

## Using own Work Packages numbering system

( HJ - Issue 1.0 dated 27/10/2014 )

### Reminder on the necessity for an ECOS-based PT/WBS coding system

ECOS system needs to build an index to manage the various price aggregation levels in ECOS. It also needs to define the anchoring points of the sub-contractors contributions in a correct and unambiguous manner in particular avoiding duplication of Work Packages number from one sub-contractor to another.

For this reason, the work packages can only be created by associating Support Functions to the Product Tree nodes, this generating the ECOS PT/WBS coding. The User's numbers can only be allocated after the WP have been created as described above.

### Coding principle for User numbering

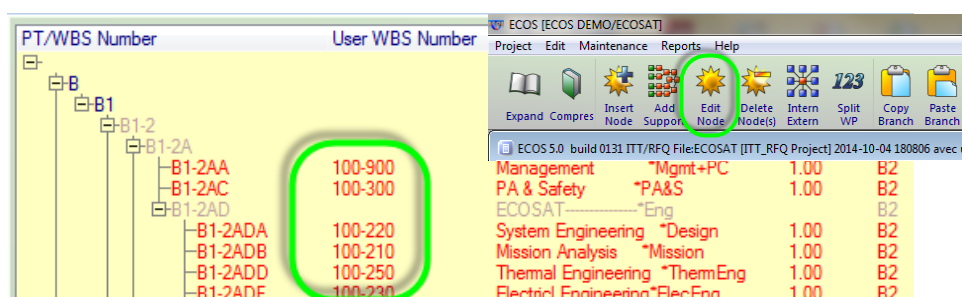
Each of the participating companies may have very different numbering system from one to another. For this reason, ECOS is offering a free coding field to hold the User WP numbers. As a consequence it is left to the User to ensure that its coding is appropriate for identifying and sorting its WP in a rationale manner. In particular coding must be hierarchical and unique.

**NB: The maximum length authorized is 20 characters**

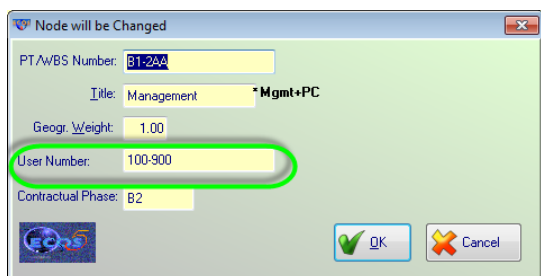
### STEP 1 – Entering the User WP codes

The User WP codes can be entered or modified at various levels

In the WBS tab



PT/WBS Number	User WBS Number	
Management	100-900	B2
PA & Safety	100-300	B2
ECOSAT	100-220	B2
System Engineering	100-210	B2
Mission Analysis	100-250	B2
Thermal Engineering	100-230	B2
Electrical Engineering	100-240	B2



Node will be Changed

PT/WBS Number: B1-2AA

Title: Management \*Mgmt+PC

Geogr. Weight: 1.00

User Number: 100-900

Contractual Phase: B2

OK Cancel

NB: Only WP numbers assigned to WP (red lines) will be reported so there is no need to enter intermediary numbers at PT node level (dark blue lines) or intermediary levels (grey lines)

In the Summary tab

The screenshot shows the ECOS [ECOS DEMO/ECOSAT] interface. In the Summary tab, a table lists WP numbers and their details. A green circle highlights the 'User Number' column, showing values like 100-900, 100-300, etc. To the right, the 'Modify WP Header' dialog is open for Node B1-2AA. The 'User Number' field is highlighted with a green circle and contains the value 100-900. Other fields include Title (Management \*Mgmt+PC), Phase (B2), Start (14-09), End (15-12), Price Type (Firm fixed price), and Distribution (Uniform Distribution).

WP Number	User Number	Phase	Title
Total			
B1-2AA	100-900	B2	Management *Mgmt+PC
B1-2AC	100-300	B2	PA & Safety *PA&S
B1-2ADA	100-220	B2	System Engineering *Design
B1-2ADB	100-210	B2	Mission Analysis *Mission
B1-2ADD	100-250	B2	Thermal Engineering *ThermEng
B1-2ADF	100-230	B2	Electrical Engineering *ElecEng
B1-2ADH	100-240	B2	Structural *StrucEng

In the Cost tab (direct data entry)

The screenshot shows the ECOS [ECOS DEMO/ECOSAT] interface in the Cost tab. The 'Company' section shows 'AAAA' and 'Company A'. The 'WP Number' field is highlighted with a green circle and contains '210-100'. The 'Rate File ID' is '140920P1'. On the right, a table lists WP numbers and their details. A green circle highlights the 'User Number' column, showing values like 100-900, 100-300, etc.

WP Number	User Number	Phase	Title
Total			
B1-2AA	100-900	B2	Management *Mgmt+PC
B1-2AC	100-300	B2	PA & Safety *PA&S
B1-2ADA	100-220	B2	System Engineering *Design
B1-2ADB	100-210	B2	Mission Analysis *Mission
B1-2ADD	100-250	B2	Thermal Engineering *ThermEng
B1-2ADF	100-230	B2	Electrical Engineering *ElecEng
B1-2ADH	100-240	B2	Structural *StrucEng
B1-2ADI	100-280	B2	Propulsion *PropEng
B1-2RI	100-000	B2	Management Reserve *Reserve
C1-2AA	200-900	B2	Management *Mgmt+PC
C1-2AC	200-300	B2	PA & Safety *PA&S
C1-2ADA	200-220	B2	System Engineering *Design
C1-2ADD	200-250	B2	Thermal Engineering *ThermEng

NB1: This is the preferred method when entering a list of User's WP code.

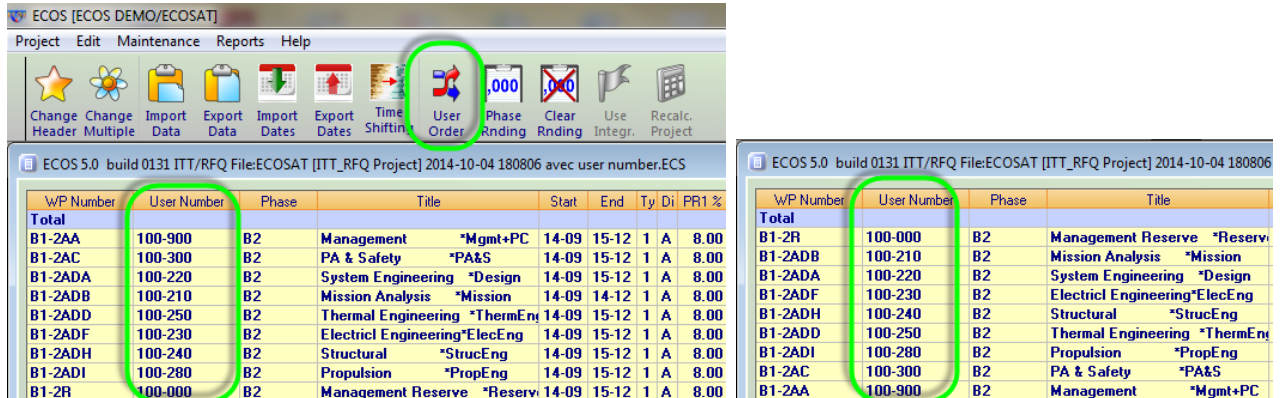
NB2: As soon as one User code is entered all other User Number cells background turn to red indicating that a complete coding according to User's numbering of the WPs is now expected.

The screenshot shows the ECOS [ECOS DEMO/POWER] interface in the Cost tab. The 'WP Number' field is highlighted with a green circle and contains '1000000'. The 'Rate File ID' is '140920P1'. On the right, a table lists WP numbers and their details. A green circle highlights the 'User Number' column, showing values like 1000000, 1000000, etc. The background of the 'User Number' column is red, indicating that a complete coding according to User's numbering of the WPs is now expected.

WP Number	User Number	Phase	Title	Start	End	Ty	Di	PR1 %
Total								
B121-2AA	1000000	B2	Management *Mgmt+PC	14-09	15-12	1	A	8.00
B121-2AC		B2	PA & Safety *PA&S	14-09	15-12	1	A	8.00
B121-2ADA		B2	System Engineering *Design	14-09	15-12	1	A	8.00
B121-2ADD		B2	Thermal Engineering *ThermEng	14-09	15-12	1	A	8.00
B121-2ADF		B2	Electrical Engineering *ElecEng	14-09	15-12	1	A	8.00

## STEP 2 – Sorting according to User’s WP codes

Work packages can be listed according to User Numbers using the switch “User Order” from the Task bar



The screenshot shows the ECOS software interface. In the task bar, the 'User Order' button is highlighted with a green circle. Below it, two screenshots of the work package list are shown, both sorted by User Number. The first screenshot shows the list with User Numbers ranging from 100-900 to 100-000. The second screenshot shows the list with User Numbers ranging from 100-000 to 100-900.


WP Number	User Number	Phase	Title	Start	End	Ty	Di	PR1 %
Total								
B1-2AA	100-900	B2	Management *Mgmt+PC	14-09	15-12	1	A	8.00
B1-2AC	100-300	B2	PA & Safety *PA&S	14-09	15-12	1	A	8.00
B1-2ADA	100-220	B2	System Engineering *Design	14-09	15-12	1	A	8.00
B1-2ADB	100-210	B2	Mission Analysis *Mission	14-09	14-12	1	A	8.00
B1-2ADD	100-250	B2	Thermal Engineering *ThermEng	14-09	15-12	1	A	8.00
B1-2ADF	100-230	B2	Electrical Engineering *ElecEng	14-09	15-12	1	A	8.00
B1-2ADH	100-240	B2	Structural *StrucEng	14-09	15-12	1	A	8.00
B1-2ADI	100-280	B2	Propulsion *PropEng	14-09	15-12	1	A	8.00
B1-2R	100-000	B2	Management Reserve *Reserv	14-09	15-12	1	A	8.00

This allows, for instance to check that the whole list of WP numbering is entered or to verify various totals with internal documents sorted by User’s numbering system.

## STEP 3 – Producing reports using User WP codes

The report 5404 provides the WBS numbering map between ECOS PT/WBS codes and User’s codes

All reports containing WP numbers can be produced according to User numbers. When doing so, the work packages are sorted by User number. Here is, as an example, the headers of a PSS-A8 produced using User’s WP codes:



5.0.0131

Manpower and Price Summary

Form no. PSS A8

Subject:

ITT/RFQ:

National Currency (NC)\*: EUR

(\*\*) Conversion Rate: 1.000000

Economic condition:

Company	AAAA	AAAA	AAAA	AAAA	AAAA	AAAA
WP Title	Management Reserve	Mission Analysis	System Engineering	Electrical Engineering	Structural	Thermal Engineering
WP Number	*Reserve	*Mission	*Design	*ElecEng	*StrucEng	*ThermEng
	100-000	100-210	100-220	100-230	100-240	100-250

EN

ENGINEER

500

2,000

2,000

2,000

2,000