



New BPS-Features delivered with SAP BW 3.5

The information contained herein reflects current planning and
may be changed without prior notice

Roadmap SAP Business Planning

SAP SEM-BPS

- Integration of master and transactional data
- Excel integration
- Access to plan data via web
- Integration to operational systems via retractors
- Process monitoring
- Reporting and analysis in SAP BW

SAP SEM 3.5/BW3.1

SAP BW-BPS

- Additional features Status and Tracking Monitor
- Statistical Forecast
- Enhancements for characteristic combinations
- Web Interface extensions
- Local Functions in Manual Planning
- Same Look and Feel for Planning and Reporting in Web UI
- Loose coupling of Web UIs

SAP NetWeaver 04

SAP BW-BPS

SAP BW integrated Business Planning

- Web Dynpro based design of planning applications
- Application design for integrated planning in BEx Web and Excel
- Open service framework
- Merger of tools, objects, engines

SAP NetWeaver BI 7.0

SAP BW-BPS

SAP BW integrated Business Planning

- Planning of Master Data
- Planning on ODS Objects, Attributes, Texts
- Offline Planning
- ...

> SAP NetWeaver BI 7.0



- **Additional features Status and Tracking Monitor**
- **Statistical Forecast**
- **Enhancements
for characteristic combinations**
- **Exit Class for customer enhancements in Web
Interfaces**
- **Local Functions in Manual Planning**

- **New monitor for administrator**
- **New monitor for planners**
- **Enhanced administration features**

New Design of Administrators Monitor

SEM-BPS Status and Tracking System

Subplan: STS Demo
Plng Session: Bottom Up

Log Off Tabellendarstellung Start-E-Mail versenden

Expansionslevel wählen

Country post. nodes

Verantwortungsgebiete		Status	Sperrung	Verantwortlicher	Aktueller Bearbeiter	Fertigstellungszeitpunkt	Kommentare	Details
▼ Top Node		In Process		Set global targets	Set global targets			Detail
▼ America		New		STS Manager and Monitor	STS Manager and Monitor	SA 20.03.2004 CET		Detail
USA		New		STS Planner US	STS Planner US	MO 01.03.2004 CET		Detail
▼ Europe		New		STS Planner DE	STS Planner DE	SA 20.03.2004 CET		Detail
Germany		For Approval/Review		STS Planner DE	STS Planner DE	SA 10.04.2004 CET		Detail
France		New						Detail

- **Aggregated status/comment view**
- **Open and close locks ad hoc**
- **Responsible person *and* actual processor (only in direction bottom-up)**
- **Tooltips with additional informations (e.g. comments, last change by)**
- **Send start-E-mails from monitor view**
- **Determin expansion level of hierarchy**

Alternative Monitor View (table view)

SEM-BPS Status and Tracking System

Subplan: STS Demo

Plng Session Bottom Up

Log Off

Hierarchiedarstellung

Start-E-Mail versenden

Country post. nodes

	Verantwortungsgebiete	Status	Sperre	Verantwortlicher	Aktueller Bearbeiter	Fertigstellungszeitpunkt	Kommentare	Details
		New	*					
<input type="checkbox"/>	America	New		STS Manager and Monitor	STS Manager and Monitor	SA 20.03.2004 CET		Detail
<input type="checkbox"/>	USA	New		STS Planner US	STS Planner US	MO 01.03.2004 CET		Detail
<input type="checkbox"/>	Europe	New		STS Planner DE	STS Planner DE	SA 20.03.2004 CET		Detail
<input type="checkbox"/>	France	New		-	-			Detail

- Sort/ Filter by values

SEM-BPS Status and Tracking System

[My area of responsibility:](#) > Germany

Subplan: STS Demo

Plng Session: Bottom Up

Verantwortungsbereich: Germany

Present Status:  [For Approval/Review on 11.02.2004](#)

Due On:  SA 10.04.2004 CET

Responsible Pers: [STS Planner DE](#) STS_PLANNER2

Aktueller Bearbeiter: [STS Planner DE](#) STS_PLANNER1

E-Mail versenden an: [Verantwortlichen der darüberliegenden Ebene](#)

- Send E-Mail to responsible planner on next higher level
- Additional comments (text element)

- **Text element for user informations per plannings session (create in SE61)**
- **Cascading status switch only for underlying nodes**
- **With synchronous execution of planning sequence the UI shows a “please wait”-pop up and blocks further entries.**

The screenshot shows a dialog box titled "Attributes for Planning Session". It contains several sections and options:

- Direction:** A section with the label "Planning Session Direction" and two radio buttons: "Bottom-Up" (selected) and "Top-Down".
- Planning Sequence:** A section with a checkbox "Plng Sequence on Status Switch" (unchecked) and two radio buttons: "Synchron" and "As Background Job".
- Automatic E-mail Dispatch Active:** A checkbox (checked).
- Use Time:** A checkbox (unchecked).
- Use Cascading Status Switch:** A checkbox (unchecked).
- Text Element:** A text input field with a yellow background.

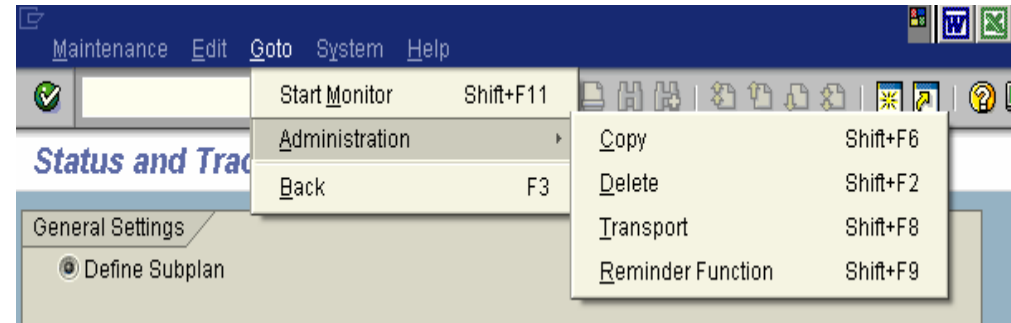
At the bottom of the dialog box, there are two buttons: "Confirm" and "Cancel".

Additional new functionalities – Part 2

- **Additional menu entries in customizing transaction**
- **Administration**
 - ◆ **Delete/ copy of planning sessions**
 - ◆ **Delete planning round**
 - ◆ **Transport of planning rounds/planning sessions**
 - ◆ **send reminder E-Mail**

- **New status type: ‘any’**

This simplifies to schedule planning sequences at status switches, e.g. from ‘new’ to ‘any’



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- **Statistical Forecast**
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Statistical Forecast

The screenshot shows the SAP Statistical Forecast configuration interface. At the top, the 'Planning function' is set to 'STATFC' and the title is 'Statistical Forecasts BW 3.5'. Below this, the 'Forecast strategy' dropdown menu is open, displaying a list of forecasting models. The 'Automatic model selection using process 2' option is highlighted in blue. To the left, there are sections for 'Fields for Cond' and 'Field List' with various input fields like 'Buyer ID', 'Country', and 'Material'. At the bottom, there are two columns of input fields for 'Fiscal year/period', 'Key figure name', and 'Material'.

Planning function	STATFC	Statistical Forecasts BW 3.5
Planning func. type	Forecast	
Time characteristic	Fiscal year/period	
Forecast strategy	[Dropdown menu]	

- First-order exponential smoothing
- Constant model with automatic alpha adaptation (1st order)
- Moving average
- Moving weighted average
- First-order exponential smoothing (with trend)
- Second-order exponential smoothing (with trend)
- Trend model with automatic alpha adaptation (2nd order)
- Seasonal trend based on the Winters method
- First-order exponential smoothing (with trend & season)
- Test for trend
- Test for season
- Test for trend and season
- Seasonal model and test for trend
- Trend model and test for seasonal pattern
- Automatic model selection using process 2

Additional forecast strategies

New Look & Feel

Automatic Model Selection based on reference data trend

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Enhancements Characteristic Relationships

Planning area - Basis DEMAND Demand Aggregation

Attributes Data slices Variables MasterData **Characteristic Rels**

Step All Steps

Define chara. relationships

Detail	Step	Type	Characteristics Inv
	1	Attribute	Material Material group
	2		
	3		
	4		

Where-Used List for Selected Steps

Plan Area	Pl. level	Sequence	Step	Usage	Characteristic	Long description	Note
DEMAND	DA000	0	1	Combination Check	0MATERIAL	Material	
			1	Combination Check	0MATL_GROUP	Material group	
	DA001	1	1	Derivation/ Source Char.	0MATERIAL	Material	
			1	Derivation/ Target Char.	0MATL_GROUP	Material group	
	DA002		1	Derivation/ Source Char.	0MATERIAL	Material	
			1	Derivation/ Target Char.	0MATL_GROUP	Material group	
	DA0021	0	1	Combination Check	0MATERIAL	Material	
			1	Combination Check	0MATL_GROUP	Material group	
	DA003	1	1	Derivation/ Source Char.	0MATERIAL	Material	
			1	Derivation/ Target Char.	0MATL_GROUP	Material group	

**Where-used-
functionality on
planning area shows all
levels where the rule
applies.**

Where-Used List on Planning Area

Display planning area DEMAND

Close navigation ⓘ Planning profile Global planning sequences Set Variables

Planning areas Techni...
▼ Demand Aggregation DEMAND
▶ Admin Detail Level DA000
▶ Buyer/Manager Dema DA002
▶ Demand Aggregation DA0021
▶ Manager Demand Ag DA001
▶ Transfer to Buyer DA003
▶ Transfer to XI DA010

Planning area - Basis DEMAND Demand Aggregation ⓘ

Attributes Data slices Variables MasterData Characteristic Rels

Step All Steps

Display chara. relationships

Detail	Step	Type	Characteristics Involv...	Derivat...	Source Charact.	Ch...
ⓘ	1	Attribute	Material	<input checked="" type="checkbox"/>	Material	ⓘ
			Material group			
ⓘ	2			<input type="checkbox"/>		ⓘ
ⓘ	3			<input type="checkbox"/>		ⓘ
ⓘ	4			<input type="checkbox"/>		ⓘ
ⓘ	5			<input type="checkbox"/>		ⓘ
ⓘ	6			<input type="checkbox"/>		ⓘ
ⓘ	7			<input type="checkbox"/>		ⓘ
ⓘ	8			<input type="checkbox"/>		ⓘ
ⓘ	9			<input type="checkbox"/>		ⓘ
ⓘ	10			<input type="checkbox"/>		ⓘ
ⓘ	11			<input type="checkbox"/>		ⓘ
ⓘ	12			<input type="checkbox"/>		ⓘ

Planning functions

Where-used for all steps

Show where a single step is used

Where-Used List on Planning Area: Result

Where-used-functionality on planning level tabstrip shows all rules that apply on that planning level.

Display planning area DEMAND

Close navigation | Planning profile | Global planning sequences | Set Variables

Planning areas: Demand Aggregation (DEMAND), Admin Detail Level (DA000), Buyer/Manager Dema (DA002), Demand Aggregation (DA0021), Manager Demand Ag (DA001), Transfer to Buyer (DA003), Transfer to XI (DA010)

Planning area - Basis: DEMAND Demand Aggregation

Attributes | Data slices | Variables | MasterData | Characteristic Rels

Where-Used List for Selected Steps

Plng Area	Pl. level	Sequence	Step	Usage	Characteristic	Long description	Note
DEMAND	DA000		1	Combination Check	0MATERIAL	Material	
			1	Combination Check	0MATL_GROUP	Material group	
	DA001		1	Derivation/ Source Char.	0MATERIAL	Material	
			1	Derivation/ Target Char.	0MATL_GROUP	Material group	
	DA002		1	Derivation/ Source Char.	0MATERIAL	Material	
			1	Derivation/ Target Char.	0MATL_GROUP	Material group	
	DA0021	0	1	Combination Check	0MATERIAL	Material	
			1	Combination Check	0MATL_GROUP	Material group	
	DA003		1	Derivation/ Source Char.	0MATERIAL	Material	
			1	Derivation/ Target Char.	0MATL_GROUP	Material group	
	DA010	0	1	Combination Check	0MATERIAL	Material	
			1	Combination Check	0MATL_GROUP	Material group	

CIM (1) (003) | iwdf9339 | INS

Start | Inboxes - Micros... | 2 Internet E... | SAP Logon 620 | Display plan... | C:\Documents... | 3 Microsoft ... | 08:28

Check whether a step applies on Planning Level

Change planning level DA003

Close navigation | Planning profile | Global planning sequences | Set Variables

Planning Level: DA003 | Transfer to Buyer

Chars. | Selection | Key figures | Description | **Characteristic Rels**

Character Relationships Used

Plng Area	Sequence	Step	Characteristic	Long description	Usage	Note
DEMAND	1	1	0MATERIAL	Material	Derivation/ Source Char.	
		1	0MATL_GROUP	Material group	Derivation/ Target Char.	

Check tab Characteristic Relationship

Planning areas

- Demands Aggregation DEMAND
- Admin Detail Level DA000
- Buyer/Manager Dema DA002
- Demand Aggregation DA0021
- Manager Demand Ag DA001
- Transfer to Buyer DA003**
- Ad hoc package 0-ADHOC
- Transfer to XI DA010

Planning functions

- Transfer to Buyer
 - Copy
 - Distribute for default value

- **Additional features Status and Tracking Monitor**
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Exit Class Web Interface Builder I

Event handler

In order to react on end user actions BSP event handlers are used.

A planning application uses:

- OnInitialisation
- OnInputprocessing

Where to find:

- Open generated BSP using transaction SE80
- Expand the hierarchy as shown in the screenshot.

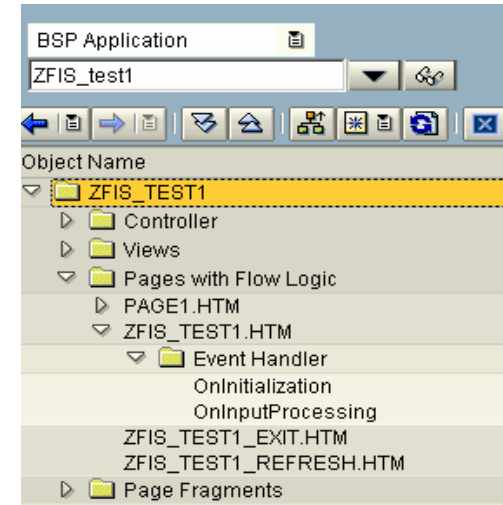
The class CL_UPWB_BSP_APPL

This class implements the event handler

It offers the following methods for redefinition (technical name):

- Output Processing (*initialisation*)
 - ◆ Initialisation (*load*)
 - ◆ Dispatching of activities (*dispatch*)
- Input Processing (*inputprocessing*)
 - ◆ Dispatching of activities (*dispatch*)

Note: The grouping indicates, that e.g. the load method is called by the initialisation method.

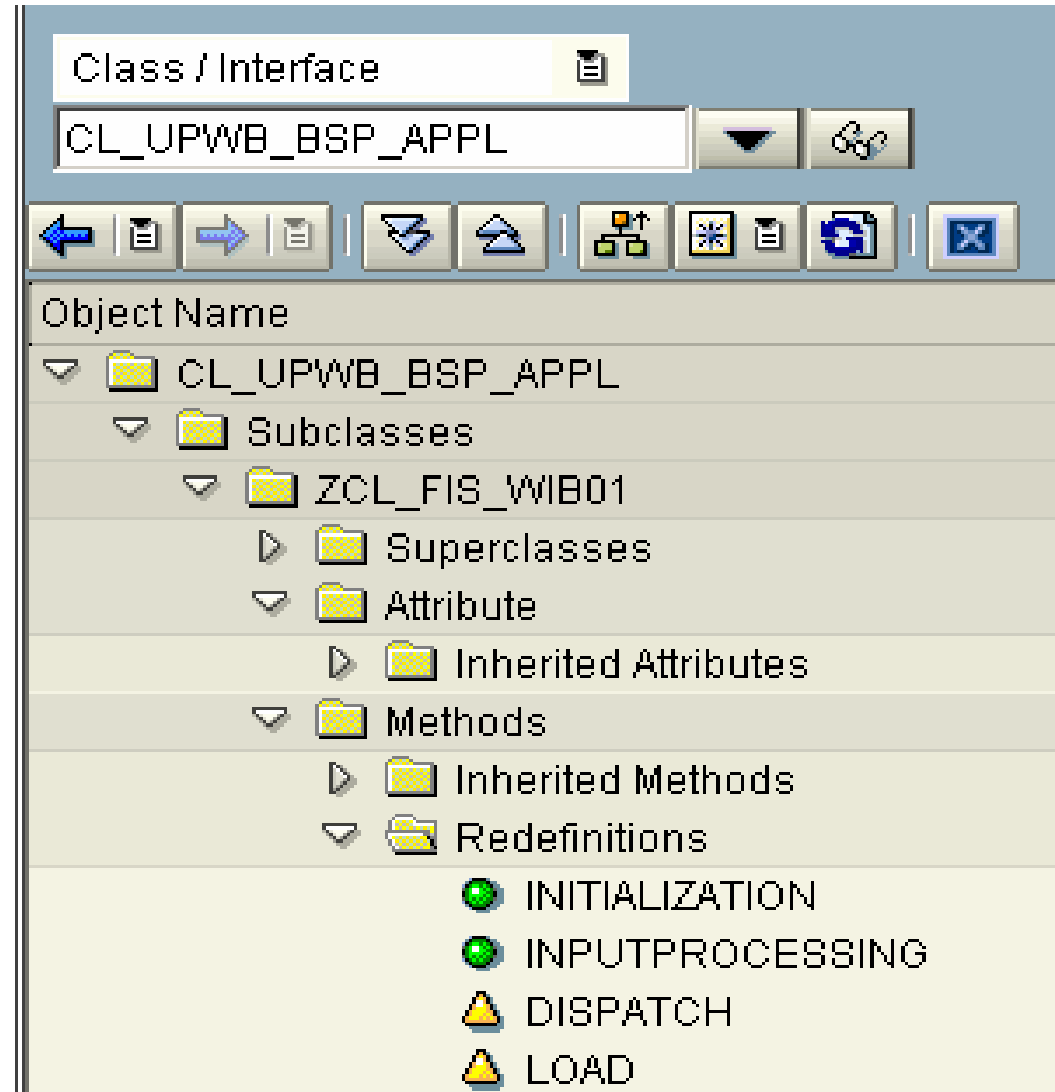


Creating (custom-)Subclass

By using ABAP OO techniques you can create a subclass and choose methods to be redefined.

The screenshot shows an example for subclass `zcl_fis_wib01`.

The redefined methods are listed below the node 'Redefinitions'.



Initialisation (Output Processing)

Within Initialisation:

- First time: call load method to initialize the components
- Dispatcher queue is created
 - ◆ Contains list of components (e.g. layouts)
 - ◆ Lists tasks to be done on component (e.g. process_input)
- Dispatcher method is called for each task

When redefining e.g. the dispatcher method, you will find this standard ABAP source code sample:

```
method DISPATCH.  
*CALL METHOD SUPER->DISPATCH  
*   EXPORTING  
*     IS_HANDLER =  
*   RECEIVING  
*     R_SUBRC    =  
*  
*   .  
endmethod.
```

Example: key figure validation of manual input

METHOD dispatch.

- * **1. Call standard processing**

CALL METHOD super->dispatch

- * **1. Check if dispatcher calls a layout ready to validate**
- * **2. Add your own rule to determine if data of this specific layout should be validated.**
- * **3. Specify the set of cells that should be validated and apply the validation rule.**
- * **3a. Add your own validation rule.**

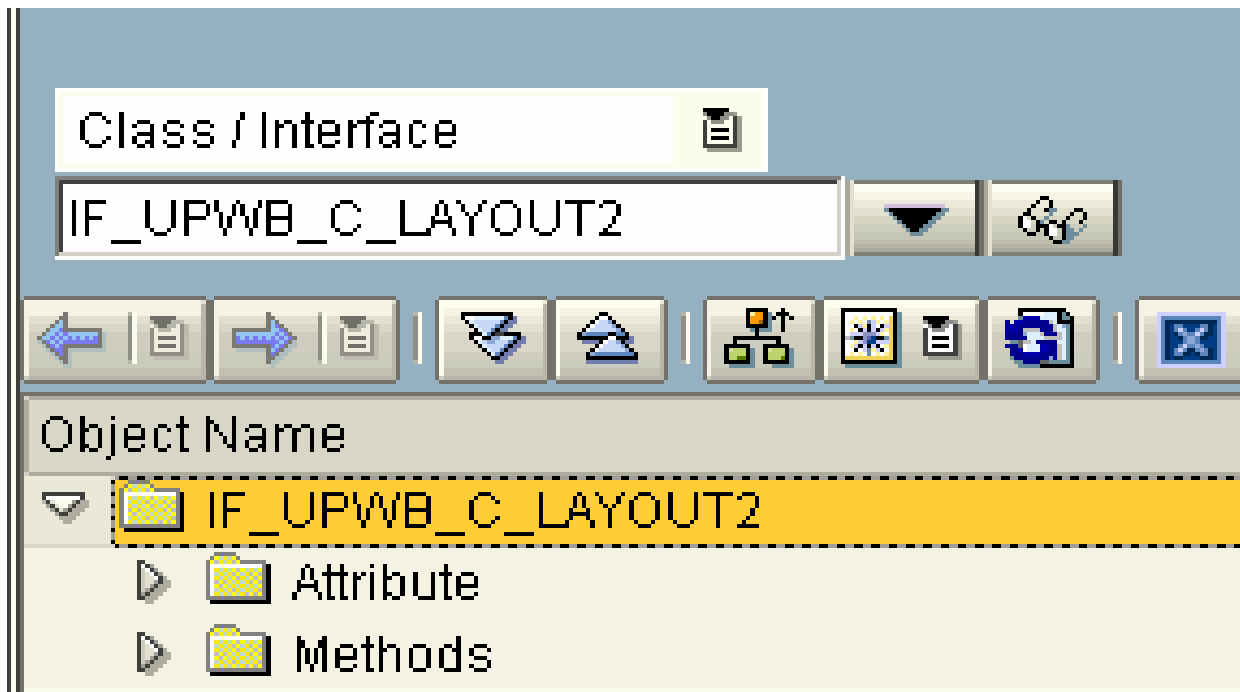
ENDMETHOD.

Note: You can find a How to paper describing the details on the service market place soon.

Details on layout component

The layout component is defined in the interface if_upwb_c_layout2.

It is available since SEM3.1 SP16 (new features of WEB layouts).



List of important attributes

- **MT_HTML_CELL** - Table cells for HTML rendering
- Cell identifier (ID)
- Position within layout (ROW, COL)
- Error status (ALERT_FLAG)
- Replacementtype for cell value (VALUE_TYPE)
- Content (VALUE)
- Generic list of attributes (ATTRIBUTES)

Note:

- When using `value_type = 'html'`, the system will insert the given cell content as pur html into the layout cell. → You can specify the html-coding that is inserted into the cell.
- By using the generic list of attributes, you can add e.g. events to the cell. Just specify `param = 'onMousedown'` and `value = 'myHandler()'` to add events.

- **MT_HEAD** – Header Combination
 - ◆ Name of characteristics
 - ◆ Selection per characteristic
- **MT_COL** – characteristics of column
- **MT_ROW** – characteristics of row
- **M_SUBRC** – Return Value
- Note:
 - ◆ By combining these tables you can specify the complete selection of a cell.
 - ◆ ... for more details see ABAP workbench ...

Typical tasks

Adding javascript/html to WEB Interface

- Add text component to WEB Interface
- Insert javascript/html as long text or OTR-Object
- Set property html = true.

Adding html-code to layout cell

- Redefine the desired method
- Add html-code to cell value
- Set value_type = ,html'

Adding events to planning layout

- Option1: use generic list of cell attributes
- Option2: use javascript and set attributes during render time (possible not only for layout cells but also for other tags)

Do it once on first start of Web planning application

- Redefine load method

Do it before/after a task of input/output processing

- Redefine dispatcher method

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New features for Excel-InPlace with SAP BW 3.5 SP04

Define totals in data columns or individually defined rows:

If the predefined totals create a hierarchy structure, Excel-Inplace will automatically display the hierarchy structure.

The predefined totals will be automatically recalculated after manual data change or execution of local functions like distribution or revaluation.

Local fixing (or locking) of cell values:

Ranges may be locked in Excel – this prevents the values contained in the locked cells against manual changes or changes by automatic planning functions.

Totals are ready for input and can be changed manually or with BPS local functions. Changed values will be distributed top-down to the lower levels; fixed cell values will not be changed.

A local distribution function allows to use predefined distribution methods. It is possible to apply the same distribution as in a reference row or to distribute according to previous posted amounts in those cells.

Select ranges in Excel-Inplace and reevaluate only the selected values. Here one can reevaluate with absolute values (i.e. add or subtract values) or percentages.

New BPS Features delivered with Support Packages

Features

- Hierarchies, Attributes, Units in HTML layouts
- F4-help for variable selectors and layouts
- Customizable value help types in HTML layout
- Identify cells with attached documents on HTML layout

Availability

- SEM 3.1B SP 14 August 19th 2003 – only for pilot customers!
- SEM 3.1B SP 16 November 11th 2003 – GA
- SEM 3.2 SP 10 September 23rd 2003 – only for pilot customers!
- SEM 3.2 SP 11 November 4th 2003 – GA
- SEM 3.5 SP 7 November 14th 2003 - GA

Planning functions

- Distribution function – usage of variables, read reference data
- Split packages for execution
- Issue trace of error message in conjunction with object
- Read minimum amount of reference data
- Copy documents

Transports

- Transport variables, parameter groups, layouts and settings for planning area separately

Manual Planning

- Variables for non-time characteristics in data columns in layouts
- Use all variables of the corresponding area in data columns
- Use different variables in data columns

Availability

- SEM 3.1B SP 14 August 19th 2003
- SEM 3.2 SP 10 September 23rd 2003
- SEM 3.5 SP 5 September 19th 2003

Usability

- Redesign hierarchy pop-up (Keys etc. ...)
- Sort package by „selection in package“
- Improve usability formula editor (F4-Help etc)
- Show selection criteria at display of level (at change still selection of characteristics on first tab)
- Enhanced FOX error messages
- Check size of input fields
- Variables in data slices

Availability

- SEM 3.1B SP 14 August 19th 2003
- SEM 3.2 SP 10 September 23rd 2003
- SEM 3.5 SP 5 September 19th 2003

Features

- Keep customizing after change of hierarchy
- Planning sequences running synchronously
- Language from log on
- Automatic save at status change

Availability

- SEM 3.1B SP 14 August 19th 2003
- SEM 3.2 SP 10 September 23rd 2003
- SEM 3.5 SP 0 May 26th 2003