



FanXE

Fantastic XML Editor

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Banking Analysis Section

Division of Monetary Affairs

Board of Governors of the Federal Reserve System

20th Street & Constitution Ave NW, Washington DC, 20551



Introduction

● GUI overview



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- GUI overview
- Command Line Interface



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- Application Examples



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 - **ItemSet**: Report Form Meta Data



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 - **tdom** versus **tcldom**
 - **Tkhtml** versus **ihtml**
 - **Tix** versus **BLT**



GUI Overview

ItemSet V1.52 -- Production

[F10] [Edit] [16:25:21] Showing fanxe://CallIndex/Series[@MDRM='4174'] [Exit]

Search: Trim

Tree: CallIndex //Series[@MDRM='4174'] Trim

Call Report Index

Uniform Item Set

- 00001-09996: Hidden
- 09997-14999: Income
- 15000-19999: Expense
 - 15000 STFBE Expenses
 - 15300 STFBEI Total interest ex
 - 15310 HO_STFBEI_XDO Total interest ex
 - 15320 HO_STFBEI_XFO Total interest ex
 - 15400 STFBEID On deposits
 - 15500 STFBEID_XDO On deposits
 - 15600 STFBEID_XFO On deposits
 - 15700 STFBEIDT_XDO Transaction accou
 - 15800 STFBEIDNL_XDO Nontransactions a
 - 15900 STFBEIDNS_XDO Savings (includin
 - 16000 STFBEIDNL_XDO Large time (depos
 - 16100 STFBEIDNO_XDO Small time (depos
 - 16200 STFBEIF Of Federal Funds
 - 16300 STFBEIT On demand notes i
 - 16400 HO_STFBEI11 On mortgage indeb
 - 16500 STFBEIS On subordinated n
 - 16540 STFBEIH Memo:
 - 16550 HO_STFBEIHI_XFO Intracompany
 - 16600 STFBEIN Total noninterest
 - 16610 STFBEIN_XDA Total noninterest
 - 16620 STFBEIN_XFA Total noninterest
 - 16700 STFBEIS Salaries and empl
 - 16800 STFBEINB Of premises and f
 - 16900 STFBEINO Other
 - 16905 STFBEINOC Data processing e
 - 16910 STFBEINOH Advertising and m
 - 16915 STFBEINOD Directors' fees
 - 16920 STFBEINOS Printing, station
 - 16925 STFBEINOP Postage
 - 16930 STFBEINOL Legal fees and ex
 - 16935 STFBEINOF FDIC deposit insu
 - 17000 STFBEIP Provisions for lo
 - 17100 STFBEPL Loan and lease lo
 - 17110 STFBEPL_XFA Loan and lease lo
 - 17200 HO_STFBEIPA allocated transfe
- 20000-24999: Net income
- 25000-39999: Assets
- 40000-40999: Securities (held to maturi
- 41000-41999: Securities (available for
- 42000-44999: Total securities
- 45000-54999: Liabilities
- 55000-59999: Capital account
- 60000-60999: Regulatory capital
- 61000-62999: Miscellaneous
- 63000-64999: Maturity and repricing
- 65000-67399: Net charge-offs
- 67400-69699: Gross charge-offs
- 69700-71999: Recoveries
- 72000-74298: Delinquencies
- 74299-76599: Past-due 30 days or more
- 76600-78899: Nonaccrual
- 78900-79099: Renotiated (troubled) deb
- 79100-79999: Past-due 90 days or more
- 80000-89999: Off-balance sheet
- 90000-94999: Schedule-K Assets
- 95000-99999: Schedule-K Liabilities

Fed Nomenclature Tree

15500 STFBEID_XDO On deposits

15500 STFBEID_XDO On deposits

Booked in Domestic Offices; Flow;

Formula

Date: 1987/03-9999/12

= +CAL15400-CAL15600 (Depth 3)

= +STFBEID -STFBEID_XFO

Input Series

Date: 1984/09-1986/12

FFIEC-031: +RIAD4174+RIAD4176

FFIEC-032: +RIAD4174+RIAD4176

Log

Edit: 15310

N	Historical	Fedname	Quarterly Average	Attributable (Domestic Foreign)	Booked (Domestic Foreign)	Market Value Securities	Book Value Securities	Taxable Equivalent
15310	<input checked="" type="checkbox"/>	HO: STFBEI	<input type="checkbox"/> _XQR	<input type="checkbox"/> _XDA <input type="checkbox"/> _XFA	<input checked="" type="checkbox"/> _XDO <input type="checkbox"/> _XFO	<input type="checkbox"/> _XMVS	<input type="checkbox"/> _XBVS	<input type="checkbox"/> _XTE

Description: Total interest expense Flow

Type: Formula

Date: 19840930 - 20001231

Depth: 4

Add 15300 15320 13450 16550



Tree Pane

- [-] Call Report Index
- [-] Uniform Item Set
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 - [-] 09997-14999: Income
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 - [-] 20000-24999: Net income
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 - [-] 25000 STFBA Total Assets
 - [-] 25200 STFBA_XFO Total Assets
 - [-] 40000-40999: Securites (held to maturity)
 - [-] 41000-41999: Securites (available for sal
 - [-] 42000-44999: Total securities
 - [-] 45000-54999: Liabilities
 - [-] 55000-59999: Capital account
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 - [-] 90000 STFBA_XQA Total Assets
 - [-] 95000-99999: Schedule-K Liabilities
- [-] Fed Nomenclature Tree
- [-] Size Groups
- [-] Seasonal Adjustment
- [-] New Items
- [-] FanXE Configuration
- [-] User Preferences



Tree Pane

XML Documents (DOMs)

The screenshot shows a tree view with the following items:

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Tree Pane

```
<Section Range="25000-39999" Title="Assets">
  <Series N="25000" Fedname="STFBA">Total Assets
    <Item Type="Formula" BeginDate="19840930" EndDate="99991231">
      <Formula Depth="10">
        <CAL f="+">25300</CAL>
        <CAL f="+">37300</CAL>
        <Alias> +STFBAI +STFBAN</Alias>
      </Formula>
    </Item>
    <Note>RCFD2170</Note>
  </Series>
```

The screenshot shows a tree view with the following structure:

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Fed Nomenclature Tree

Size Groups

Seasonal Adjustment

New Items

FanXE Configuration

User Preferences



Tree Pane

Selecting a node on the tree will apply a style sheet and display the results in the View Pane.

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View Pane

← → ? 25000 STFBA Total Assets

[Edit](#)

25000 STFBA Total Assets

Formula

Date: 1984/09-9999/12

= +[CAL25300](#)+[CAL37300](#) (Depth 10)

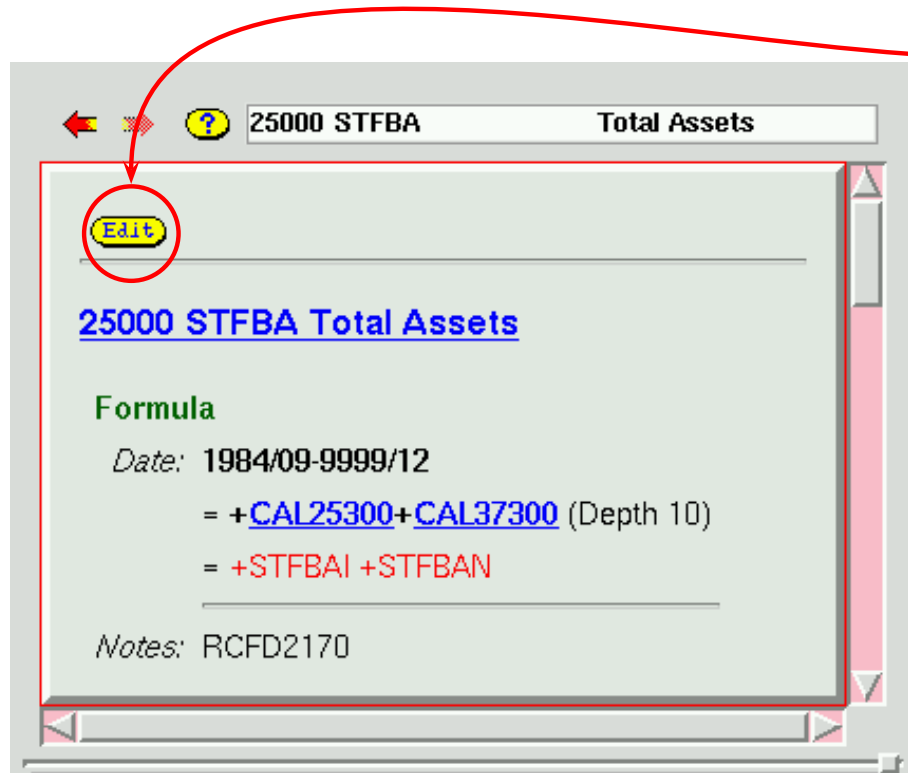
= +STFBAI +STFBAN

Notes: RCFD2170

```
<Section Range="25000-39999" Title="Assets">
  <Series N="25000" Fedname="STFBA">Total Assets
    <Item Type="Formula" BeginDate="19840930" EndDate="99991231">
      <Formula Depth="10">
        <CAL f="+">25300</CAL>
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        <Alias> +STFBAI +STFBAN</Alias>
      </Formula>
    </Item>
    <Note>RCFD2170</Note>
  </Series>
```



View Pane



Selecting the **Edit** button will apply another style sheet and open the results in the Tab Paned.



Tab Pane

Log Close 25000 STFBA Total Assets

Edit: 25000
Size: _XS3A4

Save Refresh XML/ Cancel

N	Historical	Fedname	Quarterly Average	Attributable (Domestic Foreign)	Booked (Domestic Foreign)	Market Value Securities	Book Value Securities	Taxable Equivalent
25000	<input type="checkbox"/> H0.	STFBA	<input type="checkbox"/> _XQA	<input type="checkbox"/> _XDA <input type="checkbox"/> _XFA	<input type="checkbox"/> _XDO <input type="checkbox"/> _XFO	<input type="checkbox"/> _XMVS	<input type="checkbox"/> _XBVS	<input type="checkbox"/> _XTE

Description: Flow

Type: Delete Duplicate Add Balance Sheet Equivalent

Date: -

Depth:

Add

Alias:

Add an Input Series Add a Formula Add a Split Add a Placeholder

Notes: Delete

Save Refresh XML/ Cancel



Tab Pane

Log Close 25000 STFBA Total Assets

Edit: 25000
Size: _XS3A4

Save Refresh <XML/> Cancel

N	Historical	Fedname	Quarterly Average	Attributable (Domestic Foreign)	Booked (Domestic Foreign)	Market Value Securities	Book Value Securities	Taxable Equivalent
25000	<input type="checkbox"/> H0.	STFBA	<input type="checkbox"/> _XQA	<input type="checkbox"/> _XDA <input type="checkbox"/> _XFA	<input type="checkbox"/> _XDO <input type="checkbox"/> _XFO	<input type="checkbox"/> _XMVS	<input type="checkbox"/> _XBVS	<input type="checkbox"/> _XTE

Description: Flow

Type: Delete Duplicate Add Balance Sheet Equivalent

Date: -

Depth:

Add

Alias:

Add an Input Series Add a Formula Add a Split Add a Placeholder

Notes: Delete

Save Refresh <XML/> Cancel

```
<Section Range="25000-39999" Title="Assets">
  <Series N="25000" Fedname="STFBA">Total Assets
    <Item Type="Formula" BeginDate="19840930" EndDate="99991231">
      <Formula Depth="10">
        <CAL f="+">25300</CAL>
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        <Alias> +STFBAI +STFBAN</Alias>
      </Formula>
    </Item>
    <Note>RCFD2170</Note>
  </Series>
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Log Close 25000 STFBA Total Assets

Edit: 25000
Size: _XS3A4

Save Refresh <XML> Cancel

N	Historical	Fedname	Quarterly Average	Attributable (Domestic Foreign)	Booked (Domestic Foreign)	Market Value Securities	Book Value Securities	Taxable Equivalent
25000	<input type="checkbox"/> H0	STFBA	<input type="checkbox"/> _XQA	<input type="checkbox"/> _XDA <input type="checkbox"/> _XFA	<input type="checkbox"/> _XDO <input type="checkbox"/> _XFO	<input type="checkbox"/> _XMVS	<input type="checkbox"/> _XBVS	<input type="checkbox"/> _XTE

Description: Flow

Type: Delete Duplicate Add Balance Sheet Equivalent

Date: -

Depth:

Add + -

Alias:

Add an Input Series Add a Formula Add a Split Add a Placeholder

Notes: Delete

Save Refresh <XML> Cancel

```
<Section Range="25000-39999" Title="Assets">
  <Series N="25000" Fedname="STFBA">Total Assets
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Tab Pane

Log Close 25000 STFBA Total Assets

Edit: 25000
Size: _XS3A4

Save Refresh <XML> Cancel

N	Historical	Fedname	Quarterly Average	Attributable (Domestic Foreign)	Booked (Domestic Foreign)	Market Value Securities	Book Value Securities	Taxable Equivalent
25000	<input type="checkbox"/> H0.	STFBA	<input type="checkbox"/> _XQA	<input type="checkbox"/> _XDA <input type="checkbox"/> _XFA	<input type="checkbox"/> _XDO <input type="checkbox"/> _XFO	<input type="checkbox"/> _XMVS	<input type="checkbox"/> _XBVS	<input type="checkbox"/> _XTE

Description: Flow

Type: Delete Duplicate Add Balance Sheet Equivalent

Date: -

Depth:

Add

Alias:

Add an Input Series Add a Formula Add a Split Add a Placeholder

Notes: Delete

Save Refresh <XML> Cancel

```
<Section Range="25000-39999" Title="Assets">
  <Series N="25000" Fedname="STFBA">Total Assets
    <Item Type="Formula" BeginDate="19840930" EndDate="99991231">
      <Formula Depth="10">
        <CAL f="+>25300</CAL>
        <CAL f="+>37300</CAL>
        <Alias> +STFBAI +STFBAN</Alias>
      </Formula>
    </Item>
    <Note>RCFD2170</Note>
  </Series>
```



Tab Pane

Log Close 25000 STFBA Total Assets

Edit: 25000
Size: XS3A4

Save Refresh XML Cancel

N	Historical	Fedname	Quarterly Average	Attributable (Domestic Foreign)	Booked (Domestic Foreign)	Market Value Securities	Book Value Securities	Taxable Equivalent
25000	<input type="checkbox"/> H0	STFBA	<input type="checkbox"/> _XQA	<input type="checkbox"/> _XDA <input type="checkbox"/> _XFA	<input type="checkbox"/> _XDO <input type="checkbox"/> _XFO	<input type="checkbox"/> _XMVS	<input type="checkbox"/> _XBVS	<input type="checkbox"/> _XTE

Description: Flow

Type: Formula Delete Duplicate Add Balance Sheet Equivalent

Date:

Depth:

Add

Alias:

Add an Input Series Add a Formula Add a Split Add a Placeholder

Notes: Delete

Save Refresh XML Cancel

```
<Section Range="25000-39999" Title="Assets">
  <Series N="25000" Fedname="STFBA">Total Assets
    <Item Type="Formula" BeginDate="19840930" EndDate="99991231">
      <Formula Depth="10">
        <CAL f="+>25300</CAL>
        <CAL f="+>37300</CAL>
        <Alias> +STFBAI +STFBAN</Alias>
      </Formula>
    </Item>
    <Note>RCFD2170</Note>
  </Series>
```



Tab Pane

Log Close 25000 STFBA Total Assets

Edit: 25000
Size: _XS3A4

Save Refresh <XML> Cancel

N	Historical	Fedname	Quarterly Average	Attributable (Domestic Foreign)	Booked (Domestic Foreign)	Market Value Securities	Book Value Securities	Taxable Equivalent
25000	<input type="checkbox"/> H0.	STFBA	<input type="checkbox"/> _XQA	<input type="checkbox"/> _XDA <input type="checkbox"/> _XFA	<input type="checkbox"/> _XDO <input type="checkbox"/> _XFO	<input type="checkbox"/> _XMVS	<input type="checkbox"/> _XBVS	<input type="checkbox"/> _XTE

Description: Flow

Type: Delete Duplicate Add Balance Sheet Equivalent

Date: -

Depth:

Add + +

Alias:

Add an Input Series Add a Formula Add a Split Add a Placeholder

Notes: Delete

Save Refresh <XML> Cancel

```
<Section Range="25000-39999" Title="Assets">
  <Series N="25000" Fedname="STFBA">Total Assets
    <Item Type="Formula" BeginDate="19840930" EndDate="99991231">
      <Formula Depth="10">
        <CAL f="+25300"/CAL>
        <CAL f="+37300"/CAL>
        <Alias>+STFBAI +STFBAN</Alias>
      </Formula>
    </Item>
    <Note>RCFD2170</Note>
  </Series>
```



Tab Pane

Log Close 25000 STFBA Total Assets

Edit: 25000
Size: _XS3A4

Save Refresh <XML> Cancel

N	Historical	Fedname	Quarterly Average	Attributable (Domestic Foreign)	Booked (Domestic Foreign)	Market Value Securities	Book Value Securities	Taxable Equivalent
25000	<input type="checkbox"/> H0.	STFBA	<input type="checkbox"/> _XQA	<input type="checkbox"/> _XDA <input type="checkbox"/> _XFA	<input type="checkbox"/> _XDO <input type="checkbox"/> _XFO	<input type="checkbox"/> _XMVS	<input type="checkbox"/> _XBVS	<input type="checkbox"/> _XTE

Description: Flow

Type: Delete Duplicate Add Balance Sheet Equivalent

Date: -

Depth:

Add

Alias:

Add an Input Series Add a Formula Add a Split Add a Placeholder

Notes: Delete

Save Refresh <XML> Cancel

```
<Section Range="25000-39999" Title="Assets">
  <Series N="25000" Fedname="STFBA">Total Assets
    <Item Type="Formula" BeginDate="19840930" EndDate="99991231">
      <Formula Depth="10">
        <CAL f="+25300"/>
        <CAL f="+37300"/>
        <Alias>+STFBAI +STFBAN</Alias>
      </Formula>
    </Item>
    <Note>RCFD2170</Note>
  </Series>
```



Tab Pane

Log **25000 STFBA** **Total Assets**

Edit: 25000
Size: _XS3A4

Save Refresh XML Cancel

N	Historical	Fedname	Quarterly Average	Attributable (Domestic Foreign)	Booked (Domestic Foreign)	Market Value Securities	Book Value Securities	Taxable Equivalent
25000	<input type="checkbox"/> H0	STFBA	<input type="checkbox"/> _XQA	<input type="checkbox"/> _XDA <input type="checkbox"/> _XFA	<input type="checkbox"/> _XDO <input type="checkbox"/> _XFO	<input type="checkbox"/> _XMVS	<input type="checkbox"/> _XBVS	<input type="checkbox"/> _XTE

Description: Total Assets Flow

Type: **Formula** Delete Duplicate Add Balance Sheet Equivalent

Date: 19840930 - 99991231

Depth: 10

Add

Alias: +STFBAI +STFBAN

Add an Input Series Add a Formula Add a Split Add a Placeholder

Notes: RCFD2170 Delete

Save Refresh XML Cancel

```
<Section Range="25000-39999" Title="Assets">
  <Series N="25000" Fedname="STFBA">Total Assets
    <Item Type="Formula" BeginDate="19840930" EndDate="99991231">
      <Formula Depth="10">
        <CAL f="+>25300</CAL>
        <CAL f="+>37300</CAL>
        <Alias> +STFBAI +STFBAN</Alias>
      </Formula>
    </Item>
    <Note>RCFD2170</Note>
  </Series>
```



Tab Pane

The screenshot shows the '25000 STFBA' tab in the Fantastic XML Editor. The interface includes a 'Log' button, a 'Close' button, and a 'Total Assets' title. Below the title are 'Save', 'Refresh', '<XML/>', and 'Cancel' buttons. A table with columns for 'N', 'Historical', 'Fedname', 'Quarterly Average', 'Attributable (Domestic Foreign)', 'Booked (Domestic Foreign)', 'Market Value Securities', 'Book Value Securities', and 'Taxable Equivalent' is visible. The 'Description' field contains 'Total Assets' and a 'Flow' checkbox. The 'Type' dropdown is set to 'Formula', and the 'Date' range is '19840930 - 99991231'. The 'Depth' is set to '10'. There are two input fields with values '25300' and '37300'. The 'Alias' field contains '+STFBAI +STFBAN'. At the bottom, there are buttons for 'Add an Input Series', 'Add a Formula', 'Add a Split', and 'Add a Placeholder'. A 'Notes' field contains 'RCFD2170' and a 'Delete' button. At the very bottom, there are 'Save', 'Refresh', '<XML/>', and 'Cancel' buttons.

```
<Section Range="25000-39999" Title="Assets">
  <Series N="25000" Fedname="STFBA">Total Assets
    <Item Type="Formula" BeginDate="19840930" EndDate="99991231">
      <Formula Depth="10">
        <CAL f="+>25300</CAL>
        <CAL f="+>37300</CAL>
        <Alias> +STFBAI +STFBAN</Alias>
      </Formula>
    </Item>
    <Note>RCFD2170</Note>
  </Series>
```




GUI Configuration

itemset #2: Edit Tree

Close Tree

Save Refresh <XML/> Cancel

DisplayStyle: Toplevel

Browse: UniformSeries

Edit:

Name: Section

Title: set title "[node @Range]; [node @Title]"

Open when loaded:

Browse: Section

Edit:

DisplayStyle: Section

Insert Delete Duplicate Add a Child Add a Sibling Add saveNode script

Name: Series

Title: set title [Format %5s [node @N1]]
set fedname {}
foreach a { Historical
Fedname

Open when loaded:

Browse: SeriesBrowse

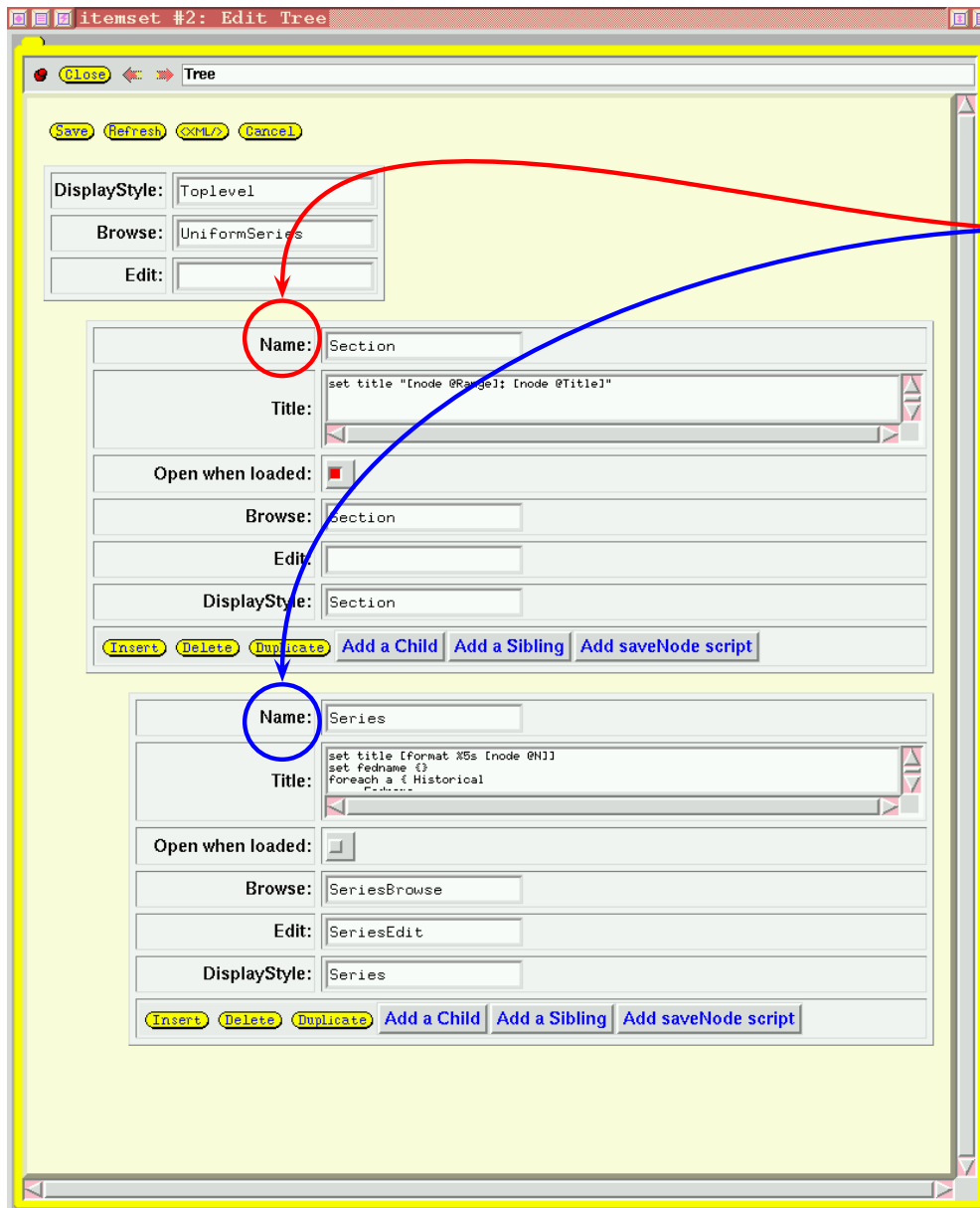
Edit: SeriesEdit

DisplayStyle: Series

Insert Delete Duplicate Add a Child Add a Sibling Add saveNode script



GUI Configuration



“Name” of the element to be displayed in the Tree.



GUI Configuration

The screenshot shows the 'itemset #2: Edit Tree' window. It contains two configuration panels. The top panel is for a 'Section' element, with its 'Name' field circled in red. The bottom panel is for a 'Series' element. Both panels have fields for Name, Title, Open when loaded, Browse, Edit, and DisplayStyle, along with action buttons like Insert, Delete, Duplicate, Add a Child, Add a Sibling, and Add saveNode script.

“Name” of the element to be displayed in the Tree.

```
<Section Range="25000-39999" Title="Assets">
  <Series N="25000" Fedname="STFBA">Total Assets
    <Item Type="Formula" BeginDate="19840930" EndDate="99991231">
      <Formula Depth="10">
        <CAL f="+">25300</CAL>
        <CAL f="+">37300</CAL>
        <Alias> +STFBAI +STFBAN</Alias>
      </Formula>
    </Item>
    <Note>RCFD2170</Note>
  </Series>
```



GUI Configuration

The screenshot shows the 'itemset #2: Edit Tree' window. It features a 'Tree' view at the top and two configuration panels below. The top panel is for a 'Section' element, and the bottom panel is for a 'Series' element. The 'Name' field in the 'Series' panel is circled in blue. The 'Section' panel has a 'Name' field with 'Section', a 'Title' field with 'set title "[node @Range]; [node @Title]"', and a 'DisplayStyle' field with 'Section'. The 'Series' panel has a 'Name' field with 'Series', a 'Title' field with 'set title "[Format %5s [node @N]]"', and a 'DisplayStyle' field with 'Series'. Both panels have buttons for 'Insert', 'Delete', 'Duplicate', 'Add a Child', 'Add a Sibling', and 'Add saveNode script'.

“Name” of the element to be displayed in the Tree.

```
<Section Range="25000-39999" Title="Assets">
  <Series N="25000" Fedname="STFBA">Total Assets
    <Item Type="Formula" BeginDate="19840930" EndDate="99991231">
      <Formula Depth="10">
        <CAL f="+">25300</CAL>
        <CAL f="+">37300</CAL>
        <Alias> +STFBAI +STFBAN</Alias>
      </Formula>
    </Item>
    <Note>RCFD2170</Note>
  </Series>
```



GUI Configuration

itemset #2: Edit Tree

Close Tree

Save Refresh <>XML/> Cancel

DisplayStyle: Toplevel

Browse: UniformSeries

Edit:

Name: Section

Title: set title "[node @Range]; [node @Title]"

Open when loaded:

Browse: Section

Edit:

DisplayStyle: Section

Insert Delete Duplicate Add a Child Add a Sibling Add saveNode script

Name: Series

Title: set title [Format %5s [node @N1]]
set fedname {}
foreach a { Historical
Federal...

Open when loaded:

Browse: SeriesBrowse

Edit: SeriesEdit

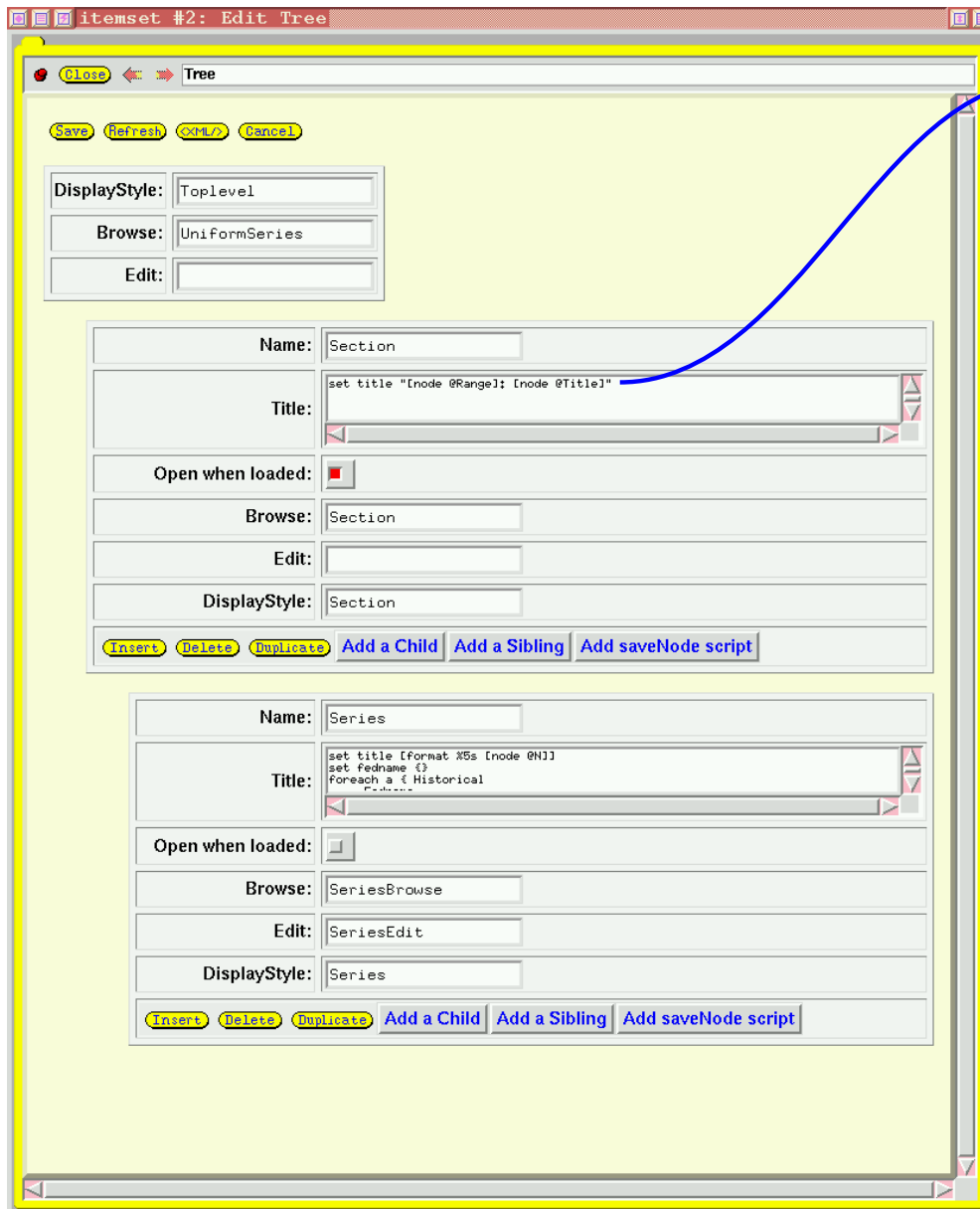
DisplayStyle: Series

Insert Delete Duplicate Add a Child Add a Sibling Add saveNode script

The "Title" contains Tcl code to create the Tree label.



GUI Configuration



set title "[node @Range]: [node @Title]"

This code is executed in a safe Tcl interpreter. The `node` command is aliased to a **tdom** node object.

The final value of *\$title* will be the label in the Tree.

```
<Section Range="25000-39999" Title="Assets">
  <Series N="25000" Fedname="STFBA">Total Assets
    <Item Type="Formula" BeginDate="19840930" EndDate="99991231">
      <Formula Depth="10">
        <CAL f="+">25300</CAL>
        <CAL f="+">37300</CAL>
        <Alias> +STFBAI +STFBAN</Alias>
      </Formula>
    </Item>
    <Note>RCFD2170</Note>
  </Series>
```



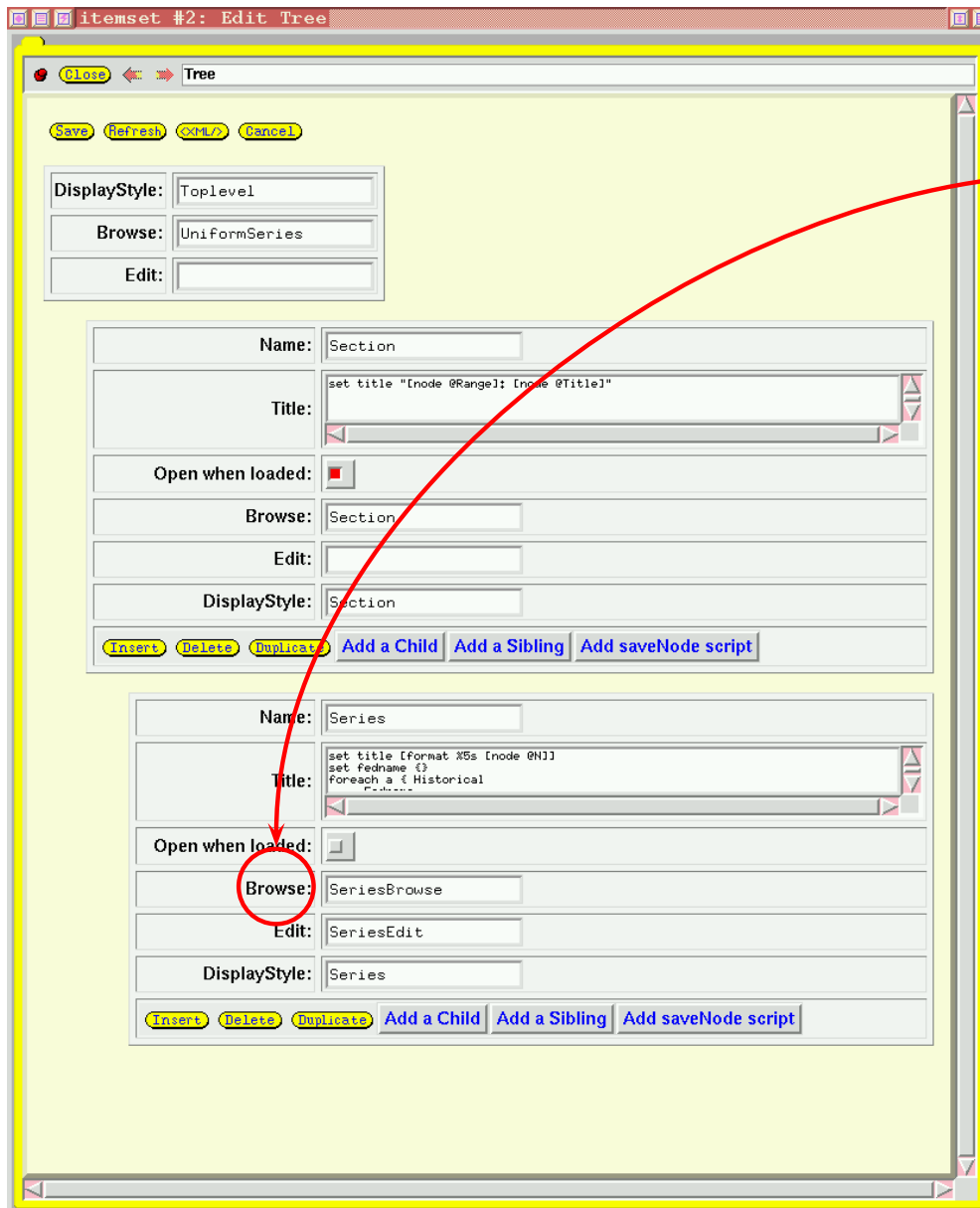
GUI Configuration

set title "[node @Range]: [node @Title]"

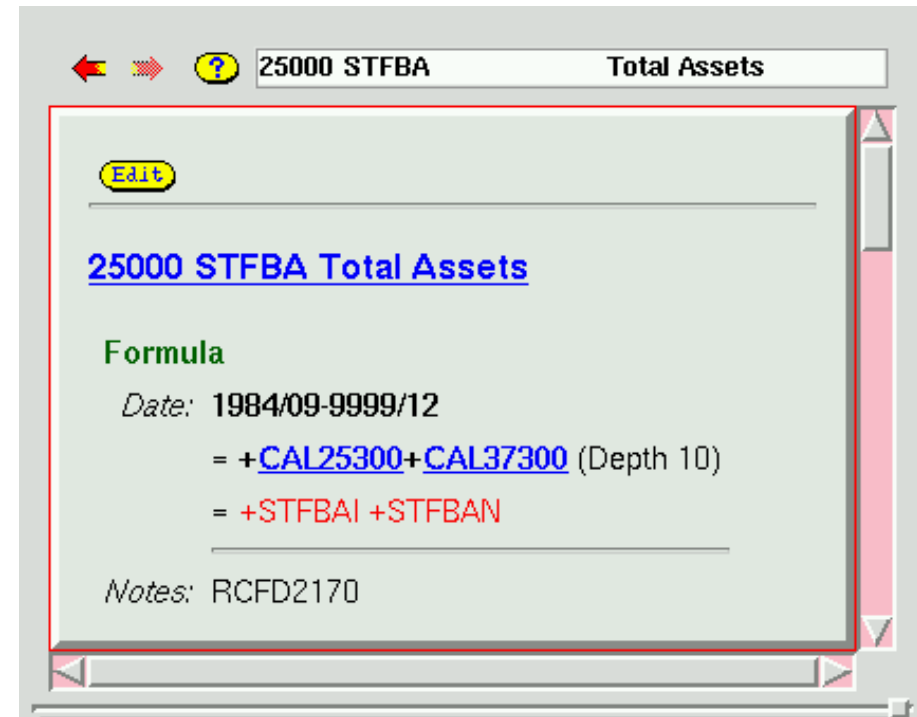
```
<Section Range="25000-39999" Title="Assets">
  <Series N="25000" Fedname="STFBA">Total Assets
    <Item Type="Formula" BeginDate="19840930" EndDate="99991231">
      <Formula Depth="10">
        <CAL f="+">25300</CAL>
        <CAL f="+">37300</CAL>
        <Alias> +STFBAI +STFBAN</Alias>
      </Formula>
    </Item>
    <Note>RCFD2170</Note>
  </Series>
```



GUI Configuration

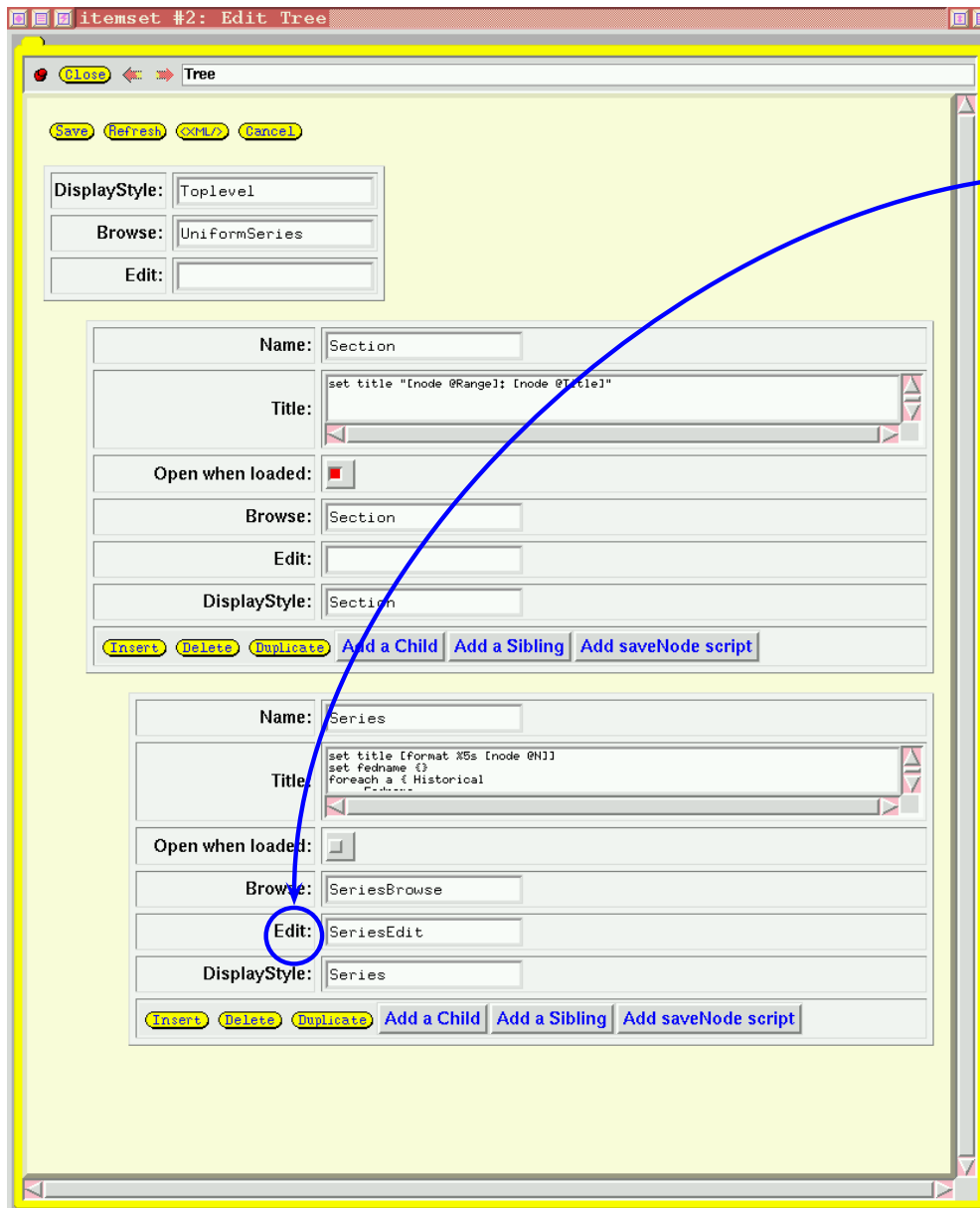


“Browse” contains the name of a style sheet that is applied when selecting a node in the Tree.

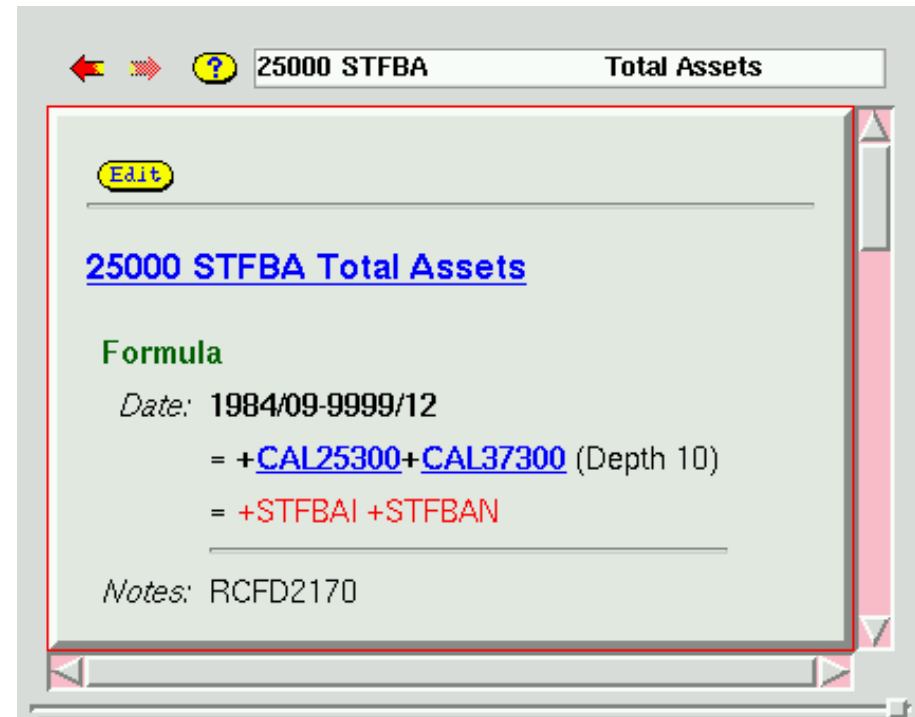




GUI Configuration

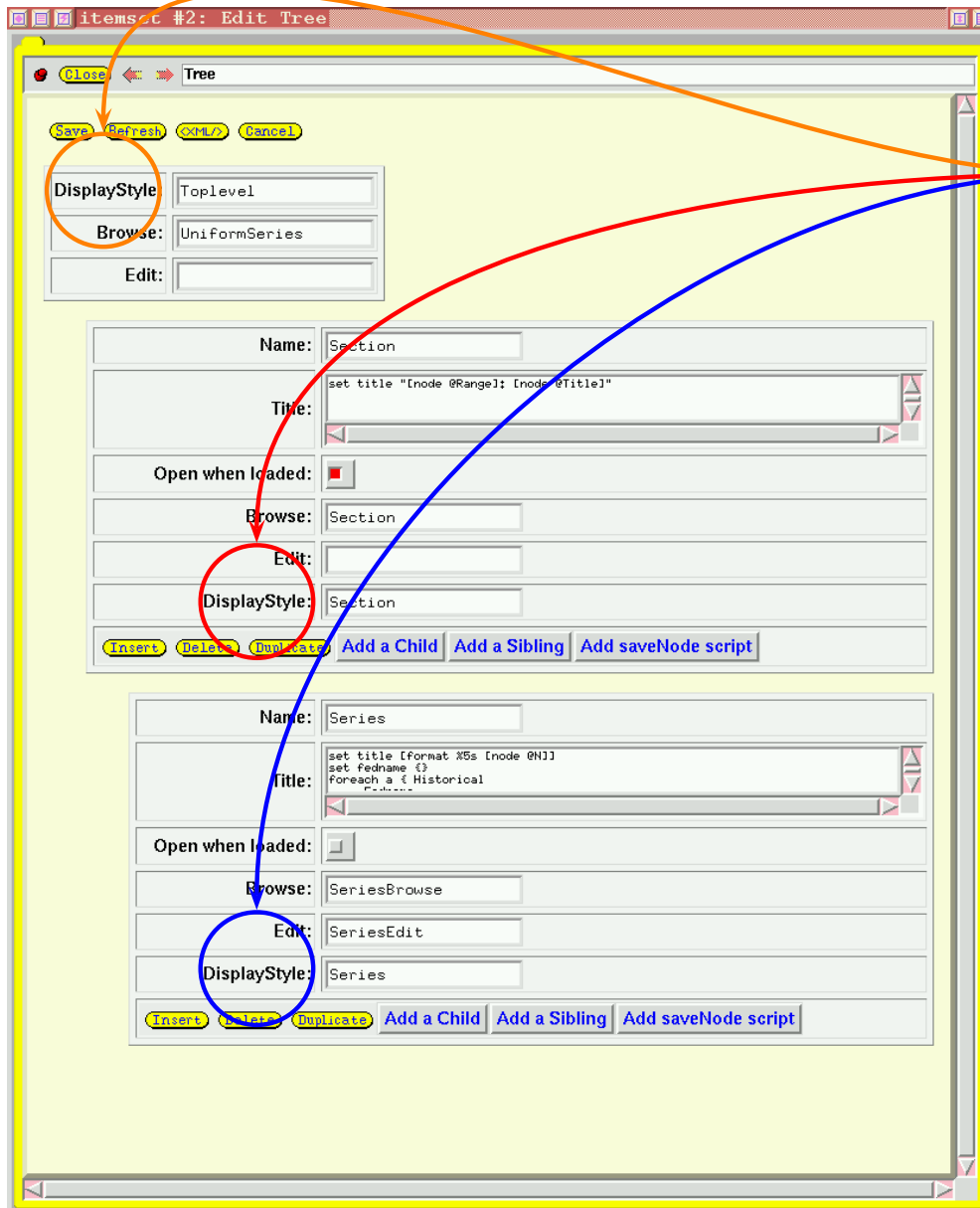


“Edit” contains the name of a style sheet that is applied when the **Edit** button is pressed.





GUI Configuration



“DisplayStyle” contains the name of a **Tix** DisplayStyle object.



GUI Configuration

DisplayStyles control all font properties in the Tree.

itemset #2: Edit Tree

Close Tree

Save Refresh XML/ Cancel

DisplayStyle: Toplevel

Browse: UniformSeries

Edit:

Name: Section

Title: set title "[node @Range]; [node @Title]"

Open when loaded:

Browse: Section

Edit:

DisplayStyle: Section

Insert Delete Duplicate Add a Child Add a Sibling Add saveNode script

Name: Series

Title: set title [Format %5s [node @N]]
set fedname {}
foreach a { Historical
 }

Open when loaded:

Browse: SeriesBrowse

Edit: SeriesEdit

DisplayStyle: Series

Insert Delete Duplicate Add a Child Add a Sibling Add saveNode script

itemset #2: Styles

Close Display Styles

Save Refresh XML/ Cancel

Style	Font	Foreground	Active Foreground	Select Foreground	
Toplevel	3 <input type="checkbox"/> fixed <input checked="" type="checkbox"/> bold <input type="checkbox"/> italic	black	black	black	
Section	3 <input type="checkbox"/> fixed <input type="checkbox"/> bold <input type="checkbox"/> italic	blue	blue	blue	
Series	2 <input type="checkbox"/> fixed <input type="checkbox"/> bold <input type="checkbox"/> italic	darkgreen	darkgreen	darkgreen	
domName	3 <input type="checkbox"/> fixed <input type="checkbox"/> bold <input type="checkbox"/> italic	brown	brown	brown	

Add a Style



Pane Layout

The screenshot shows the 'ItemSet V1.52 -- Production' application window. On the left is a tree view with categories like 'Fed Nomenclature Tree', 'Size Groups', 'Seasonal Adjustment', 'New Items', and 'FanXE Configuration'. The 'FanXE Configuration' section is expanded, showing various settings like 'CallIndex', 'UniformSeries', 'FedTree', etc. The main area displays an 'Options' dialog for configuring the pane layout. The dialog includes fields for 'Geometry' (1265x700+0-0), 'Tearoff geometry', and 'Pane Style'. The 'Pane Style' section shows a grid of pane configurations and a 'Flip' option. Below the dialog is a 'Log' window showing the XML output of the configuration.

Options

Save Refresh <XML> Cancel

Geometry: 1265x700+0-0

Tearoff geometry:

Pane Style:

P1 P2 P3	P1 P2 P3
▼	▲

P1: tree view edit
P2: tree view edit
P3: tree view edit

Pane sizes (%): 30 50

Flip: yes no

Log

```
<Options>
  <geometry>1265x700+0-0</geometry>
  <tearoffGeometry/>
  <panes type="2" flip="no" p1="tree" p2="view" p3="edit" fractions="30 50"/>
  <helpURL/>
  <baseFont/>
  <option class="fixedFont">fixed</option>
</Options>
```



Pane Layout

The screenshot shows the 'ItemSet V1.52 -- Production' application window. On the left is a tree view of the project structure, including sections like 'Fed Nomenclature Tree', 'Size Groups', 'Seasonal Adjustment', 'New Items', and 'FanXE Configuration'. The 'FanXE Configuration' section is expanded, showing various settings like 'CallIndex', 'UniformSeries', 'FedTree', etc. The main area displays the 'Options' dialog for a pane layout. The dialog has a title bar with a question mark and 'Options'. Below the title bar are 'Save', 'Refresh', '<XML>', and 'Cancel' buttons. The 'Geometry' field contains '1265x700+0-0'. The 'Tearoff geometry' field is empty. The 'Pane Style' section shows a 2x2 grid of pane layouts. The top-left pane is selected and circled in red. To the right of the grid are three pane configuration rows: 'P1: tree view edit', 'P2: tree view edit', and 'P3: tree view edit'. Below these is a 'Pane sizes (%)' field with '30 50'. A 'Flip' field has 'yes' selected. At the bottom of the dialog is an XML preview window with a yellow border, showing the following XML code:

```
<Options>
  <geometry>1265x700+0-0</geometry>
  <tearoffGeometry/>
  <panes type="2" flip="no" p1="tree" p2="view" p3="edit" />
  <helpURL/>
  <baseFont/>
  <option class="fixedFont">fixed</option>
</Options>
```



Pane Layout

The screenshot shows the 'ItemSet V1.52 -- Production' application window. On the left is a tree view of the data structure, including sections like 'Fed Nomenclature Tree', 'Size Groups', 'Seasonal Adjustment', 'New Items', and 'FanXE Configuration'. The 'FanXE Configuration' section is expanded, showing various options like 'CallIndex', 'UniformSeries', 'FedTree', etc.

The main area displays the 'Options' dialog box. It contains the following fields and controls:

- Geometry:** 1265x700+0-0
- Tearoff geometry:** (empty)
- Pane Style:** A 2x2 grid of icons representing pane layouts. The top-left icon (P1|P2|P3) is selected and circled in red.
- P1:** tree view edit
- P2:** tree view edit
- P3:** tree view edit
- Pane sizes (%):** 30 50
- Flip:** yes no

Below the dialog box, a yellow-bordered area shows the XML configuration for the options:

```
<Options>  
<geometry>1265x700+0-0</geometry>  
<tearoffGeometry/>  
<panes type="2" flip="no" p1="tree" p2="view" p3="edit" frac  
<helpURL/>  
<baseFont/>  
<option class="fixedFont">fixed</option>  
</Options>
```



Pane Layout

The screenshot shows the 'ItemSet V1.52 -- Production' application window. On the left is a tree view of the data structure, including sections for 'Fed Nomenclature Tree', 'Size Groups', 'Seasonal Adjustment', 'New Items', and 'FanXE Configuration'. The 'FanXE Configuration' section is expanded, showing various settings like 'CallIndex', 'UniformSeries', 'FedTree', 'SizeGroups', 'Seasonal', 'FailSA', 'NewItems', 'Fednames', 'bankname', 'district', 'fanxe', 'myPreferences', 'Preferences', and 'User Preferences'. The 'Options' dialog is open in the center, showing the following configuration:

- Geometry: 1265x700+0-0
- Tearoff geometry: (empty)
- Pane Style: A 2x2 grid of pane icons. The top-left icon (P1|P2|P3) is selected. The top-right icon (P1|P2|P3) has a red diamond in the center.
- Flip: yes (selected), no
- P1: tree (selected), view, edit
- P2: tree, view (selected), edit
- P3: tree, view, edit
- Pane sizes (%): 30 50

Below the dialog is a preview window showing the XML configuration for the options:

```
<Options>
  <geometry>1265x700+0-0</geometry>
  <tearoffGeometry/>
  <panes type="2" flip="no" p1="tree" p2="view" p3="edit" frac
  <helpURL/>
  <baseFont/>
  <option class="fixedFont">fixed</option>
</Options>
```

An orange arrow points from the 'view' button in the P2 pane style configuration to the 'view' button in the P2 pane icon in the preview window.



Pane Layout

ItemSet V1.52 -- Production

File Edit [10:24:43] OK Exit

Search: Trim Search

Tree: Trim Search

63000-64999: Maturity and repricing
65000-67399: Net charge-offs
67400-69699: Gross charge-offs
69700-71999: Recoveries
72000-74298: Delinquencies
74299-76599: Past-due 30 days or more
76600-78899: Nonaccrual
78900-79099: Renotiated (troubled) deb
79100-79999: Past-due 90 days or more
80000-89999: Off-balance sheet
90000-94999: Schedule-K Assets
95000-99999: Schedule-K Liabilities

Fed Nomenclature Tree
Size Groups
Seasonal Adjustment
New Items
FanXE Configuration
CallIndex -- Call Report Index
UniformSeries -- Uniform Item Set
FedTree -- Fed Nomenclature Tree
SizeGroups -- Size Groups
Seasonal -- Seasonal Adjustment
FailSA -- Series with no Seasonal
NewItems -- New Items
Fednames -- Fed Nomenclature Key
bankname -- Bank Names*
district -- Districts*
fanxe -- FanXE Configuration
myPreferences -- User Preferences
Preferences
DisplayStyles
Options
User Preferences
DisplayStyles
Options

Options

Save Refresh <XML> Cancel

Geometry: 1265x700+0-0

Tearoff geometry:

Pane Style:

P1	P2	P3
P1	P2	P3

P1: tree view edit
P2: tree view edit
P3: tree view edit

Pane sizes (%): 30 30

Flip: yes no

Log Close

XML

```
<Options>  
<geometry>1265x700+0-0</geometry>  
<tearoffGeometry/>  
<panes type="2" flip="no" p1="tree" p2="view" p3="edit" frac  
<helpURL/>  
<baseFont/>  
<option class="fixedFont">fixed</option>  
</Options>
```



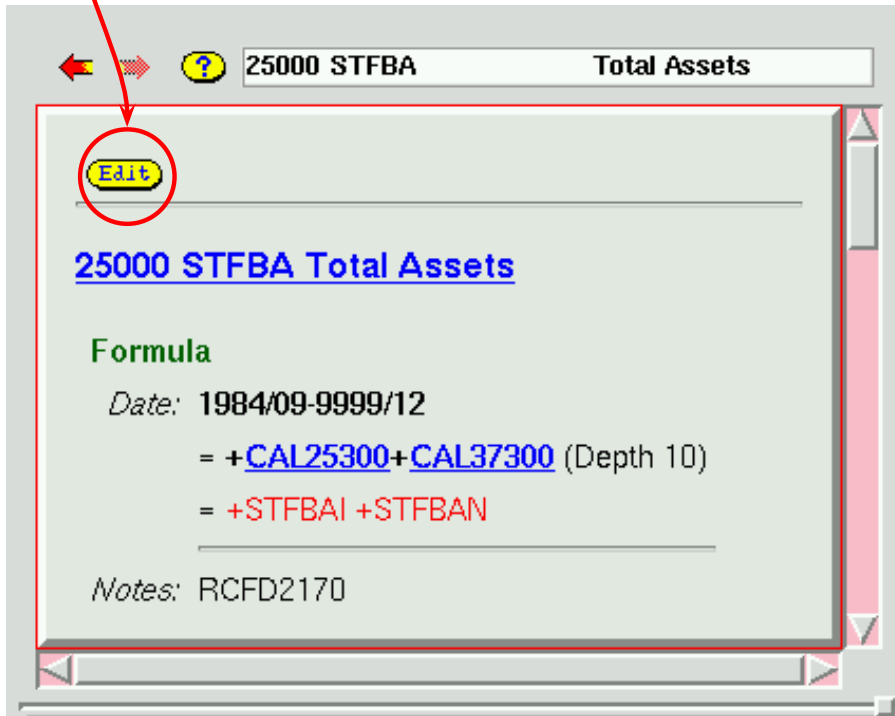

Special Links

The screenshot shows a software window with a title bar containing a back arrow, a right arrow, a question mark icon, and the text "25000 STFBA" and "Total Assets". Inside the window, there is a yellow "Edit" button. Below it is a blue underlined link "25000 STFBA Total Assets". Under the heading "Formula", the text reads: "Date: 1984/09-9999/12", "= +CAL25300+CAL37300 (Depth 10)", and "= +STFBAI +STFBAN". At the bottom, under the heading "Notes:", the text reads "RCFD2170".



Special Links

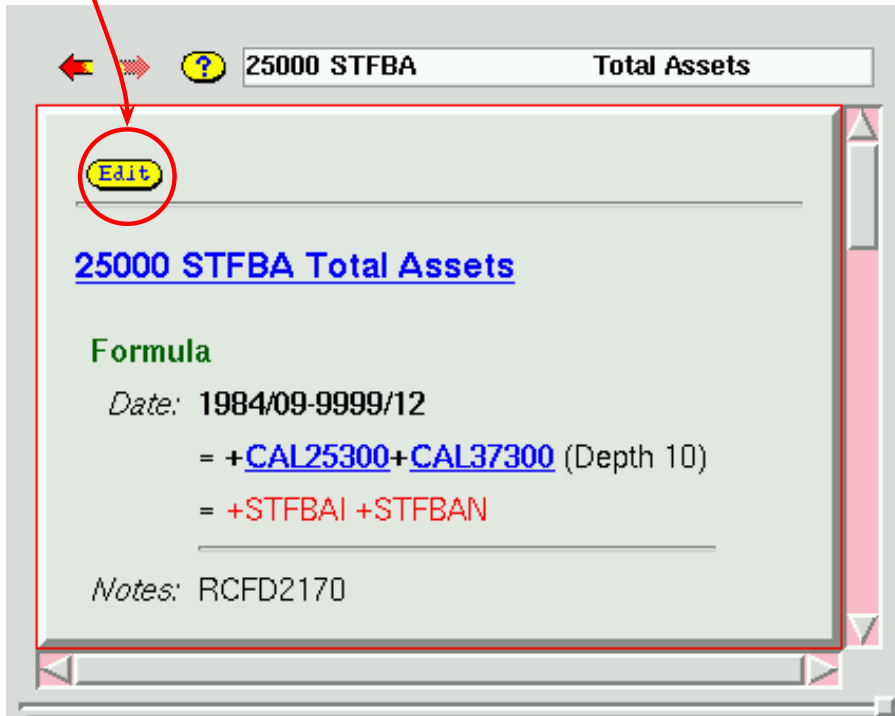
```
<input type="image" name="edit" src="http://FanXE/Edit" value="Edit">
```





Special Links

```
<input type="image" name="edit" src="http://FanXE/Edit" value="Edit">
```



The **FanXE** hostname links to internal images.



Special Links

``

25000 STFBA Total Assets

[Edit](#)

25000 STFBA Total Assets

Formula

Date: 1984/09-9999/12

= +CAL25300+CAL37300 (Depth 10)

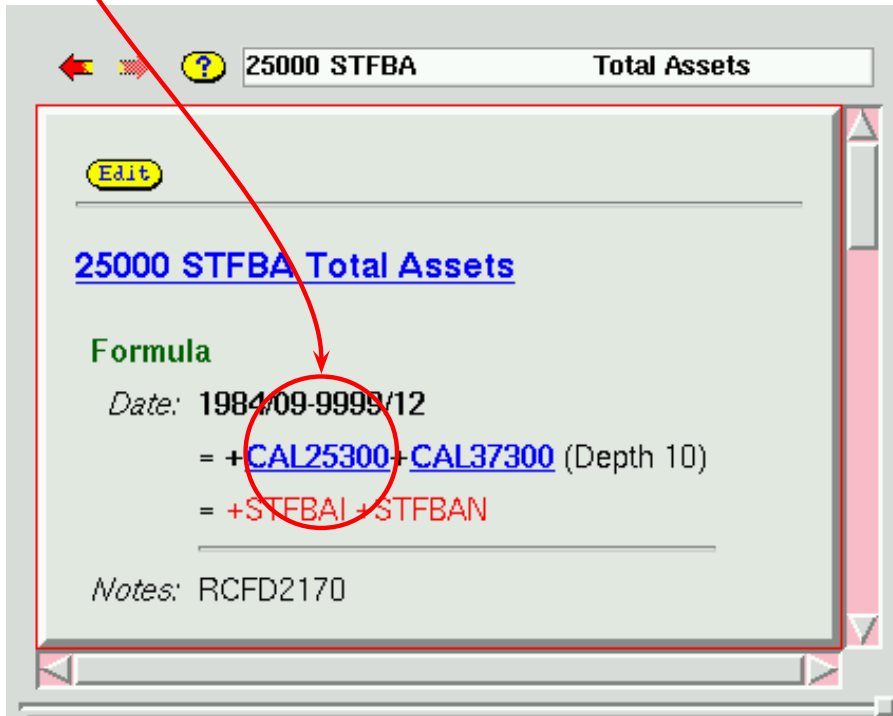
= +STFBAL+STFBAN

Notes: RCFD2170



Special Links

```
<a href="fanxe://UniformSeries//Series[@N='25300']">
```

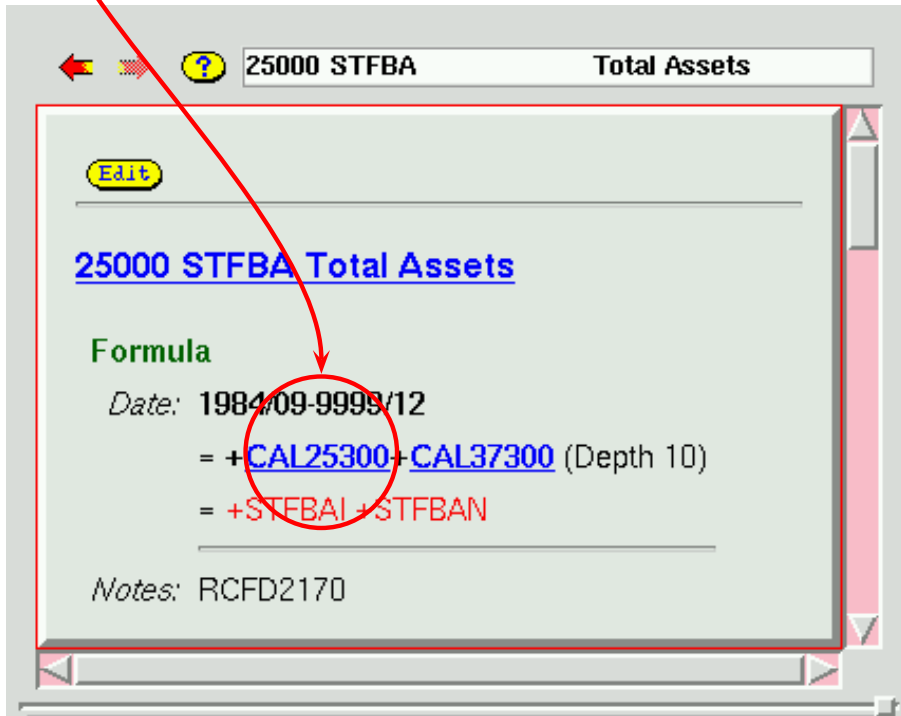


The **fanxe** URI scheme links to XPath expressions.



Special Links

```
<a href="fanxe://UniformSeries//Series[@N='25300']">
```



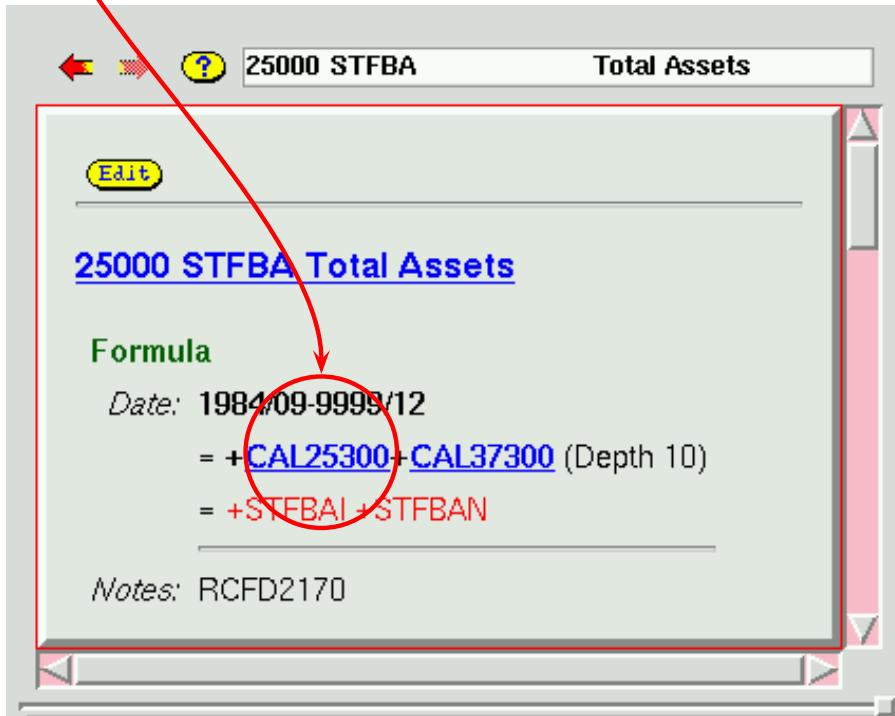
The **fanxe** URI scheme links to XPath expressions.

UniformSeries is the DOM name.



Special Links

```
<a href="fanxe://UniformSeries//Series[@N='25300']">
```



The **fanxe** URI scheme links to XPath expressions.

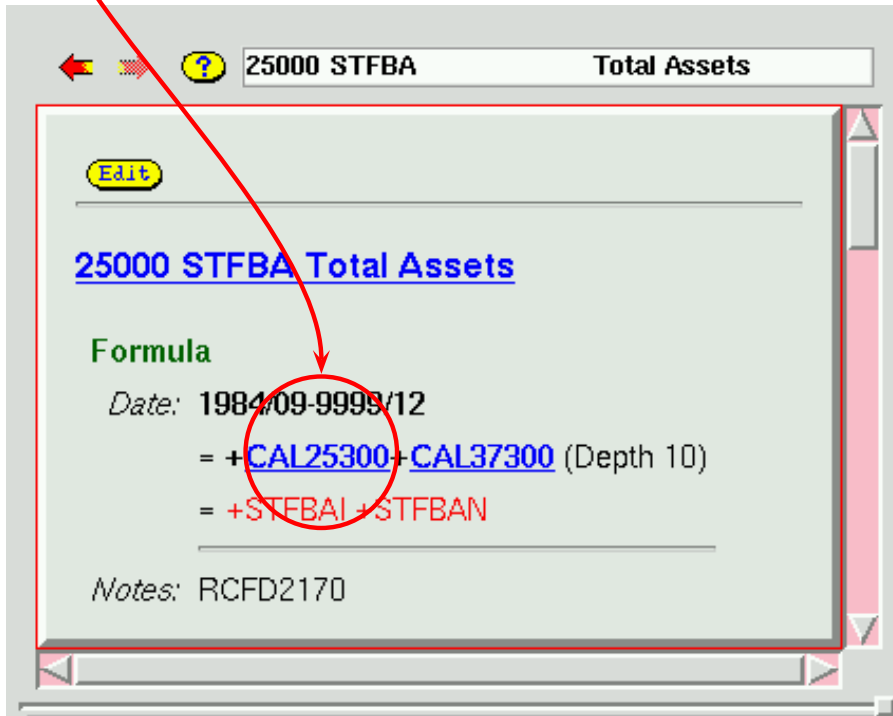
UniformSeries is the DOM name.

//Series[@N='25300'] is the XPath expression.



Special Links

```
<a href="fanxe://UniformSeries//Series[@N='25300']">
```



The **fanxe** URI scheme links to XPath expressions.

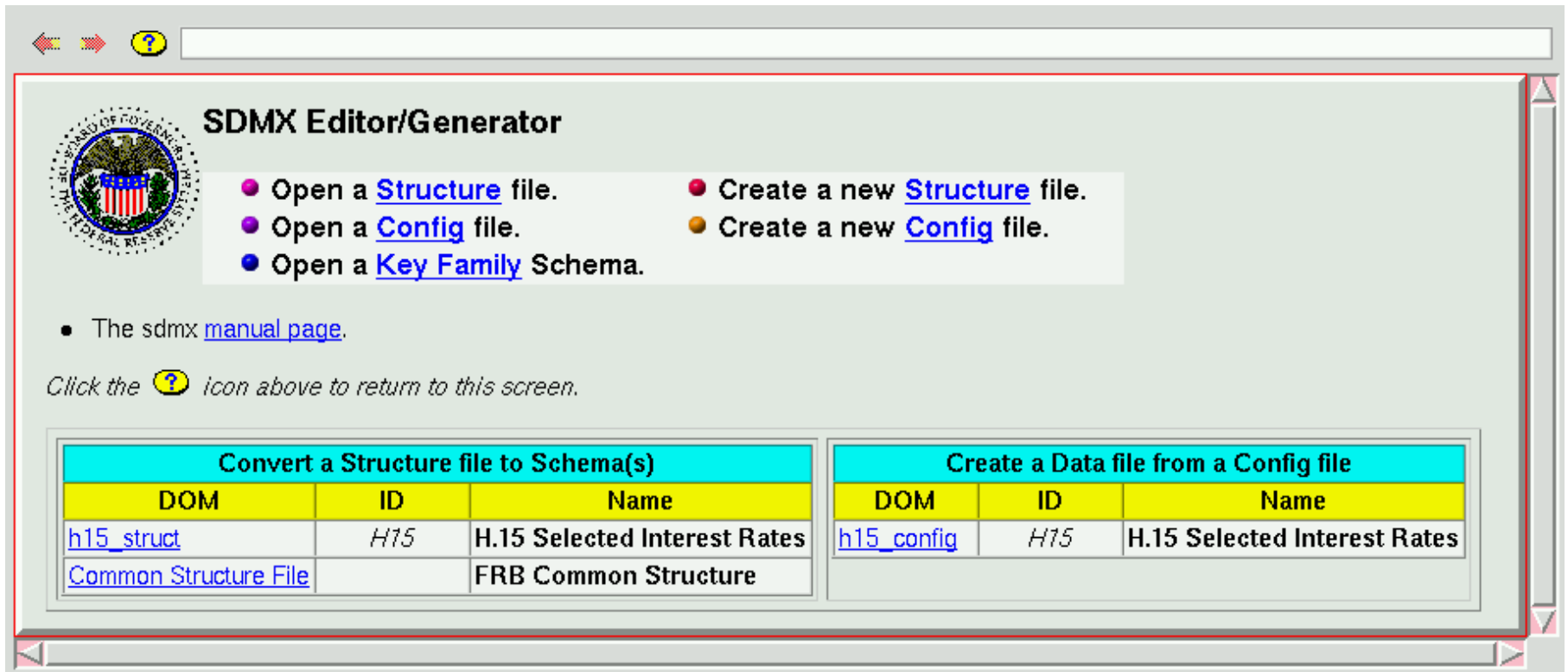
UniformSeries is the DOM name.

//Series[@N='25300'] is the XPath expression.

If multiple nodes match the XPath, the first one is opened and others are highlighted. Middle-clicking opens the first 10 matches in new tabs.



Special Links




The screenshot shows the SDMX Editor/Generator interface. At the top left is the Federal Reserve logo. The main heading is "SDMX Editor/Generator". Below this, there are two columns of links, each preceded by a colored dot: a pink dot for "Open a Structure file.", a purple dot for "Open a Config file.", and a blue dot for "Open a Key Family Schema." in the left column; and a red dot for "Create a new Structure file." and an orange dot for "Create a new Config file." in the right column. Below these is a link to "The sdmx manual page." and a note: "Click the ? icon above to return to this screen." At the bottom, there are two tables. The first table, titled "Convert a Structure file to Schema(s)", has columns for DOM, ID, and Name, with rows for "h15_struct" (ID: H15, Name: H.15 Selected Interest Rates) and "Common Structure File" (Name: FRB Common Structure). The second table, titled "Create a Data file from a Config file", has columns for DOM, ID, and Name, with a row for "h15_config" (ID: H15, Name: H.15 Selected Interest Rates).

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The **FanXE** hostname
links to public methods.

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Special Links

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`build` is the method name.

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Special Links

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`struct` and `h15_struct.xml` are the arguments to the method.

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Command Line Interface

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 - Default method, if X is available, is GUI.



transform method

- Runs an XSLT transformation.



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 - Subclasses can add their own XSLT functions.



Application Examples

ItemSet: Report Form Meta Data

- Driving factor in motivation and design.



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- XML data edited by multiple users.



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- GUI listens for `tableUpdated` and changes are applied immediately.



Application Examples

SDMX: Time Series XML Data

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- Application front-end.
- Users open their own XML documents, not just what was defined in the configuration file.
- Files can be opened by cloning the structure of other XML documents defined in the configuration file.



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- Initially supported both.



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- **tdom** has the fastest XSLT engine.



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- Already using **[incr Tcl]** and the **iwidgets** panedwindow.



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 - A new version in the works?



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Availability

- <http://wklink.freeshell.org/>
- Not always up-to-date. Ask!
- Created as part of my work for the Federal Government.

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Thanks

- John Ousterhout for creating **Tcl/Tk**.
- Jeff Hobbes and the rest of the **Tcl/Tk** core team maintaining everything.
- Michael McLennan for **[incr Tcl]**.
- Jochen Löwer and Rolf Ade for **tdom**.
- D. Richard Hipp for **Tkhtml**.
- George Howlett for **BLT**.
- loi Lam for **Tix** (and others who have kept it working)
- Conference organizers.
- The entire community for providing answers whenever I've had questions.