

# WebExpander White Paper

---

This whitepaper describes the concept and features introduced in WebExpander.

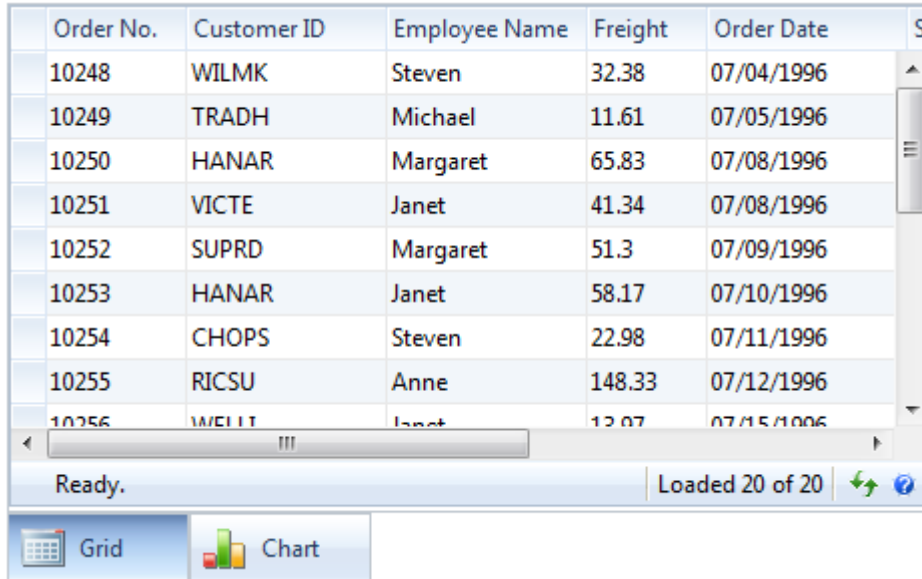
## Table of Contents

- View Customization ..... 2
- Behavior Customization ..... 4
- Rich Content Support..... 5
- Integration to FullPostBack and FlyPostBack (AJAX) ..... 5
- XHTML Compliance ..... 5
- Appearance and Styles..... 6
  - Default Styles ..... 6
  - Layout Overview ..... 7
- Comprehensive Client-side Events ..... 7
- Rich Client-side APIs..... 8

## View Customization

WebExpander provides 4 expand directions, up, down, left, and right.

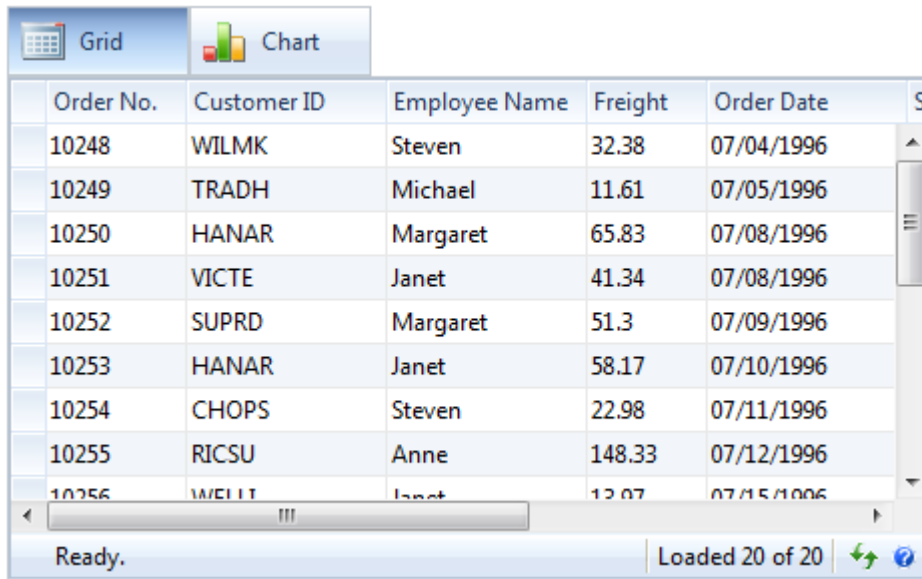
- Up



The screenshot shows a data grid with columns: Order No., Customer ID, Employee Name, Freight, Order Date, and S. The grid contains 20 rows of data. The 'S' column has a small upward-pointing arrow icon next to each row, indicating the 'Up' expand direction. Below the grid, there is a status bar with 'Ready.' and 'Loaded 20 of 20'. At the bottom, there are two buttons: 'Grid' (selected) and 'Chart'.

Order No.	Customer ID	Employee Name	Freight	Order Date	S
10248	WILMK	Steven	32.38	07/04/1996	▲
10249	TRADH	Michael	11.61	07/05/1996	▲
10250	HANAR	Margaret	65.83	07/08/1996	▲
10251	VICTE	Janet	41.34	07/08/1996	▲
10252	SUPRD	Margaret	51.3	07/09/1996	▲
10253	HANAR	Janet	58.17	07/10/1996	▲
10254	CHOPS	Steven	22.98	07/11/1996	▲
10255	RICSU	Anne	148.33	07/12/1996	▲
10256	WELLT	Janet	12.07	07/15/1996	▲

- Down



The screenshot shows the same data grid as above, but with the 'Down' expand direction selected. The 'S' column now has a small downward-pointing arrow icon next to each row. The 'Grid' button is still selected at the bottom.

Order No.	Customer ID	Employee Name	Freight	Order Date	S
10248	WILMK	Steven	32.38	07/04/1996	▼
10249	TRADH	Michael	11.61	07/05/1996	▼
10250	HANAR	Margaret	65.83	07/08/1996	▼
10251	VICTE	Janet	41.34	07/08/1996	▼
10252	SUPRD	Margaret	51.3	07/09/1996	▼
10253	HANAR	Janet	58.17	07/10/1996	▼
10254	CHOPS	Steven	22.98	07/11/1996	▼
10255	RICSU	Anne	148.33	07/12/1996	▼
10256	WELLT	Janet	12.07	07/15/1996	▼

- Left

Order No.	Customer ID	Employee Name	Freight	Order Date
10248	WILMK	Steven	32.38	07/04/1996
10249	TRADH	Michael	11.61	07/05/1996
10250	HANAR	Margaret	65.83	07/08/1996
10251	VICTE	Janet	41.34	07/08/1996
10252	SUPRD	Margaret	51.3	07/09/1996
10253	HANAR	Janet	58.17	07/10/1996
10254	CHOPS	Steven	22.98	07/11/1996
10255	RICSU	Anne	148.33	07/12/1996
10256	WELLT	Janet	12.07	07/15/1996

Ready. Loaded 20 of 20

- Right

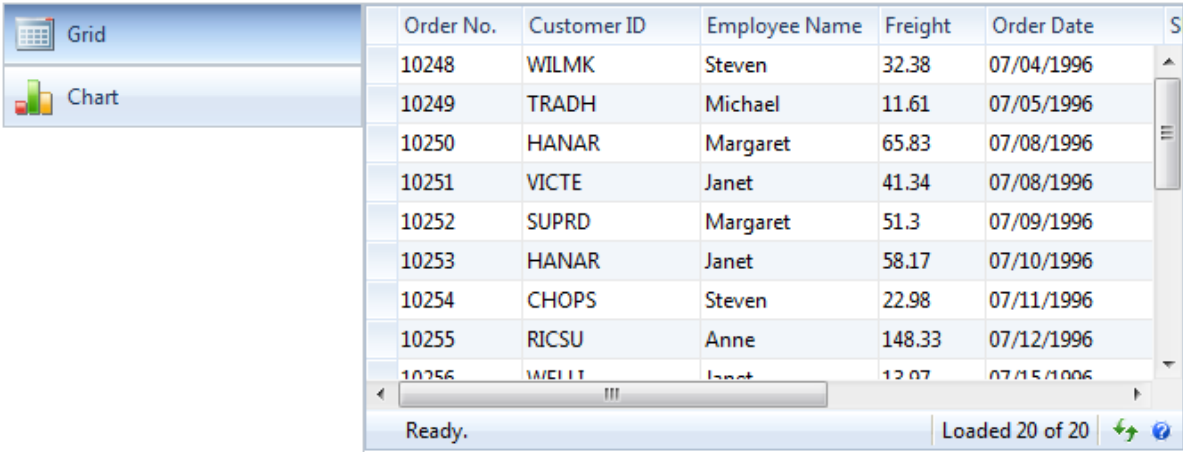
Order No.	Customer ID	Employee Name	Freight	Order Date
10248	WILMK	Steven	32.38	07/04/1996
10249	TRADH	Michael	11.61	07/05/1996
10250	HANAR	Margaret	65.83	07/08/1996
10251	VICTE	Janet	41.34	07/08/1996
10252	SUPRD	Margaret	51.3	07/09/1996
10253	HANAR	Janet	58.17	07/10/1996
10254	CHOPS	Steven	22.98	07/11/1996
10255	RICSU	Anne	148.33	07/12/1996
10256	WELLT	Janet	12.07	07/15/1996

Ready. Loaded 20 of 20

## Behavior Customization

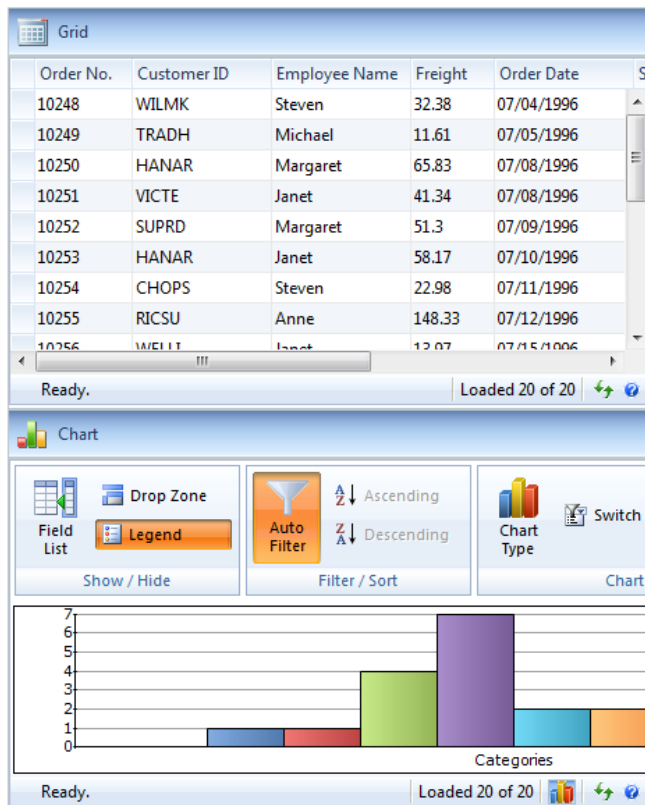
Complementing the expand direction feature, WebExpander also offers 2 expand modes: *Fixed* and *Flow*.

Fixed mode is similar to Tabbed Document Interface (TDI), in which all the content is contained in a single window and the content could be switched using the header item.



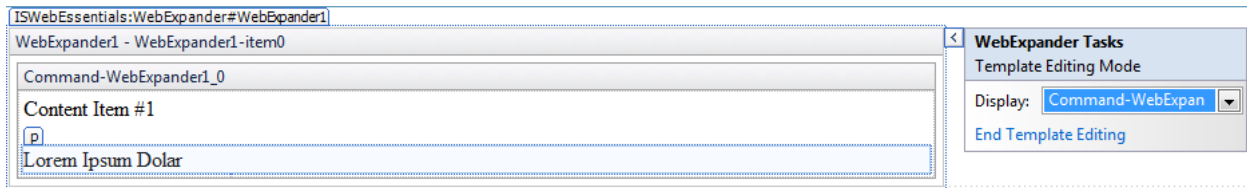
Order No.	Customer ID	Employee Name	Freight	Order Date
10248	WILMK	Steven	32.38	07/04/1996
10249	TRADH	Michael	11.61	07/05/1996
10250	HANAR	Margaret	65.83	07/08/1996
10251	VICTE	Janet	41.34	07/08/1996
10252	SUPRD	Margaret	51.3	07/09/1996
10253	HANAR	Janet	58.17	07/10/1996
10254	CHOPS	Steven	22.98	07/11/1996
10255	RICSU	Anne	148.33	07/12/1996
10256	WELLT	Janet	12.07	07/15/1996

Flow mode is similar to Multiple Document Interface (MDI), in which every header item will have its own content window which will expand in the direction determine in the WebExpander flow property.

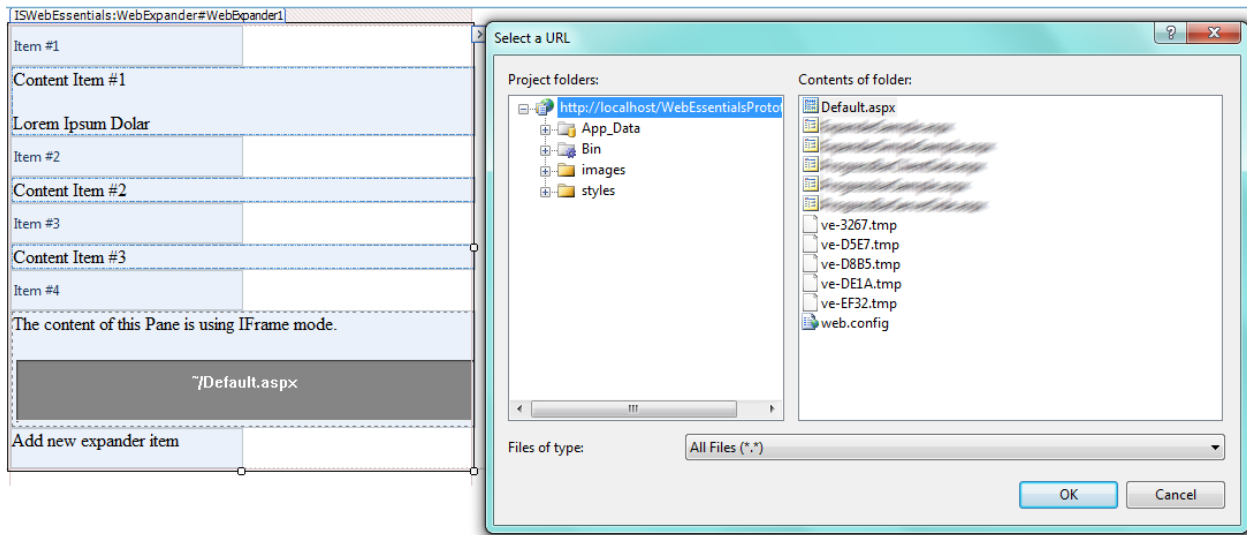


## Rich Content Support

Using custom template in the content and header section, you can deliver a richer content and embed it to WebExpander.



Content sections also support IFrame for rich content.



## Integration to FullPostBack and FlyPostBack (AJAX)

PostBack is triggered on every item expanded or collapsed. WebExpander offers **PostBackMode** property to determine the postback action it uses, FullPostBack and FlyPostBack.

## XHTML Compliance

WebExpander is designed to fully comply with W3C's XHTML standard – providing identical rendering when running in different modern XHTML-ready browsers.

# Appearance and Styles

## Default Styles

The available default styles of WebExpander are:

- Default

Header Item #1	▼	Content Item #1
Item #2	▶	Lorem ipsum dolor sit amet, consectetur adipiscing elit. Etiam vestibulum nibh scelerisque odio elementum vel interdum mi adipiscing. Nunc aliquam euismod purus vel rutrum. Donec tincidunt erat nisi, eget blandit mauris.
Item #3	▶	

- Silver

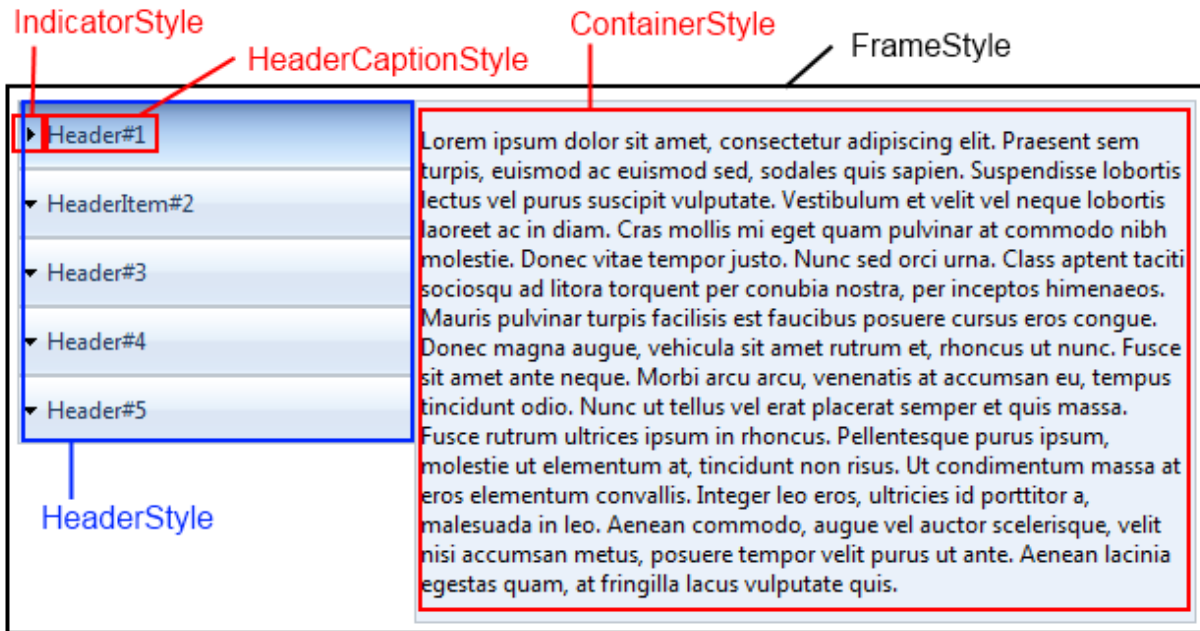
Header Item #1	▼	Content Item #1
Item #2	▶	Lorem ipsum dolor sit amet, consectetur adipiscing elit. Etiam vestibulum nibh scelerisque odio elementum vel interdum mi adipiscing. Nunc aliquam euismod purus vel rutrum. Donec tincidunt erat nisi, eget blandit mauris.
Item #3	▶	

- Office black

▶ Header#1		Lorem ipsum dolor sit amet, consectetur adipiscing elit. Proin nec elit erat, blandit tristique felis. Mauris eget tellus vitae augue varius blandit. Etiam sit amet viverra erat. Fusce pretium dapibus lacinia. Nulla non metus massa. Curabitur aliquet egestas tortor. Aenean scelerisque, neque eu rhoncus vehicula, lectus dui fringilla velit, non gravida turpis lacus nec augue. Aenean consequat arcu eget leo vehicula tristique. Praesent nec lectus et mauris commodo gravida. Quisque interdum euismod justo in lacinia. Donec odio elit, lobortis nec dignissim nec, gravida in quam. Cras semper urna eget augue ullamcorper nec porta lectus tempus. Aliquam ultricies lobortis leo fringilla fermentum. Morbi pellentesque convallis justo sed cursus.
▼ HeaderItem#2		
▼ Header#3		

## Layout Overview

The layout and available property in the WebExpander is depicted in the figure below.



## Comprehensive Client-side Events

The following is the list of client side events in WebExpander.

### **OnClick(*controlId*, *itemName*)**

This client-side event will be invoked when the header of an item is clicked.

### **OnExpanded(*controlId*, *itemName*)**

This client-side event will be invoked after an item is expanded.

### **OnCollapsed(*controlId*, *itemName*)**

This client-side event will be invoked after an item is collapsed.

### **OnResponse(*controlId*, *action*, *xmlResponse*)**

This client-side event will be invoked when response is returned after a FlyPostBack action.

### **OnResponseError(*controlId*, *errorMessage*)**

This client-side event will be invoked if error occurs during a FlyPostBack action.

## Rich Client-side APIs

The following is the list of client side APIs in WebExpander.

Functions	Description
GetFrameElement ()	Gets WebExpander's frame element.
GetHeaderElement (itemName)	Gets WebExpander's header element by item name based on the x value.
GetContentElement ( <i>itemName</i> )	Gets WebExpander's content element by item name based on the x value.