

### Class TPBROWS

This is a subclass of TOBROWSE. In TPBROWS two functions have been added to browse:

- Search and restrict the list of item to the matching pattern
- barcode scanning and the ability to search a location by read code

Searching works on the columns of the list, for which the index key exists. In the attached example (SAMPLE.PRG) the DBSAMPLE is created. DBF FILE. The table has 8 fields:

1. Index1 C 5
2. Index2 C 1
3. Name C 30
4. Group1 C 2
5. Group2 C 3
6. Comment C 20
7. Ean C 13

Five index keys are created :

1. Index1+Index2
2. Name
3. Group1
4. Group2
5. Ean

The list has the following form : Screen 1

Index	Name	Group1	Group2	Comment	EAN
A0001-1	Hyundai ULV50TS292SMART	50	4K		5905256010078
A0001-2	Samsung UE50NU	50	4K	???	5904215129677
A0001-2	Philips 49PFS5302/12	49	FHD	*	5905256010047
A0001-3	Hyundai HLP24T370	24	HD		5905256030014
A0002-1	Thomson 32HD3101	32	HD	Price 200	5905256030038
A0002-2	Blaupunkt BLA-32/148O-GB-11B-E	32	HD		5905256030021
A0003-1	Samsung UE55NU70	55	4K		5904215129660
A0010-1	Blauberg LFS4005	40	FHD		5905256080040
A0010-2	Hitachi 32HB4T01	24	HD		5905256060042
A0010-3	Sharp LC-24CHG6002E	24	HD		5905256060035
A0010-4	Philips 24PHH4000/88	24	HD		5905256060011
A0011-1	Sharp LC-24CHF4012E	24	HD		5905256020060
A0011-2	Lin 32LHD1510	32	HD	?	5905256020053
A0011-3	Thomson 22FB3113	22	HD		5905256020138
A0012-1	Hitachi 24HB4C05	24	HD		5905256020022
A0012-2	Manta 19LHN	19	HD		5905256010207
A0012-3	Manta LED220Q7	22	HD	*	5905256010252
A0012-4	Blaupunkt BLA-236/207O-GB-3B-E	23	HD		5905256020039
A0012-5	Sony KD55X	55	4K		5905256010139
A0013-1	Lin 24LHDD	24	HD		5905256020015
A0013-2	Philips 24PFT4022/12N	24	HD	?	5900017355009
A0013-3	Toshiba 32W1733DG	32	HD		5905256030045
A0013-4	Philips 24PFS5231/12	24	FHD		5905256160032
A0013-5	Samsung UE55NU60	55	4K		5905256010061
A0014-1	Samsung UE40J5200	40	FHD	FullHD	5905256010085

F1 search    F2 last scanned barcode    Esc exit

The first column contains two fields: Index1 and Index2 joined by a hyphen.

In TPBROWSE, the key that starts the search is defined. In the SAMPLE.PRg example, it is F1. Then, TextBox appears above the header of the first catalog column:

Screen 2

Index	Name	Group1	Group2	Comment	EAN
A0001-1	Hyundai ULV50TS292SMART	50	4K		5905256010078
A0001-2	Samsung UE50NU	50	4K	???	5904215129677
A0001-2	Philips 49PFS5302/12	49	FHD	*	5905256010047
A0001-3	Hyundai HLP24T370	24	HD		5905256030014
A0002-1	Thomson 32HD3101	32	HD	Price 200	5905256030038
A0002-2	Blaupunkt BLA-32/148O-GB-11B-E	32	HD		5905256030021
A0003-1	Samsung UE55NU70	55	4K		5904215129660
A0010-1	Blauberg LFS4005	40	FHD		5905256080040
A0010-2	Hitachi 32HB4T01	24	HD		5905256060042
A0010-3	Sharp LC-24CHG6002E	24	HD		5905256060035
A0010-4	Philips 24PHH4000/88	24	HD		5905256060011
A0011-1	Sharp LC-24CHF4012E	24	HD		5905256020060
A0011-2	Lin 32LHD1510	32	HD	?	5905256020053
A0011-3	Thomson 22FB3113	22	HD		5905256020138
A0012-1	Hitachi 24HB4C05	24	HD		5905256020022
A0012-2	Manta 19LHN	19	HD		5905256010207
A0012-3	Manta LED220Q7	22	HD	*	5905256010252
A0012-4	Blaupunkt BLA-236/207O-GB-3B-E	23	HD		5905256020039
A0012-5	Sony KD55X	55	4K		5905256010139
A0013-1	Lin 24LHDD	24	HD		5905256020015
A0013-2	Philips 24PFT4022/12N	24	HD	?	5900017355009
A0013-3	Toshiba 32W1733DG	32	HD		5905256030045
A0013-4	Philips 24PFS5231/12	24	FHD		5905256160032
A0013-5	Samsung UE55NU60	55	4K		5905256010061
A0014-1	Samsung UE40J5200	40	FHD	FullHD	5905256010085

In TextBox, you can enter the searched index (or its origin), e.g. A0010 (Screen 3). Enter will limit the list to items that meet the condition  $\text{Index1} + \text{Index2} = \text{"A0010"}$  (Screen 4).

Screen 3

A0010-					
Index	Name	Group1	Group2	Comment	EAN
A0001-1	Hyundai ULV50TS292SMART	50	4K		5905256010078
A0001-2	Samsung UE50NU	50	4K	???	5904215129677
A0001-2	Philips 49PFS5302/12	49	FHD	*	5905256010047
A0001-3	Hyundai HLP24T370	24	HD		5905256030014
A0002-1	Thomson 32HD3101	32	HD	Price 200	5905256030038
A0002-2	Blaupunkt BLA-32/148O-GB-11B-E	32	HD		5905256030021
A0003-1	Samsung UE55NU70	55	4K		5904215129660
A0010-1	Blauberg LFS4005	40	FHD		5905256080040
A0010-2	Hitachi 32HB4T01	24	HD		5905256060042
A0010-3	Sharp LC-24CHG6002E	24	HD		5905256060035
A0010-4	Philips 24PHH4000/88	24	HD		5905256060011
A0011-1	Sharp LC-24CHF4012E	24	HD		5905256020060

## Screen 4

[illegible]

If you want to search in the other column, then immediately after F1 (Screen 2) the Tab key can be used. TextBox moves to the next indexed column. At the same time, the sorted list changes to match the index key adopted for this column (see aSearch).

Each subsequent pressing of the F1 key on the list removes the restriction for the position.

Barcode scanning is possible for devices that are connected to a keyboard or the USB port. Bar code returned by the scanner must be ended with chr(13). If the read bar code is on the list, the list cursor will be set on it.

### Description of TPBROWSE variables and methods:

**DbCondition** - condition restricting list items. It can be entered before displaying browse. Then immediately the list contains only part of the records. It should be remembered to set the appropriate indexord and be sure to enter the correct keys to Seek\_db and Seek1\_db. In addition, the method optbrows: Home () needs to be activated.

**AddDbCon** – an additional condition – it works like a SET FILTER. E.g. AddDbCon := 'DBSAMPLE->comment="\*"' will show only the items in which the first character of the field DBSAMPLE->Comment is an asterisk. It is not recommended to use this filter for large tables.

**DbFunc** – the name of the function being activated before checking the condition **AddDbCon**. Can

be used if you need to download additional data from other tables needed to verify AddDbCon.

**Seek\_Db** – key setting the first item. For the above example it will be 'A0010'.

**Seek1\_db** – key to set the last position. This is the first value of a key that is not executed by the DbCondition.. For the example above it is 'A0011'.

**BarCode** – the last scanned bar code on tpbrowse. To retrieve the values the GetBarCode method is used.

**MSBarCode** – the maximum time in milliseconds that can elapse between reading the barcode characters.

**ActiveBarCode** – parameter activating barcode scanning on TPBROWSE.

**BarCodeFunc** – an external function that executes bar code search. The bar code does not have to appear in the table connected to TPBROWSE.

**MinLenBarCode** – the minimum number of characters for the bar code. If the scanned code has fewer characters, it is ignored.

**aSearch** – search parameters table. It contains five columns:

1. indexord number
2. maximum number of characters for TextBox
3. inputmask (picture) - the TtextPicture class is used - the parameter is mandatory
4. upper case (true, false)
5. function for transforming entered text into TextBox, e.g. upper

**MessNotFound** – message content in case of failure of search

**MessOutOfRange** – the body of the message when the scanned bar code appears in the database, but this position does not appear on the limited list.

**Method Refres2** – should be used instead of Refresh when you refresh TPBROWSE

**Method GetBarCode** – returns the last scanned bar code

**Method DbSearch** – searching by the columns. The method also can be executed by, for example, usage of the BUTTON control (example in SAMPLE.PRG)