

What's New V8.0

Release, November 2024



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What's new

Version 6

MILESTONES PAYMENT LINKED

Contract	Type	MP	Mls No	Milestone Description	Amount	Cur	F Date
4000101107	RIDER 001	R01	12b	Successful completion of ASIM GM F...	98 755.67	EUR	29/11/2017
4000101107	RIDER 001	R01	12b	Successful completion of ASIM GM F...	22 784.76	EUR	28/11/2017
4000101107	RIDER 001	R01	12a	Successful completion of ASIM GM F...	206 802.51	EUR	18/12/2017
4000101107	RIDER 001	R01	12a	Successful completion of ASIM GM C...	8 000.00	EUR	23/10/2017
4000101107	RIDER 001	R01	12a	Successful completion of ASIM GM C...	7 000.00	EUR	01/12/2017
4000101107	RIDER 001	R01	12b	Successful completion of ASIM GM F...	17 310.00	EUR	24/03/2017
4000101107	RIDER 001	R01	12a	Successful completion of ASIM GM F...	95 263.33	EUR	29/11/2017
4000101107	RIDER 001	R01	12a	Successful completion of ASIM GM C...	23 987.21	EUR	01/09/2017

MILESTONES COST LINKED

Contract	Type	MP	Mls No	Milestone Description	Amount
4000101107	RIDER 001	R01	12a	Successful completion of ASIM GM Consent...	1) Text input
4000101107	RIDER 001	R01	12b	Successful completion of ASIM GM FAR and a...	2) Text input
4000101107	RIDER 001	R01	12a	Successful completion of ASIM GM Consent...	3) Text input
4000101107	RIDER 001	R01	12a	Successful completion of ASIM GM FAR and a...	4) Text input
4000101107	RIDER 001	R01	12b	Successful completion of ASIM GM FAR and a...	5) Text input
4000101107	RIDER 001	R01	12a	Successful completion of ASIM GM Consent to...	42 322
4000101107	RIDER 001	R01	12a	Successful completion of ASIM GM FAR and a...	32 54
4000101107	RIDER 001	R01	12a	Successful completion of ASIM GM Consent to...	40 80
4000101107	RIDER 001	R01	12b	Successful completion of ASIM GM FAR and a...	23 1
4000101107	RIDER 001	R01	12a	Successful completion of ASIM GM FAR and a...	40 1
4000101107	RIDER 001	R01	12a	Successful completion of ASIM GM FAR and a...	8
4000101107	RIDER 001	R01	12a	Successful completion of ASIM GM Consent to...	7
4000101107	RIDER 001	R01	12b	Successful completion of ASIM GM FAR and a...	1) Text input
4000101107	RIDER 001	R01	12a	Successful completion of ASIM GM Consent to...	2) Text input
4000101107	RIDER 001	R01	12a	Successful completion of ASIM GM FAR and a...	3) Text input
4000101107	RIDER 001	R01	12b	Successful completion of ASIM GM FAR and a...	4) Text input
4000101107	RIDER 001	R01	12a	Successful completion of ASIM GM FAR and a...	5) Text input

Version

Project Controller

JPSI esa

Successor

Code Description Date Occured Project

Code Description Date Occured Project

esa JPSI www.jpsigroup.net

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NEW FEATURES IN VERSION 8

REDESIGNED COMMITMENT PROFILE LAYOUT AND KPI OC RATIO INTEGRATION

INTEGRATION OF THE IC/OC FIELDS IN THE IPCDB APPLICATION

Today, the user can select a General Ledger (GL) category in the Commitment Profile, but with no indication, whether it is associated to an Industrial cost (IC) or to an Operating Cost (OC). The objective is to provide directly this information at this level, while selecting the GL.

The screenshot shows the 'IPCDB CMTL DATA [LMOLINA] [Administrator]' application window. The main title bar says 'Contract N° 4000138859'. Below it, the main heading is 'Commitment Profile'. There are three tabs: 'Commitment Data', 'Cost Expenditure Planning', and 'Geo Return' (which is selected). In the 'Commitment Data' section, there are fields for 'Commitment Status' (radio buttons for 'Planned (CO)' and 'Committed (CM)'), 'Special GeoReturn' (radio buttons for 'No' and 'Yes'), 'Risk' (checkbox), 'CMTL Date' (dropdown menu showing '04/08/2022'), 'Bukeys' (checkbox checked, dropdown menu showing 'C 1 592 SAP'), 'OBS' (dropdown menu), 'ABS' (dropdown menu), 'ITEM' (dropdown menu showing '22SAP'), 'Project Group' (dropdown menu showing 'LandCam-X'), and 'Program Reference' (dropdown menu). Below this, there are sections for 'Personal Filter WBS' (dropdown menu showing 'E/0189-01-D-04 / LandCam-X'), 'Personal Filter GL' (checkbox checked, dropdown menu showing '6051100', '420'), 'Personal Filter Fund' (checkbox), 'Fund Center' (checkbox checked), and 'WBS SAP' (radio button checked) and 'Cost Center' (radio button). In the 'Financial Data' section, there are fields for 'Company Code' (dropdown menu showing 'LLSE'), 'Sap Company' (dropdown menu showing '1000037894'), 'Currency' (dropdown menu showing 'EUR'), 'Country' (dropdown menu showing 'FRANCE'), 'Amount in Currency' (text input showing '690 239.00'), 'Paid in Currency' (text input showing '56 658.00'), 'Link in Currency' (text input showing '56 658.00'), 'Company Name' (dropdown menu showing 'Lunar Logistics Se'), 'Auto Update GR' (checkbox checked), 'Select or Create Company' (button), 'Amount in Euro' (text input showing '690 239.00'), 'Paid in €' (text input showing '56 658.00'), and 'Link in €' (text input showing '56 658.00'). Below these, there is a 'Weighting Factor' section with radio buttons for values 1, 0.75, 0.5, 0.25, and 0. At the bottom, there are sections for 'Comment' (text area with placeholder 'Comment to be define') and 'Note' (text area with placeholder 'Multiple RBS change by JDESPREZ (14/03/2023). Delivery date of items 4, 5, 6 were updated according the CCN1 by LISALAZA (10/06/2024)').

Adding this information, as result into a new Commitment Profile layout:



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Commitment Profile

ATTRIBUTES

Commitment Status <input checked="" type="radio"/> Planned (CO) <input type="radio"/> Committed (CM)	Special GeoReturn <input type="radio"/> No <input checked="" type="radio"/> Yes	Weighting Factor 1	Program Reference TBD
Commitment Date * Commitment Date: 11/07/2024	Risk <input checked="" type="radio"/> No <input type="radio"/> Yes	Project Group	

ASSIGNMENT

WBS * / Cost Center * E/0100-01 / Columbus module and ground segment	GL Account * 6171000 Type: Industrial Cost	Fund * / Fund Center * Fund: E/0100-01 Fund Center:	Product Tree * Associated: M-SAP-S-SAP Valid Product Tree
WBS SAP Cost Center		P. Filter Fund Center	New: Default PT: M

FINANCIAL

Company * ECOS Code: 11125885 SAP Code: 1000019077 Company Name: FZI Forschungszentrum Informatik	Country Country Name: GERMANY Country Code: DE Currency: EUR	Commitment Amount * 150 000.00 EUR	Paid 0.00 EUR	Accrued 0.00 EURO
	Auto Update GR	150 000.00 EURO		

Comment :
Note :

INTEGRATION OF THE IC/OC KEY PERFORMANCE INDICATOR (KPI) INTO THE IPCDB APPLICATION

In order to provide a comprehensive full overview to users, it is proposed to add a KPI OC ratio to the commitment screen to facilitate the control of their project.

DESCRIPTION OF THE KPI OC RATIO:

As of 2017 documentation from Corporate Controlling (Cost Element Mapping), the allocation is **75% IC + 25% OC**.

CALCULATION OF THE KPI OC RATIO:

For the ratio implementation in IPCDB, we are applying this 2017 onward formula as the following:

$$OC \% = \frac{G\&A + Mnp + Run + 0.25*Fac}{Total Cost}$$

	OC	IC
Industrial Cost		100%
Manpower	100%	
Running Cost	100%	
General & Admin	100%	
ESA Facilities	25%	75%

USAGE OF OC RATIO FORMULA:

1. For reporting:

This formula can be used for any Business Object reports or Power BI reports.

2. In the IPCDB application at Commitment Profile level:

This formula is also applied directly within the IPCDB application and visualised through the "OC Ratio indicator".

The KPI OC Ratio of the project (**WBS level 1 + children**) is displayed in the Commitment data tab of the Commitment Profile screen.



To create this indicator, the following intervals are defined: **Green: 0 to 15%** - **Orange: 15 to 30 %** - **Red: Above 30%**

The screenshot shows the 'Commitment Profile' screen in the IPCDB application. The interface is divided into several sections: **ATTRIBUTES**, **ASSIGNMENT**, and **FINANCIAL**. The **FINANCIAL** section contains fields for **Company**, **Country**, **Commitment Amount**, **Paid**, and **Accrued**. A callout box highlights the **GL Account** field, which includes a color-coded OC Ratio indicator. The indicator has a green segment (0-15%), an orange segment (15-30%), and a red segment (above 30%). The value '41%' is shown in the center of the indicator. A blue arrow points from the text 'When changing the fields GL, WBS or the amount, the OC ratio is acting as a simulator while the user is modifying the Commitment Profile.' to this indicator.

THE KPI OC RATIO SIMULATOR

When changing the fields GL, WBS or the amount, the OC ratio is acting as a simulator while the user is modifying the Commitment Profile.

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Commitment Profile

ATTRIBUTES

- Commitment Status: Planned (CO) Committed (CM)
- Special GeoReturn: No Yes
- Weighting Factor: 1
- Program Reference: E2CX-019

ASSIGNMENT

- Commitment Date: 20/04/2022
- Risk: No Yes
- Project Group: EXPERT

WBS / Cost Center: E/0116-02-KKD / Melissa technologies

GL Account: 6171000, Type: Industrial Cost

Fund / Fund Center: Fund: E/0116-02M, Fund Center: (OC Ratio: 33%)

Product Tree: Associated: MF2F-SAP-S-SAP, Valid Product Tree, Default PT: MF2F

FINANCIAL

- Company: Select or Create Company
- ECOS Code: BLHL
- SAP Code: 1000027621
- Company Name: Blue Horizon Srl
- Country: LUXEMBURG, Auto Update GR
- Country Name: LUXEMBURG
- Country Code: LU
- Currency: EUR
- Commitment Amount*: 450 000.00 EUR
- Paid: 450 000.00 EUR
- Accrued: 450 000.00 EUR

Comment:

Note:



WBS modification

Commitment Profile

ATTRIBUTES

- Commitment Status: Planned (CO) Committed (CM)
- Special GeoReturn: No Yes
- Weighting Factor: 1
- Program Reference: E2CX-019

ASSIGNMENT

- Commitment Date: 20/04/2022
- Risk: No Yes
- Project Group: COLUMBUS And Payload Engineering Service

WBS / Cost Center: E/0115-01-1 / Research Activities

GL Account: 6171000, Type: Industrial Cost

Fund / Fund Center: Fund: E/0116-02M, Fund Center: (OC Ratio: 26%)

Product Tree: Associated: MF2F-SAP-S-SAP, Valid Product Tree, Default PT: MF2F

FINANCIAL

- Company: Select or Create Company
- ECOS Code: BLHL
- SAP Code: 1000027621
- Company Name: Blue Horizon Srl
- Country: LUXEMBURG, Auto Update GR
- Country Name: LUXEMBURG
- Country Code: LU
- Currency: EUR
- Commitment Amount*: 450 000.00 EUR
- Paid: 450 000.00 EUR
- Accrued: 450 000.00 EUR

Check Cntl Delta

Comment:

Note:



Different Amount

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Commitment Profile

ATTRIBUTES

- Commitment Status: Committed (CM) Planned (CO)
- Special GeoReturn: No Yes
- Weighting Factor: 1
- Program Reference: E2CX-019

ASSIGNMENT

- Commitment Date*: 20/04/2022
- Risk: No Yes
- Project Group: EXPERT

WBS * / Cost Center *: E/0116-02-K-KD / Melissa technologies

GL Account *: 61160000 Type: Industrial Cost

Fund * / Fund Center *: Fund: E/0116-02M Fund Center: P. Filter Fund Center

Product Tree *: Associated: MF2F-SAP-S-SAP Valid Product Tree

FINANCIAL

- Company*: Select or Create Company: BLHL
- Country: Country Name: LUXEMBURG Country Code: LU Currency: EUR
- Commitment Amount*: 450000000.00 EUR
- Paid: 450 000.00 EUR
- Accrued: 450 000.00 EUR

* Mandatory fields



Change of GL account

Commitment Profile

ATTRIBUTES

- Commitment Status: Committed (CM) Planned (CO)
- Special GeoReturn: No Yes
- Weighting Factor: 1
- Program Reference: E2CX-019

ASSIGNMENT

- Commitment Date*: 20/04/2022
- Risk: No Yes
- Project Group: EXPERT

WBS * / Cost Center *: E/0116-02-K-KD / Melissa technologies

GL Account *: 61160000 Type: Operating Cost

Fund * / Fund Center *: Fund: E/0116-02M Fund Center: P. Filter Fund Center

Product Tree *: Associated: MF2F-SAP-S-SAP Valid Product Tree

FINANCIAL

- Company*: Select or Create Company: BLHL
- Country: Country Name: LUXEMBURG Country Code: LU Currency: EUR
- Commitment Amount*: 450000000.00 EUR
- Paid: 450 000.00 EUR
- Accrued: 450 000.00 EUR

* Mandatory fields

COMMITMENT PROFILE

MODIFY COMMITMENT LINE DIRECTLY FROM A SELECTED MILESTONE

In the MPP and MCP tabs, the Milestones screen allows users to do some selections via column filters. When an action is required on the commitment level associated to the milestone of interest, it is possible to access and modify it directly by a new menu: Right click on the selected milestone and choose "Modify Commitment Line".

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Screenshot of the SAP ERP interface showing the Contract Events and Milestone Cost Plan screens. A context menu is open over a commitment line in the Milestones section, with the 'Modify Field' option highlighted.

Milestones Context Menu:

- Insert
- View
- Modify
- Modify Contract
- Cut
- Split
- Duplicate
- Delete
- Modify Commitment Line
- Sub Contractors
- Trend Chart
- Link to Schedule Milestone
- Break Schedule Milestone Link
- GRNs Incorporation

It is still possible to filter some specific milestones and display the related commitment lines from the usual Commitment Lines screen. In that case, when applying column filters in the Milestones section, the simultaneous retention of commitment lines and filtered milestones is now possible. As a result, the Commitment line can be modified as usual.

Screenshot of the SAP ERP interface showing the Contract Events and Milestone Cost Plan screens. A context menu is open over a commitment line in the Milestones section, with the 'Modify' option highlighted.

Milestones Context Menu:

- Insert
- View
- Modify
- Modify Contract
- Cut
- Split
- Duplicate
- Duplicate and Open
- History
- Sub Contractor
- View Invoices Lines
- Goto Payment Assistance

MODIFY FIELD: COMMITMENT DESCRIPTION ADDED

As requested, the "Commitment description" can be modified directly from the right click menu "Modify Field" at commitment line level.

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COMMITMENT LINES

Con... No.	Contract Desc.	Project Group	SAP WBS	Cmt Description	Fund	Parent Fund	GL	SAP Sup...	S..	W.	Cmt Date
P9935672	IT PROCUREMENTS PLANNING	Astronauts	E/0136-01-M-06-03	E3P4ITP00	E/0136-04Q	1100549D	6063800			0.25	30/11/2026
P9935672	IT PROCUREMENTS PLANNING	Astronauts	E/0136-01-M-06-03	E3P4ITP00	E/0136-04Q	1100549D	6063800			0.25	30/11/2027
P9935672	IT PROCUREMENTS PLANNING	Astronauts	E/0136-01-M-06-03	E3P4ITP05; T.Sheasby; EAC IT Procurement - General IT (PO) 2025	E/0136-03Q	1100593	6063800			0.25	30/11/2025
P9935672	IT PROCUREMENTS PLANNING	Astronauts	E/0136-01-M-06-03	E3P4ITP03; T.Sheasby; EAC IT Procurement - General IT (PO) 2023	E/0136-03Q	1100593	6063800			0.25	08/01/2025
P9935672	IT PROCUREMENTS PLANNING	Astronauts	E/0136-01-M-06-03	E3P4ITP04; T.Sheasby; EAC IT Procurement - General IT (PO) 2024	E/0136-03Q	1100593	6063800			0.25	30/11/2028
P9935672	IT PROCUREMENTS PLANNING			01-M-06-03-E3P4ITP00	E/0136-04Q	1100549D	6063800			0.25	30/11/2028

Context Menu (Right-clicked on Cmt Description):

- Insert
- View
- Modify
- Modify Field** (highlighted)
- Modify Contract
- Cut
- Duplicate
- Duplicate and Open
- History
- Sub Contractor
- View Invoices Lines
- Goto Payment Assistance
- Geo Return
- Year Profile
- Delete
- Delete Committed Lines

Sub-menu for Modify Field:

- Cost Center (Update BK if possible)
- GL (Update BK if possible)
- Fund (Update BK if possible)
- Fund Center
- Item
- Cmtl Status
- Cmtl Date
- Company
- Cmtl Description** (highlighted)
- Project Group
- Risk
- MultiGoreturn

SELECT PROJECT GROUP MANDATORY AT NAVIGATION

It is mandatory to select a Project Group in the Commitment Profile of Navigation IPCDB.

Commitment Profile

ATTRIBUTES

- Commitment Status: Planned (CO) Committed (CM)
- Special GeoReturn: No Yes
- Weighting Factor: 0.25
- Program Reference: TBD
- Commitment Date*: 28/05/2010
- Risk: No Yes
- Project Group: (dropdown menu, highlighted with a red arrow)

ASSIGNMENT

- WBS * / Cost Center *: E/0136-01-M-04 / Astronauts Medical Support
- GL Account *: 6111800
- Fund * / Fund Center *: E/0136-01
- ipcdB: Please select a Project Group (modal dialog box)
- Company *: Select or Create Company
- Country: United States
- Commitment Amount *: 595 497.00 USD, 454 646.00 EURO
- Paid: 595 497.00 USD, 454 646.00 EURO
- Accrued: 415 910.43 USD, 595 497.00 EURO

FINANCIAL

* Mandatory fields

IPCDB EXCEL PARSER - WPM

The WPM Excel Parser is a web application designed to streamline the overall process of importing, intelligent mapping, previewing and deploying data from Excel files (.xlsx) into the IPCDB. These data are imported into the WPM and also generated as per Commitment Lines in IPCDB at the dedicated WBS level.

The main purpose of the application is to execute a mass upload of Workforce and recharges data in IPCDB. Consequently, it facilitates the cost control process by planning the recharges at all WBS levels more easily.

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To access to the Excel Parser, click on the excel icon in the WPM:

IPCDB WPM

WorkForce Planning in Segment 1100550 for Project E/0100-01 and Fund E/0100-01

Data Rates

Men per Year

M/Y	Jan	Feb	March	April	May	June	July	Aug	Sept	Oct	Nov	Dec	Total
HRE Staff	0.833	0.833	0.833	0.833	0.833	0.833	0.833	0.833	0.833	0.833	0.833	0.837	10.000
HRE Contractors	0.416	0.416	0.416	0.416	0.416	0.416	0.416	0.416	0.416	0.416	0.416	0.424	5.000
TEC Support	0.833	0.833	0.833	0.833	0.833	0.833	0.833	0.833	0.833	0.833	0.833	0.837	10.000

Missions / Other Direct Costs (KEURO)

	Jan	Feb	Mar	April	May	June	July	Aug	Sep	Oct	Nov	Dec	Total
Missions													
ITSLA	0.833	0.833	0.833	0.833	0.833	0.833	0.833	0.833	0.833	0.833	0.833	0.837	10.000
PSA Facilities													

WBS E/0100-01
FUND E/0100-01
 All Funds Personal Filter
 Year Planning Month Planning
Save and Generate
Men/Year and Recharges for this Project/Fund
Copy CJI3 Refresh CJI3

Each Directorate using IPCDB application is redirected to a dedicated URL.

IPCDB Excel Parser - WPM

Status: -
File name: -
File size: -
File type: -
Mapped columns: -
Mapped rows: -
Errors: -

Choose a file

Publish

ipcdb-bo.estec.esa.int/excel-parser/wpm?context=dev&key=df6302f81e3fd452ceb50045d176a703

KEY FEATURES

FILE SELECTION

- A simple "Choose a file" button enables users to upload .xlsx files effortlessly.

DATA PARSING AND PREVIEW

- Upon file selection, the system automatically parses the content.
- A preview of the parsed data is displayed, allowing users to verify the information before publishing.

AUTOMATED COLUMN AND VALUE MAPPING

- The tool automatically maps the columns and values from the selected Excel file to a predefined mapping schema.
- It can handle minor inconsistencies or small typos in the mandatory columns, ensuring robust data matching.

DATA AUTO-GENERATION

- Missing columns (e.g., certain years or months) are auto-generated to ensure completeness.
- Empty values in year columns or month columns are equivalent to 0.

ERROR HANDLING AND VALIDATION

- If mandatory columns are missing or calculation inconsistencies are detected, errors are flagged, and the Publish process is locked until a correct file is uploaded.

DATA AGGREGATION

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- Data combinations with the same **Category**, **WBS Main Level**, and **Fund** can be aggregated at the WBS Main Level, depending on the WPM configuration.

Status: Done
File name: valid-some-months-post-generated.xlsx
File size: 12.71 KB
File type: application/vnd.openxmlformats-officedocument.spreadsheetml.sheet
Mapped columns: 25 / 30
Mapped rows: 30
Errors: 0

Documentation
 Template

X
Choose a file

Publish

The document is valid and mapped.
Please check the data below carefully before publishing.
Only the rows with highlighted blue cells are intended to be published as they meet all the required conditions.

CAT Category	WBS code Project	fund Fund	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	jan M1	feb M2	MARCH M3	M4	M5	M6	M7	M8	M9	M10	M11
hre staff HRE Staff	E/0112-01-H-20 E/0112-01	E/0112-01A E/0112-01A	270	284	548.75	320	352	296	250	230	226	180	160	145	143	120	120	27	27	27	51.972	51.972	51.972	51.972	51.972	51.972	51.972	51.972
HRE staff HRE Staff	E/0112-02-2-01 E/0112-02	E/0112-020 E/0112-02Q	270	284	452.25	320	352	296	250	230	226	180	160	145	143	120	120	27	27	27	41.25	41.25	41.25	41.25	41.25	41.25	41.25	41.25
hre contractors HRE Contractors	E/0108-01-E-03 E/0108-01	E/0108-01Y E/0108-01Y	270	284	330.85	320	352	296	250	230	226	180	160	145	143	120	120	27	27	27	27.761	27.761	27.761	27.761	27.761	27.761	27.761	27.761
HRE con HRE Contractors	E/0126-01 E/0126-01	E/0126-01 E/0126-01	810	852	990	960	1056	888	750	690	678	540	480	435	429	360	360	81	81	81	83	83	83	83	83	83	83	83
tec support TEC Support	E/0126-01-F E/0126-01	E/0126-01 E/0126-01	540	568	660.8	640	704	592	500	460	452	360	320	290	286	240	240	54	54	54	55.422	55.422	55.422	55.422	55.422	55.422	55.422	55.422
ops project OPS Project	E/0158-01-A-MS E/0158-01	E/0158-01S E/0158-01	270	284	698.7	320	352	296	250	230	226	180	160	145	143	120	120	27	27	27	68.633	68.633	68.633	68.633	68.633	68.633	68.633	68.633
ops sup OPS Support	E/0158-01-E-10 E/0158-01	E/0158-01 E/0158-01	270	284	330	320	352	296	250	230	226	180	160	145	143	120	120	27	27	27	27.666	27.666	27.666	27.666	27.666	27.666	27.666	27.666
cip support CIP Support	E/0158-01-A E/0158-01	E/0158-01 E/0158-01	270	284	158752.5	320	352	296	250	230	226	180	160	145	143	120	120	27	27	27	17630.166	17630.166	17630.166	17630.166	17630.166	17630.166	17630.166	17630.166
cip sup CIP Support	E/0158-01 E/0158-01	E/0158-01S E/0158-01S	270	284	330	320	352	296	250	230	226	180	160	145	143	120	120	27	27	27	27.666	27.666	27.666	27.666	27.666	27.666	27.666	27.666
_cip sup CIP Support	E/0120-01 E/0120-01	E/0120-01A E/0120-01A	270	284	330	320	352	296	250	230	226	180	160	145	143	120	120	27	27	27	27.666	27.666	27.666	27.666	27.666	27.666	27.666	27.666
cip support CIP Support	E/0143-01-E-30 E/0143-01	E/0143-01S E/0143-01	270	284	330	320	352	296	250	230	226	180	160	145	143	120	120	27	27	27	27.666	27.666	27.666	27.666	27.666	27.666	27.666	27.666
/EOP sup EOP Support	E/0143-01-B E/0143-01	E/0143-01S E/0143-01	540	568	660.5	640	704	592	500	460	452	360	320	290	286	240	240	54	54	54	55.388	55.388	55.388	55.388	55.388	55.388	55.388	55.388
sci support SCI Support	E/0130-01-D-10-01 E/0130-01	E/0130-01M E/0130-01M	1080	1136	1590.5	1280	1408	1184	1000	920	904	720	640	580	572	480	480	108	108	108	140.722	140.722	140.722	140.722	140.722	140.722	140.722	140.722
dg supp DG Support	E/0130-01-I-02 E/0130-01	E/0130-01M E/0130-01M	270	284	330.9	320	352	296	250	230	226	180	160	145	143	120	120	27	27	27	27.766	27.766	27.766	27.766	27.766	27.766	27.766	27.766

HOW TO USE THE EXCEL PARSER

Documentation
 Template

X
Choose a file

- Users can download the related **documentation** of this application via the “Documentation” icon.
- An excel **template** is also available to be carefully tailored for each file import.

What's New V8.0 Release, November 2024



A	B	C	D	E	F	G	H	I	J	K	L	M	N	O
1														
2	WPM EXCEL PARSER - TEMPLATE FILE													
3														
4	Demo data for testing purposes. Remove all unnecessary Data/Category.													
5	Do not publish to a production environment.													
6														
7	Category	WBS	FUND											
8	HRE Staff	E/0112-02-2-01	E/0112-02Q			2024	2025	2026	2027	2028	2029	2030	2031	2032
9	HRE Contractors			0	0	0	0	0	0	0	0	0	0	0
10	HRE Support													
11	NAV Staff													
12	NAV Contractors													
13	NAV Support													
14	TEC Staff													
15	TEC Contractors													
16	TEC Support													
17	STS Staff													
18	STS Contractors													
19	STS Support													
20	OPS Support													
21	CIP Support													
22	EOP Support													
23	SCI Support													
24	DG Support													
25	CSC Support													
26	HIF Support													
27	IT Support													
28	ELI Support													
29	HRE Service (ESTEC Cat S)													
30	OPS Service (ESOC Cat S)													
31	SCI Service (SCI Cat S)													
32	NAV Service (NAV Cat S)													
33	Missions													
34	ITSLA													
35	ESA Facilities													
36														
37														

1. UPLOAD THE EXCEL FILE

- Click the "Choose a file" button to select an .xlsx file from your local system.

2. PREVIEW THE PARSED AND PREPARED DATA

- After uploading, view the parsed data in the preview space.
- Verify that the columns and values are correctly mapped to the predefined schema.

3. PUBLISH THE DATA

- Once satisfied with the preview, click on the "Publish" button to finalize the process and make the data available for use into the WPM and in IPCDB by the generation of the relevant Commitment Lines.
- If errors are present, the Publish process will be locked until the issues are resolved by selecting a corrected file.
- Each Directorate using IPCDB application is redirected to a dedicated URL to import the data in the related WPM.

What's New V8.0 Release, November 2024



Status: Done
 File name: TEST_WPM_EXCEL-3.xlsx
 File size: 11.23 KB
 File type: application/vnd.openxmlformats-officedocument.spreadsheetml.sheet
 Mapped columns: 25 / 25
 Mapped rows: 12
 Errors: 0

The document is valid and mapped.
 Please check the data below carefully before publishing.
 Only the rows with highlighted blue cells are intended to be published as they meet all the required conditions.

CAT Category	WBS code Project	Fund	2024	2025	M1	M2	M3	M4	M5	M6	M7	M8	M9	M10	M11	M12	2026	2027	2028	2029	2030	2031	2032	2033
HRE staff	E/0112-01-H-20 E/0112-01	E/0112-03Q E/0112-03Q	10	10	0.833	0.833	0.833	0.833	0.833	0.833	0.833	0.833	0.833	0.833	0.833	0.833	0	0	0	0	0	0	0	
TEC TEC Support	E/0112-01-H-20 E/0112-01	E/0112-02Q E/0112-02Q	10	0	0.833	0.833	0.833	0.833													0	0	0	0
HRE contractors	E/0112-01-A E/0112-01	E/0112-02Q E/0112-02Q	20	0	1.666	1.666	1.666	1.666													0	0	0	0
Missions MISS	E/0112-01-A E/0112-01	E/0112-02Q E/0112-02Q	100	0	8.333	8.333	8.333	8.333													0	0	0	0
HRE staff	E/0100-01-D E/0100-01	E/0100-01 E/0100-01	10	0	0.833	0.833	0.833	0.833													0	0	0	0
TEC TEC Support	E/0100-01-H E/0100-01	E/0100-01 E/0100-01	10	0	0.833	0.833	0.833	0.833	0.833	0.833	0.833	0.833	0.833	0.833	0.833	0.833	0.837	0	0	0	0	0	0	
SCI SUPPORT SCI Support	E/0191-01-M-08 E/0191-01	E/0191-02 E/0191-02	10	0	0.833	0.833	0.833	0.833	0.833	0.833	0.833	0.833	0.833	0.833	0.833	0.833	0.837	0	0	0	0	0	0	
Itsls ITSLA	E/0191-01-W E/0191-01	E/0191-01 E/0191-01	100	0	8.333	8.333	8.333	8.333	8.333	8.333	8.333	8.333	8.333	8.333	8.333	8.333	8.337	0	0	0	0	0	0	
Itsls ITSLA	E/0191-01-W E/0191-01	E/0191-02 E/0191-02	100	0	8.333	8.333	8.333	8.333	8.333	8.333	8.333	8.333	8.333	8.333	8.333	8.333	8.337	0	0	0	0	0	0	
HRE staff	E/0191-01 E/0191-01	E/0191-01 E/0191-01	10	0	0.833	0.833	0.833	0.833	0.833	0.833	0.833	0.833	0.833	0.833	0.833	0.833	0.837	0	0	0	0	0	0	
OPS Service OPS Service (WBS Cat S)	E/0191-01-A E/0191-01	E/0191-03 E/0191-03	150	0	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	0	0	0	0	0	0	0	
NAV Cat S NAV Service (NAV Cat S)	E/0191-01-A E/0191-01	E/0191-03 E/0191-03	150	0	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	0	0	0	0	0	0	0	

Publish confirmation

Are you sure you want to publish in the database? Make sure you have checked the data before confirming.

Cancel **Confirm publication**

DATA REQUIREMENTS

The following columns are part of the predefined mapping schema:

MANDATORY COLUMNS

- Category:** Defines the category of the data, including person categories or mission categories.
- WBS:** Refers to the Work Breakdown Structure, including hierarchical levels.
- Fund:** Identifies the funding source for the data.

OPTIONAL COLUMNS

- Years:** Includes the current year and up to current year + 9.
- Months:** Includes the months of the current year.

HANDLING MISSING YEAR OR MONTH DATA

- If a subset of years or months is absent, auto-generated data fills the gaps, maintaining consistency.
- Auto-generated cells are highlighted in blue to indicate their system-generated nature.

AGGREGATION BY WBS MAIN LEVEL

Data sharing the same **Category**, **WBS Main Level**, and **Fund** are aggregated at the WBS Main Level if the **WPM All Level** setting allows it. The result of concatenated fields is highlighted with a blue border to help users easily identify concatenated values in the preview.

What's New V8.0 Release, November 2024



ERROR HANDLING AND VALIDATION

The WPM Excel Parser ensures data integrity by performing validations during the parsing process. The **Publish** process is locked (Publish button disabled) until the user uploads a corrected file that includes all mandatory columns. Errors are clearly marked in the preview to guide the user in addressing the issues.

Status: Done
 File name: error-current-year-vs-months-sum.xlsx
 File size: 13.74 KB
 File type: application/vnd.openxmlformats-officedocument.spreadsheetml.sheet
 Mapped columns: 25 / 30
 Mapped rows: 30
 Errors: 14

Choose a file

Publish

The sum of the twelve months is different from the total of the current year (330 != 548.75) (Project: E/0112-01, Fund: E/0112-01A, Category: HRE Staff)
 The sum of the twelve months is different from the total of the current year (330 != 452.25) (Project: E/0112-02, Fund: E/0112-02Q, Category: HRE Staff)
 The sum of the twelve months is different from the total of the current year (330 != 330.85) (Project: E/0108-01, Fund: E/0108-01Y, Category: HRE Contractors)
 The sum of the twelve months is different from the total of the current year (660 != 660.8) (Project: E/0126-01, Fund: E/0126-01, Category: TEC Support)
 The sum of the twelve months is different from the total of the current year (330 != 0.6) (Project: E/0158-01, Fund: E/0158-01S, Category: OPS Project)
 The sum of the twelve months is different from the total of the current year (330 != 159.3) (Project: E/0130-01, Fund: E/0130-01M, Category: CIP Support)
 The sum of the twelve months is different from the total of the current year (330 != 669.3) (Project: E/0130-01, Fund: E/0130-01M, Category: SIS Support)
 The sum of the twelve months is different from the total of the current year (330 != 330.9) (Project: E/0130-01, Fund: E/0130-01M, Category: DG Support)
 The sum of the twelve months is different from the total of the current year (330 != 330.1) (Project: E/0130-01, Fund: E/0130-01, Category: DG Support)
 The sum of the twelve months is different from the total of the current year (330 != 330.25) (Project: E/0180-01, Fund: E/0180-01, Category: DG Support)

CAT Category	WBS code Project	fund Fund	Current Year Data												Monthly Totals																			
			2022	2023	2024	2024	2025	2026	2026	2027	2027	2028	2028	2029	2029	2030	2030	2031	2032	2032	2033	2033	2034	2035	2036	jan M1	feb M2	MARCH M3	M4 M4	m5 M5	JU_n M6	july M7	-aug- M8	september M9
hre staff HRE Staff	E/0112-01-H-20 E/0112-01	E/0112-01A E/0112-01A	270	284	548.75	320	352	296	250	230	226	180	160	145	143	120	120	27	27	27	27	27	27	27	27	27	27	27	33					
HRE staff HRE Staff	E/0112-02-2-01 E/0112-02	E/0112-02Q E/0112-02Q	270	284	452.25	320	352	296	250	230	226	180	160	145	143	120	120	27	27	27	27	27	27	27	27	27	27	27	33					
hre contractors HRE Contractors	E/0108-01-E-03 E/0108-01	E/0108-01Y E/0108-01Y	270	284	330.85	320	352	296	250	230	226	180	160	145	143	120	120	27	27	27	27	27	27	27	27	27	27	27	33					
HRE con HRE Contractors	E/0126-01 E/0126-01	E/0126-01 E/0126-01	810	852	990	960	1056	888	750	690	678	540	480	435	429	360	360	81	81	81	81	81	81	81	81	81	81	81	99					
tec support TEC Support	E/0126-01-F E/0126-01	E/0126-01 E/0126-01	540	568	660.8	640	704	592	500	460	452	360	320	290	286	240	240	54	54	54	54	54	54	54	54	54	54	54	66					
ops project OPS Project	E/0158-01-A-MS E/0158-01	E/0158-01S E/0158-01S	270	284	0.6	320	352	296	250	230	226	180	160	145	143	120	120	27	27	27	27	27	27	27	27	27	27	27	33					
ops sup OPS Support	E/0158-01-E-10 E/0158-01	E/0158-01 E/0158-01	270	284	330	320	352	296	250	230	226	180	160	145	143	120	120	27	27	27	27	27	27	27	27	27	27	27	33					
cip support CIP Support	E/0158-01-A E/0158-01	E/0158-01 E/0158-01	270	284	158752.5	320	352	296	250	230	226	180	160	145	143	120	120	27	27	27	27	27	27	27	27	27	27	27	33					
cip sup CIP Support	E/0158-01 E/0158-01	E/0158-01S E/0158-01S	270	284	330	320	352	296	250	230	226	180	160	145	143	120	120	27	27	27	27	27	27	27	27	27	27	27	33					
_cip sup	E/0120-01	E/0120-01A	270	284	330	320	352	296	250	230	226	180	160	145	143	120	120	27	27	27	27	27	27	27	27	27	27	27	27					

MANDATORY COLUMN MISSING ERROR

- If one or more mandatory column (**Category**, **WBS**, or **Fund**) is missing, an error is emitted.

CALCULATION CONSISTENCY ERROR

- If inconsistencies are found in linked values, errors can be emitted. For example, if the total of monthly values does not equal the total value for the current year, an error is flagged.

RESOLUTION

- Users must review the highlighted errors and re-upload a corrected file.

IMPORTANT NOTES

- Ensure that your Excel file includes the mandatory columns. Severe inconsistencies in these columns may result in errors.
- The tool automatically corrects minor typos or discrepancies during the mapping process for mapped columns and values. Be cautious—always double-check texts and values carefully before submitting and publishing.
- Empty values into mandatory columns (Category, WBS and Fund) are not allowed.
- Verify that the **WBS Main Level** hierarchy is correct for accurate results and potential aggregations.
- All columns in the Excel file will be present in the preview data. **Empty values in year columns or month columns are equivalent to 0.**
- All lines displayed as a preview are intended for publication. Be careful—this means that all values, including zeros for years and months, will be **written and overwritten without exception**.
- The template file (*template.xlsx*) is provided solely as a guide to help structure your data before submission. **Do not submit or publish this file.**

EXAMPLES

PROJECT MANAGED AT TOP LEVEL:

A	B	C	D	E	F	G
1						
2		WPM EXCEL PARSER - TEST FILE				
3						
4		Position of the table and formating does not impact the parsing.				
5						
6						
7	CAT	WBS code	fund	2024	2025	
8	hre Contractor	E/0100-01-D	E/0100-01	5	1	
9	hre staff	E/0100-01-D	E/0100-01	10	0	
10	itsla	E/0100-01-H	E/0100-01	10	10	
11						



Status: Done
File name: TEST WPM EXCEL-Expl1.xlsx
File size: 10.94 KB
File type: application/vnd.openxmlformats-officedocument.spreadsheetml.sheet
Mapped columns: 25 / 25
Mapped rows: 3
Errors: 0

X
Choose a file

Publish

The document is valid and mapped.
Please check the data below carefully before publishing.
Only the rows with highlighted blue cells are intended to be published as they meet all the required conditions.

CAT	Category	WBS code	Project	fund	Fund	2024	2025	M1	M2	M3	M4	M5	M6	M7	M8	M9	M10	M11	M12	2026	2027	2028	2029	2030	2031	2032	2033
hre Contractor	HRE Contractors	E/0100-01-D	E/0100-01	E/0100-01	E/0100-01	5	1	0.416	0.416	0.416	0.416	0.416	0.416	0.416	0.416	0.416	0.416	0.424	0	0	0	0	0	0	0	0	
hre staff	HRE Staff	E/0100-01-D	E/0100-01	E/0100-01	E/0100-01	10	0	0.833	0.833	0.833	0.833	0.833	0.833	0.833	0.833	0.833	0.833	0.837	0	0	0	0	0	0	0	0	
itsla	ITSLA CJ13	E/0100-01-H	E/0100-01	E/0100-01	E/0100-01	10	10	0.833	0.833	0.833	0.833	0.833	0.833	0.833	0.833	0.833	0.833	0.837	0	0	0	0	0	0	0	0	



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WorkForce Planning in Segment 1100550 for Project E/0100-01 and Fund E/0100-01

Data | Rates |

Men per Year		2024	2025	2026	2027	2028	2029	2030	2031	2032	2033
I N P U T	HRE Staff	10.00									
	HRE Contractors		5.00	1.00							
	TEC Support	10.00									
Missions / Other Direct Costs (KEURO)											
O U T P U T	Missions										
	ITSLA	10.00	10.00								
	ESA Facilities										
Class C: Manpower (KEURO) - Direct Costs											
	HRE Staff	3 160.00									
	HRE Contractors	1 580.00	316.00								
	TEC Support	2 978.00									
Class E: Admin, IT and FM (KEURO) - Indirect Costs											
	Admin Cat S										
	Admin Support	1 575.00	63.00								
Class A: Industrial Cost											
	Industrial Cost (W/O Cat S)	150.00									
Total Direct Costs / Corporate / Basic Activities											
I N P U T	Direct Costs	7 788.00	336.00								
	Corporate	116.82	5.04								
	Basic Activities	37.38	1.68								

WBS
E/0100-01
FUND
E/0100-01
 All Funds Personal Filter
 Year Planning Month Planning
Save and Generate
Men/Year and Recharges for this Project/Fund
 Copy CJIS Refresh CJIS
 Generate Provisional and Planned lines for Project Root
 E/0100

 Tutorial (link to PDF)
 Official ESA Rate Document
 Generate Prov. and Plan. lines for All Projects
 Launch End Of Month Procedure

Men per Year

M/Y	Jan	Feb	March	April	May	June	July	Aug	Sept	Oct	Nov	Dec	Total
I N P U T	HRE Staff	0.833	0.833	0.833	0.833	0.833	0.833	0.833	0.833	0.833	0.833	0.837	10.000
	HRE Contractors	0.416	0.416	0.416	0.416	0.416	0.416	0.416	0.416	0.416	0.416	0.424	5.000
	TEC Support	0.833	0.833	0.833	0.833	0.833	0.833	0.833	0.833	0.833	0.833	0.837	10.000
Missions / Other Direct Costs (KEURO)													
	Missions												
	ITSLA	0.833	0.833	0.833	0.833	0.833	0.833	0.833	0.833	0.833	0.833	0.837	10.000
	ESA Facilities												

WBS
E/0100-01
FUND
E/0100-01
 All Funds Personal Filter
 Year Planning Month Planning
Save and Generate
Men/Year and Recharges for this Project/Fund
 Copy CJIS Refresh CJIS
 Generate Provisional



What's New V8.0 Release, November 2024



PT | SAP WBS | Program | GeoReturn | Project Gr. | Fund | Contract | MPP | MCP | SAP Mils | PO | Payment | SAP MPP | CAP | Schedule | Activity |

All Children Node + Desc ▾

	Commitment	Cost	Payment	Risk	Target	Delta
Total	63.000	63.000	63.000	<input checked="" type="checkbox"/> KC	0.000	63.000
Planned	63.000	63.000	63.000	<input type="radio"/> MC		
Actual	0.000	0.000	0.000	<input type="radio"/> WF		
Provisional	0.000	0.000	0.000	<input type="radio"/> Only		

✓ Target 0.000
Standard Included Delta 63.000
ONLY INDUSTRIAL COST

COMMITMENT LINES

Contract No.	Contract Desc.	Project Group	SAP WBS	Fund	Parent Fund	GL	SAP Sup...	S...	Cmt Date	Cmt Total	Cmt Actual	Cmt Planned	Pay Total	Pay Actual	Pay Planned	Cost Total
C19831	INDUSTRIAL SUP...	E/0100-01	E/0100-01	1100550	6171000	1000019077	11125...	...	11/07/2024	150 000.00	150 000.00	0.00	150 000.00	0.00	150 000.00	150 000...
IC-2024-ADITFM-R-E/0100		E/0100-01	E/0100-01	1100550	PLN_ADM	TBD	...	01/01/2025	63 000.00	0.00	63 000.00	0.00	63 000.00	0.00	63 000.00	63 000...
IC-2024-CORPGOV-R-E/0100		E/0100-01	E/0100-01	1100550	PLN_ADM	TBD	...	01/06/2024	918 750.00	0.00	918 750.00	0.00	918 750.00	0.00	918 750.00	918 750...
IC-2024-CORPGOV-R-E/0100		E/0100-01	E/0100-01	1100550	PRV_ADM	TBD	...	01/01/2024	656 250.00	656 250.00	0.00	656 250.00	0.00	656 250.00	656 250...	
IC-2024-CORPGOV-R-E/0100		E/0100-01	E/0100-01	1100550	PLN_FAC	TBD	...	01/06/2024	22 116.31	0.00	22 116.31	0.00	22 116.31	0.00	22 116.31	22 116...
IC-2024-CORPGOV-R-E/0100		E/0100-01	E/0100-01	1100550	PLN_FAC	TBD	...	01/01/2024	1 680.00	0.00	1 680.00	0.00	1 680.00	0.00	1 680.00	1 680...
IC-2024-CORPGOV-R-E/0100		E/0100-01	E/0100-01	1100550	PRV_COR	TBD	...	01/01/2024	47 706.55	47 706.55	0.00	47 706.55	0.00	47 706.55	47 706...	
IC-2024-CORPGOV-R-E/0100		E/0100-01	E/0100-01	1100550	PLN_COR	TBD	...	01/01/2024	5 040.00	0.00	5 040.00	0.00	5 040.00	0.00	5 040.00	5 040...
IC-2024-CORPGOV-R-E/0100		E/0100-01	E/0100-01	1100550	PRV_FAC	TBD	...	01/01/2024	15 266.10	15 266.10	0.00	15 266.10	0.00	15 266.10	15 266...	
IC-2024-RE-MNP-C-E/0100		E/0100-01	E/0100-01	1100550	PLN_HSC	TBD	...	01/01/2025	316 000.00	0.00	316 000.00	0.00	316 000.00	0.00	316 000.00	316 000...
IC-2024-RE-MNP-C-E/0100		E/0100-01	E/0100-01	1100550	PLN_HSC	TBD	...	01/06/2024	922 720.00	0.00	922 720.00	0.00	922 720.00	0.00	922 720.00	922 720...
IC-2024-RE-MNP-C-E/0100		E/0100-01	E/0100-01	1100550	PRV_HSC	TBD	...	01/01/2024	657 280.00	657 280.00	0.00	657 280.00	0.00	657 280.00	657 280...	
IC-2024-RE-MNP-C-E/0100		E/0100-01	E/0100-01	1100550	PLN_HSO	TBD	...	01/06/2024	1 843 860.00	0.00	1 843 860.00	0.00	1 843 860.00	0.00	1 843 860.00	1 843 860...
IC-2024-RE-MNP-C-E/0100		E/0100-01	E/0100-01	1100550	PRV_HSO	TBD	...	01/01/2024	1 316 140.00	1 316 140.00	0.00	1 316 140.00	0.00	1 316 140.00	1 316 140...	
IC-2024-RE-MNP-S-E/0100		E/0100-01	E/0100-01	1100550	9CTTSC	TBD	...	01/01/2024	4 165.00	4 165.00	0.00	4 165.00	0.00	4 165.00	4 165...	
IC-2024-RTSLSA-E/0100		E/0100-01	E/0100-01	1100550	9CTTSC	TBD	...	01/01/2025	10 000.00	0.00	10 000.00	0.00	10 000.00	0.00	10 000.00	10 000...
IC-2024-RTSLSA-E/0100		E/0100-01	E/0100-01	1100550	9CTTSC	TBD	...	01/06/2024	5 835.00	0.00	5 835.00	0.00	5 835.00	0.00	5 835.00	5 835...
IC-2024-TEC-SUP-MNP-E/0100		E/0100-01	E/0100-01	1100550	PRV_TEC	TBD	...	01/01/2024	1 198 687.00	1 198 687.00	0.00	1 198 687.00	0.00	1 198 687.00	1 198 687...	
IC-2024-TEC-SUP-MNP-E/0100		E/0100-01	E/0100-01	1100550	PLN_TEC	TBD	...	01/06/2024	1 679 313.00	0.00	1 679 313.00	0.00	1 679 313.00	0.00	1 679 313.00	1 679 313...

PROJECT MANAGED AT ALL WBS LEVELS:

IPCDB SAP WBS

WBS	Resp. Address	Title	Project Manager	Directorate	WPM all level
E/0115-01-D-90-02-03	HRE-C8	Project Control	Sheasby,Thomas	HRE	1
E/0115-01-D-90-02-04	HRE-C8	Ground Facilities Operations	Laurini,Danièle	HRE	1
E/0115-01-D-90-02-05	HRE-C8	Mission Data Systems	Sheasby,Thomas	HRE	1
E/0115-01-D-90-02-06	HRE-C8	Data Systems Infrastructure	Sheasby,Thomas	HRE	1
E/0115-01-D-90-02-08	HRE-C8	Facilities Utilisation	Sheasby,Thomas	HRE	1
E/0115-01-D-90-03	HRE-C8	Robotics Technology & Systems (TEC)	Schoonejans,Philippe	HRE	1
E/0115-01-X		Management reserve and risk margin	HRE		1
E/0134	HRE-C8	ERA	Schoonejans,Philippe	HRE	1
E/0134-01	HRE-C8	ERA	Schoonejans,Philippe	HRE	1
E/0134-01-A	HRE-C8	Project Management & Technical Support	Schoonejans,Philippe	HRE	1
E/0134-01-B	HRE-C8	Preparatory activities & studies	Schoonejans,Philippe	HRE	1
E/0134-01-D	HRE-C8	ERA Spacecraft	Schoonejans,Philippe	HRE	1
E/0134-01-H	HRE-C8	Ground Segment & Operation Preparations	Schoonejans,Philippe	HRE	1
E/0134-01-P	HRE-C8	ERA internal costs under ISS envelope	Schoonejans,Philippe	HRE	1
E/0137-02	HRE-C4	Lunar Pathfinder	Hufenbach,Bernhard	HRE	1
E/0137-02-A	HRE-C4	Project Management & Technical Support	Hufenbach,Bernhard	HRE	1
E/0137-02-A-04	HRE-C4	IT SLA	Hufenbach,Bernhard	HRE	1
E/0137-02-I	HRE-C4	Lunar Mission Support Service	Hufenbach,Bernhard	HRE	1
E/0171-02-A-01-01	HRE-C9	Project Office HLCs	Stagnaro,Luca	HRE	1
E/0171-02-A-01-02	HRE-C9	HLCs Travel costs	Stagnaro,Luca	HRE	1
E/0171-02-A-01-02	HRE-C9	HLCs Miscellaneous cost	Stagnaro,Luca	HRE	1
E/0171-02-A-01-03	HRE-C9	IT SLA HLCs	Stagnaro,Luca	HRE	1
E/0171-02-A-01-AA	HRE-C9	HLCs HRE Project team	Stagnaro,Luca	HRE	1

A	B	C	D	E	F	G	H	I
WPM EXCEL PARSER - TEST FILE								
Position of the table and formating does not impact the parsing.								
CAT								
WBS code								
fund								
2024								
2025								
2026								
2027								
7	itsla	E/0115-01-X	E/0115-01Q	100				
8	NAV Service	E/0134-01-P	E/0134-01Q	10				
9	itsla	E/0134-01-P	E/0191-01		100	200	300	



What's New V8.0 Release, November 2024



Status: Done
 File name: TEST WPM EXCEL-simple.xlsx
 File size: 9.43 KB
 File type: application/vnd.openxmlformats-officedocument.spreadsheetml.sheet
 Mapped columns: 25 / 26
 Mapped rows: 3
 Errors: 0

The document is valid and mapped.
 Please check the data below carefully before publishing.
 Only the rows with highlighted blue cells are intended to be published as they meet all the required conditions.

CAT Category	WBS code Project	fund Fund	2024	2025	2026	2027	Column8	M1	M2	M3	M4	M5	M6	M7	M8	M9	M10	M11	M12	2028	2029	2030	2031	2032	2033	
itsla ITSLA CJ13	E/0115-01-X E/0115-01-X	E/0115-01Q E/0115-01Q	100	0	0	10	0	8.333	8.333	8.333	8.333	8.333	8.333	8.333	8.333	8.333	8.333	8.333	8.337	0	0	0	0	0	0	
NAV Service NAV Service (NAV Cat S)	E/0134-01-P E/0134-01-P	E/0134-01Q E/0134-01Q	10	0	0	0	0	0.833	0.833	0.833	0.833	0.833	0.833	0.833	0.833	0.833	0.833	0.833	0.837	0	0	0	0	0	0	
itsla ITSLA CJ13	E/0134-01-P E/0134-01-P	E/0191-01 E/0191-01	0	100	200	300	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0



WorkForce Planning in Segment 1100587 for Project and Fund E/0134-01Q

Data		Rates		CJIS										
I N P U T	Men per Year												FUND E/0134-01Q	
	M/Y	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033			
HRE Contractors														
NAV Service (NAV Cat S)	10.00													
Missions / Other Direct Costs (KEURO)														
	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033				
Missions														
ITSLA														
ESA Facilities														
Class C: Manpower (KEURO) - Direct Costs														
HRE Contractors														
NAV Service (NAV Cat S)	1887.00													
Class E: Admin, IT and FM (KEURO) - Indirect Costs														
Admin Cat S	381.00													
Admin Support														
Class A: Industrial Cost														
Industrial Cost (W/O Cat S)														
Total Direct Costs / Corporate / Basic Activities														
Direct Costs	1887.00													
Corporate	28.30													
Basic Activities	9.06													
Men per Year														
M/Y	Jan	Feb	March	April	May	June	July	Aug	Sept	Oct	Nov	Dec	Total	
HRE Contractors														
NAV Service (NAV Cat S)	0.833	0.833	0.833	0.833	0.833	0.833	0.833	0.833	0.833	0.833	0.833	0.837	10.000	
Missions / Other Direct Costs (KEURO)														
	Jan	Feb	Mar	April	May	June	July	Aug	Sep	Oct	Nov	Dec	Total	
Missions														
ITSLA														
ESA Facilities														



What's New V8.0 Release, November 2024



SAP WBS

PT	SAP WBS	Program	GeoReturn	Project Gr.	Fund	Contract	MPP	MCP	SAP Mils	PO	Payment	SAP MPP	CAP	Schedule	Activity																																																																																																																																																																																																												
<input checked="" type="checkbox"/> AI Children	<input type="checkbox"/> Node + Desc																																																																																																																																																																																																																										
<table border="1"> <thead> <tr> <th colspan="3">Commitment</th> <th colspan="3">Cost</th> <th colspan="3">Payment</th> <th colspan="3">Risk</th> <th colspan="3">Target</th> <th colspan="3">Delta</th> </tr> <tr> <td>Total</td> <td>1 887.000</td> <td></td> <td>Planned</td> <td>1 101.065</td> <td></td> <td>Actual</td> <td>785.936</td> <td></td> <td>Provisional</td> <td>0.000</td> <td></td> <td></td> <td></td> <td>0.000</td> <td></td> <td>1 887.000</td> </tr> </thead> <tbody> <tr> <td colspan="16"> <table border="1"> <thead> <tr> <th>Contract No.</th> <th>Contract Desc.</th> <th>Project Group</th> <th>SAP WBS</th> <th>Fund</th> <th>Parent Fund</th> <th>GL</th> <th>Sup.</th> <th>S...</th> <th>Cmt Date</th> <th>Cmt Total</th> <th>Cmt Actual</th> <th>Cmt Planned</th> <th>Pay Total</th> <th>Pay Actual</th> <th>Pay Planned</th> <th>Cost Total</th> </tr> </thead> <tbody> <tr> <td>IC-2024-NAV-EOS-C-E/0134</td> <td>ERA</td> <td>E/0134-01P</td> <td>E/0134-01Q</td> <td>1100587</td> <td>NAV-VAR-EOS</td> <td>TBD</td> <td></td> <td></td> <td>... 01/06/2024</td> <td>1 101 064.50</td> <td>0.00</td> <td>1 101 064.50</td> <td>0.00</td> <td>1 101 064.50</td> <td>0.00</td> <td>1 101 064.50</td> </tr> <tr> <td>IC-2024-NAV-EOS-C-E/0134</td> <td>ERA</td> <td>E/0134-01P</td> <td>E/0134-01Q</td> <td>1100587</td> <td>NAV-VAR-EOS</td> <td>TBD</td> <td></td> <td></td> <td>... 01/01/2024</td> <td>785 935.50</td> <td>0.00</td> <td>785 935.50</td> <td>0.00</td> <td>785 935.50</td> <td>0.00</td> <td>785 935.50</td> </tr> <tr> <td>IC-2024-ADITFM-R-E/0134</td> <td>ERA</td> <td>E/0134-01P</td> <td>E/0134-01Q</td> <td>1100587</td> <td>PVN_ADMIN</td> <td>TBD</td> <td></td> <td></td> <td>... 01/06/2024</td> <td>222 250.00</td> <td>0.00</td> <td>222 250.00</td> <td>0.00</td> <td>222 250.00</td> <td>0.00</td> <td>222 250.00</td> </tr> <tr> <td>IC-2024-CORPGOV-R-E/0134</td> <td>ERA</td> <td>E/0134-01P</td> <td>E/0134-01Q</td> <td>1100587</td> <td>PVN_COR</td> <td>TBD</td> <td></td> <td></td> <td>... 01/06/2024</td> <td>16 515.99</td> <td>0.00</td> <td>16 515.99</td> <td>0.00</td> <td>16 515.99</td> <td>0.00</td> <td>16 515.99</td> </tr> <tr> <td>IC-2024-CORPGOV-R-E/0134</td> <td>ERA</td> <td>E/0134-01P</td> <td>E/0134-01Q</td> <td>1100587</td> <td>PVN_FAC</td> <td>TBD</td> <td></td> <td></td> <td>... 01/06/2024</td> <td>5 285.12</td> <td>0.00</td> <td>5 285.12</td> <td>0.00</td> <td>5 285.12</td> <td>0.00</td> <td>5 285.12</td> </tr> <tr> <td>IC-2024-ADITFM-R-E/0134</td> <td>ERA</td> <td>E/0134-01P</td> <td>E/0134-01Q</td> <td>1100587</td> <td>PRV_ADMIN</td> <td>TBD</td> <td></td> <td></td> <td>... 01/01/2024</td> <td>158 750.00</td> <td>0.00</td> <td>158 750.00</td> <td>0.00</td> <td>158 750.00</td> <td>0.00</td> <td>158 750.00</td> </tr> <tr> <td>IC-2024-CORPGOV-R-E/0134</td> <td>ERA</td> <td>E/0134-01P</td> <td>E/0134-01Q</td> <td>1100587</td> <td>PRV_COR</td> <td>TBD</td> <td></td> <td></td> <td>... 01/01/2024</td> <td>11 789.05</td> <td>0.00</td> <td>11 789.05</td> 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Cmt Date	Cmt Total	Cmt Actual	Cmt Planned	Pay Total	Pay Actual	Pay Planned	Cost Total	IC-2024-NAV-EOS-C-E/0134	ERA	E/0134-01P	E/0134-01Q	1100587	NAV-VAR-EOS	TBD			... 01/06/2024	1 101 064.50	0.00	1 101 064.50	0.00	1 101 064.50	0.00	1 101 064.50	IC-2024-NAV-EOS-C-E/0134	ERA	E/0134-01P	E/0134-01Q	1100587	NAV-VAR-EOS	TBD			... 01/01/2024	785 935.50	0.00	785 935.50	0.00	785 935.50	0.00	785 935.50	IC-2024-ADITFM-R-E/0134	ERA	E/0134-01P	E/0134-01Q	1100587	PVN_ADMIN	TBD			... 01/06/2024	222 250.00	0.00	222 250.00	0.00	222 250.00	0.00	222 250.00	IC-2024-CORPGOV-R-E/0134	ERA	E/0134-01P	E/0134-01Q	1100587	PVN_COR	TBD			... 01/06/2024	16 515.99	0.00	16 515.99	0.00	16 515.99	0.00	16 515.99	IC-2024-CORPGOV-R-E/0134	ERA	E/0134-01P	E/0134-01Q	1100587	PVN_FAC	TBD			... 01/06/2024	5 285.12	0.00	5 285.12	0.00	5 285.12	0.00	5 285.12	IC-2024-ADITFM-R-E/0134	ERA	E/0134-01P	E/0134-01Q	1100587	PRV_ADMIN	TBD			... 01/01/2024	158 750.00	0.00	158 750.00	0.00	158 750.00	0.00	158 750.00	IC-2024-CORPGOV-R-E/0134	ERA	E/0134-01P	E/0134-01Q	1100587	PRV_COR	TBD			... 01/01/2024	11 789.05	0.00	11 789.05	0.00	11 789.05	0.00	11 789.05	IC-2024-CORPGOV-R-E/0134	ERA	E/0134-01P	E/0134-01Q	1100587	PRV_FAC	TBD			... 01/01/2024	3 772.50	0.00	3 772.50	0.00	3 772.50	0.00	3 772.50
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ESA ESTIMATED DATE PREDICTED BY AN IA MODULE

To ESA support project management, particularly focusing on planning and estimation of delays in projects, an Artificial Intelligence Module has been developed to predict the ESA Estimated Date (EED).

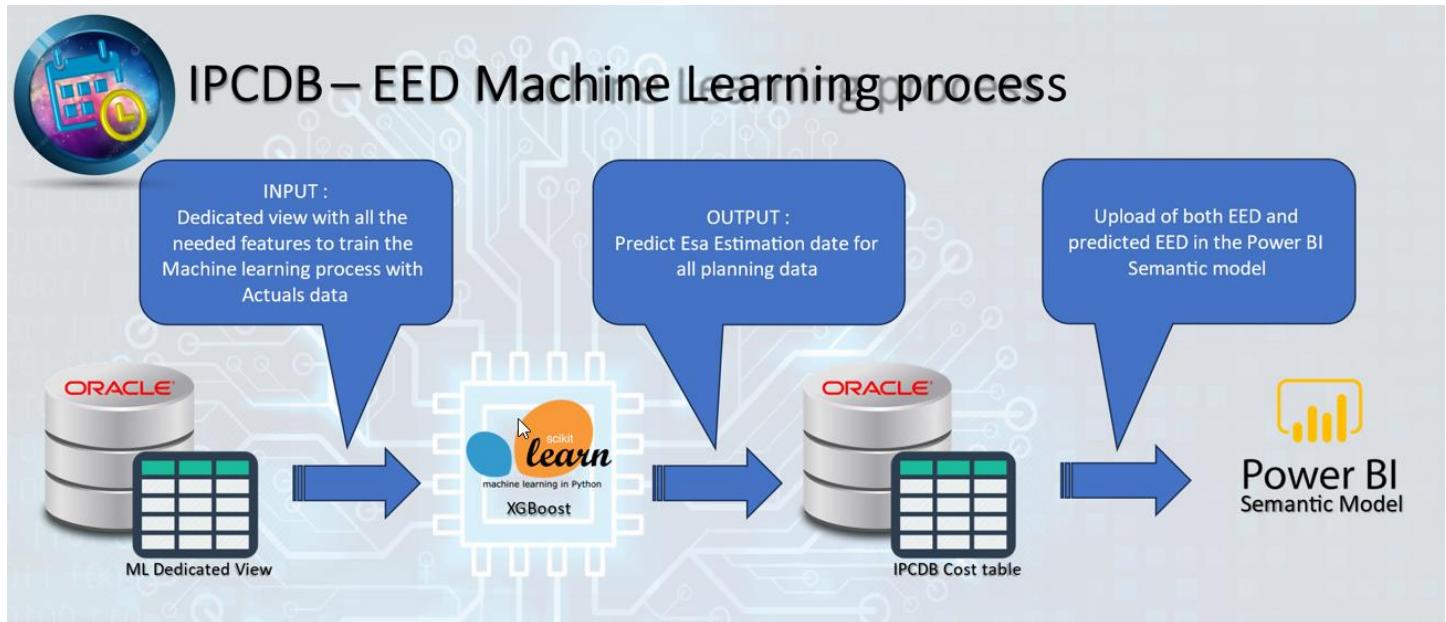
The EED is the estimated milestone completion date by ESA. In reality, we know that there is always a delay between the actual completion of the project (EED) and the contractual completion date (contractual date). This is where the importance of the EED lies, which we were aiming to predict with this Machine Learning.

The EED Machine Learning is already up and running and provides EED predictions that are now stored in the IPCDB Oracle database. First of all for users, this EED predicted will be displayed within a new column "EED predicted" in IPCDB. The predictions can also be integrated into the Power BI Semantic Model for advanced reporting and visualisation, data analysis and comparison between machine learning predictions and the current manual planning.

MACHINE LEARNING PROCESS

A Machine Learning (ML) is a field of study within artificial intelligence that aims to enable computers to learn without being explicitly programmed. Instead of following predefined rules, a machine learning system automatically extracts knowledge from data to improve its performance on a specific task.

Data preprocessing is a crucial step in any Machine Learning project, involving the transformation of raw data into a format suitable for model training.



Key Consideration: Since HRE does not have access to a Microsoft Fabric License, the machine learning functionality is designed to act as an extension of the IPCDB database. This ensures that the process remains efficient and accessible, running on a daily basis and retraining the model with new incoming actuals data.

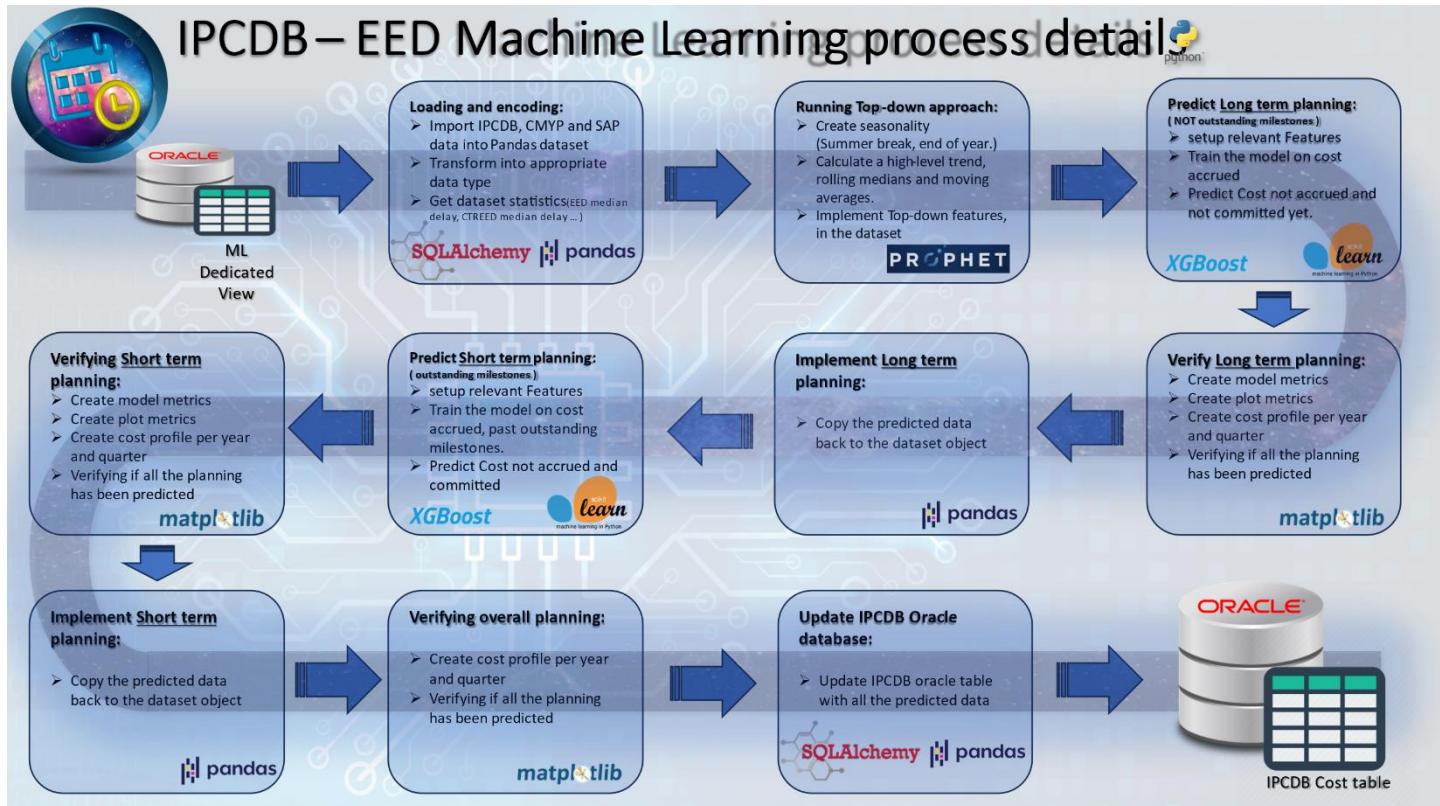
Various Machine Learning approaches were previously examined, leading to the conclusion that our prediction project falls under a regression model, requiring advanced algorithms (such as random forests or gradient boosting) to capture the complexity of the issue. We also reviewed how to properly prepare our data before testing regression models. Finally, we explored how to evaluate the relevance of our models as well as their interpretability. These findings were applied to propose the chosen method and implement the solution for our specific case.

As a result, our Python-based machine learning solution is designed to predict and optimize critical project metrics, including ESA Estimated Date (EED) delays, using historical cost and milestone data.

The model is trained to predict the EED Delay (the difference between the EED and the Contractual Date). Thus, once the EED Delay is determined, we can calculate the EED date by adding the number of days obtained for the EED Delay to the Contractual Date. To perform this prediction XGBoost was chosen as the reference model.

The process integrates multiple machine learning and used advanced regression models such as XGBoost and scikit-learn, along with time-series forecasting using Prophet, to enhance the accuracy of predictions.

The predictions are stored in the IPCDB Oracle database and later integrated into the Power BI Semantic Model for advanced reporting and comparison with current data/planning.



DATA RETRIEVAL

The project data, we are working with, is located in different tables in our database.

The main tables used by IPCDB:

1. **ACCONT**: The table corresponding to contracts.
2. **ACCEVT**: The table corresponding to contract events.
3. **FDCMTL**: The table corresponding to commitment lines.
4. **FDMILSCP and FDMILCOP**: The table corresponding to cost milestones and the table that links cost milestones to commitment lines, which we will use to ensure that the milestones' data we are utilizing are correctly associated with a commitment line, allowing us to trace back to the contract. We can also see another branch of milestones coming from FDCMTL, which are the payment milestones.

We also use data from the schema called Datalake. This schema consolidates the same information as the IPCDB, but only for completed and actual data (no pure planning data). This data comes from other tools like SAP or Excel files, for example. The data is integrated into the ESA schema, but in our case, it will allow us to perform checks on the consistency of the data from our system with that from others.

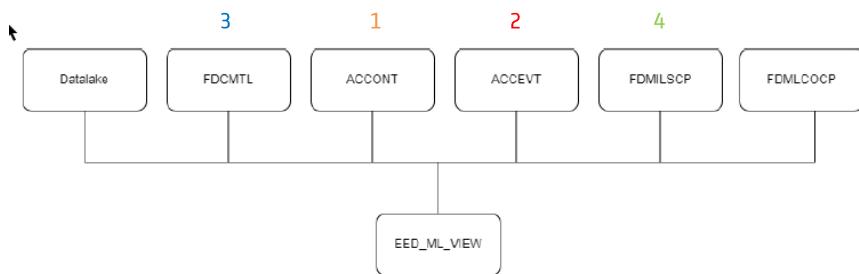
What's New V8.0 Release, November 2024



The screenshot displays several SAP tables:

- Contract** (Table 1): Shows contracts with descriptions like "ADVANCED OPTICAL LANDMARK NAVIGATION TECHNOLOGY" and "LUNAR LANDER PHASE B I".
- Contract Events** (Table 2): Shows events such as "Milestone 1" and "Milestone 2".
- Milestone Cost Plan** (Table 3): Shows costs for milestones.
- Milestones** (Table 4): Shows milestones with details like "C. Date", "A. Date", and "SAP PO".
- Confirmations** (Table 5): Shows confirmed amounts and dates.
- LUMINIFER LINES** (Table 6): Shows lines with various parameters.

To facilitate their visualization and retrieval for our model, a view centralizing this information has been set up in our database. This figure shows the different tables used to create the view utilized for our model:



The total number of rows in this view is 30,126. This number may evolve with the addition of new milestones into the system, as well as with potential changes to the filters applied for their retrieval.

These 30,000 rows contain approximately 20,000 completed milestones and 10,000 still in progress.

We will briefly review the important fields listed in this view. Among them, we find:

- The type of contract (e.g., basic or contractual event) in which the milestone is included.
- The supplier
- The various dates (CTR: Contract signature Date, CMT: Commitment Date, CDAT: Milestone Contractual Date and EED: ESA Estimation Date)
- The delays between each of these dates, as presented at the beginning of the thesis [CTR-CMT, CMT-CDAT, CDAT-EED, CMT-EED]. These delays are expressed in days.
- The amount committed to the milestone.

These data represent the most important "raw" data, having undergone no modifications, and will serve as the basis for our preprocessing. Other important fields are contained in this view but are the result of a feature engineering process that we will cover next.

DATA PREPROCESSING

Data preprocessing is a crucial step in any machine learning project, involving the transformation of raw data into a format suitable for model training.

Real-world data is often imperfect, inconsistent, and incomplete, which can lead to poor-quality models if used directly. Common issues in raw data include missing values, outliers, noise, inconsistencies, and irrelevant or redundant features. Preprocessing aims to address these issues and provide high-quality data for algorithms.

There is no one-size-fits-all approach to preprocessing; techniques must be adapted to each specific case. The choice of preprocessing methods often depends on the context and requires trial and error. Research has shown that preprocessing can significantly improve machine learning model performance.

Common preprocessing techniques include:

- **Data cleaning:** Handling missing values (deletion or imputation), detecting and correcting outliers and inconsistencies.
- **Dimensionality reduction:** Selecting or extracting the most relevant features to reduce model complexity and prevent overfitting.
- **Feature transformation:** Normalizing or standardizing numerical values, encoding categorical variables, and discretizing continuous variables.
- **Feature creation or addition:** Adding extra information to enhance the quality and relevance of data.

Beyond improving performance, data preprocessing also influences model interpretability and trust. Poor-quality data can lead to biased or misleading models, making it difficult to understand the reasons behind decisions. Good preprocessing makes models more transparent and reliable.

Finally, data preprocessing can affect the costs and timelines of machine learning projects. Although it can be time-consuming, an investment pays off by saving time during model training and fine-tuning.

In our case, how the data from our view was pre-processed?

Part of this processing is done directly during the creation of the view. Indeed, given that we start with several decades of data history, it is clear that much of it is outdated. This is simply because the structure of project data has evolved over the years, both from a business perspective and from a technical standpoint.

We will quickly mention the specific techniques that we used:

- **Missing Data:** Regarding the management of missing data, we applied filters during the integration of the data into the view to minimize the amount of missing data. We excluded a number of milestones with incomplete data structures, because these were primarily older milestones with incomplete fields. In recent years, ESA has implemented processes and constraints to limit such cases from occurring. Therefore, we are confident that the future milestones, for which we will make predictions, should have a relatively complete structure, similar to the data we selected for training. Moreover, despite the removal of these milestones, we still have a sufficient number of usable data points for model training.
- **Historical data:** We have reduced our data to contracts established from 2010 onwards. As a result, we are left with 14 years of relatively clean data, which is more than adequate for our needs.
- **Outliers:** These cases are the data for which the delay between the CMT and the EED is too large. We have excluded rare cases, such as milestones with a delay of more than 4000 days between the CMT and EED, to not affect the precision of the model.
- **Inconsistent data:** For example, some milestones have a negative delay between the CDAT and the EED (EED Delay). There are other cases, where the data seems inconsistent but can be explained as they correspond to very specific situations. For now, when we cannot explain the inconsistencies or process them to make them understandable, we exclude them from the model's training dataset.

FEATURE CREATION

TIME SERIES DATA

We thought it would be interesting to use a simple time series model to add its results to our information. Our choice fell on Prophet, developed by META.

It handles time series with nonlinear trends, seasonal effects at different time scales, and events like holidays effectively. The benefit of this approach is twofold. On one hand, Prophet may potentially capture trends and seasonality in delivery delays and use its forecasts as additional input variables for XGBoost (that might struggle to learn directly from the raw data). By providing this "preprocessed" information to XGBoost, we hope to improve its performance.

Using Prophet allows us to capture information about the temporal trends and seasonality of the ESA-related data. This enriches the dataset with components such as:

- **Trend:** A global trend that may affect long-term forecasts.
- **Yearly and Weekly:** Annual and weekly cyclical behaviors.

We then add this data to our original dataset.

FEATURE INTERACTION

Interaction features are created to capture more complex relationships than those that could be captured by the features individually. By taking two explanatory variables and combining them, the model is able to detect relationships that may not be obvious when considering these variables in isolation.

For example, ('CMT-Contractual date Delay', 'Number of Milestones by CMT'): Here, the combined effect of the contractual delay and the number of milestones is captured. This could be relevant if, for instance, projects with more milestones per CMT tend to have longer delays, or if the delay between CMT and CDAT varies depending on the number of milestones.

DATA TRANSFORMATION

The advantage of using decision tree-based models is that data transformation techniques, such as standardization, normalization, categorical variable encoding, or discretization, are not strictly necessary. These algorithms have a natural ability to handle both continuous and categorical variables without the need for specific transformations.

Similarly, for categorical variables, decision tree-based models can efficiently handle data encoded as labels or through ordinal encoding, without the need for techniques like one-hot encoding.

Finally, regarding discretization, the chosen models handle continuous data directly without the need to group them into discrete intervals. The adaptive splitting process of the trees allows for effective capture of non-linear relationships and complex interactions, thus avoiding potential information loss associated with unnecessary transformations.

BUSINESS-RELATED FEATURES

We also created new features that did not exist in the original dataset but had to be inferred. These include features such as the number of milestones in each contract and commitment line, as well as the position of the milestone within the contract and the commitment line.

USE OF THE DATASET

After performing rigorous preprocessing on our data, we now have a clean and structured dataset, ready to test our delay prediction models. However, as mentioned earlier in the paper, preprocessing techniques are used iteratively, so some of the methods we previously presented have been modified and adapted after selecting the algorithm to refine these predictions, and they will likely continue to be adjusted in the future of this project.

We will now divide our dataset into two parts: a training sample, which will be used to build our model, and a test sample, which will allow us to evaluate its performance on data it has not already seen. 70% of the data will be dedicated to the training sample, and the remaining 30% will be used for testing. This is one of the most common divisions.

Specifically, our training sample will be used to "teach" the model how to predict delays based on the features of the milestones. During this learning phase, the algorithm will adjust its internal parameters to minimize its prediction error. The quality of this learning will depend on both the relevance of the selected features (which is why preprocessing is so important) and the algorithm's ability to capture the complex relationships between these features and the delays.

Once the model is trained, we will evaluate its performance by having it predict delays on the test sample, for which we know the true values but that the model has never "seen." This will give us an unbiased estimate of its ability to generalize, i.e., its capacity to make accurate predictions on new data.

THE MODEL

We will describe the model itself, from its selection to its interpretation, including comparisons with other models tested and their evaluations.

The model is trained to predict the EED Delay (the difference between the EED and the Contractual Date). Thus, once the EED Delay is obtained, we can determine the EED date by adding the predicted number of days for the EED Delay to the Contractual Date.

Based on the list of different tasks that can be performed by ML, and with the information we have, it quickly becomes clear that our task is a regression task and therefore a supervised learning problem. (Regression: prediction of a continuous numerical value.)

CHOICE OF THE REFERENCE MODEL

After reviewing the main regression algorithms, we have chosen XGBoost as the reference model to predict milestone delay at ESA. This choice is motivated by several reasons.

First, XGBoost is renowned for its excellent predictive performance, often surpassing other gradient boosting algorithms and random forests. It has won numerous machine learning competitions and is widely used in industry, which attests to its robustness and versatility.

Secondly, due to its boosting architecture and regularization parameters, it is capable of capturing nonlinear relationships and complex interactions between features. This is particularly useful for solving our problem, where delays may depend on subtle combinations of project characteristics, which may not necessarily be captured by linear models.

Additionally, it incorporates several regularization mechanisms (L1, L2, column subsampling) that help control overfitting. This is an important advantage when working with real-world data, which may be noisy or contain outliers, as is often the case with industrial databases.

It is optimized for speed and scalability, even with large datasets. It uses several advanced techniques (level-wise splitting, gradient caching, parallelization) to reduce computation time. This is a significant advantage in our context, where we need to train and optimize many models to find the best configuration.

Also, it has been already successfully tested and used in project management contexts. It is also one of the most performant algorithms according to the comparative study we reviewed.

For all these reasons, we decided to use XGBoost as the reference model for our delay prediction task.

MODEL CONFIGURATION

Now that we have chosen our reference model, we must configure it.

One of the strengths of XGBoost is its great flexibility, thanks to its many hyperparameters that allow for fine control of its behavior. However, this flexibility comes at a cost: it is necessary to find the right combination of hyperparameters to achieve the best performance, which can be a long and complex process.

In our study, we focused on the main hyperparameters that influence the tree structure and model regularization:

- **max_depth**: the maximum depth of the trees. A value that is too large can lead to overfitting, while a value that is too small can underutilize the interactions between features.
- **learning_rate**: the learning rate. A smaller value slows down learning but can lead to better generalization, at the cost of longer training times.
- **n_estimators**: the number of trees to build. The more there are, the more complex and expressive the model becomes, but it is also more likely to overfit.
- **subsample and colsample_bytree**: the row and column subsampling ratios. They introduce randomness into the training process and reduce the risk of overfitting.
- **reg_alpha and reg_lambda**: the L1 and L2 regularization terms. They penalize the absolute value and the square of the coefficients, respectively, encouraging simpler and more stable models.

To find the best combination of these hyperparameters, we initially used GridSearchCV, which exhaustively tests all possible combinations of a predefined set of values. However, this approach proved to be very time-consuming, given the large number of combinations to test.

We then turned to a more efficient approach: Bayesian optimization, as implemented in the Optuna library. Unlike grid search, Bayesian optimization explores the hyperparameter space intelligently, learning from previous trials to focus on the most promising regions. It builds a probabilistic model of performance based on the hyperparameters and uses this model to choose the next values to try. This approach allowed us to converge more quickly to a good configuration while exploring a larger search space.

Thanks to this Bayesian optimization, we were able to identify a combination of hyperparameters that offers a good trade-off between performance and regularization for our problem, and that achieved better results than those obtained with the GridSearchCV method. We will use this optimal configuration in the remainder of our experiments.

When comparing this model to others by testing different algorithms, we will use the same hyperparameter search technique.

EVALUATION AND COMPARISON OF THE MODEL WITH OTHER POTENTIAL CANDIDATES

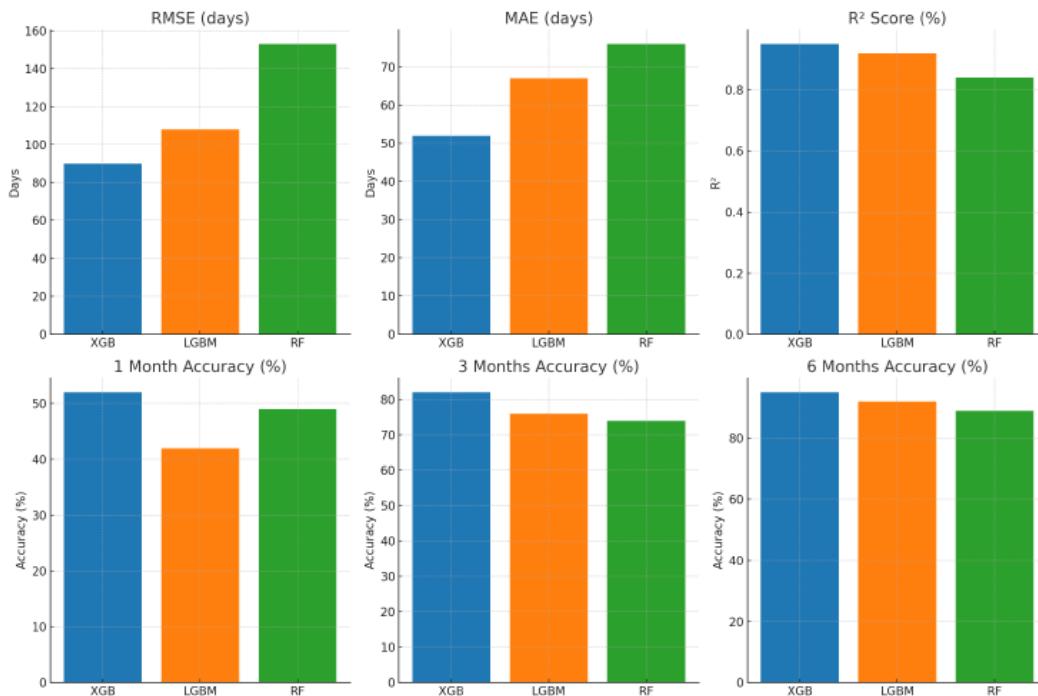
XGBoost was selected as the reference model for the reasons mentioned previously.

To ensure that this choice was correct, we compared its results with other models that also seemed well-suited to the problem. We compared these results with a Random Forest and LightGBM, which are the best competitors to XGBoost. Additionally, the advantage of these algorithms is that they do not require significant changes in the way data is preprocessed, parameterized, or deployed.

We will compare the models based on these regression metrics: RMSE, MAE, R². (Regression metrics are used in machine learning to optimize regression models, evaluate their final performance, and compare them against each other.)

We also include additional metrics that describe the percentage of predictions within a certain distance interval from the actual EED Delay (1, 3, and 6 months).

Our main objective is to achieve results that allow approximating the EED with a maximum deviation of 3 months from the actual value in the test set.



In conclusion, XGBoost stands out as the best overall model, offering a combination of low errors (RMSE and MAE), a high R², and good accuracy across all time horizons (1, 3, and 6 months). This makes it a particularly robust model for predicting delays. LGBM closely follows, with competitive performance, especially in terms of R² and accuracy in the medium and long term, but with a slight disadvantage in terms of RMSE and MAE. Random Forest is clearly the least performing, particularly in terms of RMSE, MAE, and R², although its accuracy remains acceptable in the medium and long term. This model seems less suited for fine predictions of delays.

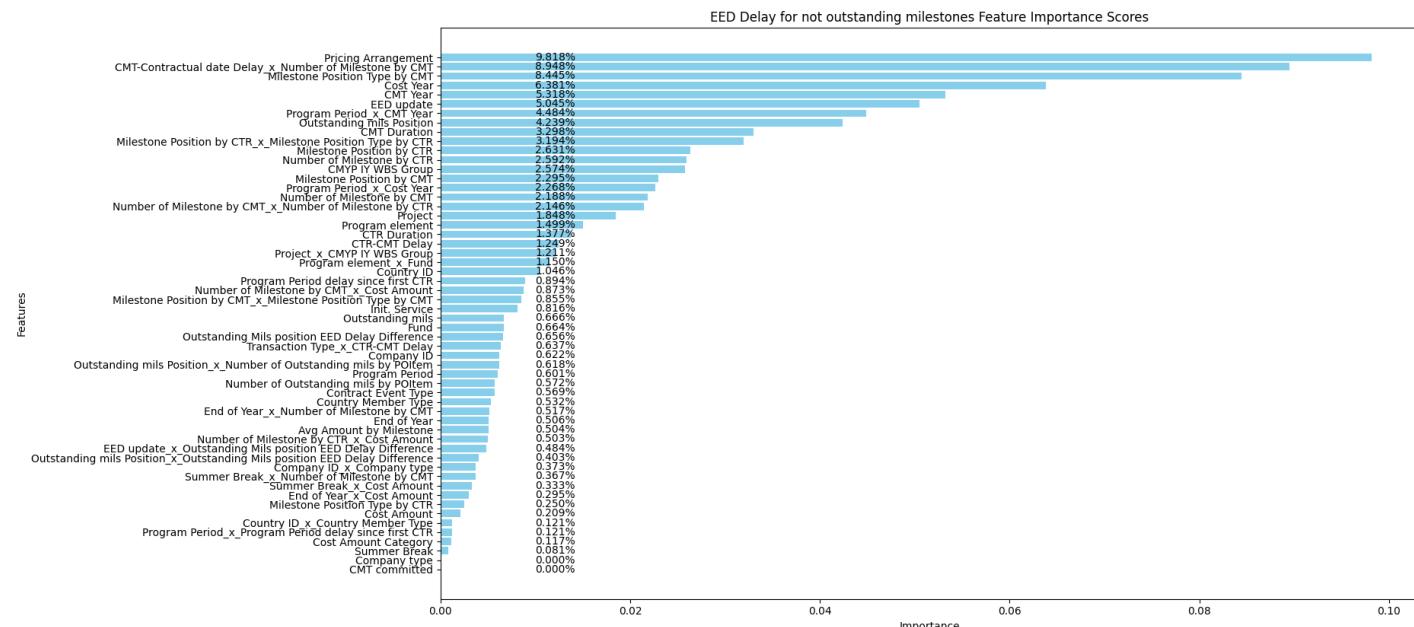
What's New V8.0 Release, November 2024



Considering that in 80% of cases, XGBoost is able to predict an EED Delay within a 3-month range of the actual EED Delay values, we can conclude that the use of this model is viable. Indeed, it can certainly still be improved.

INTERPRETABILITY OF THE MODEL

For the interpretability of the model, we chose to use the “feature importance graph” integrated into XGBoost, as well as the SHAP method.



This graph shows the overall importance of each feature for the model's predictions. We can see that “*Pricing Arrangement*” is at the top of the list; it is an original feature of our dataset (neither created nor modified during the preprocessing process).

The following features, with slightly lower importance, include an interaction feature (*the delay between CMT and Contractual Date, combined with the number of milestones per commitment line*) and a feature created from domain knowledge (*the milestone's position in the commitment line*).

Therefore, we can conclude that the data preprocessing work had a significant impact on our predictions. In fact, the model performed worse without these features, so they do improve the predictions.

MODEL SAVING

Once our XGBoost model is optimized and validated, the question of its deployment and use within the ESA's information system arises. Rather than, retraining the model each time a new prediction is needed, we have chosen to save the pre-trained model and reuse it for future predictions.

In conclusion, after all these steps, our Model is finally defined and trained, and is ready to predict the EEDs of unachieved milestones.

CONCLUSION

This project, applying artificial intelligence to project management at ESA, led to the development of a practical solution for estimating milestone end dates. The results obtained are encouraging, with the XGBoost model achieving a prediction accuracy within a three-month margin in 82% of cases. This success demonstrates the relevance of the chosen approach and its alignment with ESA's needs.

The establishment of a complete Machine Learning pipeline, tailored to ESA's specific constraints, stands as one of the major accomplishments of this project. The development of a domain-specific data preprocessing methodology, combined with the creation

of a high-performing predictive model, has resulted in an operational solution. The two proposed integration strategies provide concrete deployment prospects within the existing environment.

Several limitations were identified throughout the project, but these limitations open the door to numerous avenues for improvement and future development.

CHOICE OF TECHNOLOGIES

We chose to use the Python language to implement our machine learning models, due to its rich set of dedicated libraries and ease of use. More specifically, we relied on the following libraries:

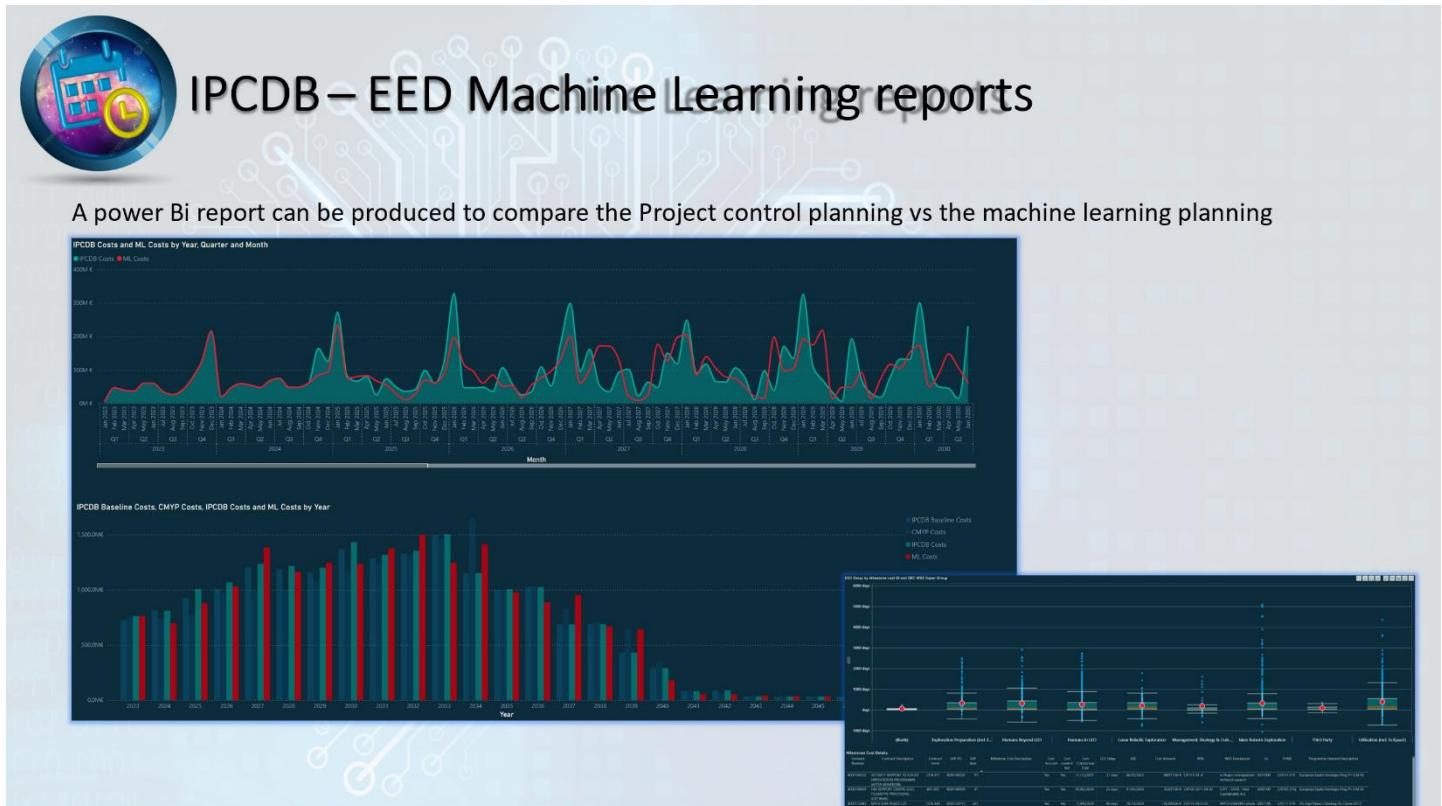
- **Scikit-learn (sklearn)**: A reference library for machine learning, offering a wide range of preprocessing, modeling, and evaluation algorithms.
- **Pandas**: A powerful library for data manipulation and analysis, particularly in the form of dataframes.
- **XGBoost**: An optimized implementation of gradient boosting, known for its performance and scalability.
- **Prophet**: A library developed by Facebook for time series forecasting, which we used to extract trends and seasonality in the delay data.

These technological choices enabled us to cover the entire Machine Learning pipeline, from preprocessing to modeling and also evaluation, while benefiting from efficient and proven implementations.

REPORTING AND BUSINESS INTELLIGENCE

The predicted EED values, along with the original EED data, are uploaded to the Power BI Semantic Model. This integration allows for seamless reporting and visualization.

The result will be displayed in a Power BI report, which enables comparison data analysis between Project Controller planning versus Machine learning predictions. Thus, providing to Project Managers and Stakeholders with actionable insights to align data-driven decisions with manual inputs.



"EED PREDICTED" COLUMN IN IPCDB TO VISUALISE THE PREDICTIONS

The first step for the implementation of these predicted dates in IPCDB is to visualise them by adding a new column.

This solution allows IPCDB users and project controllers to see the prediction made by machine learning, without affecting existing data or existing processes. It is a first step to assess whether the estimates made by the model are more relevant than those made manually, to what extent and in which cases and to the gain the trust of users before further implementation.

A new column called "EED predicted" is available via the Menu Display/Hide:

Display/Hide C...

Visible Columns

- Milestone Status
- Impacted
- Mils No.
- Supplier
- SAP Supplier
- Amount
- Cur
- Contract. Date
- EED
- EED Predicted
- A. Date
- Pv
- Conf No
- SAP PO
- PO Item
- Description
- Code Sch Mils
- Schedule Mils
- Delay
- Days-Months

Milestones

Mils N...	S...	SAP Sup...	Amount	Contract. Date	EED	EED Predicted	A. Date	C... No	SAP PO	PO I...	Description
001.001.001	1000043368	59 500,00 EUR	30/09/2024	01/05/2025	07/05/2025				4000144764		3 PROGRESS (MS 1); UPON SUCC
001.001.002	1000043368	8 500,00 EUR	30/06/2026	31/12/2026	16/02/2027				4000144764		4 PROGRESS (MS 2); UPON AGEI
001.001.003	1000043368	8 500,00 EUR	30/06/2027	31/12/2027	28/02/2028				4000144764		5 PROGRESS (MS 3); UPON AGEI
001.001.004	1000043368	8 500,00 EUR	30/06/2028	31/12/2028	19/02/2029				4000144764		6 FINAL SETTLEMENT (MS 4); UP

These predictions are already available in IPCDB production at HRE and soon at STS, NAV and GSP. The predicted EED is updated daily in IPCDB.

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PT	SAP WBS	Program	GeoReturn	Project Gr.	Fund	Contract	MPP	MCP	SAP Mils	PO Ipcdb	PO	Payment	SAP MPP	CAP	Schedule	Activity				
Contract							Contract Events							Milestone Cost Plan						
No.	Con...	P..	Description	Type	Cr...	Amount	Description	SAP PO	No.	Ph...	S...	SAP Sup...	Description	SAP PO	No.	Ph...	S...	Description		
4000134046	SASB	CONTINUATION OF THE DEVELOPMENT OF THE HRE OPERATIONAL DATABASE SC	ATP 001	0.00	ATP - Foreseen option for ERSA sensors to be procured			4000134... 00	C/D	SASB	1000007...	Contract								
4000134192	SASB	EUROPEAN TRANSPORT CARRIER (ETC) REPLACEMENT	BASIC CTR	1 500 000.00	ESA Radiation Sensor Array (ERSA)			4000134... C01	C/D	SASB	1000007...	ATP for CCN 01 Sensor proc...								
4000134282	ADSG	C18500 INDUSTRIALISATION OF THE INTERNATIONAL SPACE STATION EXPLOITA	CON 001	386 084.00	Option 1 for ERSA sensors to be procured			4000134... C02	C/D	SASB	1000007...	CCN 02 - LVDM JAXA dust								
4000134304	DFVL	CORA-GBF-2020-001: USE OF GROUND-BASED FACILITIES FOR TESTING NOVEL KE	CON 002	182 833.00	Integration of the instrument LVDM (Lunar Low Velocity Dust M			4000134... C03	C/D	SASB	1000007...	CCN 03 ERSA 3D mock-up								
4000134333	SASB	FFC Cambridge Cells Procurement	CON 004	8 140.00	ERSA 3D Mock-up for PR event at IAC 22 and later use			4000134... C04	C/D	SASB	1000007...	CCN 04 Update of the tec								
4000134370	TELS	Lunar Communications and Navigation Service ? Phase A/B1. Stage 2 - Restricted Co	CON 005	257 773.00	Update of the technical baseline due to IRD revision			4000134... C05	C/D	SASB	1000007...	CCN 05 ERSA Implementat								
4000134380	SSCO	Implementation of the 2nd batch of Sounding Rocket Experiments/Missions in ESP P	CON 006	1 260 000.00	ERSA Implementation of New Requirements			4000134... C06	C/D	SASB	1000007...	CCN 06 Implementation of								
4000134393	SASB	ERSA ESA Radiation Sensor Array	CON 007	87 500.00	Re-work on structural analysis and fracture control after CLA inc			4000134... C07	C/D	SASB	1000007...	CCN 07 Freeze period and								
4000134552	STRD	S2P S1-SW-07 SPACE SAFETY TEST AND VALIDATION (COPY PO 4000133557)		1 645 651.00	Change of Schedule, Milestones and deliveries (zero cost)															

IMPROVEMENT OF THE EED UPDATE PROCESS IN THE FUTURE

Until now, the Project Controller plans the EED manually based on his current knowledge in the column "EED". Once this date is reached, a Job in Oracle is triggered every day to postpone by "+1day" or "+1 month" all these EED accordingly and depending on the Directorate requirements.

In the future, we aim to replace the Oracle job that manages the daily shift of the EEDs with another procedure that will also run daily, and for each milestone with an EED that has passed, will replace the EED date by the one predicted by the model. In other words, to copy the value of the "EED predicted" into the field "EED" for each milestones having reached the EED deadline but not achieved yet. The replanning of the EED will be then automated.

AUTOMATED COST CENTERS INTEGRATION

The Cost Centre procedure integrates all contracts associated with a Cost Centre into IPCDB. If a contract already exists, the procedure adds the corresponding commitment lines with a Cost Centre. It does not reduce the planned data. Once the commitment lines have been integrated, the standard procedure processes the integration of GRNs and invoices.

Screenshot of the SAP ERP interface showing the Contract view for contract 100152. The interface includes a top navigation bar with links like Administration, Tools, SAP, WPM, Reporting, Options, Windows, Colours, and Close and Kill all sessions. Below the navigation is a toolbar with buttons for Frame, Filter, Profile, GR, Excel, Reset, Refresh, Status, Focus, and Return desktop.

The main content area displays a grid of financial data for the contract. The grid has three columns: Commitment, Cost, and Payment. It shows four rows: Total, Planned, Actual, and Provisional. The total commitment is 1 702.338, total cost is 1 702.338, and total payment is 1 702.338.

On the right side of the interface, there are several status indicators: E (green), KE (blue), ME (orange), and WF (grey). Below these indicators is a section titled "COMM" with a table of transaction details.

The "Contract Events" section at the bottom shows a single entry for a BASIC CTR with a value of 1 702 338.18 and a description of *** DEVELOP.

Contract No.	Description	Cost Center	GL	Fund Center	SAP Sup...	V	Cmt Date	Cmt Total
4000100152	*** DEVELOPME...	HSO-GSW	6042100	SFC-HSO-GSW	000001582	1.00	06/05/2010	0.118
4000100152	*** DEVELOPME...	HSO-N0	6042100	SFC-HSO-OHT	000001582	1.00	28/06/2010	0.010
4000100152	*** DEVELOPME...	HSO-N2	6054000	SFC-HSO-N2	000001582	1.00	26/10/2010	0.015
4000100152	*** DEVELOPME...	HSO-GSW	6054000	SFC-HSO-GSW	000001582	1.00	23/02/2011	0.449
4000100152	*** DEVELOPME...	HSO-GSW	6054000	SFC-HSO-GSW	000001582	1.00	08/03/2011	0.071
4000100152	*** DEVELOPME...	HSO-N2	6054000	SFC-HSO-N2	000001582	1.00	03/05/2011	0.015
4000100152	*** DEVELOPME...	HSO-GSW	6054000	SFC-HSO-GSW	000001582	1.00	09/05/2011	0.032
4000100152	*** DEVELOPME...	HSO-GSW	6042100	SFC-HSO-GSW	000001582	1.00	06/05/2010	0.015
4000100152	*** DEVELOPME...	HSO-GSW	6042100	SFC-HSO-GSW	000001582	1.00	06/05/2010	0.096
4000100152	*** DEVELOPME...	HSO-GSW	6042100	SFC-HSO-GSW	000001582	1.00	06/05/2010	0.022
4000100152	*** DEVELOPME...	HSO-GSW	6054000	SFC-HSO-GSW	000001582	1.00	06/05/2010	0.006
4000100152	*** DEVELOPME...	HSO-GSW	6042100	SFC-HSO-GSW	000001582	1.00	06/05/2010	0.230
4000100152	*** DEVELOPME...	HSO-GSW	6042100	SFC-HSO-GSW	000001582	1.00	06/05/2010	0.007
4000100152	*** DEVELOPME...	HSO-GSW	6042100	SFC-HSO-GSW	000001582	1.00	06/05/2010	0.007
4000100152	*** DEVELOPME...	HSO-GSW	6042100	SFC-HSO-GSW	000001582	1.00	06/05/2010	0.010
4000100152	*** DEVELOPME...	HSO-N2	6042100	SFC-HSO-N2	000001582	1.00	06/05/2010	0.029
4000100152	*** DEVELOPME...	HSO-GSW	6042100	SFC-HSO-GSW	000001582	1.00	06/05/2010	0.000
4000100152	*** DEVELOPME...	HSO-GSW	6054000	SFC-HSO-GSW	000001582	1.00	23/07/2010	0.570

SCOPE OF INPUT DATA

Only data with the following characteristics are included in the scope for integration:

- Milestones must have a contract number in ESA-P SRM.
- Milestones must not already exist in IPCDB (PO / PO-Item).
- Cost Centres must be present in the SAPCC table of IPCDB.

The procedure does not delete existing data.

ADJUSTMENTS AND SPECIAL CASES

Adjustments may be required after the initial execution of the procedure on actuals (e.g., reconciling IPCDB data derived from the MPP with data from the KSB1), particularly in the following cases:

- Existing PO / Item with modified account assignment:** For example, discrepancies in Fund Centre, GL, or other details between KSB1 and ESA-P SRM.
- Incorrect commitment date:** In rare cases, milestones may have had their account assignment altered multiple times on different dates. This can result in a milestone with multiple account assignments committed on different dates. By default, the procedure uses the milestone's original commitment date.

PARENT / CHILD RELATIONSHIP OF POS

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The Parent / Child relationship of POs is not managed. If a PO has a Parent contract, it will be integrated into IPCDB as a separate contract. While this does not cause data integrity issues, it may lead to confusion when interpreting data via the IPCDB interface. Specifically, a single contract may appear under two different numbers (e.g., older contracts with the 42000 prefix are replaced by the "C" prefix in IPCDB). As a result, part of the data might be linked to a contract number in the format 42000xxxx and another part to a contract number in the format Cxxxx, despite both representing the same contract.

Desktop Intelligence - IPCDB vs ESA-P - Cost Center01.02.rep - [Administrator - @ipcdbo.estec.esa.int:6400]

Header	PO Number	PO Item	Cost Center	Fund Center	WBS	Fund	GL	ESA-P MPP	Amount IPCDB
	4000139656	32	HRE-C6	FC-HRE-MNP		N/A	6112800	68,812.00	68,812.00
	4000139656	33	HRE-C6	FC-HRE-MNP		N/A	6112800	68,812.00	68,812.00
	4000139656	34	HRE-C6	FC-HRE-MNP		N/A	6112800	68,813.00	68,813.00
	4000139656	36	HRE-C6	FC-HRE-MNP		N/A	6112800	69,140.00	69,140.00
	4000139656	37	HRE-C6	FC-HRE-MNP		N/A	6111800	69,140.00	69,140.00
	4000139656	38	HRE-C6	FC-HRE-MNP		N/A	6111800	69,140.00	69,140.00
	4000139656	39	HRE-C6	FC-HRE-MNP		N/A	6111800	69,143.00	69,143.00
	4000139656							483,000.00	483,000.00
	4000145156	20	HRE-C6	FC-HRE-MNP		N/A	6226000	1,076.00	1,076.00
	4000145156	43	HRE-C6	FC-HRE-MNP		N/A	6226000	1,925.00	1,925.00
	4000145156	44	HRE-C6	FC-HRE-MNP		N/A	6226000	10,418.00	10,418.00
	4000145156							13,419.00	13,419.00

IPCDB vs ESA-P MPP IPCDB vs KSB1

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Desktop Intelligence - IPCDB vs ESA-P - Cost Center01.02.rep - [Administrator - @ipcdbo.estec.esa.int:6400]

DocTyp	PO Number	PO Item	Cost Center	Fund Center	WBS	Fund	GL	KSB1	Amount IPCDB actuals	Amount Milestone
WE	4000139656	32	HRE-C6	FC-HRE-MNP		N/A	6112800	68,812.00	68,812.00	68,812.00
WE	4000139656	33	HRE-C6	FC-HRE-MNP		N/A	6112800	68,812.00	68,812.00	68,812.00
CA	4000139656	34	HRE-C6	FC-HRE-MNP		N/A	6112800	0.00	0.00	0.00
WE	4000139656		HRE-C6	FC-HRE-MNP		N/A	6112800	68,813.00	68,813.00	68,813.00
WE	4000139656	36	HRE-C6	FC-HRE-MNP		N/A	6112800	69,140.00	69,140.00	69,140.00
WE	4000139656	37	HRE-C6	FC-HRE-MNP		N/A	6111800	0.00	0.00	69,140.00
WE	4000139656	38	HRE-C6	FC-HRE-MNP		N/A	6111800	0.00	0.00	69,140.00
WE	4000139656	39	HRE-C6	FC-HRE-MNP		N/A	6111800	0.00	0.00	69,143.00
	4000139656							275,577.00	275,577.00	
WE	4000145156	20	HRE-C6	FC-HRE-MNP		N/A	6226000	0.00	0.00	1,076.00
WE	4000145156	43	HRE-C6	FC-HRE-MNP		N/A	6226000	0.00	0.00	1,925.00
WE	4000145156	44	HRE-C6	FC-HRE-MNP		N/A	6226000	0.00	0.00	10,418.00
	4000145156							0.00	0.00	

IPCDB vs ESA-P MPP IPCDB vs KSB1

CONTRACT SUMMARY

TO ORGANISATION UNIT

In the contract summary, this field, previously called "Division code", was renamed as "TO Org. Unit" and is populated from the Datalake whenever it is empty. It is the equivalent of the Initiating Service populated within the SAP PO.

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Contract Summary

CTR No	4000136223	Description	COMMUNICATION SERVICES TO D/HRE																																																																																																				
SC No	1500059853	Shopping cart data has been retrieved from the Datalake																																																																																																					
Progr. Ref.		Activity Area																																																																																																					
		WorkPlan Ref.																																																																																																					
Life Cycle																																																																																																							
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Display Purchase Order: 4000136223

Edit | Print | Refresh | Check | Close | Copy | APP List | Check Structure | NRP

Number 4000136223	Smart Number Communication Services to D/HRE	Type Contract	Status	Orders															
<table border="1"> <tr> <td>Header</td> <td>Items</td> <td>Notes and Attachments</td> <td>Approval</td> <td>Tracking</td> </tr> <tr> <td>General Data</td> <td>Notes and Attachment</td> <td>Output</td> <td>Budget</td> <td>Document Totals</td> </tr> <tr> <td colspan="5">Extended PO History</td> </tr> </table>					Header	Items	Notes and Attachments	Approval	Tracking	General Data	Notes and Attachment	Output	Budget	Document Totals	Extended PO History				
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<p>▼ Basic</p> <p>Identification</p> <p>Purchase Order Number: 4000136223</p> <p>Purchase Order Name: Communication Services to D/HRE</p> <p>Corresponding Novation Purchase Order:</p> <p>Purchase Order Type: Contract</p> <p>Partner Grouping Schema ID:</p> <p>Organization</p> <p>Purchasing Organization: Director General</p> <p>Contract Start Date:</p> <p>Contract End Date:</p> <p>Signed by Contractor on:</p> <p>Signed by ESA on:</p> <p><input type="checkbox"/> PATT Indicator</p> <p><input type="checkbox"/> Unsolicited Proposal</p> <p>Contract Officer/Purchase Officer: * NBOISARD Boisard, Nathalie</p> <p>Technical Officer: * FLEGALL Le Gall, Frederic</p> <p>Initiating Service: * DG-CP Production & Management Support Division</p> <p>Contract Establishment: * ESRIN</p> <p>Finance Establishment: * ESRIN Update Finance Establishment</p> <p>Place of Invoicing: * ESRIN Update Place of Invoicing</p> <p>Procurement and Industrial Policy Information</p> <p>Industrial Policy Status:</p>																			

PROGRAMME REFERENCE

In the Contract Summary, The field "Progr. Refer." can be filled-in manually, but if empty, its population is now automated from the Datalake. At HRE, this reference is extracted from IPC document and inserted at the SC level in SAP (Workplan Activity Reference).

IPCDB CONTRACT DATA [LMOLINA] [Administrator]

Contract Summary

CTR No	4000137644	Description	Laboratory Services																
SC No	1000032462	Shopping cart data has been retrieved from the Datalake																	
Progr. Refer.	E2C3-016	Activity Area	CS3: Lunar Robotic Exploration																
		WorkPlan Ref.	Activity 5: Space Resources																
Life Cycle <table border="1"> <tr><td>Negotiation</td><td>66 days</td></tr> <tr><td>Hierarchy Approval</td><td>39 days</td></tr> <tr><td>TEB Report Finalisation</td><td>21 days</td></tr> <tr><td>Proposal Preparation</td><td>42 days</td></tr> <tr><td>PA Implementation</td><td>75 days</td></tr> <tr><td>PA Initiation</td><td>8 days</td></tr> <tr><td>PA Preparation</td><td>4 days</td></tr> <tr><td>ESA-P Procurement</td><td></td></tr> </table>				Negotiation	66 days	Hierarchy Approval	39 days	TEB Report Finalisation	21 days	Proposal Preparation	42 days	PA Implementation	75 days	PA Initiation	8 days	PA Preparation	4 days	ESA-P Procurement	
Negotiation	66 days																		
Hierarchy Approval	39 days																		
TEB Report Finalisation	21 days																		
Proposal Preparation	42 days																		
PA Implementation	75 days																		
PA Initiation	8 days																		
PA Preparation	4 days																		
ESA-P Procurement																			
Datalake	30/09/2024	PC/Plan. date																	
Kick Off Date																			
Sign. Contractor Date	✓ 23/03/2022																		
Sign. ESA Date	✓ 22/03/2022																		
PO Approval Date	✓ 21/03/2022	IPCDB Planned																	
PO Creation Date	✓ 17/03/2022																		
Negotiation Date																			
RBR Date	✓ 14/01/2022	IPCDB Status	ITC Closed																
TEB Rep. Approv. Date	✓ 06/12/2021		3000028204																
TEB Date	✓ 01/12/2021																		
TOB Date	✓ 15/11/2021																		
ITT / RFQ Closing Date	✓ 15/11/2021																		
ITT / RFQ Start Date	✓ 04/10/2021																		
RFX Date	✓ 23/09/2021		2000021283																
Pre TEB Date	✓ 23/08/2021																		
TEB Nom. Approv. Date	✓ 21/07/2021	TEB Nomination																	
SC Final Approv. Date	✓ 13/07/2021	SOW Approved																	
SC Start Approv. Date	✓ 09/07/2021																		
SC Creation Date	✓ 09/07/2021																		
IPC Date	✓ 29/04/2021		ESA/IPC(2021)34,ADD.1.REV.2																
AC Date	✓ 30/03/2021		ESTEC/AC/521-17																
Procurement Proposal		TO Dates																	

Display Shopping Cart: 1000032462

Number: 1000032462 Name: ISRU Ground Based Research – Laboratory Status: Approved Created On: 09.07.2021 14:27:37 Created By: Roman, Julien

General Data

Buy on Behalf of: 87354 | Roman, Julien
Title: ISRU GROUND BASED RESEARCH – LABORATORY SUPPORT

Name of shopping cart: ISRU Ground Based Research – Laboratory
Procurement Action classification: Space Procurement
Shopping Cart Type:
Parent Shopping Cart:

Header Data: Values
Approval Process: Display / Edit Agents
Budget: Display
Document Changes: Display
General Procurement: No
Stage:

Related Shopping Cart

Technological and Programmatic Information

Current TRL (Technology Readiness Level):
Workplan Activity Reference: E2C3-016
SRL (Software Readiness Level):
Target TRL (Technology Readiness Level):
Technological Harmonization Roadmap Reference:

ADVANCE PAYMENTS

PROCEDURE FOR ADVANCE PAYMENTS IN THE PAST

For reporting purpose, a procedure for Advance payments in the past has been launched for IPCDB in Navigation.

This procedure enters the advance payments retroactively. It breaks down the existing invoices, replacing them with the related advance payment and the main invoice is reduced subsequently by the advance payment amount.

Since approximately 100% of invoices with an advance are broken down, currently 95% of the advance payments and 80% of the reduced invoices are entered automatically by this procedure, meaning some manual work is still required to manage the remaining cases.

This option is now available for HRE and STS.

ADV COLUMN IN MPP TAB OF THE COMMITMENT PROFILE

The column Adv, containing the tick box to flag the Advance payments, is also available in the MPP view of the Commitment profile (Milestones Tab).

Commitment Profile													
		Contract N°		4000138579									
Commitment Data		Milestones		Geo Return									
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Evt Ctr	Mpp	PO	PO Item	N° 	Amount	Amount Ass.	Contract. Date	EED	Prov	Description	
6000537563 BASIC CTR 001.001 4000138579 3 001.001.001 60 000,00 60 000,00 15/09/2022 22/11/2022 <input checked="" type="checkbox"/> PROGRESS (MS 1); UPON SUCCESSFUL COMPLETION OF REQUIREMENTS REVIEW AND ACCEPTANCE OF ALL RELATED DELIVERABLES. 6000573554 BASIC CTR 001.001 4000138579 4 001.001.002 180 000,00 180 000,00 15/01/2023 18/10/2023 <input checked="" type="checkbox"/> PROGRESS (MS 2); UPON SUCCESSFUL COMPLETION OF CRITICAL DESIGN REVIEW (CDR) AND ACCEPTANCE OF ALL RELATED DELIVERABLES. 6000592256 BASIC CTR 001.001 4000138579 5 001.001.003 215 000,00 215 000,00 15/07/2023 13/03/2024 <input checked="" type="checkbox"/> PROGRESS (MS 3); UPON SUCCESSFUL COMPLETION OF TEST READINESS REVIEW (TRR) AND ACCEPTANCE OF ALL RELATED DELIVERABLES. BASIC CTR 001.001 4000138579 6 001.001.004 85 000,00 85 000,00 15/04/2024 15/01/2025 <input checked="" type="checkbox"/> PROGRESS (MS 4); UPON SUCCESSFUL COMPLETION OF ACCEPTANCE REVIEW (AR) AND ACCEPTANCE OF ALL RELATED DELIVERABLES. BASIC CTR 001.001 4000138579 7 001.001.005 59 800,00 59 800,00 15/07/2024 15/01/2025 <input checked="" type="checkbox"/> FINAL SETTLEMENT MS5 UPON THE AGENCY ACCEPTANCE OF ALL DELIVERABLE ITEMS DUE UNDER THE CONTRACT AND THE CONTRACTOR FULFILMENT OF ALL OTHER OBLIGATIONS.													

Payment Profile (MPP)																	
		Evt Ctr		Mpp		PO		PO Item		N° 		Amount	Amount Ass.	Adv	Contract. Date	F. Date	Description
ADVPAY138579 BASIC CTR 001.001 4000138579 3 001.001.001 24 500,00 24 500,00 <input checked="" type="checkbox"/> 15/09/2022 15/11/2022 PROGRESS (MS 1); UPON SUCCESSFUL COMPLETION OF REQUIREMENTS REVIEW AND ACCEPTANCE OF ALL RELATED DELIVERABLES. 7000537563 BASIC CTR 001.001 4000138579 3 001.001.001 35 500,00 35 500,00 <input checked="" type="checkbox"/> 15/09/2022 29/11/2022 PROGRESS (MS 1); UPON SUCCESSFUL COMPLETION OF REQUIREMENTS REVIEW AND ACCEPTANCE OF ALL RELATED DELIVERABLES. 7000602424 BASIC CTR 001.001 4000138579 4 001.001.002 180 000,00 180 000,00 <input checked="" type="checkbox"/> 15/01/2023 09/11/2023 PROGRESS (MS 2); UPON SUCCESSFUL COMPLETION OF CRITICAL DESIGN REVIEW (CDR) AND ACCEPTANCE OF ALL RELATED DELIVERABLES. 7000619739 BASIC CTR 001.001 4000138579 5 001.001.003 215 000,00 215 000,00 <input checked="" type="checkbox"/> 15/07/2023 19/03/2024 PROGRESS (MS 3); UPON SUCCESSFUL COMPLETION OF TEST READINESS REVIEW (TRR) AND ACCEPTANCE OF ALL RELATED DELIVERABLES. BASIC CTR 001.001 4000138579 6 001.001.004 85 000,00 85 000,00 <input checked="" type="checkbox"/> 15/04/2024 24/06/2024 PROGRESS (MS 4); UPON SUCCESSFUL COMPLETION OF ACCEPTANCE REVIEW (AR) AND ACCEPTANCE OF ALL RELATED DELIVERABLES. BASIC CTR 001.001 4000138579 7 001.001.005 59 800,00 59 800,00 <input checked="" type="checkbox"/> 15/07/2024 15/09/2024 FINAL SETTLEMENT MS5 UPON THE AGENCY ACCEPTANCE OF ALL DELIVERABLE ITEMS DUE UNDER THE CONTRACT AND THE CONTRACTOR FULFILMENT OF ALL OTHER OBLIGATIONS.																	

Estimated Data from Payment Profile (MPP) Chart:

Event Ctr	Amount
001.001	599,800
001.001	60,000
001.001	180,000
001.001	215,000
001.001	85,000
001.001	59,800
001.001	144,800

FUND TAB

COMMITMENT CEILING

Project Gr.	Fund	Contract	MPP	MCP	SAP Mils	PO	Payment	SAP MPP	CAP	Sch
				Commitment		Cost		Payment		
				Total	14 588.138	14 588.138	14 588.138	14 588.138	€	
				Planned	8 876.977	9 882.238	9 575.508	9 575.508	KE	
				Actual	5 711.162	4 705.900	5 012.631	5 012.631	ME	
				Provisional		0.000			WF	
Commitment Ceiling										
13 985.436										
Available Commitment										
- 602.702										
Available Planning										
8 274.274										

The previous calculation of the commitment ceiling (or Consumable) was the sum of "_Consumed" + "_Available Commitment Ceiling". It is now replaced by a new formula: ("_Management Blocking" + "_Reserved Commitment Ceiling" + "_Consumed" + "_Available Commitment Ceiling").

It is noted, that the previous field "Total available" is remained as "Available Commitment" and the calculation remains the same (Commitment Ceiling - IPCDB Commitment Total). As well as, the field "Actual Only" became "Available planning" and the calculation remains (Commitment Ceiling - IPCDB Commitment Actual).

Commitment Ceiling		Commitment
16 530.662		16 506.897
Available Commitment	Total	1 978.943
23.765	Planned	
Available Planning	Commitment Ceiling - IPCDB Commitment Total	4 527.954
2 002.708	Provisional	

SEARCH OPTION

In Fund tab, to search quickly for some numbers, it is possible to add "%" to the query in the search field. For example: contains %16% or starting with %16 or ending with 16%

What's New V8.0 Release, November 2024



Two screenshots of SAP MPP interface showing the FUND tab.

Screenshot 1: Shows a list of projects under the FUND tab. The first item is highlighted: Artes 11 SubElem III.

CODE	DESCRIPTION
100416	Artes 11 SubElem III
1100016	Space Safety Programme Period 2 COSMIC
1100116	SSA Period 3 (2017-2020)
1100160	ELIPS-4 Additional Subscriptions
1100161	European MicroG Research Prog 2
1100162	European MicroG Research Prog 2 (Ext)
1100165	CLOSED:MFC
1100416	Small Geo S.E .3
1100816	EGNOS Development
1101416	Moonlight
E/0016-01	EOEP-2 Preparatory Activities
E/0116-01T	LSE
E/0116-02M	ExPeRT E3P2
E/0116-03M	ExPeRT E3P3
E/0116-04M	ExPeRT E3P Per. 4
E/0116-05M	ExPeRT E3P Per. 5
E/0116-11M	ExPeRT Mars Future Missions Preparations
E/0116-21M	ExPeRT Deep Space Habitat Technologies
E/0116-31M	ExPeRT MELISSA
E/0116-41M	ExPeRT LEO & Moon Exploration
E/0116-51M	ExPeRT SpaceShip & Radiation Research
E/0134-016	ERA
E/0160-01	Drop Tower ELIPS3
E/0160-01A	Drop Tower ELIPS
E/0160-01B	Drop Tower ELIPS2
E/0160-01D	Drop Tower ELIPS4
E/0160-01F	Drop Tower EMIR2
E/0160-01G	Drop Tower EMIR2 Extension
E/0160-01K	ELIPS-4 Additional Subscriptions
E/0160-01M	Drop Tower P1 Variable Costs

Screenshot 2: Shows a list of projects under the FUND tab. The first item is highlighted: Artes 11 SubElem III.

CODE	DESCRIPTION
100416	Artes 11 SubElem III
1100016	Space Safety Programme Period 2 COSMIC
1100116	SSA Period 3 (2017-2020)
1100416	Small Geo S.E .3
1100816	EGNOS Development
1101416	Moonlight
E/0134-016	ERA
E/0228-016	Ariane 5 ARTA 1996
E/0350-Y16	H2020 - ToF for Work Plan 2016
E/0419-16	Cooperative Activities - Proba 3
E/0718-16	S2P P2 COSMIC - DRACO
E/0908-16	AM Latvia RPA

SAP MPP

In SAP MPP Tab, to ease the user to insert commitments/milestones in IPCDB at the proper contract event level, the reference of the Contracts Events Type is fully displayed. This request was especially made regarding ATP integration.

What's New V8.0 Release, November 2024



PT | SAP WBS | Program | GeoReturn | Project Gr. | Fund | Contract | MPP | MCP | SAP Mils | PO | Payment | SAP MPP | CAP

4000132040

Contract

Contract No.		Description	Contract Desc.	Project Group	SAP WBS	Cmt Description
4000132040	MATT	MARS SAMPLE RETURN - EARTH RETURN ORBITER	4000132040	MSR - ERO	E/0193-01-D-DA	
			4000132040	MSR - ERO	E/0193-01-D-DD	
			4000132040	MSR - ERO	E/0193-01-D-DC	
			4000132040	MSR - ERO	E/0193-01-D-DB	

Total **Commitment** **Cost** **Payment**

Total	31 177.638	31 177.638	31 177.638
Planned	0.000	8 100.000	4 100.000
Actual	31 177.638	23 077.638	27 077.638
Provisional		0.000	

Contract Events

Type	Ctr Amount	Description
ATP 001	31 177 638.00	Partial Authorisation to Proceed ("ATP") with Phase C/D
ATP 002	714 662.00	Partial Authorisation to Proceed (?ATP?) with Slice Two
ATP 003	21 036 396.00	Update of Milestone Payment Plans and Advance Payment
ATP 004	18 988 139.00	Partial Authorisation to Proceed (?ATP?) with Phase C/D
ATP 005	2 600 000.00	Fifth Partial Authorisation to Proceed (?ATP?) with Phase C/D
ATP 006	11 400 000.00	Sixth Partial Authorisation to Proceed (?ATP?) with Phase C/D
ATP 232	450 000.00	Continuation of the feasibility investigation of OS Grab Re
BASIC CTR	0.00	MARS SAMPLE RETURN - EARTH RETURN ORBITER - PH
CCN 009	1 782 669.00	Implementation of the SDT instrument to ERO
CCN 044	49 565.00	Performance of 10 TVAC cycles on PFM and FM yoke str
CCN 045	3 396 010.00	TVAC testing of P(FM) panels
CCN 046	250 000.00	Inclusion of Ariane Group GmbH (AGG)
CCN 050	1 109 638.00	Change of MSR-ERO baseline interconnector technology
CCN 066	2 064 773.00	Subcontractors CCNs ? Class B Management Reserve use

WP

PT	WBS	Description	Project Controller	Tec... Officer
MF3E1A	TBD Z 01	ERO	No Operator	No Operator

What's New V8.0 Release, November 2024



Three screenshots of SAP interface showing the new features:

- Contracts > Contract Events > Milestone Plan:** A blue arrow points from the Contracts screen to the Contract Events screen, which then points to the Milestone Plan screen. The Milestone Plan screen shows a list of milestones with columns: No., Phase, Supplier, SAP Supplier, Cur., Description.
- Associated Cmtl (€) > SAP Account Assignment > IP/CD Budgetary Key > Program/PT/WBS/WP:** A blue arrow points from the Associated Cmtl screen to the SAP Account Assignment screen, then to the IP/CD Budgetary Key screen, and finally to the Program/PT/WBS/WP screen.
- Force Ctr Context > Personal Filter > PO > Milestones > Amounts (€) > SAP Account Assignment > IP/CD PT/WBS > IP/CD Budgetary Key > Description:** A blue arrow points from the Force Ctr Context screen to the Personal Filter screen, then to the PO screen, then to the Milestones screen, then to the Amounts (€) screen, then to the SAP Account Assignment screen, then to the IP/CD PT/WBS screen, then to the IP/CD Budgetary Key screen, and finally to the Description screen.

OTHERS

ACTORS ADDED AT WP LEVEL

As requested for reporting purpose at WP level, the Project Controller and the Technical Officer are now displayed in the WP section.

Screenshot of the SAP interface showing the WP section with actors added:

WP				
PT	WBS	Description	Project Controller	Technical Officer
MF1B3E	SCAP Z 11	Ground Based Research	Baars,Rudi	Van Ombergen, Angelique

What's New V8.0 Release, November 2024



Contract

Cont... No.	Description	SA P F
4000121255	PSSZ ROVER SPEED CHARACTERIZATION FOR LUNAR EXPLORATION (RACER)	100
4000121307	HWWP ANGULAR RATE SENSOR	100
4000121550	BAES MREP2: MSR Architecture Assessment Study	100
4000121561	HHTP: HHT Testing of Chinese Samples	100
4000121575	UNPI SIMULATION TOOL FOR RENDEZVOUS AND DOCKING IN HIGH ELLIPTICAL ORBITS WITH 3RD BODY ...	100
4000121940	CHBB SPACE QUEST -phase A/B	100
4000122060	GMW GOFP9 OPS-C GMV S.A. - DOMAIN DS - SCIENCE MISSION DATA SYSTEMS (OPS-GDS/AE) - EXOMARS ...	100
4000122102	S974 CORA-GBF-2017-001: CERIUM OXIDE NANOPARTICLES AS COUNTERMEASURE AGAINST REACTIVE ...	100
4000122133	UNBQ MELISSA PILOT PLANT FRAME CONTRACT	100
4000122146	UESC TOPICAL TEAM - SAFE COSMOS: SPACECRAFT PERFORMANCE ANALYSIS FOR EXTREME EVENTS BY ...	100
4000122210	UNAR TOPICAL TEAM: Foam and Emulsions	100
4000122233	VTCB EFC2 SERVICE-HIRE-VITROCISSET	100
4000122240	DFVL NP1532 CO-SPONSORED PHD ON PHYSICAL PROPERTIES OF POWDER-BASED 3DPRINTING IN SPAC...	100
4000122341	CPEM NPI 533 - A SYMBIOTIC HUMAN AND MULTI-ROBOT PLANETARY EXPLORATION SYSTEM	100
4000122355	PRWF Study to assess the future potential market and value-chain of space resources utilisation	100
4000122513	KAYI BioMission 2017	100

Contract Events

Type	Ctr Amount	Description
BASIC CTR	45 000,00	CORA GBF, EXPERIMENT : CERIUM OXIDE NANOPARTICLES AS COUNTERMEASURE AGAINST REACTIVE...

WP

PT	WBS	Description	Project Controller	Technical Officer
MP1B/E	SCAP Z 11	Ground Based Research	Baars,Rudi	Van Ombergen, Angelique

IPCDB WP DATA [LMOLINA] [Administrator]

Work Package Data

Description: Ground Based Research

Project Controller : Baars,Rudi Technical Responsible : Van Ombergen, Angelique

ORGANISATIONAL UNIT AT WBS LEVEL

New field "Organisational Unit" added to the WBS screen, for reporting purpose in HRE.

Administration Tools SAP WPM Reporting Options Windows Colours ? Close and Kill all sessions

IPCDB ADD SAP

SAP Tree Informations
E/0105

SAP Parent : E/

Project Manager: De Winne,Frank WBS Direct. Responsible: HRE
 Project Leader: Sheasby,Thomas Organisational Unit: HRE-OP
 Project Controller: Renex,Jerome Partner Cost Center: HRE-C7
 Project Operator: Guillerm,Anais Asset:
 Start Date: End Date:
 WBS Description: Columbus Ops 2011 and onwards

Cost Ce... Title Responsible

HRE-C4	Terrae Novae Progra... D	FDEWINNE
HRE-C3	Communication D	DSCHMITT
HRE-C2	Future Preparation D	DSCHMITT
HRE-C15	HRE-H (EAC, EHO,Tr... D	FDEWINNE
HRE-C14	Mars & beyond Proje... D	OSUTHERL
HRE-C13	Facilities D	BHUFENBA
HRE-C12	Contractors I	MBRUDER

What's New V8.0 Release, November 2024



SAP WBS | Program | GeoReturn | Project Gr. | Fund | Contract | MPP | MCP | SAP Mills

All Children Node + Desc

- E/ [Root]
 - + E/0100 [Columbus module and ground segment dev.]
 - + E/0101 [ISS Infrastructure Sustainability]
 - + E/0102 [Columbus Operations Engineering Support]
 - + E/0103 [ISS Exploitation Programme Management]
 - + E/0104 [Columbus Operation up to end 2010]
 - + E/0105 [Columbus Ops 2011 and onwards]
 - + E/0106 [ISS Expl. Prog. Integr. up to 31/12/2009]
 - + E/0107 [ISS Infrastructure NASA reimbursable Srv]
 - + E/0108 [ISS Barter/Freezers/LSE]
 - + E/0109 [MPCV ESM-1]
 - + E/0110 [DMS-R]
 - + E/0111 [MPCV ESM-2]
 - + E/0112 [USOCs]
 - + E/0113 [MPCV ESM-3]
 - + E/0114 [Payload integration and oper. support]
 - + E/0115 [Technology Demonstrators for ISS]
 - E/0116 [ExPeRT]
 - E/0116-02 [ExPeRT Period 2]
 - + E/0116-02-A [A Project management technical support]
 - + E/0116-02-B [B Preparatory activities & studies]
 - + E/0116-02-J [J Common Infrastructure]
 - E/0116-02-K [K Technology]
 - E/0116-02-KA [Spaceship EAC & related activities]
 - E/0116-02-KB [Spaceship ECSAT & related activities]
 - E/0116-02-KC [Core Technologies]
 - E/0116-02-KD [Melissa technologies]
 - E/0116-02-KE [Other technologies]
 - E/0116-03 [ExPeRT Period 3]
 - E/0116-04 [ExPeRT Period 4]
 - E/0116-05 [ExPeRT Period 5]
 - + E/0116-11 [ExPeRT: MarsX]
 - + E/0116-21 [ExPeRT: Deep space habitat Technologies]
 - + E/0116-31 [ExPeRT: MELISSA]
 - + E/0116-41 [ExPeRT: LEO & Moon Exploration]
 - + E/0116-51 [ExPeRT: Spaceship & Radiation Research]
- E/0117 [CRV]
- + E/0118 [Nodes]
- + E/0119 [MPCV ESM-4]
- + E/0120 [European Soyuz Missions and LDM]
- + E/0121 [LEO Cargo Return Service]

Commitment

Total	11 621.984
Planned	128.500
Actual	11 493.484
Provisional	0.000

Cost

Total	11 621.984
Planned	5 006.579
Actual	6 615.405
Provisional	0.000

IPCDB ADD SAP

SAP Tree Informations
E/0116-02-K-KE

SAP Parent : E/0116-02-K

Project Manager: Magistrati,Giorgio WBS Direct. Responsible: HRE

Project Leader: Magistrati,Giorgio Organisational Unit: XXXXXXXX

Project Controller: Andre,Stefan Partner Cost Center: HRE-C8

Project Operator: Buzon,Tom Asset:

Start Date: 21/05/2020 End Date: 21/05/2022

WBS Description: Other technologies

Table showing WBS items:

WBS ID	WBS Level	WBS Description	Responsible	Start Date	End Date
4000139797	EXPERT E2CX-04...	ExPeRT	E/0116-02-K-KE	E/0116-02M	11005
4000139798	EXPERT E2CX-04...	ExPeRT	E/0116-02-K-KE	E/0116-02M	11005
4000139891	E2CX-035 - POST...	ExPeRT	E/0116-02-K-KE	E/0116-02M	11005
4000139892	EXPERT E2CX-04...	ExPeRT	E/0116-02-K-KE	E/0116-02M	11005

RENAMING "SAP" TAB TO "SAP WBS"

What's New V8.0 Release, November 2024

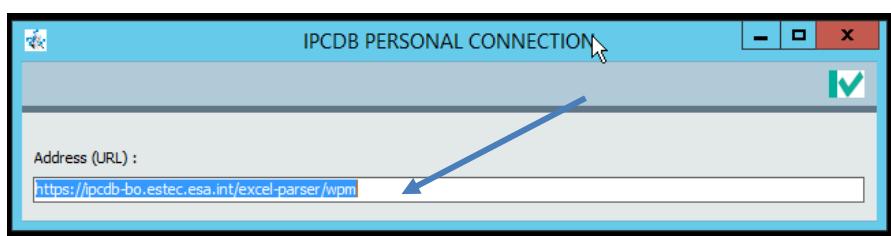
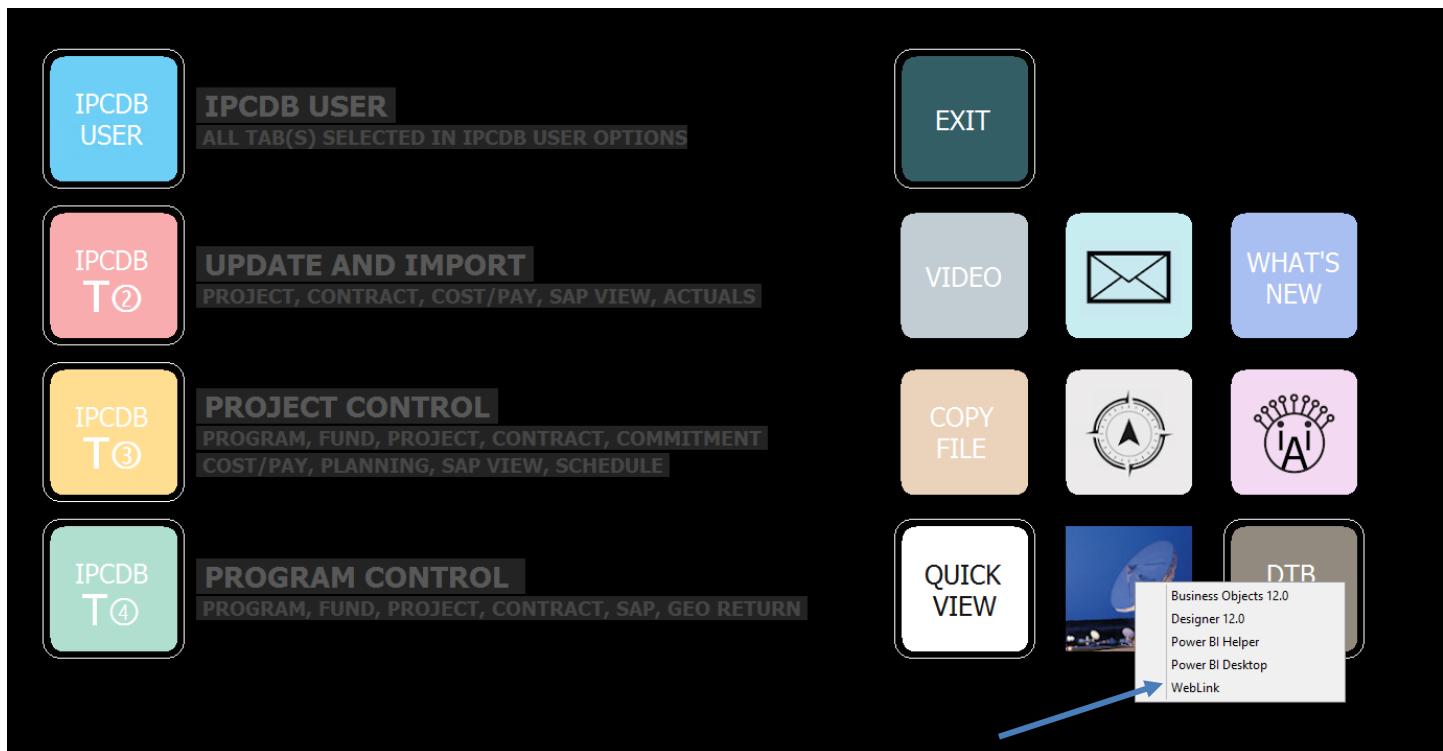


SAP WBS

Con... No.	Contract Desc	Project Group	SAP WBS	Fund	Parent Fund	GL	SAP Sup...	Cnt Date	Cnt Total	Cnt Actual	Cnt Planned	Pay Total	Pay Actual	Pay Planned	Cost Total
4000106921	DEVELOPMENT O...	E/0140-01-10	E/0140-01-1000156	6171000	1000001246	VALL	...	29/03/2010	60 000.00	60 000.00	0.00	60 000.00	60 000.00	0.00	60 000
4000106922	DEVELOPMENT O...	E/0140-01-10	E/0140-01-1000157	6171000	1000001258	HMB	...	15/07/2015	59 990.00	59 990.00	0.00	59 990.00	59 990.00	0.00	59 990
4000114190	INNOVATIVE VIC...	E/0140-01-10	E/0140-01-1000157	6171000	1000000950	UNNA	...	18/05/2015	0.00	0.00	0.00	0.00	0.00	0.00	0
4000114221	GRAVITY DEPEND...	E/0140-01-10	E/0140-01-1000157	6171000	1000002336	TCD	...	20/05/2015	190 000.00	190 000.00	0.00	190 000.00	190 000.00	0.00	190 000
4000115151	SOFT MATTER DY...	E/0140-01-10	E/0140-01-1000157	6171000	1000005458	NRCI	...	08/10/2015	50 000.00	50 000.00	0.00	50 000.00	50 000.00	0.00	50 000
4000115153	SOFT MATTER DY...	E/0140-01-10	E/0140-01-1000157	6171000	1000003988	LPS	...	08/10/2015	140 000.00	0.00	140 000.00	140 000.00	0.00	140 000	
4000115155	INNOVATIVE VIC...	E/0140-01-10	E/0140-01-1000157	6171000	10000016183	PRM	...	23/09/2015	5 000.00	5 000.00	0.00	5 000.00	5 000.00	0.00	5 000
4000115156	INNOVATIVE VIC...	E/0140-01-10	E/0140-01-1000157	6171000	1000000406	POM	...	23/09/2015	10 000.00	0.00	10 000.00	10 000.00	0.00	10 000	
4000115157	INNOVATIVE VIC...	E/0140-01-10	E/0140-01-1000157	6171000	1000000381	ENR	...	23/09/2015	5 000.00	5 000.00	0.00	5 000.00	5 000.00	0.00	5 000
4000115158	INNOVATIVE VIC...	E/0140-01-10	E/0140-01-1000157	6171000	1000000388	UNFD	...	23/09/2015	55 000.00	55 000.00	0.00	55 000.00	55 000.00	0.00	55 000
4000115159	INNOVATIVE VIC...	E/0140-01-10	E/0140-01-1000157	6171000	10000013654	UNBG	...	23/09/2015	12 360.00	12 360.00	0.00	12 360.00	12 360.00	0.00	12 360
4000115160	INNOVATIVE VIC...	E/0140-01-10	E/0140-01-1000157	6171000	1000000701	ULBM	...	23/09/2015	17 000.00	0.00	17 000.00	17 000.00	0.00	17 000	
4000115161	INNOVATIVE VIC...	E/0140-01-10	E/0140-01-1000157	6171000	10000016189	UOBT	...	23/09/2015	20 000.00	0.00	20 000.00	20 000.00	0.00	20 000	
4000115162	INNOVATIVE VIC...	E/0140-01-10	E/0140-01-1000157	6171000	1000000985	UNPI	...	23/09/2015	44 890.00	0.00	44 890.00	44 890.00	0.00	44 890	
4000115163	DIFFUSION AND...	E/0140-01-10	E/0140-01-1000157	6171000	1000000982	UPAU	...	20/11/2015	77 000.00	0.00	77 000.00	77 000.00	0.00	77 000	
4000115164	DIFFUSION AND...	E/0140-01-10	E/0140-01-1000157	6171000	1000000982	UPAU	...	20/11/2015	23 000.00	0.00	23 000.00	23 000.00	0.00	23 000	
4000134282	C18500 INDUSTRI... Utilisation General...	E/0140-01-10	E/0140-01-1000587	6042000	100002770	ADSG	...	07/05/2021	14 065.00	14 065.00	0.00	14 065.00	14 065.00	0.00	14 065
C14232	ERISTO-OSTEOP...	E/0140-01-10	E/0140-01-1001556	6171000	1000003642	LBTO	...	16/11/2011	50 000.00	50 000.00	0.00	50 000.00	50 000.00	0.00	50 000
C14233	ERISTO-OSTEOP...	E/0140-01-10	E/0140-01-1001556	6171000	1000000586	UBSR	...	16/11/2011	52 840.00	52 840.00	0.00	52 840.00	52 840.00	0.00	52 840
C1424000	CRYSTALLISATIO...	E/0140-01-10	E/0140-01-1001556	6171000	10000012319	545	...	14/02/2012	46 000.00	0.00	46 000.00	46 000.00	0.00	46 000	
C1424000	CRYSTALLISATIO...	E/0140-01-10	E/0140-01-1001556	6171000	1000000548	NRCI	...	14/02/2012	40 500.00	0.00	40 500.00	40 500.00	0.00	40 500	
C1424000	CRYSTALLISATIO...	E/0140-01-10	E/0140-01-1001556	6171000	1000001913	FMFK	...	14/02/2012	212 800.00	212 800.00	0.00	212 800.00	212 800.00	0.00	212 800
C14291	FUNDAMENTAL A...	E/0140-01-10	E/0140-01-1001556	6171000	1000000769	UNAR	...	08/09/2010	0.00	0.00	0.00	0.00	0.00	0.00	0
C14291	FUNDAMENTAL A...	E/0140-01-10	E/0140-01-1001556	6171000	10000001175	UTEC	...	08/09/2010	45 000.00	45 000.00	0.00	45 000.00	45 000.00	0.00	45 000
C14291	FUNDAMENTAL A...	E/0140-01-10	E/0140-01-1001556	6171000	1000000724	UMAR	...	08/09/2010	24 000.00	24 000.00	0.00	24 000.00	24 000.00	0.00	24 000
C14293	CONVECTION AN...	E/0140-01-10	E/0140-01-100157	6171000	1000008162	THOH	...	18/02/2010	16 666.00	16 666.00	0.00	16 666.00	16 666.00	0.00	16 666
C14294	CONVECTION AN...	E/0140-01-10	E/0140-01-100157	6171000	1000000967	LOUT	...	18/02/2010	16 666.00	16 666.00	0.00	16 666.00	16 666.00	0.00	16 666
C14295	CONVECTION AN...	E/0140-01-10	E/0140-01-100157	6171000	1000000701	ULBM	...	18/02/2010	16 666.00	16 666.00	0.00	16 666.00	16 666.00	0.00	16 666
C14306	HIGH PRECISION ...	E/0140-01-10	E/0140-01-100157	6171000	1000000338	EMPG	...	06/08/2015	150 000.00	150 000.00	0.00	150 000.00	150 000.00	0.00	150 000
C14306	HIGH PRECISION ...	E/0140-01-10	E/0140-01-100157	6171000	1000000297	UVCK	...	06/08/2015	92 260.00	0.00	92 260.00	92 260.00	0.00	92 260	
C14306	HIGH PRECISION ...	E/0140-01-10	E/0140-01-100157	6171000	1000000965	UNQA	...	06/08/2015	103 000.00	103 000.00	0.00	103 000.00	103 000.00	0.00	103 000
C14312	COLUMNAR-EQUI...	E/0140-01-10	E/0140-01-100157	6171000	1000000724	UMAR	...	16/04/2015	10 000.00	10 000.00	0.00	10 000.00	10 000.00	0.00	10 000
C14313	COLUMNAR-EQUI...	E/0140-01-10	E/0140-01-100157	6171000	1000002599	ACES	...	16/04/2015	10 000.00	10 000.00	0.00	10 000.00	10 000.00	0.00	10 000
C14313	COLUMNAR-EQUI...	E/0140-01-10	E/0140-01-100157	6171000	1000003597	ARM	...	16/04/2015	130 000.00	0.00	130 000.00	130 000.00	0.00	130 000	
C143700	MICROSTRUCTU...	E/0140-01-10	E/0140-01-100157	6171000	1000000778	UNBI	...	29/06/2015	20 000.00	0.00	20 000.00	20 000.00	0.00	20 000	
C143700	MICROSTRUCTU...	E/0140-01-10	E/0140-01-100157	6171000	10000000491	DLGA	...	29/06/2015	10 000.00	0.00	10 000.00	10 000.00	0.00	10 000	
C14914	HYDRODYNAMIC...	E/0140-01-10	E/0140-01-100156	6041000	1000000388	LPS	...	10/08/2010	30 000.00	30 000.00	0.00	30 000.00	30 000.00	0.00	30 000
C15005	UNDERCOOLING ...	E/0140-01-10	E/0140-01-100156	6171000	1000006331	DFVL	...	19/05/2010	15 004.00	15 004.00	0.00	15 004.00	15 004.00	0.00	15 004

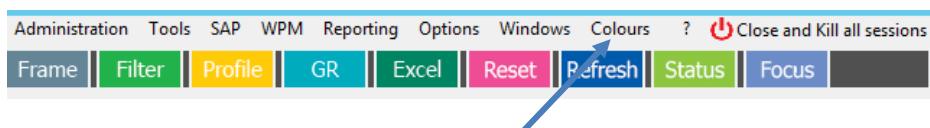
WEBLINK IN DESKTOP

From the desktop, from the IPCDB Report icon a Weblink is available. This link can be used for BO WebI, or users can publish their own URL of interest.



COLOUR PALETTE: BLACK STYLE

In the top menu Colours, the black style has been added to the colour palette choices.



What's New V8.0 Release, November 2024



IPDB COLOURS

Right click to change the colour and validate

Init Settings Reset Changes Colour Palettes BlackStyle

Title bar background 1 colour
Title bar background 2 colour
Title bar background 3 colour
Primary background colour
Secondary background colour
Tertiary background colour
Title panel colour
Mouse over colour
Table header background colour
Table header font colour
Secondary row selection colour
Primary row selection colour
Table striped row colour
Mandatory field colour
Screen split colour bar

Administration Tools SAP WPM Reporting Options Windows Colours ? Close and Kill all sessions

Frame Filter Profile GR Excel Reset Refresh Status Focus Return desktop

PT	SAP WBS	Program	GeoReturn	Project Gr.	Fund	Contract	MPP	MCP	SAP Mils	PO	Payment	SAP MPP	CAP	Schedule	Activity																																																																																																																																																																																																																																																																																																																									
Contract <table border="1"> <thead> <tr> <th colspan="3">Commitment</th> <th colspan="3">Cost</th> <th colspan="3">Payment</th> <th colspan="3">Risk</th> <th colspan="3">Target</th> <th colspan="3">Delta</th> </tr> <tr> <td>Total</td> <td>1 450.000</td> <td></td> <td>1 450.000</td> <td></td> <td>1 450.000</td> <td></td> <td>0 €</td> <td>KC</td> <td>Standard</td> <td>0.00</td> <td>0.00</td> <td>0.00</td> <td>0.00</td> <td>0.00</td> <td>0.00</td> </tr> <tr> <td>Planned</td> <td>0.000</td> <td></td> <td>0.000</td> <td></td> <td>0.000</td> <td></td> <td>0 MC</td> <td>Included</td> <td>Included</td> <td>0.00</td> <td>0.00</td> <td>0.00</td> <td>0.00</td> <td>0.00</td> <td>0.00</td> </tr> <tr> <td>Actual</td> <td>1 450.000</td> <td></td> <td>1 450.000</td> <td></td> <td>1 450.000</td> <td></td> <td>0 WF</td> <td>Only</td> <td>Only</td> <td>1 450.000</td> <td></td> <td>1 450.000</td> <td></td> <td>1 450.000</td> <td></td> </tr> <tr> <td>Provisional</td> <td></td> </tr> </thead> <tbody> <tr> <td colspan="16" style="text-align: center;">COMMITMENT LINES</td> </tr> <tr> <td>Contract No.</td> <td>Con... P...</td> <td>Contract Desc.</td> <td>Project Group</td> <td>SAP WBS</td> <td>Fund</td> <td>Parent Fund</td> <td>GL</td> <td>SAP Sub... S...</td> <td>W.</td> <td>Cont Date</td> <td>Cmt Total</td> <td>Cmt Actual</td> <td>Cmt Planned</td> <td>Pay Total</td> <td>Pay Actual</td> <td>Pay Planned</td> <td>Cost Total</td> <td>Cost Accrued</td> </tr> <tr> <td>E/0172-01-K-04</td> <td>E/0172-01</td> <td>1100582</td> <td>6171000</td> <td>1000003215</td> <td>ALSR</td> <td>1.00</td> <td>01/05/2010</td> <td>111 616.00</td> <td>0.00</td> <td>111 616.00</td> <td>111 616.00</td> <td>0.00</td> <td>111 616.00</td> <td>111 616.00</td> <td>0.00</td> <td>111 616.00</td> <td>111 616.00</td> </tr> <tr> <td>E/0172-01-K-04</td> <td>E/0172-01</td> <td>1100582</td> <td>6171000</td> <td>1000000216</td> <td>TRAB</td> <td>1.00</td> <td>01/05/2010</td> <td>10 000.00</td> <td>0.00</td> <td>10 000.00</td> <td>10 000.00</td> <td>0.00</td> <td>10 000.00</td> <td>10 000.00</td> <td>0.00</td> <td>10 000.00</td> <td>10 000.00</td> </tr> <tr> <td>E/0172-01-K-04</td> <td>E/0172-01</td> <td>1100582</td> <td>6171000</td> <td>1000005744</td> <td>OPI</td> <td>1.00</td> <td>01/05/2010</td> <td>38 000.00</td> <td>0.00</td> <td>38 000.00</td> <td>38 000.00</td> <td>0.00</td> <td>38 000.00</td> <td>38 000.00</td> <td>0.00</td> <td>38 000.00</td> <td>38 000.00</td> </tr> <tr> <td>E/0172-01-K-04</td> <td>E/0172-01</td> <td>1100582</td> <td>6171000</td> <td>1000001220</td> <td>FOJO</td> <td>1.00</td> <td>01/05/2010</td> <td>55 992.00</td> <td>0.00</td> <td>55 992.00</td> <td>55 992.00</td> <td>0.00</td> <td>55 992.00</td> <td>55 992.00</td> <td>0.00</td> <td>55 992.00</td> <td>55 992.00</td> </tr> <tr> <td>E/0172-01-K-04</td> <td>E/0172-01</td> <td>1100582</td> <td>6171000</td> <td>1000005744</td> <td>OPI</td> <td>1.00</td> <td>12/07/2013</td> <td>20 000.00</td> <td>0.00</td> <td>20 000.00</td> <td>20 000.00</td> <td>0.00</td> <td>20 000.00</td> <td>20 000.00</td> <td>0.00</td> <td>20 000.00</td> <td>20 000.00</td> </tr> <tr> <td>E/0172-01-K-04</td> <td>E/0172-01</td> <td>1100582</td> <td>6171000</td> <td>1000005744</td> <td>OPI</td> <td>1.00</td> <td>12/07/2013</td> <td>212 000.00</td> <td>0.00</td> <td>212 000.00</td> <td>212 000.00</td> <td>0.00</td> <td>212 000.00</td> <td>212 000.00</td> <td>0.00</td> <td>212 000.00</td> <td>212 000.00</td> </tr> <tr> <td>E/0172-01-K-04</td> <td>E/0172-01</td> <td>1100582</td> <td>6171000</td> <td>1000003215</td> <td>ALSR</td> <td>1.00</td> <td>12/07/2013</td> <td>564 420.00</td> <td>0.00</td> <td>564 420.00</td> <td>564 420.00</td> <td>0.00</td> <td>564 420.00</td> <td>564 420.00</td> <td>0.00</td> <td>564 420.00</td> <td>564 420.00</td> </tr> <tr> <td>E/0172-01-K-04</td> <td>E/0172-01</td> <td>1100582</td> <td>6171000</td> <td>1000001220</td> <td>FOJO</td> <td>1.00</td> <td>12/07/2013</td> <td>173 675.00</td> <td>0.00</td> <td>173 675.00</td> <td>173 675.00</td> <td>0.00</td> <td>173 675.00</td> <td>173 675.00</td> <td>0.00</td> <td>173 675.00</td> <td>173 675.00</td> </tr> <tr> <td>E/0172-01-K-04</td> <td>E/0172-01</td> <td>1100582</td> <td>6171000</td> <td>1000000818</td> <td>UNDU</td> <td>1.00</td> <td>12/07/2013</td> <td>210 608.00</td> <td>0.00</td> <td>210 608.00</td> <td>210 608.00</td> <td>0.00</td> <td>210 608.00</td> <td>210 608.00</td> <td>0.00</td> <td>210 608.00</td> <td>210 608.00</td> </tr> <tr> <td>E/0172-01-K-04</td> <td>E/0172-01</td> <td>1100582</td> <td>6171000</td> <td>1000000818</td> <td>UNDU</td> <td>1.00</td> <td>01/05/2010</td> <td>34 392.00</td> <td>0.00</td> <td>34 392.00</td> <td>34 392.00</td> <td>0.00</td> <td>34 392.00</td> <td>34 392.00</td> <td>0.00</td> <td>34 392.00</td> <td>34 392.00</td> </tr> </tbody> </table>																Commitment			Cost			Payment			Risk			Target			Delta			Total	1 450.000		1 450.000		1 450.000		0 €	KC	Standard	0.00	0.00	0.00	0.00	0.00	0.00	Planned	0.000		0.000		0.000		0 MC	Included	Included	0.00	0.00	0.00	0.00	0.00	0.00	Actual	1 450.000		1 450.000		1 450.000		0 WF	Only	Only	1 450.000		1 450.000		1 450.000		Provisional																COMMITMENT LINES																Contract No.	Con... P...	Contract Desc.	Project Group	SAP WBS	Fund	Parent Fund	GL	SAP Sub... S...	W.	Cont Date	Cmt Total	Cmt Actual	Cmt Planned	Pay Total	Pay Actual	Pay Planned	Cost Total	Cost Accrued	E/0172-01-K-04	E/0172-01	1100582	6171000	1000003215	ALSR	1.00	01/05/2010	111 616.00	0.00	111 616.00	111 616.00	0.00	111 616.00	111 616.00	0.00	111 616.00	111 616.00	E/0172-01-K-04	E/0172-01	1100582	6171000	1000000216	TRAB	1.00	01/05/2010	10 000.00	0.00	10 000.00	10 000.00	0.00	10 000.00	10 000.00	0.00	10 000.00	10 000.00	E/0172-01-K-04	E/0172-01	1100582	6171000	1000005744	OPI	1.00	01/05/2010	38 000.00	0.00	38 000.00	38 000.00	0.00	38 000.00	38 000.00	0.00	38 000.00	38 000.00	E/0172-01-K-04	E/0172-01	1100582	6171000	1000001220	FOJO	1.00	01/05/2010	55 992.00	0.00	55 992.00	55 992.00	0.00	55 992.00	55 992.00	0.00	55 992.00	55 992.00	E/0172-01-K-04	E/0172-01	1100582	6171000	1000005744	OPI	1.00	12/07/2013	20 000.00	0.00	20 000.00	20 000.00	0.00	20 000.00	20 000.00	0.00	20 000.00	20 000.00	E/0172-01-K-04	E/0172-01	1100582	6171000	1000005744	OPI	1.00	12/07/2013	212 000.00	0.00	212 000.00	212 000.00	0.00	212 000.00	212 000.00	0.00	212 000.00	212 000.00	E/0172-01-K-04	E/0172-01	1100582	6171000	1000003215	ALSR	1.00	12/07/2013	564 420.00	0.00	564 420.00	564 420.00	0.00	564 420.00	564 420.00	0.00	564 420.00	564 420.00	E/0172-01-K-04	E/0172-01	1100582	6171000	1000001220	FOJO	1.00	12/07/2013	173 675.00	0.00	173 675.00	173 675.00	0.00	173 675.00	173 675.00	0.00	173 675.00	173 675.00	E/0172-01-K-04	E/0172-01	1100582	6171000	1000000818	UNDU	1.00	12/07/2013	210 608.00	0.00	210 608.00	210 608.00	0.00	210 608.00	210 608.00	0.00	210 608.00	210 608.00	E/0172-01-K-04	E/0172-01	1100582	6171000	1000000818	UNDU	1.00	01/05/2010	34 392.00	0.00	34 392.00	34 392.00	0.00	34 392.00	34 392.00	0.00	34 392.00	34 392.00	 ONLY INDUSTRIAL COST															
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What's New V8.0 Release, November 2024



Administration Tools SAP WPM Reporting Options Windows Colours ? Close and Kill all sessions

Frame Filter Profile GR Excel Reset Refresh Status Focus Return desktop

PT	SAP WBS	Program	GeoReturn	Project Gr.	Fund	Contract	MPP	MCP	SAP Mils	PO	Payment	SAP MPP	CAP	Schedule	Activity									
Contract								Contract Events				Milestone Cost Plan												
Contract No.	P.	Description	Type	Ctr Amount	Description			SAP PO	I.	Ph.	S.	SAP Sup...	Description											
4000122233	VTCB	EFC2 SERVICE-HRE-VITROCISE	BASIC CTR	1 605 168.00	BioMission 2017			4000122... 1.007	PHASE 1	KAYI	1000003...	VO 3 OSTEO PREPARATION	1 999.426											
4000122340	DFLV	NP1532 CO-SPONSORED PHD ON PHYSICAL PROPERTIES OF POWDER-BASED 3DPR	CCN 001	54 000.00	BioMission 2017 Procurement and manufacturing of the met...			4000122... 1.008	CON 10	KAYI	1000003...	CCN 10 BIOMISSION 2017 UPD...	1 999.426											
4000122341	CEFM	NP1533 A SYMBIOTIC HUMAN AND MULTI-ROBOT PLANETARY EXPLORATION SYSTEM	CCN 002	0.00	BioMission 2017 Update of ESRs for Rottifer and Biofilms ex...			4000122... 1.009	CON 11	KAYI	1000003...	CCN 11 BIOMISSION 2017 EXP...	0.000											
4000122355	PRMF	Study to assess the future potential market and value-chain of space resources utili...	CCN 003	0.00	BioMission 2017 Update of Schedules and MPR for Osteo, Rot...			4000122... 1.010	BAC 01	KAYI	1000003...	BASIC CTR - LOL	0.000											
4000122513	KAYI	BioMission 2017	CCN 004	0.00	BioMission 2017 Update of the ESRs for Osteo, Rottifer B1/B2...			4000122... 1.011	BAC 01	KAYI	1000003...	BASIC CTR - Biofilms	0.000											
4000122519	VERH	Neur-Ox (Non-Equilibrium Fluctuations during Diffusion in complex liquids) Phase A/B	CCN 005	16 581.00	BioMission 2017 Update of the ESRs for Rottifer B1/B2 and B...			4000122... 1.012	BAC 01	KAYI	1000003...	BASIC CTR - Rottifer PII	0.000											
4000122585	CRW	EFC-3SYC-TEC-TERM	CCN 006	0.00	BioMission 2017 Update of ESR for the Osteogenic Cells (oste...			4000122... 1.013	BAC 01	KAYI	1000003...	BASIC CTR - Rottifer PI	0.000											
4000122598	DTH	VTIP-GRAN-ph B2/C2/E1	CCN 007	0.00	BioMission 2017 Update of ESRs for the Osteogenic Cells exp...			4000122... 1.014	BAC 01	KAYI	1000003...	BASIC CTR - OSTEO	0.000											
4000122599	VERH	COLS PHASE C/D/E1	CCN 008	0.00	BioMission 2017 Update of ESRs for the Osteogenic Cells exp...			4000122... 1.015	C01 01	KAYI	1000003...	CCN 01 - Biofilms	0.000											
4000122639	VERH	HEAT TRANSFER HOST 2	CCN 009	9 531.00	BioMission 2017 Additional effort to implement access to NAS...			4000122... 1.016	C05 01	KAYI	1000003...	CCN 5	0.000											
Milestones																								
Mis N.	S.	SAP Sup...	Amount	Contract Date	EED	A. Date	Conf No	SAP PO	PO Itm	↑ Description	Code Sch Mls	Schedule Mls	Delay	Days...										
09	KAYI	100000292	144 823.00	EUR	15/09/2018	24/09/2018	6000372453	4000122513		14 Progress (MS 9): Upon successful completion of Preliminary Design Review (PDR) and successful review and acceptance of...														
10	KAYI	100000292	193 097.00	EUR	15/06/2019	03/06/2019	600042423	4000122513		15 Progress (MS 10): Upon successful completion of Critical Design Review (CDR) and successful review and acceptance of...														
11	KAYI	100000292	57 928.80	EUR	15/06/2020	01/06/2021	600061011	4000122513		16 Progress (MS 11): Upon successful completion of Final Acceptance Review (FAR) and successful review and acceptance of...														
11	KAYI	100000292	86 893.20	EUR	15/02/2020	01/06/2020	6000443499	4000122513		16 Progress (MS 11): Upon successful completion of Final Acceptance Review (FAR) and successful review and acceptance of...														
Confirmations												COMMITMENT LINES												
Conf No	T. Amount	A. Amount	PO Item	Status	AD...	Description	Con... No.	Contract Desc.	Pr... Gr...	SAP WBS	Fund	Parent Fund	GL	SAP Sup...	S.	T.	Cmt Date	Cmt Total	Cmt Actual	Cmt Planned	Pay Total	Pay Actual		
6000369496	80 000.00	80 050.00	7 Posted in the Backend	27/08/2018	Rottifer P1-MS4a:Successful		4000122513	BioMission 2017	ISS Pay...	E/0144-01-E-65-60	E/0144-015	1000887	6051100	1000003292	KAYI			14/12/2017	482 742.00	482 742.00	0.00	482 742.00	482 742.00	
6000372453	144 823.00	144 823.00	14 Posted in the Backend	24/09/2018	6000372453	4000122513	ISS Pay...	E/0144-01-E-65-60	E/0144-015	1000887	6051100	1000003292	KAYI					0.00	0.00	0.00	0.00	0.00	0.00	
6000374026	16 200.00	16 200.00	18 Posted in the Backend	08/10/2018	600042423	4000122513	ISS Pay...	E/0144-01-E-65-60	E/0144-015	1000887	6051100	1000003292	KAYI					51 473.00	51 473.00	0.00	51 473.00	51 473.00	0.00	
6000374380	118 159.00	118 159.00	10 Posted in the Backend	10/10/2018	Rottifer PII-MS5:Successful		4000122513	BioMission 2017	ISS Pay...	E/0144-01-E-65-65	E/0144-015	1000887	6051100	1000003292	KAYI			14/12/2017	51 473.00	51 473.00	0.00	51 473.00	51 473.00	0.00
6000380342	113 405.00	113 405.00	3 Posted in the Backend	26/11/2018	OSTEO-MS1:Successful		4000122513	BioMission 2017	ISS Pay...	E/0144-01-E-65-65	E/0144-015	1000887	6051100	1000003292	KAYI			14/12/2017	378 015.00	378 015.00	0.00	378 015.00	378 015.00	0.00
6000383563	93 321.00	93 321.00	8 Posted in the Backend	01/01/2019	Rottifer PII-MS4b:Successful		4000122513	BioMission 2017	ISS Pay...	E/0144-01-E-65-65	E/0144-015	1000887	6051100	1000003292	KAYI			14/12/2017	393 863.00	393 863.00	0.00	393 863.00	393 863.00	0.00
6000397815	157 545.00	157 545.00	11 Posted in the Backend	17/04/2019	Rottifer PII-MS7:Successful		4000122513	BioMission 2017	ISS Pay...	E/0144-01-E-65-65	E/0144-015	1000887	6051100	1000003292	KAYI			14/12/2017	247 602.00	247 602.00	0.00	247 602.00	247 602.00	0.00
600042423	193 097.00	193 097.00	15 Posted in the Backend	03/05/2019	Biofilms-M5-10:Successful		4000122513	BioMission 2017	ISS Pay...	E/0144-01-E-65-65	E/0144-015	1000887	6051100	1000003292	KAYI			14/12/2017	482 742.00	482 742.00	0.00	482 742.00	482 742.00	0.00
6000434357	37 800.00	37 800.00	19 Posted in the Backend	24/09/2019	CONO-LB:Biofilms-M13:Successful		4000122513	BioMission 2017	ISS Pay...	E/0144-01-E-65-65	E/0144-015	1000887	6051100	1000003292	KAYI			14/12/2017	482 742.00	482 742.00	0.00	482 742.00	482 742.00	0.00
6000422249	151 206.00	151 206.00	4 Posted in the Backend	01/11/2019	OSTEO-MS2:Successful		4000122513	BioMission 2017	ISS Pay...	E/0144-01-E-65-65	E/0144-015	1000887	6051100	1000003292	KAYI			14/12/2017	51 473.00	51 473.00	0.00	51 473.00	51 473.00	0.00
6000437076	74 281.00	74 281.00	20 Posted in the Backend	02/12/2019	Progress (MS 5): Upon successful completion of Preliminary Design Review (PDR) and successful review and acceptance of...		4000122513	BioMission 2017	ISS Pay...	E/0144-01-E-65-65	E/0144-015	1000887	6051100	1000003292	KAYI			14/12/2017	51 473.00	51 473.00	0.00	51 473.00	51 473.00	0.00
6000423706	13 331.00	13 331.00	20 Posted in the Backend	02/12/2019	PROGRESS (MS 5) - CONN 10		4000122513	BioMission 2017	ISS Pay...	E/0144-01-E-65-65	E/0144-015	1000887	6051100	1000003292	KAYI			14/12/2017	1 361.00	1 361.00	0.00	1 361.00	1 361.00	0.00
6000434398	68 042.40	68 042.40	5 Posted in the Backend	01/06/2020	OSTEO-MS3:Successful		4000122513	BioMission 2017	ISS Pay...	E/0144-01-E-65-65	E/0144-015	1000887	6051100	1000003292	KAYI			14/12/2017	393 863.00	393 863.00	0.00	393 863.00	393 863.00	0.00
6000434399	86 893.20	86 893.20	16 Posted in the Backend	01/06/2020	Biofilms-M5-11:Successful		4000122513	BioMission 2017	ISS Pay...	E/0144-01-E-65-65	E/0144-015	1000887	6051100	1000003292	KAYI			14/12/2017	247 602.00	247 602.00	0.00	247 602.00	247 602.00	0.00
6000449505	121 409.00	118 159.00	12 Posted in the Backend	01/08/2020	Rottifer PIII-MS8:CONN 10		4000122513	BioMission 2017	ISS Pay...	E/0144-01-E-65-65	E/0144-015	1000887	6051100	1000003292	KAYI			14/12/2017	507 982.00	507 982.00	0.00	507 982.00	507 982.00	0.00
												COMMITMENT LINES												
Con... No.	Contract Desc.	Pr... Gr...	SAP WBS	Fund	Parent Fund	GL	SAP Sup...	S.	T.	Cmt Date	Cmt Total	Cmt Actual	Cmt Planned	Pay Total	Pay Actual	Pay Planned	Cost Total	Cost Accrued						
4000122233	EFC2 SERVICE-HRE...	MSR - STA	E/0195-01-A-AA	E/0195-028	1000592	6111800	1000001600	VTCB		23/09/2011	1 316 000	0.00	1 316 000	0.00	1 316 000	0.00	1 316 000	0.00						
4000122233	EFC2 SERVICE-HRE...	MSR - STA	E/0195-01-A-AA	E/0195-028	1000592	6111800	1000001600	VTCB		19/11/2020	32 904.00	0.00	32 904.00	0.00	32 904.00	0.00	32 904.00	0.00						
5001038285	MARS SAMPLE RE...	MSR - STA	E/0195-01-A-AA	E/0195-038	1000593	6236000	1000003070	ATGU		16/10/2023	6 300.00	0.00	6 300.00	0.00	6 300.00	0.00	6 300.00	0.00						
5201030542	EROS/STA PRM0...	MSR - STA	E/0195-01-A-AA	E/0195-038	1000593	6236000	1000003070	ATGU		30/06/2023	2 830.00	0.00	2 830.00	0.00	2 830.00	0.00	2 830.00	0.00						
5201030543	EROS/STA PRM0...	MSR - STA	E/0195-01-A-AA	E/0195-038	1000593	6236000	1000003151	S262		30/06/2023	1 361.00	0.00	1 361.00	0.00	1 361.00	0.00	1 361.00	0.00						
5201030561	EROS/STA PRM0...	MSR - STA	E/0195-01-A-AA	E/0195-038	1000593	6236000	10000036942	E8ME		04/07/2023	456.95	0.00	456.95	0.00	456.95	0.00	456.95	0.00						
5201316993	MARS PROMOTION...	MSR - STA	E/0195-01-A-AA	E/0195-038	1000593	6236000	1000003151	S262		10/11/2023	782.00	0.00	782.00	0.00	782.00	0.00	782.00	0.00						
CAT S 2021-E...	CAT S 2021 for E...	MSR - STA	E/0195-01-A-AA	E/0195-028	1000592	9586992	9586992	9586992	TBD	31/12/2021	8 300.00	0.00	8 300.00	0.00	8 300.00	0.00	8 300.00	0.00						
CAT S 2021-E...	CAT S 2021 for E...	MSR - STA	E/0195-01-A-AA	E/0195-028	1000592	9586992	9586992	9586992	TBD	31/08/2021	8 300.00	0.00	8 300.00	0.00	8 300.00	0.00	8 300.00	0.00						
IC-2024-ADIT...	MR - STA	E/0195-01-A-AA	E/0195-038	1000593	PLN_LADM	TBD				01/06/2024	122 377.50	0.00	122 377.50	0.00	122 377.50	0.00	122 377.50	0.00						
IC-2024-ADIT...	MR - STA	E/0195-01-A-AA	E/0195-038	1000593	PRV_ADM	TBD				01/06/2024	87 412.50	0.00	87 412.50	0.00	87 412.50	0.00	87 412.50	0.00						
IC-2024-CORP...	MR - STA	E/0195-01-A-AA	E/0195-038	1000593	PRV_COR	TBD				01/06/2024	6 527.01	0.00	6 527.01	0.00	6 527.01	0.00	6 527.01	0.00						
IC-2024-CORP...	MR - STA	E/0195-01-A-AA	E/0195-038	1000593	PRV_FAC	TBD				01/06/2024	2 088.65	0.00	2 088.65	0.00	2 088.65	0.00	2 088.65	0.00						
IC-2024-CORP...	MR - STA	E/0195-01-A-AA	E/0195-038	1000593	PLN_COR	TBD				01/06/2024	10 102.66	0.00	10 102.66	0.00	10 102.66	0.00	10 102.66	0.00						
IC-2024-CORP...	MR - STA	E/0195-01-A-AA	E/0195-038	1000593	PLN_FAC	TBD				01/06/2024	3 232.83	0.00	3 232.83	0.00	3 232.83	0.00	3 232.83	0.00						
IC-2024-IRE...	MR - STA	E/0195-01-A-AA	E/0195-038	1000593	PRV_HSC	TBD				01/06/2024	83 572.71	0.00	83 572.71	0.00	83 572.71	0.00	83 572.71	0.00						
IC-2024-IRE...	MR - STA	E/0195-01-A-AA	E/0195-038</td																					

What's New V8.0 Release, November 2024



IPCDB UPGRADE TO DELPHI 12

IPCDB is now upgraded to Delphi 12.

FIXED BUGS FROM THE 8.0 VERSION

342	MCP Tab	Display of EED Machine learning predicted date in IPCDB application
340	MCP Tab	New Column for EED machine learning implementation
339	Commitment line	WF changes
331	General	Column filter remove the top part select filter customisation in IPCDB giving errors
330	Commitment line	Delta MCP Cost amount et Cost du CMT profile et calculs
304	Advance Payments	NAV-Procedure to Enter Advance Payments in the past
303	General	Colour palet: BLACK STYLE added
302	WPM	In WPM, Display CJI3 is empty when sppdtsap.wpm_all_level=1 [reconnexion display WF/CJI3 + erreur de date format]
300	Commitment line	Add Adv tick in CMTL profile MPP part [299]
298	SAP MPP Tab	SAP MPP-Add full ATP Reference/NB in the CTR events view to insert
295	General	STS-Difference in amount for CCN9 in C20054W049 in IPCDB and ORACLE
293	Contract Tab	Ghost commitment line @ HRE
290	Contract Tab	STS-WP Number
289	Payments	Package Import Cost Payments avec procedure remove insert Advance
288	MPP Tab	Filtre sur MPP bloque à un moment
287	Payments	Invoiced amount en dur dans fdinvh et possibilité de modifier le flag advance dans fdmils et fdinvh
286	Commitment line	NAV context : make field "Project Group" mandatory in commitment line screen
285	Fund tab	Commitment ceiling : modification of labels
284	MPP Tab	MCP and MPP tabs : selecting a commitment line disables the milestones filters
283	Contract Summary	Field Programme Ref. editable manually, otherwise if empty automated fill in from Datalake
280	Commitment line	Rename "Cost Expenditure planning" by "Milestones" in commitment profile
279	General	Import Cost Centers automated
278	General	TE_BASELINE : added fields "Advance Payment Amount" and "Offset Amount"
277	MPP tab	No available Amount
275	MPP tab	Error on the Break functionality if MS not selected

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270	Georeturn	Geo return screen : add "company name" column to the "geo return by company" grid
263	General	IPCDB change to DELPHI 12
259	General	For ADMIN IPCDB - Oracle Triggers reference ESA.* tables (& 265)
258	Contract Summary	CTR summary: typo in Estimated Duration SPACE (months)
229	MCP Tab	Tab MCP/MPP- Right click on MS -> Add "modify Commitment Line" in the menu
227	MCP Tab	Bug filtered cost MS lost if CMT line opened
223	Commitment profile	Field Program ref in grey in Commitment profile
215	Import Excel	GSP-Import Foreseen Date for GSP freezes
214	MCP Tab	Split MS zero MS proposed
209	Contract tab	Ghost CMT Line to be investigated
207	WPM	WPM NAV: implement specific rules for fund assignment of corporate recharges
203	SAP Tab	IPCDB SAP WBS screen - add a field « Org. Unit »
198	Commitment line	Addition in IPCDB for PC in HRE [modify field CMt description & column for PC and TO in WP]
192	Fund Tab	Tab FUND, search field
190	Georeturn	Geo return screen, Country Affectation window, Countries list : sort countries by country name ascending
186	Tab MCP	No manual integration similar GRN on item MS
180	Oracle	GSP-Enloca_text pas importé (country)
178	Commitment line	Select a company with a country
176	Contract Tab	GSP-Enlever le champs "WBS" dans l'écran contract summary pour GSP
175	SAP tab	Renaming "SAP" tab to "SAP WBS"
167	General IPCDB	Refresh to keep the level in the tree in several tab Program et Project group
166	SAP Tab	SAP Tables- WBS table- increase window size to see the filter of the last column
164	Tab MPP	Tab MPP- Advance payment - Invoiced amount incorrect amount
157	Contract Tab	Renommer le champ "Division Code" par "TO Org. Unit" et l'Initiating Service est conservé dans CTR summary
148	general	Lien web sur WPM pour import fichiers excel en IA
76	Desktop	IPCDB Desktop : mise en place du lien vers le reporting (BO/WebI ?)

35	Commitment Line	SOW IC -OC Integration V1 (previous 2463)
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FIXED BUGS FROM PATCHES OF 7.4 VERSION

268	Commitment line	7.4.14-Contractual date automatic update for CCNs for HRE
247	Tab Fund	7.4.14- NAV- IPCDBLAKE Commitment ceiling : implement new formula
246	General	7.4.14- Import Foreseen date rights to operator profile
239	General	7.4.14- REG multi sorting on columns
238	Commitment line	7.4.14- Field Cmt delta not fully displayed
237	Commitment line	7.4.14- bug? delete une ligne de planning et plusieurs autres supprimées en même temps !
235	Commitment Lines	7.4.14- HRE-Tri en cascade plus possible (ODSetCmtl : Champ 'SPPDTTRBS_REFE,FDCMTL_DATE' non trouvé)
234	General	7.4.14- HRE - place curseur on PSWD
231	Georeturn	7.4.0.13- HRE bug Geoturn
230	Georeturn	7.4.0.13- Problem Country Company
208	Contract Tab	7.4.0.10- V7.4- REG selection MS from selected CMT line
206	General IPCDB	7.4.0.8- Renaming Personnel Filter
204	Commitment line	7.4.14-INFO: implemented Machine learning for HRE to predict EED and GL info empty
202	General IPCDB	7.4.14-NAV-TE_BASELINE : history notes FDCMTLH
201	General IPCDB	7.4.0.8- new IPCDB version redefines the Column settings - default settings not acceptable
199	MCP Tab	7.4.0.8- Crash "ipcdbe.exe has stopped working" when filtering milestones then selecting commitment line
197	Tab MCP	7.4.0.9- Event impact- same contract event is impacting AND impacted when filtering on PO item
194	General IPCDB	7.4.0.9- excel reporting filter error
193	MCP Tab	7.4.0.8- error when deselecting filter column in big PO
191	General IPCDB	7.4.0.8- ESA BIP Disclaimer : specific version for each directorate or make it global
188	Tab contract	7.4.0.5/7- Add to Contractual date update procedure: AND fdcmtl.ap8006_code='CM'
185	General IPCDB	7.4.0.7- Saved colons display not working anymore?

What's New V8.0 Release, November 2024



183	Commitment line	7.4.0.9- STS+HRE_CMTL Line issue with amounts in Euro
181	Commitment line	7.4.0.7- STS Contract date in CMT profile for CO reestablish and keep display/hide user selection
174	General IPCDB	7.4.0.8- Bug when trying to display geo return with Cmtline activated (cmtl hidden)