



Use case IBM Planning Analytics

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Introduction



- NTT ? Global technology services company
- Who am I ?
- From TM1 (Architect / Perspectives)
to IBM Planning Analytics on Cloud (PAW / PAx)

NTT Belgium's journey to collaborative finance



We gotta start somewhere: automate and standardize your reporting

CFE Contracting: standard reporting for construction projects
NTT Belgium: Automated WIP and accrued income calculation for C&TS

Automate and standardize your reporting



- CFE Contracting
 - standard P&L reporting for construction projects
- NTT Belgium
 - Automated accrued income calculation based on “PoC” for consulting and technical services. Changing EAC or project statuses in a view changes the WIP in real time thanks to **rules**.
 - All other reporting on project figures and hours (e.g. over/under absorption, LoB transfer) included
- Minimal risk and effort, high return!

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RPA with IBM Planning Analytics? Yes, we can!



Idle time:

“We go to sleep, the robot remains awake.”

“Chores” are running daily and weekly to perform tasks that we don’t want to run during office hours.

E.g. Commission calculation is refreshed weekly. This update takes into account modifications since the beginning of the fiscal year and takes about 1,5 hour.

E.g. MDM tasks to do daily quality checks: customers, material masters.

RPA with IBM Planning Analytics? Yes, we can!



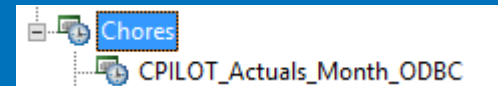
- Use mother processes: one process that includes multiple other processes.
- Move as much processes as possible to idle time with chores

```
Data Source | Variables | Maps | Advanced | Schedule |
Parameters | Prolog | Metadata | Data | Epilog |

#****Begin: Generated Statements****
#****End: Generated Statements****

#ExecuteProcess(CCOMM_MAPPING_update', 'pDPeriod', pDPeriod);
ExecuteProcess(CCOMM_Tech_Margin_OI_csv', 'pDPeriod', pDPeriod);
ExecuteProcess(CCOMM_Services_Invoiced_ODBC', 'pDPeriod', pDPeriod);
ExecuteProcess(CCOMM_Services_Margin_OI_ODBC', 'pDPeriod', pDPeriod);
ExecuteProcess(CCOMM_Margin%_OI', 'pDPeriod', pDPeriod);
ExecuteProcess(CCOMM_Margin%_OI_MS_csv', 'pDPeriod', pDPeriod);
ExecuteProcess(CCOMM_modifyMargins');
ExecuteProcess(CCOMM_Services_Margin', 'pDPeriod', pDPeriod);
ExecuteProcess(CCOMM_applyCrediting', 'pDPeriod', pDPeriod);
ExecuteProcess(CCOMM_Margin%', 'pDPeriod', pDPeriod);
ExecuteProcess(CCOMM_updateDimensions');
ExecuteProcess(CCOMM_updateBIPActivity');
ExecuteProcess(CCOMM_copyBIPActivityToNLevel');
ExecuteProcess(CCOMM_createHierarchies');

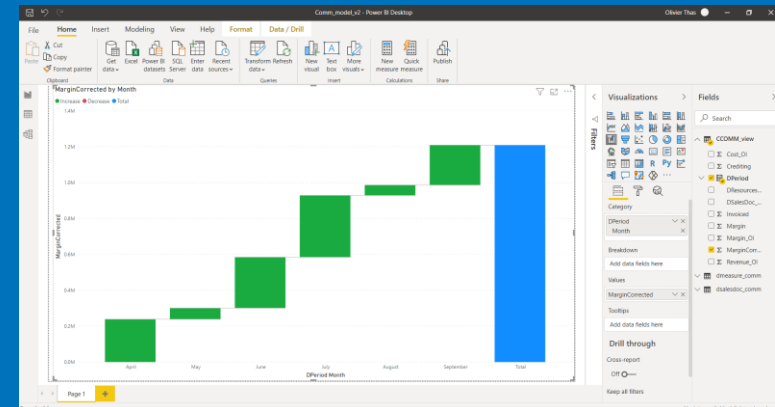
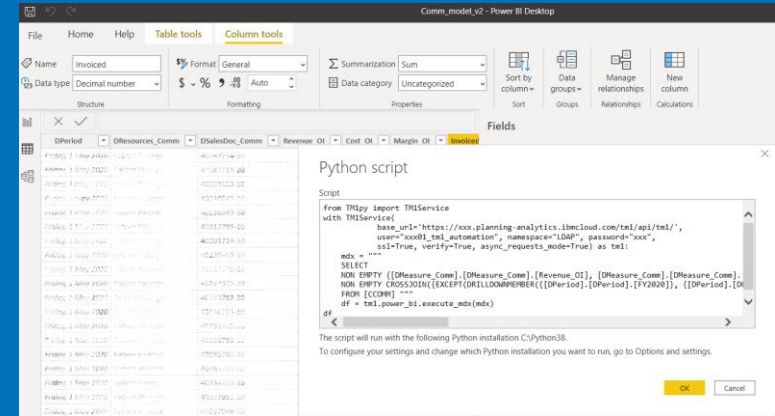
LogOutput('INFO', 'This is the period for which all processes are run in the data tab: ' | pDPeriod | ':');
```



RPA with IBM Planning Analytics? Yes, we can!



- Sidenote: NTT presents most of its reporting in MS PowerBI.
- Some data from IBM PA is shared outside the finance department with the help of the REST API.
- Python (package tm1py) allows the connection between both applications



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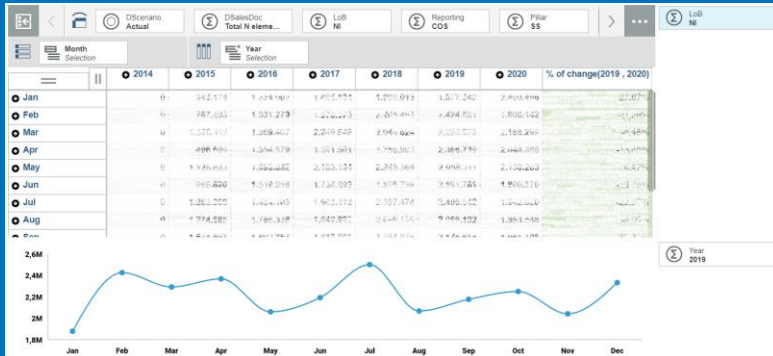
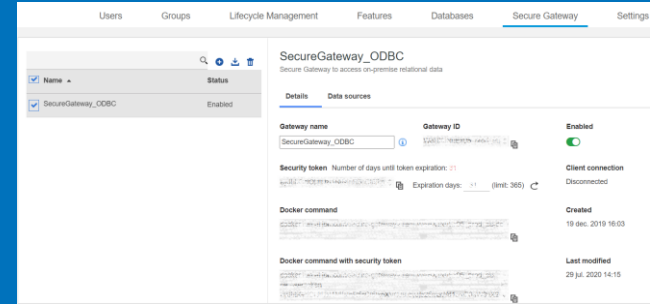


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- 03** **Tons of data... bringing data mining to another level**
Connection to datawarehouse
Challenges: pushing the users to slice and dice and explore the data
- 04**
- 05**
- 06**
- 07**

Tons of data... bringing data mining to another level



- Connecting to a datawarehouse: update your TI processes to ODBC sources instead of files (the csv uploads)



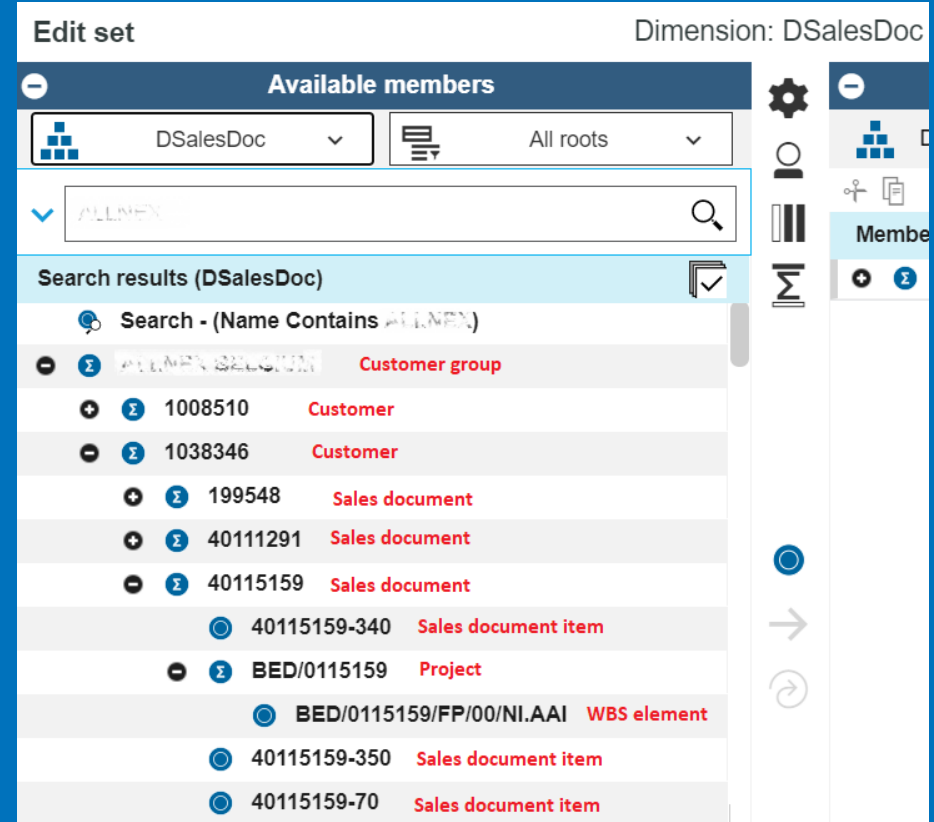
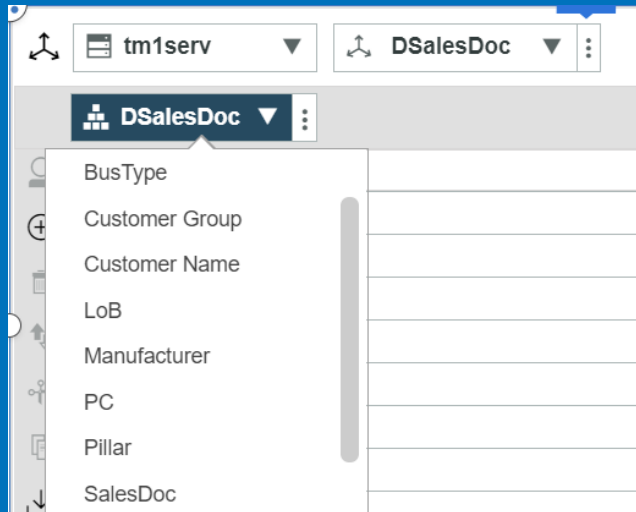
| | All LoB | CC | CI | DC | MI | NI | SE | BS |
|---------|---------------|--------------|--------------|--------------|-----------|---------------|--------------|------------|
| All LoB | 32,720,181,42 | 6,939,022,84 | 2,894,465,43 | 2,845,149,19 | 35,646,26 | 10,056,801,49 | 4,454,046,22 | 479,271,89 |
| CC | 4,402,969,27 | 5,256,861,34 | 236,902,38 | 114,103,14 | 76,041,75 | 660,675,74 | 20,108,50 | 231,102,04 |
| CI | 4,366,104,56 | 669,007,41 | 2,278,739,01 | 27,384,14 | 8,455,81 | 138,111,54 | 1,485,00 | 43,375,25 |
| DC | 2,776,320,29 | 24,993,66 | 44,875,50 | 2,176,466,04 | 819,80 | 460,508,07 | 37,224,40 | 8,525,00 |
| NI | 16,746,509,65 | 635,623,41 | 263,466,36 | 423,237,20 | 18,610,00 | 12,023,322,36 | 564,215,03 | 177,028,70 |
| SE | 5,026,156,65 | 151,398,20 | 620,00 | 102,030,98 | 85,00 | 248,062,78 | 3,811,012,89 | 12,537,00 |
| BS | 1,00 | 0,00 | 0,00 | 0,00 | 0,00 | 1,00 | 0,00 | 0,00 |

Tons of data... bringing data mining to another level



- Metadata and hierarchies
- Consolidations vs hierarchies...

or have both flavors 😊



Tons of data... bringing data mining to another level



- Data mining is fantastic, but...
- Challenges:
 1. Controllers to go and explore the data, pushing the tool PA and the cubes to its limits
 2. Users requesting to create new cubes

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Now you know your data, what is the information?

Share the information with business stakeholders
E.g. books for budgeting and monthly forecasting + guessing the future (AI?)

05

06

07

Now you know your data, what is the information?



- Move to **advanced analytics**: train skills of controllers, ... explain, explain, explain.
- Share the information with business stakeholders.
- E.g.
 - Book with different views allowing budget input with different budget versions (baseline, internal, group) as well as monthly forecasting. (Spreading methods!)

The screenshot displays the SAP Fiori PL Forecast application interface. The top navigation bar includes tabs for Cockpit, Dashboard, Year20, Year20Fcst_Old, I/S FY20, Fcst FY20, TechToClean, Tech (highlighted), EmpCosts, B/Com, Ctr/SubCtr, CS/TS, and SS. Below the navigation bar, there are several toolbars and filters, including DMeasure GL_Acco..., DProfitCenter TECH000, and Report Selection. The main data table shows financial data for May 2020, Jun 2020, and Jul 2020. The table columns include Forecast, F_Var, Fcst_Old, Actual, F_Base, F_Adj, and F_Var. The rows represent different production metrics for TECH000, such as REV_PRODUCTION, COS_PRODUCTION, GM_PRODUCTION, and % GM Production.

| | May2020 | Jun2020 | Jul2020 | | | | | | | |
|-----------------|-----------|---------|-----------|-----------|-----------|-----------|-------|-------|-----------|-----------|
| | Forecast | F_Var | Fcst_Old | Actual | Forecast | F_Base | F_Adj | F_Var | Fcst_Old | Actual |
| TECH000 | | | | | | | | | | |
| REV_PRODUCTION | 4,679,103 | 0 | 4,679,103 | 4,679,103 | 4,679,103 | 4,679,103 | 0 | 0 | 4,679,103 | 4,679,103 |
| COS_PRODUCTION | 2,077,103 | 0 | 2,077,103 | 2,077,103 | 2,077,103 | 2,077,103 | 0 | 0 | 2,077,103 | 2,077,103 |
| GM_PRODUCTION | 1,002,000 | 0 | 1,002,000 | 1,002,000 | 1,002,000 | 1,002,000 | 0 | 0 | 1,002,000 | 1,002,000 |
| % GM Production | | | | | | | | | | |

Now you know your data, what is the information?



- Guess the future: use of basic AI.

As an experiment, we have used R and Python (*tm1py, pandas and mathlib*) to:

1. Retrieve a dataset from a cube (or control cube)
 2. Use the algorithms to calculate trends
 3. Bring it back in PA.
- We hope to use this concept in the upcoming calendar year to forecast on specific volume-based lines of business.

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Collaborating within finance and other departments giving their input to the figures. E.g. HR's recruitment planning.
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- 07**

The next piece of the puzzle for NTT Belgium: collaboration



- Collaborating within finance and other departments giving their input to the figures.
- E.g.
 - Budget exercise → all controllers use for the first time PA for budget input
 - HR's recruitment planning → goal is to have immediate insights on financial impact of future workforce changes

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PA deployment: local server vs SaaS approach
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Fire away!