a. In Product Activation dialog, click **Activate online**
  - b. Enter license key and click **Activate** button



- 6) You can also activate license via email.
  - a. Click **Activate via email**.
  - b. In Product Activation dialog, you can see SharePoint Farm ID. Clicking on email address link in this dialog box will open new message window of your installed email client in which you should enter your license key which you'd like to activate. In case you do not have email client installed on your box you can simply copy Farm ID and License Key and send an email from any other suitable machine to this address [sales@sparqube.com](mailto:sales@sparqube.com).



- c. After that, you will receive an email with activation code within 48 hours.
- d. To enter received activation code please repeat steps 1-4 and click **Enter email activation**.
- e. Enter email activation



7) After successful activation, you can refer to License Manager page and check license details.

| <p><b>Product</b></p>            | <p><b>Sparqube Lookup Column</b><br/>                 version 1.0.1202.2601<br/>                 Extends the capabilities of SharePoint Lookup column with the ability to perform lookups across sites, provides filtering functionality of possible options, allows to build parent-child relationships between columns in list, offers various set of column controls.</p>  |                            |                 |                                 |                 |       |              |          |   |   |                                 |
|----------------------------------|---|----------------------------|-----------------|---------------------------------|-----------------|-------|--------------|----------|---|---|---------------------------------|
| <p><b>Product Activation</b></p> | <p><b>Product is activated.</b></p> <p> <b>Serial number:</b> ABCZ1001-0001-0000000001<br/> <b>License type:</b> Full license<br/> <b>Edition:</b> Standard<br/> <b>Max. number of WFE servers:</b> 1<br/> <b>Current number of WFE servers:</b> 1                 </p> <table border="1" data-bbox="659 461 1383 539"> <thead> <tr> <th>License Type</th> <th>Edition</th> <th>Max. number of WFE servers</th> <th>Expiration Date</th> <th>State</th> </tr> </thead> <tbody> <tr> <td>Full license</td> <td>Standard</td> <td>1</td> <td>-</td> <td>Active <a href="#">Turn Off</a></td> </tr> </tbody> </table> <p><a href="#">Enter new license</a></p> | License Type               | Edition         | Max. number of WFE servers      | Expiration Date | State | Full license | Standard | 1 | - | Active <a href="#">Turn Off</a> |
| License Type                     | Edition   | Max. number of WFE servers | Expiration Date | State                           |                 |       |              |          |   |   |                                 |
| Full license                     | Standard  | 1                          | -               | Active <a href="#">Turn Off</a> |                 |       |              |          |   |   |                                 |

## Configuration

### Lookup column types

Sparqube Lookup is the suite of three components consisting of the following SharePoint columns: Sparqube Lookup Classic, Sparqube Lookup Extra and Sparqube Lookup Tracker. Each column serves its own purpose and has unique set of features useful in certain scenario.

**Sparqube Lookup Classic** extends capabilities of standard SharePoint lookup field allowing to lookup and reference data from the same site or other site from the same site collection (cross-site lookup). The limitation to one site collection is specific to native Lookup field architecture on which Lookup Classic is built. Lookup Classic is backward-compatible with native Lookup field and can be converted to and from native Lookup preserving column data. Lookup Classic has wide variety of features and is fitting the majority of lookup use cases.

**Sparqube Lookup Extra** column is built from scratch and uses its own newly-implemented lookup engine. This approach allows to overcome limitations of native lookup and derived from it Lookup Classic. Lookup Extra can lookup data across site collections and additionally supports column data-types not supported by Lookup Classic: File, Choice, User or Group, Boolean and Lookup. Lookup Extra can even lookup complex types like documents. However, there are drawbacks of not using native lookup architecture:

- Sorting and filtering in list views are not supported.
- Source item additional fields cannot be displayed.
- Datasheet view usage is limited to read-only.
- Conversion from/to standard lookup is not supported. Same is true for conversion from/to Classic Lookup, thus Classic and Extra are mutually incompatible.

In other words, Lookup Extra is a valuable alternative to Lookup Classic in scenarios where classic lookup approach will not work, but lookup in general will be possible with certain limitations acceptable as a compromise.

**Sparqube Lookup Tracker** has logic reverse to lookup columns. It allows showing items which are referencing current item by lookup. Basic sample of Tracker scenario is the customer and his orders. If orders are located in the list and reference customer by lookup, these orders can be tracked from the customer list item.

### Adding Sparqube Lookup Classic to SharePoint list

Sparqube Lookup Classic column can be added to a lists, sites and content types like any other column types included with SharePoint.

To add Sparqube Lookup Classic column to SharePoint list:

- 1) Open existing list and add new column (In the ribbon, select **List Tools** tab → **List** → **Create Column** in Manage Views section)
- 2) In the **Columns Name** box, type a name for the column.
- 3) Under **The type of information in this column is**, click **Sparqube Lookup Classic**:

**Name and Type**  
Type a name for this column, and select the type of information you want to store in the column.

Column name:

The type of information in this column is:

- Single line of text
- Multiple lines of text
- Choice (menu to choose from)
- Number (1, 1.0, 100)
- Currency (\$, ¥, €)
- Date and Time
- Lookup (information already on this site)
- Yes/No (check box)
- Person or Group
- Hyperlink or Picture
- Calculated (calculation based on other columns)
- External Data
- Sparqube Lookup Classic (cross-site lookup, cascaded lookup)
- Sparqube Lookup Extra (cross-site collection data lookup, lookup documents)
- Sparqube Lookup Tracker (tracking items relationship)
- Sparqube Picture Lite
- Sparqube Picture
- Sparqube Status Indicator
- Managed Metadata

4) In **Lookup Source** section:

- a. Select SharePoint Site and list to get list data from
- b. Under **Display Column in this list** box, select column from the source list that will be displayed in the lookup

**Lookup Source**  
Specify source data from current site collection.

SharePoint Site:

Source List:

Display Column in this list:

- 5) In **Parent-Child Relationships between Columns**, you can create a dependency between this column and another one in the same list. Select **Make this a dependent column** check box and choose Parent column from this list, which triggers changes in this column, then choose Filter column from lookup source list. Filter column will match with the value of Parent column to filter the results.

**Lookup Source**  
Specify source data from current site collection.

SharePoint Site:

Source List:

Display Column in this list:

---

**Parent-Child Relationships between Columns**  
Check option to build relationship between parent and child columns in this list, the data selected in Parent field will determine the options presented in this.

Make this a dependent column

Parent Column in this list:

Filter Column in the source list:

Show all values when nothing is selected in parent column

[Add more filters...](#)

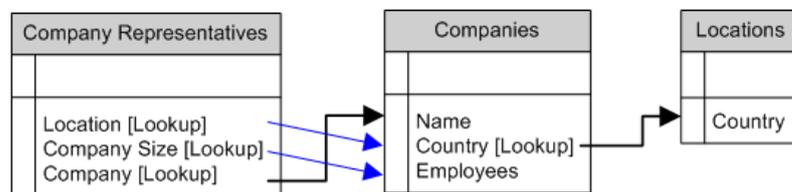
Country

Region

Sparqube Lookup Classic column supports different column types for Parent and Filter column. It can be Sparqube Lookup Classic, Sparqube Lookup Extra, Choice, Lookup, Person or Group, Single line of text, Yes/No, Content Type.

**Show all values when nothing is selected in parent column** check box allows tuning up how filtering is performed. With the check box unchecked (default behavior) values of the column are filtered even if parent column has no values selected. If check box is checked then column available values are not filtered when parent column has no selected value.

There are cases when multiple dependencies are necessary. For example you have *Company Representatives* list where there is a *Company* lookup column, which references data from *Companies* list, but, since there are lots of company records in the source list, it is required to filter data not only by country, but also by company size, for example. Suppose that *Company Representatives* list have *Location* lookup column referencing data from *Country* column, *Company Size* lookup column references data from *Employees* column and *Company* lookup column references data from *Name* column of *Companies* list.



To achieve such behavior, *Company* lookup column will be configured the following way:

1. **Lookup Source** section:
  - a. Set **Source List** set to *Companies*
  - b. Set **Display Column** set to *Name*
2. **Parent-Child Relationships** section:
  - a. Check **Make this a dependent column**
  - b. Set **Parent Column** to *Location*
  - c. Set **Filter Column** to *Country*
  - d. Add new filtering sub-section by clicking **Add more filters...**
  - e. Set **Parent Column** to *Company Size*
  - f. Set **Filter Column** to *Employees*
  - g. Checking **Show all values...** will allow to show values unfiltered by *Company Size* when no value will be selected for *Company Size*

**Lookup Source**  
Specify source data from current site collection.

SharePoint Site:

Source List:

Display Column in this list:

---

**Parent-Child Relationships between Columns**  
Check this option to build relationship between parent and child columns in this list, the data selected in Parent field will determine the options presented in this. Filter column will match with the value of Parent column to filter the results.

Make this a dependent column

Parent Column in this list:

Filter Column in the source list:

Show all values when nothing is selected in parent column

Parent Column in this list:

Filter Column in the source list:

Show all values when nothing is selected in parent column

[Add more filters...](#)

Similar behavior to the following will be seen during adding items to *Company Representatives* list:

|              |   |
|--------------|---|
| Location     | <input type="text" value="US"/>   |
| Company Size | <input type="checkbox"/> 1 - 100<br><input type="checkbox"/> 100 - 500<br><input type="checkbox"/> 500 - 1,000<br><input checked="" type="checkbox"/> 1,000 - 10,000<br><input checked="" type="checkbox"/> 10,000+ |
| Company      | <input type="text" value="Chevron"/><br><input type="text" value="ConocoPhillips"/><br><input type="text" value="ExxonMobil"/><br><input type="text" value="Walmart"/>  |

Four companies are shown since they meet the following conditions:

- Country is US
  - Company size is greater than 1000 employees
- 6) To allow column to have more than one value, check the **Allow multiple values** option in the **Multiple Value field** section. Note: allowing multiple values will prevent sorting in list views.
- 7) Sparqube Lookup Classic column provides a set of instruments for lookup column value editing. In **Column Value Edit** section under **Edit column value using** box, you can choose control for column value editing in New Item and Edit Item forms from following list:

|  |   |
|--|---|
| <p><b>Multiple Value field</b><br/>Specify whether the column will allow more than one value.</p> <p><b>Note:</b> allowing multiple values will prevent sorting in list views.</p> | <input type="checkbox"/> Allow multiple values  |
| <p><b>Column Value Edit</b><br/>Specify column control for New Item and Edit Item forms.</p>   | <p>Edit column value using</p> <ul style="list-style-type: none"> <li><input checked="" type="radio"/> Drop-Down List</li> <li><input type="radio"/> AutoComplete Textbox</li> <li><input type="radio"/> Radio Buttons</li> <li><input type="radio"/> Multiple Items Picker</li> <li><input type="radio"/> Check Boxes</li> <li><input type="radio"/> Drop-Down Check Boxes</li> <li><input type="radio"/> Picker Dialog</li> </ul> <p><input type="checkbox"/> Allow items adding to source list during column value edit</p> <p>Link text:<br/> <input type="text" value="Add item"/></p> |

a. **Drop-Down List** – displays possible options in simple drop-down menu.

|          |   |
|----------|---|
| Products | <input type="text" value="Sparqube Picture Column"/> <ul style="list-style-type: none"> <li>(None)</li> <li>Sparqube Lookup Column</li> <li>Sparqube Picture Column</li> <li>Sparqube Status Indicator</li> </ul> |
|----------|---|

b. **AutoComplete Textbox** – enables users to quickly find and select from a pre-populated list of values as they type, leveraging searching and filtering.

|          |  |
|----------|--|
| Industry | <input type="text" value="Co"/> <ul style="list-style-type: none"> <li>Computer</li> <li>Consulting</li> <li>Consumer Products</li> <li>Cosmetics</li> </ul> |
|----------|--|

c. **Radio Buttons**

|          |   |
|----------|---|
| Products | <input checked="" type="radio"/> Sparqube Lookup Column<br><input type="radio"/> Sparqube Picture Column<br><input type="radio"/> Sparqube Status Indicator |
|----------|---|

d. **Multiple Items Picker** – similar to standard lookup control for multiple items selection.

|              |   |  |   |
|--------------|---|--|---|
| Technologies | <ul style="list-style-type: none"> <li>DotNetNuke</li> <li>Dynamics CRM</li> <li>Web Services/SOAP</li> </ul> | <input type="button" value="Add &gt;"/><br><input type="button" value=" &lt; Remove"/> | <ul style="list-style-type: none"> <li>ASP.NET</li> <li>SharePoint</li> </ul> |
|--------------|---|--|---|

e. **Check Boxes** – displays the source list items as check boxes, multiple values can be selected.

Technologies

- ASP.NET
- DotNetNuke
- Dynamics CRM
- SharePoint
- Web Services/SOAP

f. **Drop-Down Check Boxes** – displays values selectable by check boxes in drop-down menu.

Technologies

ASP.NET; SharePoint

- ASP.NET
- DotNetNuke
- Dynamics CRM
- SharePoint
- Web Services/SOAP

g. **Picker Dialog** – represents a dialog box in which user can find and select items from source list. This control is useful if you need to choose lookup data from large lists. It supports single and multiple value selection. To use this component, it is required to specify columns shown in its dialog form.

**Column Value Edit**  
Specify column control for New Item and Edit Item forms.

Edit column value using

- Drop-Down List
- AutoComplete Textbox
- Radio Buttons
- Multiple Items Picker
- Check Boxes
- Drop-Down Check Boxes
- Picker Dialog

Available columns:

- Address
- City
- Created
- Created By
- E-mail
- Folder Child Count
- ID
- Modified
- Modified By

Picker Dialog columns:

- Name
- Industry
- Country

Buttons: Add >, < Remove, Up, Down

Company: Chevron ;

Picker -- Webpage Dialog

Find: Industry oil

| Company Name      | Industry    | Country       |
|-------------------|-------------|---------------|
| BP                | Oil and gas | United Kindon |
| Chevron           | Oil and gas | US            |
| ConocoPhillips    | Oil and gas | US            |
| ExxonMobil        | Oil and gas | US            |
| PetroChina        | Oil and gas | China         |
| Royal Dutch Shell | Oil and gas | United Kindon |
| Sinopec           | Oil and gas | China         |

Found 7 matches.

Add -> Chevron

Buttons: OK, Cancel

In this section you can also enable items adding to lookup source list by checking **Allow items adding to source list during column value edit** box. With this option set "Add new item" link will be rendered in item add or edit form, by clicking which you will be able to add new items to the source list.

- 8) Column displays value as link to parent item in list view by default. In **Column Value Display Format** section, you can change this behavior by set **Show column value as** flag to **Text**, so item's text will be displayed instead of link to it.

- 9) In **Default Value** section, you can enter the default value for the lookup column. You can type texts separated by semicolon for multiple default values selection.
- 10) In the **Filter** section, choose whether and how you want to filter source list items. If you want to turn filtering off and allow user to select any items from source list, then select **Show all items**. To filter items by existing list view, you can check **Show items from the following view** and choose list view from drop-down. Also you can specify custom filter selecting **Show items only when the following is true** and provided advanced filter options similar to item filter in list view:

- 11) In the **Additional Fields** section, select secondary columns from Source list that you want to add to this list. These additional columns are automatically populated when you select a value in current column. Only columns with supported data types are listed:

**Additional Fields**

Under **Add a column to show each of these additional fields**, for each secondary column you want to add, click the check box next to the column name. These additional columns are automatically populated when you select a value in current column.

Add a column to show each of these additional fields:

- % Complete
- Created
- Due Date
- ID
- Modified
- Start Date
- Title
- Title (linked to item)
- Version

12) **Relationship** section allows adding additional level of control to lists bound by parent-child relationship. By default there are no action constraints to list items of such lists, thus if any item in parent list is referenced by items in child list, such item can be deleted, for example. By enabling **Enforce relationship behavior** such actions can be prohibited and list items referenced in other lists cannot be deleted if **Restrict delete** is selected. In case **Cascade delete** is selected, item in parent list and all items referencing it in child lists will also be deleted.

**Relationship**

A lookup column establishes a relationship between list items in this list and related items in the target list. Specify the relationship behavior enforced by this lookup column when a list item in the target list is deleted.

When an item in the target list is deleted, *cascade delete* will delete all related items in this list. *Restrict delete* will prevent the deletion of an item in the target list if it has one or more related items in this list.

Enforce relationship behavior

- Restrict delete
- Cascade delete

Note: please ensure that Sparqube Lookup Column site collection feature is activated for proper functioning of **Enforce relationship behavior**.

13) In the **Datasheet View** section, you can provide column behavior in Datasheet views. Possible options: **Hidden**, **Read only** and **Allow edit**.

Note: If you choose Allow edit, then column will be rendered as standard SharePoint Lookup column in Datasheet view, special column settings such as filtering, parent-child relationships will be disabled in this view.

**Datasheet View**

Provide column behavior in Datasheet view.

**Note:** Editable column will be rendered as standard SharePoint Lookup column in Datasheet view. Special column settings such as Filter, Parent-Child Relationships will be disabled in this view.

Column in Datasheet view:

- Hidden
- Read only
- Allow edit

14) In the **Convert** section, you can convert existing standard SharePoint Lookup column to Sparqube Lookup Classic. Simply choose existing Lookup column and click **Convert** button to convert it to Sparqube Lookup Classic. All existing data will be preserved. This functionality is available only when creating new Sparqube Lookup Classic column.

### Adding Sparqube Lookup Extra to SharePoint list

Sparqube Lookup Extra column is added and configured the same way as Lookup Classic. The only difference is that source list can be selected from any site collection of current web application:

|  |   |
|--|---|
| <p><b>Lookup Source</b></p> <p><b>Sparqube Lookup Classic</b> (recommended) - extends SharePoint lookup with ability to build cross-site and cascaded lookup.</p> <p><b>Sparqube Lookup Extra</b> - lookups items across site collections, displays data from column of any type including Document Name, Choice and others. Limitations: sort and filtering are not supported, cannot be converted to/from standard Lookup column.</p> <p><b>Sparqube Lookup Tracker</b> - tracks items relationship.</p> | <p>SharePoint Site Collection:<br/> <input type="text" value="http://sp-demo/sites/documents"/></p> <p>SharePoint Site:<br/> <input type="text" value="Document Center"/></p> <p>Source List:<br/> <input type="text" value="Documents"/></p> <p>Display Column in this list:<br/> <input type="text" value="Name (for use in forms)"/></p> |
|--|---|

Note: Sparqube Lookup Column site collection feature should be activated for automatic values synchronization with source list items.

**Adding Sparqube Lookup Tracker to SharePoint list**

Sparqube Lookup Tracker allows tracking and displaying related items from another list, which are referenced by lookup column. Assume there is an Orders list with lookup column referencing data from Customers list. Orders of certain customer can be shown in customer Item Display form with Lookup Tracker. In such scenario Sparqube Lookup Tracker column should be added to Customers list:

- 1) Open existing Customers list settings and add new column
- 2) Select **Sparqube Lookup Tracker** under **The type of information in this column is**

|   |  |
|---|--|
| <p><b>Lookup Target</b></p> <p>Specify Lookup Target list and its lookup column, that references this list.</p> | <p>SharePoint Site Collection:<br/> <input type="text" value="http://sp-demo/sites/sales"/></p> <p>SharePoint Site:<br/> <input type="text" value="Sales"/></p> <p>Source List:<br/> <input type="text" value="Orders"/></p> <p>Lookup Column:<br/> <input type="text" value="Company"/></p> |
| <p><b>Display Format</b></p>  | <p>Show related items in Item Display Form:</p> <p><input type="radio"/> Inline<br/>         Display column:<br/> <input type="text" value="Name"/></p> <p><input checked="" type="radio"/> Table<br/>         List View:<br/> <input type="text" value="All Items"/></p>                    |

- 3) In **Lookup Source** section select site collection, site and list containing items referencing data from current list by lookup (in our case select Orders list)
- 4) Under **Lookup Column** box select lookup column by which tracking relation is established. This can be either standard SharePoint lookup or Sparqube Lookup Classic or Sparqube Lookup Extra.
- 5) In **Display Format** section select referenced items display mode:
  - a. Inline – items are displayed as inline links to the list items. **Display Column** setting specifies what data will be shown as link text;
  - b. Table – items are displayed as table. **List View** setting specifies which existing list view will be used as rendering template. This approach allows using all the significant view features and properties: sorting, styles, filters and column set.

Customers - ABCD Company

View

Version History Alert Me

Manage Permissions Delete Item

Edit Item Manage Actions

Name ABCD Company

Description Software development company.

Country USA

Email sales@abcd.com

Primary Contact John Smith

Orders

| Order ID    | Manager | Price      | Date       | Status      |
|-------------|---------|------------|------------|-------------|
| LB-00052-N1 | Barry G | \$1,200.00 | 11/13/2012 | Closed      |
| LB-00201-I1 | Eric B  | \$4,560.00 | 11/14/2012 | Closed      |
| LB-00201-K2 | Eric B  | \$3,200.00 | 11/16/2012 | Closed      |
| LB-00421-N2 | Bill P  | \$2,200.00 | 11/23/2012 | In progress |

Created at 11/14/2012 4:13 PM by Jane Roberts  
Last modified at 11/14/2012 4:13 PM by Jane Roberts

Close

## How to convert standard Lookup column to Sparqube Lookup Classic and back

### Convert to Sparqube Lookup

To convert standard Lookup column to Sparqube Lookup Classic:

- 1) In **List Settings** page, click **Create column**.
- 2) In **Name and Type** section, choose column type as **Sparqube Lookup Classic**.
- 3) Expand **Convert** section, choose existing Lookup column and click **Convert** button. In confirm dialog, click **OK** button.
- 4) After that, lookup column is converted to Sparqube Lookup column, and column settings page is opened, where you can specify additional settings for this column.

### Convert from Sparqube Lookup Classic to standard Lookup

To convert Sparqube Lookup Classic column to standard Lookup:

- 1) In **List Settings** page, click on target Sparqube Lookup column to open Sparqube Lookup Classic column settings page.
- 2) Expand **Convert** section and click **Convert** button.
- 3) In confirm dialog, click **OK** button.
- 4) Column is converted to standard Lookup column.

## Use cases

### Filter lookup values by other fields in the same list (simple cascading behavior)

One of the most common questions in SharePoint is how to setup lookup column in SharePoint list with ability to filter out values by other field in the same list. This can be easily achieved with Sparqube Lookup. Let's assume you have two lists:

- *Product Categories* - list of product categories with *Category Name* column (Title column)
- *Products* - list of products referencing Product Categories list. Its columns are *Product Name* (Title), *Product Category* (Lookup column with Product Categories list as source list) and others

#### Product Categories

|                          |   |
|--------------------------|---|
| <input type="checkbox"/> | Category Name                           |
|                          | <a href="#">Desktops</a>                |
|                          | <a href="#">Laptop</a>                  |
|                          | <a href="#">Monitors</a>                |
|                          | <a href="#">Printers &amp; Scanners</a> |
|                          | <a href="#">Software</a>                |
|                          | <a href="#">Tablets</a>                 |

#### Products

|                          |   |                          |            |
|--------------------------|---|--------------------------|------------|
| <input type="checkbox"/> | Product Name  | Product Category         | Price      |
|                          | <a href="#">RIM BlackBerry PlayBook 64GB</a>                    | <a href="#">Tablets</a>  | \$299.99   |
|                          | <a href="#">Apple MacBook Pro MC374LL/A 13.3-Inch</a>           | <a href="#">Laptop</a>   | \$1,239.95 |
|                          | <a href="#">Apple MacBook Pro MD314LL/A 13.3-Inch</a>           | <a href="#">Laptop</a>   | \$1,412.54 |
|                          | <a href="#">Asus PA246Q 24" LCD Monitor</a>                     | <a href="#">Monitors</a> | \$492.89   |
|                          | <a href="#">Dell UltraSharp U2312HM 23" IPS LED LCD Monitor</a> | <a href="#">Monitors</a> | \$249.99   |
|                          | <a href="#">Kaspersky Internet Security 2012 - 3 Users</a>      | <a href="#">Software</a> | \$28.47    |
|                          | <a href="#">Windows 7 Home Premium SP1 64bit</a>                | <a href="#">Software</a> | \$99.99    |
|                          | <a href="#">Dell Inspiron 545 i545-2062NBK</a>                  | <a href="#">Desktops</a> | \$999.89   |
|                          | <a href="#">HP Pavilion Slimline s5-1060</a>                    | <a href="#">Desktops</a> | \$799.99   |
|                          | <a href="#">Apple iMac MB953LL/A 27-Inch</a>                    | <a href="#">Desktops</a> | \$1,599.00 |
|                          | <a href="#">HP Pro 3420 A7L19UT#ABA</a>                         | <a href="#">Desktops</a> | \$689.00   |

We need to add reference to product to third list (let's call it *Orders*) which will be nicely filtered by product category. In order to implement it, follow next steps:

- 1) Add *Category* column to *Orders* list:
  - a. Create new *Category* column and select **Sparqube Lookup** for column type.
  - b. In **Source Data**, select SharePoint site that contains *Product Categories* list, and select *Product Categories* list under **Source List** box.
  - c. Under **Display Column in this list** box, select *Category Name* column of *Product Categories* list.
  - d. (Optional) In **Column Value Display Format** section under **Show column value as** box, we can choose rendering product category in *Orders* list as **Text**, not as link to its item.

|  |   |
|--|---|
| <p><b>Lookup Source</b><br/>Specify source data from current site collection.</p>  | <p>SharePoint Site:<br/>Lookup Demo</p> <p>Source List:<br/>Product Categories</p> <p>Display Column in this list:<br/>Category Name</p>  |
| <p><b>Parent-Child Relationships between Columns</b><br/>Check option to build relationship between parent and child columns in this list, the data selected in Parent field will determine the options presented in this.</p> | <p><input type="checkbox"/> Make this a dependent column</p> <p>Parent Column in this list:<br/>(None)</p> <p>Filter Column in the source list:<br/>(None)</p> <p>Note: Filter column will match with the value of Parent column to filter the results.</p> |

- 2) Add *Product* column to *Orders* list as dependent lookup column:
  - a. Create new column, name it *Product* and select **Sparqube Lookup** for column type
  - b. In **Source Data**, select SharePoint site containing *Products* list and choose *Products* list under **Source List**
  - c. Under **Display Column in this list** box, select *Product Name* column of *Products* list
  - d. In **Parent-Child Relationships between Columns** section, check **Make this a dependent column** option and select *Category* column of *Orders* list under **Parent Column in this list** and *Product Category* of *Products* list as **Filter Column**

|  |  |
|--|--|
| <p><b>Lookup Source</b><br/>Specify source data from current site collection.</p>  | <p>SharePoint Site:<br/>Lookup Demo</p> <p>Source List:<br/>Products</p> <p>Display Column in this list:<br/>Product Name</p>  |
| <p><b>Parent-Child Relationships between Columns</b><br/>Check option to build relationship between parent and child columns in this list, the data selected in Parent field will determine the options presented in this.</p> | <p><input checked="" type="checkbox"/> Make this a dependent column</p> <p>Parent Column in this list:<br/>Category</p> <p>Filter Column in the source list:<br/>Product Category</p> <p>Note: Filter column will match with the value of Parent column to filter the results.</p> |

Now, when adding new item to *Orders* list, when *Category* is selected or changed, drop-down list of products will be automatically re-filled with filtered items which correspond selected product category:

|                |  |
|----------------|--|
| Order Number * | ORDER 1234   |
| Category       | Desktops   |
| Product        | <div style="border: 1px solid black; padding: 2px;"> <p>(None)</p> <p>(None)</p> <p>Apple iMac MB953LL/A 27-Inch</p> <p>Dell Inspiron 545 i545-2062NBK</p> <p>HP Pavilion Slimline s5-1060</p> <p>HP Pro 3420 A7L19UT#ABA</p> </div> |

**Matrix-type geographical data with cascading behavior**

The process of entering geographical data is one example where a dependent field is immediately useful. In this example, let's assume you have Map SharePoint list that contains geographical data stored in matrix structure. This list has Country, Region and City columns:

| Country▼ | Region↑        | City          |
|----------|----------------|---------------|
| US       | Arizona        | Phoenix       |
| US       | California     | Los Angeles   |
| US       | California     | San Diego     |
| US       | California     | San Jose      |
| US       | California     | San Francisco |
| US       | Florida        | Jacksonville  |
| US       | Illinois       | Chicago       |
| US       | Indiana        | Indianapolis  |
| US       | Michigan       | Detroit       |
| US       | New York       | New York      |
| US       | North Carolina | Charlotte     |
| US       | Ohio           | Columbus      |
| US       | Pennsylvania   | Philadelphia  |
| US       | Tennessee      | Memphis       |
| US       | Texas          | Houston       |
| US       | Texas          | San Antonio   |
| US       | Texas          | Dallas        |
| US       | Texas          | Austin        |
| US       | Texas          | Fort Worth    |
| US       | Texas          | El Paso       |

There is another Companies list, in which this geographic data can be referenced in cascading manner: user could choose country, then its region, then city from the list of the cities for selected region.

This can be done in the following steps:

- 1) Add Country column to Companies list:
  - a. Create new Country column and choose column type as **Sparqube Lookup**
  - b. In **Source Data**, select SharePoint site that contains Map list, and select Map list under **Source List** box
  - c. Under **Display Column in this list** box, select Country column

The screenshot shows the configuration for a 'Lookup Source' column. It includes a 'SharePoint Site' dropdown set to 'Lookup Demo', a 'Source List' dropdown set to 'Map', and a 'Display Column in this list' dropdown set to 'Country'. Below this, there is a section for 'Parent-Child Relationships between Columns' with a checkbox for 'Make this a dependent column' (which is unchecked), a 'Parent Column in this list' dropdown set to '(None)', and a 'Filter Column in the source list' dropdown set to '(None)'. A note at the bottom states: 'Note: Filter column will match with the value of Parent column to filter the results.'

- 2) Add new Region column to Companies list:
  - a. Create new Region column and choose column type as **Sparqube Lookup**
  - b. In **Source Data**, select SharePoint site that contains Map list, and select Map list under **Source List** box
  - c. Under **Display Column in this list** box, select Region column

- d. In **Parent-Child Relationships between Columns** section, check **Make this a dependent column** option
- e. Under **Parent Column in this list** box, select Country column of Companies list
- f. Under **Filter Column in source list** box, select Country column of Maps list

|  |  |
|--|--|
| <p><b>Lookup Source</b><br/>Specify source data from current site collection.</p>  | <p>SharePoint Site:<br/>Lookup Demo</p> <p>Source List:<br/>Map</p> <p>Display Column in this list:<br/>Region</p>   |
| <p><b>Parent-Child Relationships between Columns</b><br/>Check option to build relationship between parent and child columns in this list, the data selected in Parent field will determine the options presented in this.</p> | <p><input checked="" type="checkbox"/> Make this a dependent column</p> <p>Parent Column in this list:<br/>Country</p> <p>Filter Column in the source list:<br/>Country</p> <p>Note: Filter column will match with the value of Parent column to filter the results.</p> |

- 3) Add new City column to Companies list:
- a. Create new City column and choose column type as **Sparqube Lookup**
  - b. In **Source Data**, select SharePoint site that contains Map list, and select Map list under **Source List** box
  - c. Under **Display Column in this list** box, select City column
  - d. In **Parent-Child Relationships between Columns** section, check **Make this a dependent column** option
  - e. Under **Parent Column in this list** box, select Region column of Companies list
  - f. Under **Filter Column in source list** box, select Region column of Maps list

|  |  |
|--|--|
| <p><b>Lookup Source</b><br/>Specify source data from current site collection.</p>  | <p>SharePoint Site:<br/>Lookup Demo</p> <p>Source List:<br/>Map</p> <p>Display Column in this list:<br/>City</p>   |
| <p><b>Parent-Child Relationships between Columns</b><br/>Check option to build relationship between parent and child columns in this list, the data selected in Parent field will determine the options presented in this.</p> | <p><input checked="" type="checkbox"/> Make this a dependent column</p> <p>Parent Column in this list:<br/>Region</p> <p>Filter Column in the source list:<br/>Region</p> <p>Note: Filter column will match with the value of Parent column to filter the results.</p> |

After that, when user adds new customer or edits existing one, she can choose country, after that regions drop-down list will automatically refresh and display only regions from selected country. After region is selected, list of cities will automatically populate with values corresponding to selected region.

|                 |   |
|-----------------|---|
| Name *          | <input type="text"/>  |
| Country         | US  |
| Region          | California  |
| City            | (None)  |
| Address         | (None)<br>Los Angeles<br>San Diego<br>San Francisco<br>San Jose |
| ZIP/Postal Code | <input type="text"/>  |
| E-mail          | <input type="text"/>  |

There is no limitation on number of cascading levels in Sparqube Lookup. You can also check **Allow multiple values** to allow Lookup columns containing more than one value.

## Release Notes

### Version 1.21

Changes (build 1.21.1803.601):

- Added: Lookup Default Value can now be specified as a CAML query XML fetching data from source list as per query. Query should be a standard CAML query XML enclosed in <Query>...</Query> tag
- Added: Autocomplete query can now be customized by Query Method XML for better performance when used with BCS source lists
- Changed: Lookup Extra with multiple values enabled now if used as an additional field is represented as MultiChoice which improves its usage in search scenarios like search refiners
- Fixed: Items disappeared in Lookup Tracker edit form when used in Document Set

Changes (build 1.21.1803.901):

- Fixed: Lookup Extra value disappearing when list item edited in Outlook

Changes (build 1.21.1809.301):

- Added: "Multiple line of text" field type can now be used as an additional field for Lookup Extra
- Fixed: Lookup Extra source list resolution improved for host-named site collection when source WebID and/or SiteID is invalid
- Fixed: Picker Dialog lookup (with multiple values) when source item has ';' symbol
- Fixed: Version not increasing after child item update via Lookup Tracker

### Version 1.20

Changes (build 1.20.1711.901):

- Changed: Lookup Tracker now shows item count in list view instead of "View entries" text
- Changed: Improved cascaded lookup behavior in matrix-type lists when contradicting filters are used
- Changed: Lookup Extra field value can now be assigned as item ID only
- Fixed: Cascaded lookup behavior corrected when parent Lookup Extra has Managed Metadata source column
- Fixed: Broken autocomplete script registration on SharePoint 2010 with SP2

### Version 1.19

Changes (build 1.19.1705.1401):

- Changed: Tracker UI streamlined
- Changed: List view "View entries" opens Tracker list items table instead of container item form
- Changed: Tracker can now add new items without editing container list item
- Fixed: Lookup classic field value type in CSOM requests
- Fixed: Search by ID and numerical fields was not working in autocomplete
- Fixed: Search improved in Picker Dialog and autocomplete for external lists

Changes (build 1.19.1705.2301):

- Fixed: Performance issue for REST API

Changes (build 1.19.1706.1401):

- Fixed: Lookup value resolution for document libraries
- Fixed: Required option was disregarded when editing Lookup from a Tracker

**Version 1.18**

Changes (build 1.18.1701.1501):

- Added: Tracker referenced items editor settings redesigned
- Added: Tracker can pre-set new referenced item's fields
- Added: Tracker support for External Data additional fields
- Added: Lookup controls CSS classes for customizations (sq-lookup, sq-lookup-dropdown, etc)
- Fixed: Lookup query performance improved
- Fixed: Lookup can use fields in \_Hidden group as source (service fields)
- Fixed: Lookup quick edit item commit for multiple values
- Fixed: Cascading lookup fields initialization when used from Tracker
- Fixed: Autocomplete popup position calculation
- Fixed: Tracker settings page crashed on some migration scenarios
- Fixed: Serialization issues in workflow scenarios
- Fixed: Lookup Classic settings were lost when list was recreated from template

Changes (build 1.18.1701.2901):

- Fixed: Clearing External Data field value in Lookup Tracker form
- Fixed: Disabled event receiver triggering when Lookup Extra is synchronized
- Fixed: Improved logic of list enumeration in Lookup settings page

**Version 1.17**

Changes (build 1.17.1605.1701):

- Added: Support for SharePoint 2016
- Fixed: External Data field value was not updated when edited from Tracker UI
- Fixed: URLs with /\_api/lists/ were not working with REST API

Changes (build 1.17.1608.201):

- Fixed: Required fields are no longer pre-selected. Behavior is consistent with non-required fields
- Fixed: Editing settings for migrated Lookup Classic field caused exception
- Fixed: Autocomplete now better supports list threshold (source field should be indexed)

Changes (build 1.17.1610.1201):

- Fixed: Tracker child item editing did not wait for AJAX completion
- Fixed: Tracker editing improved in multi-level trackers
- Fixed: Tracker editing lost values in some cascading scenarios
- Fixed: Tracker editing in document library did not save values
- Fixed: Picker dialog item resolving logic improved
- Fixed: Resource tokens were not resolved with respect to current language
- Fixed: Default value was not set for lookup in a document library

**Version 1.16**

Changes (build 1.16.1510.701):

- Added: Full Quick Edit mode implementation (SP2013 only)
- Added: DateTime, Boolean, Number types support for additional fields in Lookup Extra BDC
- Fixed: Lookup Extra value synchronization
- Fixed: Enforcing delete restriction was not working in rare cases
- Fixed: Performance improved for BDC requests

Changes (build 1.16.1510.1901):

- Fixed: Tracker did not show values with related Lookup in the same document library
- Fixed: Lookup value encoding/decoding issue
- Fixed: Quick Edit support for Lookup Extra displayed as text

Changes (build 1.16.1512.301):

- Fixed: Cascading lookups with autocomplete control referencing the same list
- Fixed: Copy/paste/fill values in Quick Edit mode

Changes (build 1.16.1601.801):

- Fixed: Autocomplete control for host-named site collections

Changes (build 1.16.1602.1001):

- Added: Content Type can be used in the filtering conditions
- Fixed: Cascading Lookup editing in Lookup Tracker form

Changes (build 1.16.1603.2201):

- Added: Cascaded filtering by folder for document library lookups
- Added: Cascading by parent folder for generic lists (when "New Folder" is enabled)
- Added: Selection scope for generic lists ("Items Only", "Items and Folder recursive", etc)

Changes (build 1.16.1603.3101):

- Fixed: 0 was returned by Lookup Extra with BDC source in workflow

### Version 1.15

Changes (build 1.15.1503.601):

- Added: Autocomplete line formatting and multi-column search
- Added: Additional fields are now shown in tracker when editing items
- Added: Item pre-loading in picker dialog can be disabled to improve performance
- Fixed: Tracker table mode was not working for cross-site scenarios

Changes (build 1.15.1503.1801):

- Added: Default content type can be set for new source list items
- Fixed: Drop-down checkbox list rendering in custom forms

Changes (build 1.15.1504.2201):

- Added: Limited support for sandboxed solutions
- Fixed: Cascading lookup for matrix-type lists
- Fixed: Lookup Extra management failed without valid SPContext

Changes (build 1.15.1507.1001):

- Added: Logging for event receivers
- Fixed: Picker dialog was not searching by ID
- Fixed: Picker dialog was not searching by file name
- Fixed: Rendering of autocomplete and drop-down checkboxes in AJAX scenarios

### Version 1.14

Changes (build 1.14.1410.1701):

- Changed: New jQuery autocomplete control with supporting backend infrastructure
- Added: Autocomplete asynchronous loading
- Added: Autocomplete multiple value support
- Fixed: Controls are now MDS-compliant (Minimal Download Strategy)
- Fixed: Field behaves properly in scenarios using REST API (eg. in SP2013 workflows)

Changes (build 1.14.1411.1301):

- Added: Lookup Extra additional fields enabled for sorting and filtering

Changes (build 1.14.1501.1602):

- Fixed: Lookup Extra additional fields were editable in Datasheet/Quick Edit mode
- Fixed: Lookup Extra additional fields disregarded parent lookup Datasheet/Quick Edit settings

Changes (build 1.14.1501.2701):

- Fixed: Lookup Extra additional fields were not updated properly from code

Changes (build 1.14.1502.501):

- Fixed: Calculated fields search

### Version 1.13

Changes (build 1.13.1406.1001):

- Added: Value synchronization with external lists
- Added: Host-named site collections support
- Fixed: Site Collection selection dialog layout issue

Changes (build 1.13.1407.201):

- Fixed: Drop-down with checkboxes positioning

Changes (build 1.13.1409.2601):

- Fixed: Required lookup was not working properly when source list was BDC

### Version 1.12

Changes (build 1.12.1311.2701):

- Changed: Improved picker dialog search features
- Added: Lookup relations can be edited from Tracker UI
- Added: New items can be entered from Tracker UI

Changes (build 1.12.1312.2501):

- Fixed: Items not updating in Quick Edit mode

Changes (build 1.12.1402.301):

- Changed: Increased Lookup compatibility with external applications (Harmon.ie)
- Added: Lookup Extra supports wider range of source column data types
- Fixed: Picker dialog search for individual columns
- Fixed: Sequential refreshes of BDC values could clear lookup value

Changes (build 1.12.1402.701):

- Fixed: Picker did not return multiple BDC values

Changes (build 1.12.1403.2701):

- Fixed: Increased compatibility with Layer2 BDLC
- Fixed: Quick Edit mode was not working properly within Document Set

Changes (build 1.12.1404.1601):

- Fixed: Item sort order was not preserved when view was used for filtering
- Fixed: Lookup rendering failed in Designer

Changes (build 1.12.1405.701):

- Fixed: Lookup Extra can now be used in Content Type Hub (SP2013)
- Fixed: Cascading logic in matrix-like lists improved

Changes (build 1.12.1405.2101):

- Fixed: Lookup tracker crashed when adding new item to child list

### Version 1.11

Changes (build 1.11.1307.2701):

- Added: Additional Fields can be used in Content Types
- Fixed: Entries with same text were not resolved properly in Dialog Picker

Changes (build 1.11.1310.2501):

- Fixed: Crash when used in workflows
- Fixed: jQuery conflicts

**Version 1.10**

Changes (build 1.10.1306.2501):

- Added: Quick Edit mode support in SharePoint 2013 (Lookup Classic only)
- Added: Data Adapter feature allows Lookup to be used in MS applications (Access, Excel)
- Changed: Multiple item picker look improved
- Changed: Tracker is shown in both View and Edit forms
- Fixed: Cascading lookup did not work properly with SP2013 OOTB parent columns
- Fixed: Source item resolving algorithm included lookup by ID

Changes (build 1.10.1307.1101):

- Fixed: Filtering issues with External lists
- Fixed: Settings were not updated properly
- Fixed: Minor issues

**Version 1.9**

Changes (build 1.9.1304.1501):

- Added: External list support (BCS)
- Added: Picker dialog item count limit
- Changed: Picker dialog functionality and performance improved
- Changed: Improved performance in large lists

Changes (build 1.9.1304.2901):

- Added: Default values can be passed to new item form by source list item ID

**Version 1.8**

Changes (build 1.8.1301.2101):

- Added: Right-to-Left languages support (RTL)

Changes (build 1.8.1301.3101):

- Fixed: Lookup Tracker settings fixed in Content Types

Changes (build 1.8.1302.501):

- Fixed: Relationship enforcement was not working for several lookup columns

Changes (build 1.8.1303.501):

- Added: Select All option for Lookup multi-select drop-down

Changes (build 1.8.1303.1101):

- Fixed: Improved Lookup Tracker behavior with other SharePoint add-ons (spform.com)

**Version 1.7**

Changes (build 1.7.1301.301):

- Added: Support for SharePoint 2013

**Version 1.5**

Changes (build 1.5.1212.301):

- Added: Sparqube Lookup Extra (cross-site collection support, additional columns supported)
- Added: Sparqube Lookup Tracker (reverse lookup, display referenced items)

**Version 1.2**

Changes (build 1.2.1208.2701):

- Added: Enforce relationship behavior

Changes (build 1.2.1208.2702):

- Fixed: Error when adding item when Lookup column is marked as Required

**Version 1.1**

Changes (build 1.1.1208.101):

- Added: Multiple filters for cascading behavior

**Version 1.0**

- Initial release (build 1.0.1205.2101)