
Subject: Re: How to get edit data in virtual ArrayCtrl?
Posted by [steffen](#) on Thu, 31 May 2007 09:42:01 GMT
[View Forum Message](#) <> [Reply to Message](#)

Thank you very much.

I had a hard time figuring out all those assertions I got when navigating while editing, but looking through the sources I finally understood how it should work.

I ended up with the following two Convert classes:

```
class VirtualField : public Convert
{
private:
    int col;
    GridData *map;
public:
    VirtualField(int aCol, GridData *pMap)
    {
        col = aCol;
        map = pMap;
    }

    virtual Value Format(const Value& q) const
    {
        return map->Get(col, q); // Convert index to value when showing.
    }
};

class VirtualEdit : public Convert
{
private:
    int col;
    GridData *map;
    ArrayCtrl *array;
public:
    VirtualEdit(int aCol, GridData *pMap, ArrayCtrl *pArray)
    {
        col = aCol;
        map = pMap;
        array = pArray;
    }

    virtual Value Format(const Value& q) const
    {
        return map->Get(col, array->GetCursor()); // Edit always at cursor, so return value to edit.
    }
}
```

```

virtual Value Scan(const Value& text) const
{
    map->Set(col, array->GetCursor(), text); // Store value after edit.
    return text;
}
};

```

And then adding the conversion objects when populating:

```

class CANtrakTexts : public WithCANtrakTextsLayout<TopWindow> {
private:
    Array<EditString> edits;
    Array<Convert> converts;
    GridData map;

    ....

void CANtrakTexts::PopulateGrid()
{
    text_grid.Reset();
    edits.Clear();
    converts.Clear();
    for (int i=0 ; i < map.GetColumnCount() ; i++)
    {
        edits.Add().SetConvert(converts.Add(new VirtualEdit(i, &map, &text_grid)));
        text_grid.AddRowNumColumn(map.GetColumn(i),
180).Edit(edits[edits.GetCount()-1]).SetConvert(converts.Add(new VirtualField(i, &map)));
    }
    text_grid.SetVirtualCount(map.GetRowCount());
}
}

```

BTW: Is it ok to use the Array container to hold my edit and convert objects? Is it obsolete or can it be done smarter?

Coming from Delphi I'm thinking in callbacks and I was actually looking for something like `WhenShowVirtualData(int col, int row)` and `WhenAcceptEdit(int col, int row, String val)` or something like that. That would have required much less coding in my case...

Steffen
