

Browser (Displayers)

Browser displayer

User of process [D2000 HI](#) can work with structures (objects of [Structured variable](#) and [Database table](#) type) in two ways - by means of dialog box or displayer of *Browser* type placed in the picture.


This graphic object allows to use [Drag&Drop](#) feature for moving a content by mouse.

An example of Browser displayed in [D2000 HI](#):

	TVonk	Tlak_P2	T_AVG_60min
1	23.8	115	21.8
2	25.2	119	23.5
3	22.3	129	20.7
4	19	105	18.2
5	21.2	109	22
6	23.9	125	24.1
7	21.5	130	25.9
8	22.4	124	23
9	22	121	21.4
10	19.6	120	21.9
11	22.5	115	20.5
12	20	126	22.2

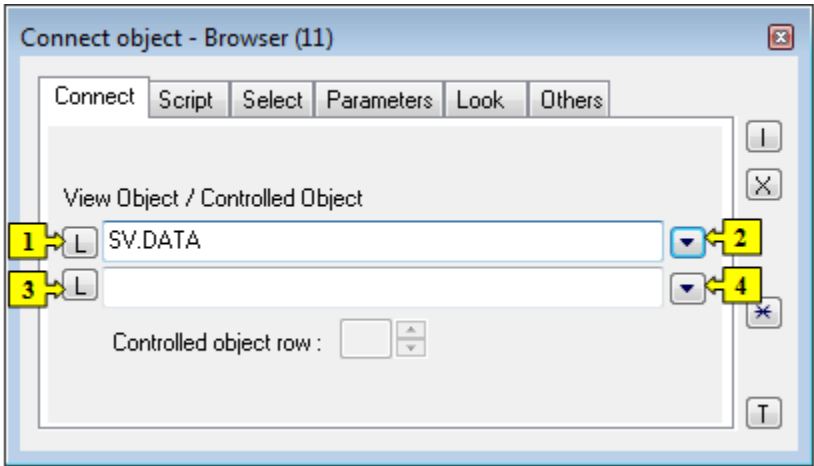
Akcje ...

To create Browser displayer

- 
1. In the [Drawing toolbar](#), click the button **Browser**.
 2. Point the mouse cursor to the position of the first displayer corner and click.
 3. Point the mouse cursor to the position of the diagonal displayer corner and click.

The parameters of Browser displayer can be configured in the palette [Connect object](#) through the following tabs:

Connect



1	Selection of an object of Structured variable or Database table types, which will be displayed in the Browser.
2	Selection of a local variable , which will be displayed in the Browser.
3	Selection of a structure to control.
4	Selection of a local variable to control.

View object

Choice of a structure ([local variable](#), [structured variable](#) or [table](#)), that is to be displayed by the Browser.

Note relating to D2000 Thin Client

Thin Client is able to display a structured variable and table. Data are not possible to be edited (you can set them but the change will not be done). For more rules see the page [Drawing rules and object properties for D2000 Thin Client](#).

Controlled object

The parameter **Controlled object row** is optional. If a controlled object is defined, it ([Structured variable](#)) must contain the same structure definition as the displayed object. A defined row of the controlled structure will obtain values according to the currently displayed row. If any row is not selected, the last set values remain in the items in the row of controlled structure variable.

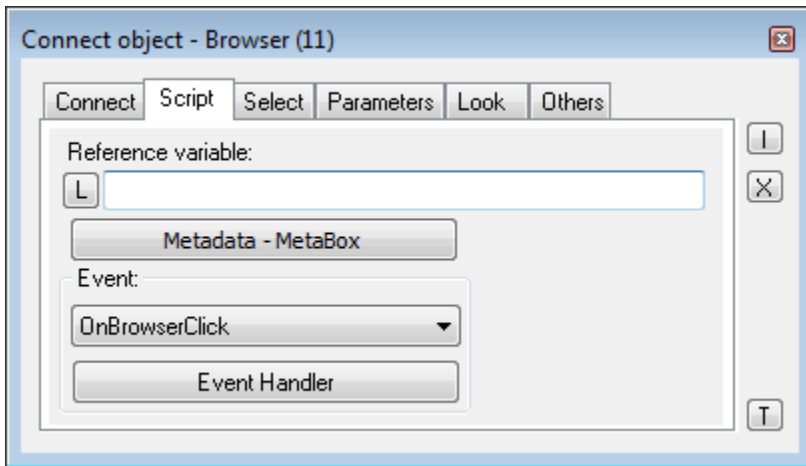
Note relating to D2000 Thin Client

The parameter is not supported in Thin Client. For more rules see the page [Drawing rules and object properties for D2000 Thin Client](#).

Controlled object row

This parameter specifies which row of the controlled object will alter its value. Such an object can be used as e.g. an input parameter for an Event executing some activity according to a row selection in the Browser.

Script



Reference variable

Specifies the name of the displayer in form of reference variable for use in the picture script.

Metadata

Application data ([metadata](#)) can be assigned to each graphic object and to column of Browser displayer in the System D2000 application. If the object contains some metadata, the name of the first record will be displayed in the button. Multiple records are indicated by ",...".

Event

The listbox allows user to select an [active picture event](#) for the displayer. The listbox contains the following active picture events:

- [OnBrowserClick](#)
- [OnColumnClick](#)
- [OnFetchDone](#)
- [OnItemChange](#)
- [OnItemDoubleClick](#)
- [OnItemSelect](#)
- [OnItemValidate](#)
- [OnMouseDown](#)
- [OnMouseEnter](#)
- [OnMouseLeave](#)
- [OnPageChange](#)
- [OnUserInput](#)

Event Handler

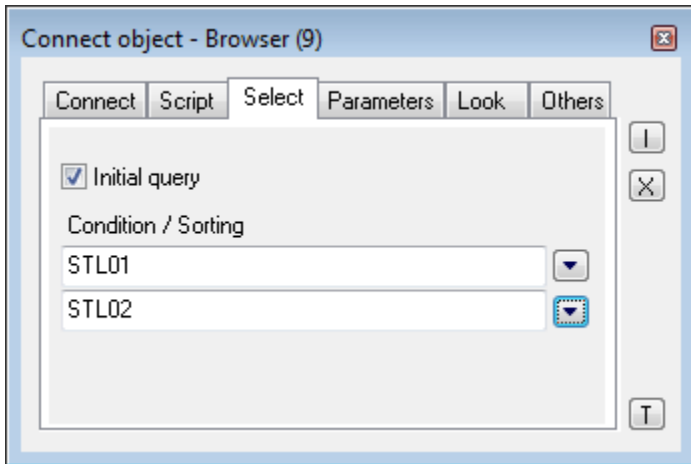
The button opens the active picture script to define the active picture event specified by the parameter **Event**.

Note relating to D2000 Thin Client

Thin Client does not support the Event handler.
For more rules see the page [Drawing rules and object properties for D2000 Thin Client](#).

Select

The tab **Select** may be used only for objects of [Database table](#) type and allows to define a selection condition and a sorting condition.



Initial query

If checked, the condition specified below is applied to the table immediately after opening a picture and the table is filled with the items matching the criteria. Otherwise, after opening a picture the table remains empty. The desired condition is still available, though. However, to be applied, the function **%HI_RefreshData** must be called.

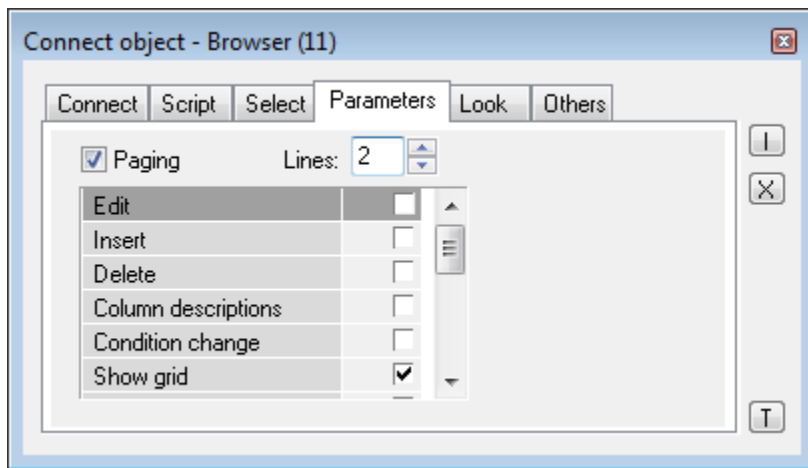
Condition

The input edit box to define a selection condition. A result set will include the objects matching the given mask. Condition syntax is identical with the syntax of condition following the clause **WHERE** in the SQL command **SELECT** (e.g. NAME= 'Test' or VALUE < 32.5). Entering the condition *#empty#* doesn't read any data into the Browser (it can be used to open a Browser, whose condition is generated automatically on opening the picture from the script).

Sorting

The input edit box to define a sorting condition. Selected rows will be sorted by given condition. Condition syntax is the same as the syntax of a condition following the clause **ORDER BY** of the SQL command **SELECT** (e.g. NAME - sorting by the column NAME in ascending order or VALUE DESC - sorting by the column VALUE in ascending order).

Parameters



Set of parameters depends on the type of connected object. For objects of [Database table](#) type all the parameters displayed in the figure above are enabled, for objects of [Structured variable](#) type, only the parameters **Edit** and **Column descriptions** are enabled.

Parameter	Meaning
Paging	Enables / disables paging controls.
Lines	Number of lines in displayed page. Empty value or value 0 means dynamic number of lines depending on the browser's height. For objects of Database table type, the maximum number of lines is limited by a Database configuration parameter Maximum returned rows . Note: For objects of Database table type. Even if a dynamic number of lines is configured (empty value or value 0), after the change of browser's height the browser doesn't automatically refresh its content with changed number of lines. Moreover, moving between the pages also uses the original page size. To use a new page size it is necessary to call the function %HI_RefreshData .
Edit	Enables / disables editing of the displayed object (view object).
Insert	Enables / disables inserting new lines.
Delete	Enables / disables deleting the lines.
Column descriptions	Shows / hides the column captions. Descriptions are defined by the configuration of the object of Structure definition type in the process D2000 CNF - the item Description for given column). If the parameter is not checked, there will be displayed column names.
Condition change	Enables / disables changing the selection and sorting conditions.
Show grid	Shows / hides the grid.
Show selection	Shows / hides highlighting the active (selected) row.
Horizontal borders	Shows/ hides the horizontal row dividing lines.
Vertical borders	Shows / hides the vertical row dividing lines.
Show line numbers	Shows / hides the numbers of lines - first row.
Splitter	The parameter allows to split the Browser into independent sections using the horizontal or vertical splitters.
Show column headers	Shows / hides the row containing the column captions.
Transparent selection	Shows / hides transparent highlighting the active (selected) row (it allows to show the row background color).
Multiselect	Allows to select multiple lines.
Automatic refresh	Sets the automatic refresh in Browser displayer, if the object Table is connected to it.

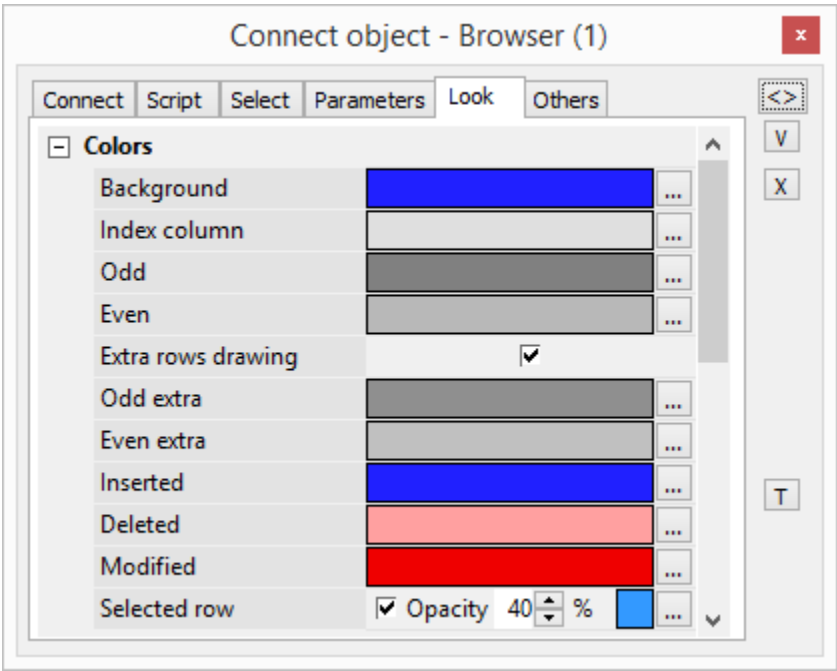
Note relating to D2000 Thin Client

The rows can be neither deleted nor added in Thin Client.
For more rules see the page [Drawing rules and object properties for D2000 Thin Client](#).

Look

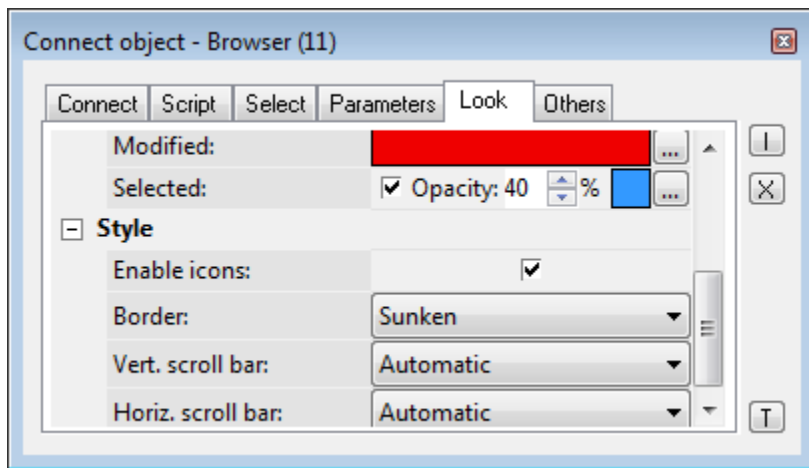
The tab **Look** allows to define an appearance of the Browser.

Colors:



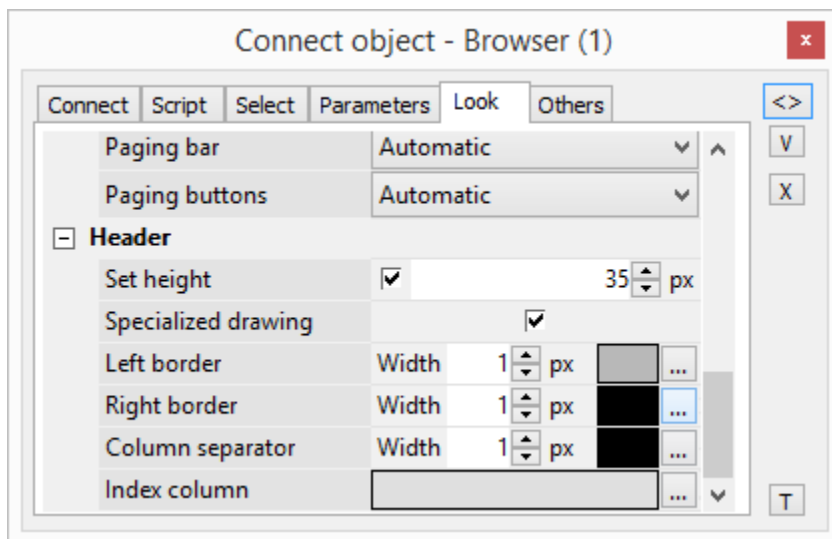
Parameter	Meaning
Background	Background color
Index column	Background color of the index column.
Odd	Background color of odd lines.
Even	Background color of even lines.
Extra rows drawing	Draw extra rows below the data rows
Odd extra	Background color of extra odd lines.
Even extra	Background color of extra even lines.
Inserted	Background color of inserted values.
Deleted	Background color of deleted values.
Modified	Text color of modified values.
Pager	Paging bar background color
Selected	Current row will be highlighted.

Style:



Parameter	Meaning
Enable icons	If the option is checked off, the icons may be set to the cells of browser by the function %HI_SetBrowserItemImage .
Border	Border type (None, Thin, Sunken, Raised).
Horiz. scroll bar	Displaying the horizontal scroll bar (Never, Automatic, Always).
Vertic. scroll bar	Displaying the vertical scroll bar (Never, Automatic, Always).
Paging bar	Enables/disables a paging bar below browser (Never, Automatic, Always).
Paging buttons	Enables/disables buttons on paging bar below browser (Never, Automatic).

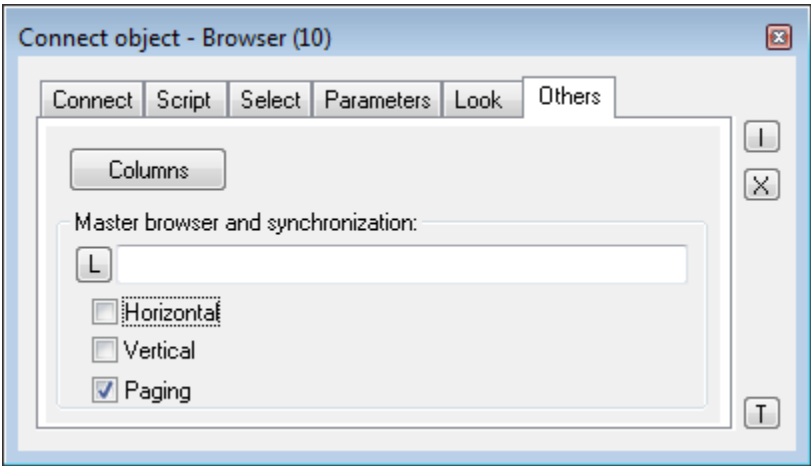
Header:



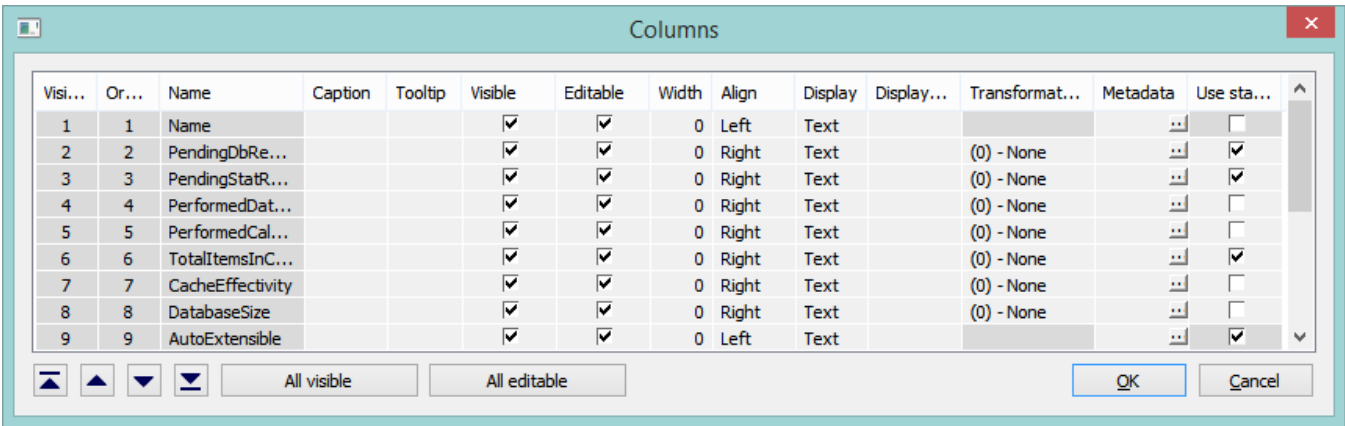
Parameter	Meaning
Set height	If the option is checked, it is possible to specify the height of the header.
Specialized drawing	If the option is checked, it is possible to specify the colors and borders used to draw the header.
Left border	Adjusting the width and color of the column heading border.
Right border	Adjusting the width and color of the column heading border.
Column separator	Adjusting the width and color of the column separator.
Index column	Background color of the header index column

Others


The tab Others contains other, not often used parameters.







The button **Columns** opens the following dialog box allowing to define parameters for displaying individual columns.



Column	Meaning
Visible order	The order of structure columns for displaying in Browser window.
Order in the structure	The order of columns in the structure definition (the user cannot change it).
Name	Name in the structure definition.
Caption	Column name to be displayed in the Browser window.
Visible	Shows / hides the column in the Browser window.
Editable	Enables / disables editing values of the column.
Width	Column width. It may contain arbitrary values. The values of 0 and -1 set the column width as follows: <ul style="list-style-type: none">• 0 - sets the column width by the texts in the column as well as the column header• -1 - sets the column width by the texts in the column (text in the column header is ignored)
Align	Text alignment in the columns.

Display	<p>Defines the type to display the items in given column:</p> <ol style="list-style-type: none"> 1. Text - shows text in the items 2. Text+Button - shows text with button in the items (e.g. 4 ) 3. Checkbox - shows a checkbox for values of <i>Boolean</i> or <i>Integer</i> types. For values of <i>Integer</i> type, the behaviour of checkbox is following: <ul style="list-style-type: none"> checkbox is not checked - invalid value or 0 checkbox is checked - valid value and differ from 0
Displ. palette	<p>Selection of a display palette (double-clicking the item opens the list of display palettes). If mark * is marked in cell, setting from status text of correspondent column is used for colour setting of the cell. It's possible to enter number of column to the cell (according to the order in structure), from which the display palette is inherited to actual column</p>
Trans. palette	<p>Selection of a transformation palette (clicking the item opens the dropdown box containing defined transformation palettes)</p>
Use status text	<p>Sets the editing method of cells. If ticked off, the cells of the given column can be edited by using a list box that contains the status texts defined for the column. If not ticked, you may write a value directly to the text field.</p>
Header background color	<p>Sets the color of header background (requires enabled "Specialized drawing" option)</p>
Header text color	<p>Sets the color of text in header (requires enabled "Specialized drawing" option)</p>
Header font	<p>Sets the font of header (requires enabled "Specialized drawing" option)</p>
Header align	<p>Sets the alignment of text in header (requires enabled "Specialized drawing" option)</p>
Metadata	<p>Allows to configure metadata in the dialog box. If the column contains some metadata, the name of the first record will be displayed in the table. Multiple records are indicated by ",...".</p>

The buttons , ,  and  allow changing the order of columns in the browser window.

The button **All visible** shows / hides all columns in the browser window.

The button **All editable** enables / disables editing values of all columns in the browser window.

Master browser and synchronization

Definition of a browser, which will be joined (synchronized) with the browser. Synchronization is related either to horizontal shifting (the parameter **Horizontal**) or to vertical shifting (the parameter **Vertical**) of the browser using scroll bars and to paging (parameter **Paging**). The paging will be synchronized only if the paging of synchronized browsers is enabled and the number of rows on pages is equal.



Related pages:

[Displayers](#)

[Graphic object manipulation functions](#)