NEMO Release Letter

Version 2022-06-24

Stand: 2022-06-23 - Änderungen vorbehalten
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Summary

As of June 24, 2022, proALPHA has released NEMO version 2022-06-24.

NEMO – standing for Natural Enterprise Management Optimizer – is a new breed of AaaS – Analytics-as-a-Service – offering from proALPHA. NEMO analyzes all sorts of event data. In particular NEMO analyzes business processes as performed with proALPHA ERP. The objective of NEMO is to enable better daily decisions by relating operational activities (input factors) with financial results (output factors).

NEMO 2022-06-24 features various error corrections and performance improvements. Also, various housekeeping improvements have been implemented.

Furthermore, NEMO 2022-06-24 provides new and improved capabilities triggered by customers:

- Metrics Descriptions (NEW and IMPROVED)
  - All default metrics contain meaningful descriptions now
- Metrics (NEW and IMPROVED)
  - Safety Stock Rate
  - Cash Paid
  - Cash Received
- Auto Crawling (IMPROVED)
  - Following columns are automatically crawled by default now
    - PartId
    - CustomerId
    - SupplierID
- Exported Columns (NEW)
  - Enabling the exporting of proALPHA ERP Project Management data.
- Reports (NEW and IMPROVED)
  - (SAMPLE) Slow Moving Parts (NEW)
  - (SAMPLE) Customer ABC Classification – (IMPROVED)
  - (SAMPLE) Supplier ABC Classification – (IMPROVED)
  - (SAMPLE) Replenishment Time Analysis – (IMPROVED)
- Focus (NEW and IMPROVED)
  - Showing detailed information about Exported Columns (NEW)
  - Full iPad support (IMPROVED)
  - Moving Attributes (IMPROVED)

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Signature Features

Natural Performance Index (NPI)

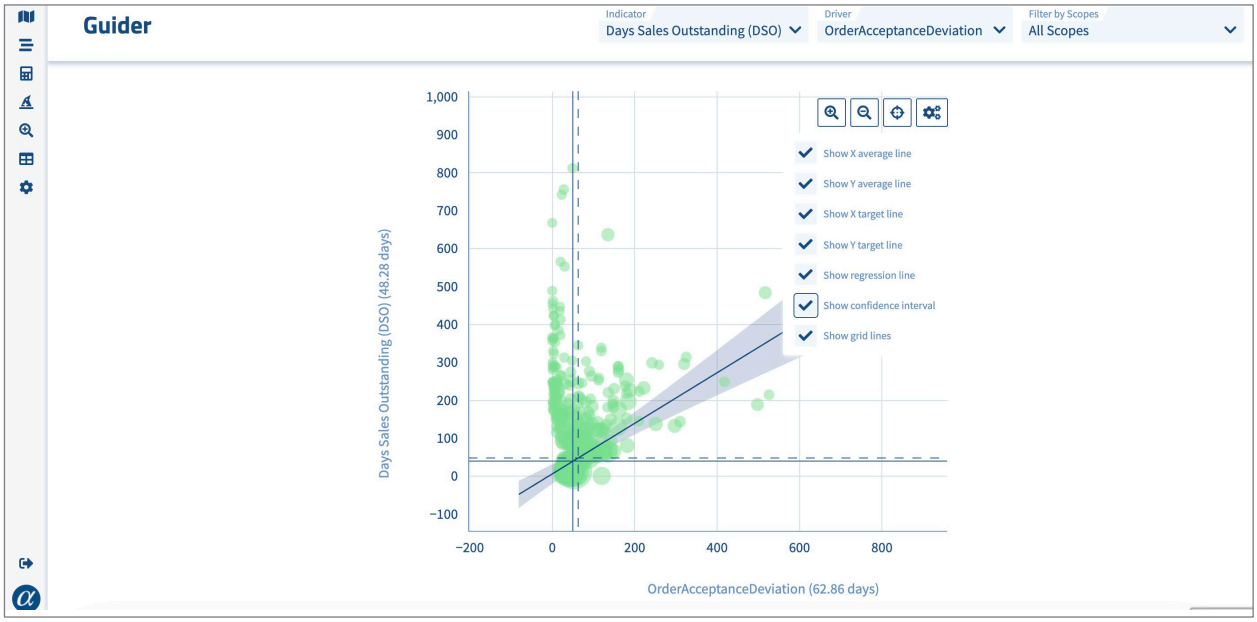
The NPI measures and ranks the fitness of a business. High NPIs indicate a significant improvement potential which is likely to be achieved. They help the user find and decide between the available optimization opportunities and are key to the daily decision support provided by NEMO.

Natural Leverage Index (NLI)

The NLI measures and ranks the degree of efficiency (“Wirkungsgrad”) of a certain operational measure. High NLIs indicate a significant leverage which is likely to be achieved. They help the user find and decide between the available opportunities and as such facilitate the daily decision support provided by NEMO.

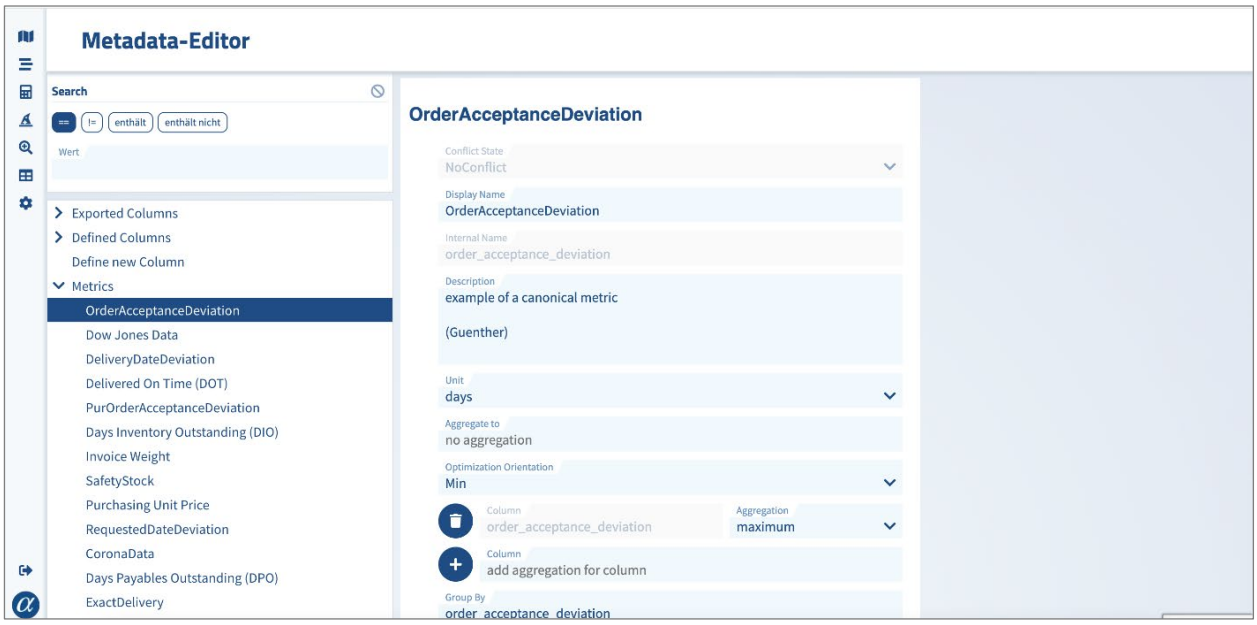
Unsupervised Learning

Since there is no optimum for business process optimization typical machine learning approaches don’t apply. Hence NEMO leverages robust advanced statistics out of the so-called space of unsupervised learning algorithms.



Meta-data Driven

NEMO is not only data- but also metadata-driven. This means that virtually all metrics and scopes can be formed – either manually or automatically.



Hyper-Dashboard

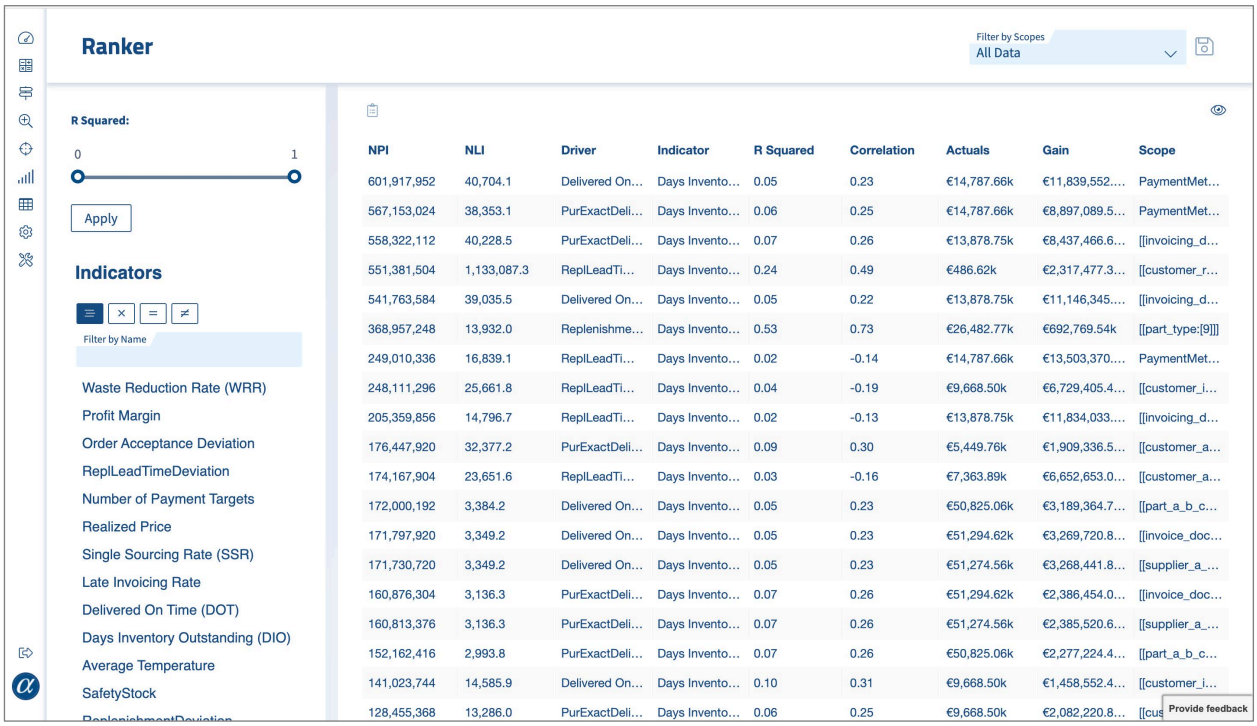
NEMO continuously ranks all business process correlations. This enables dynamic dashboards which are complementing classical dashboards.

All Details

NEMO works always on details. There is no need to do any pre-aggregations at all. This means that the user can drill down to the detailed business documents at any point in time and instantaneously.

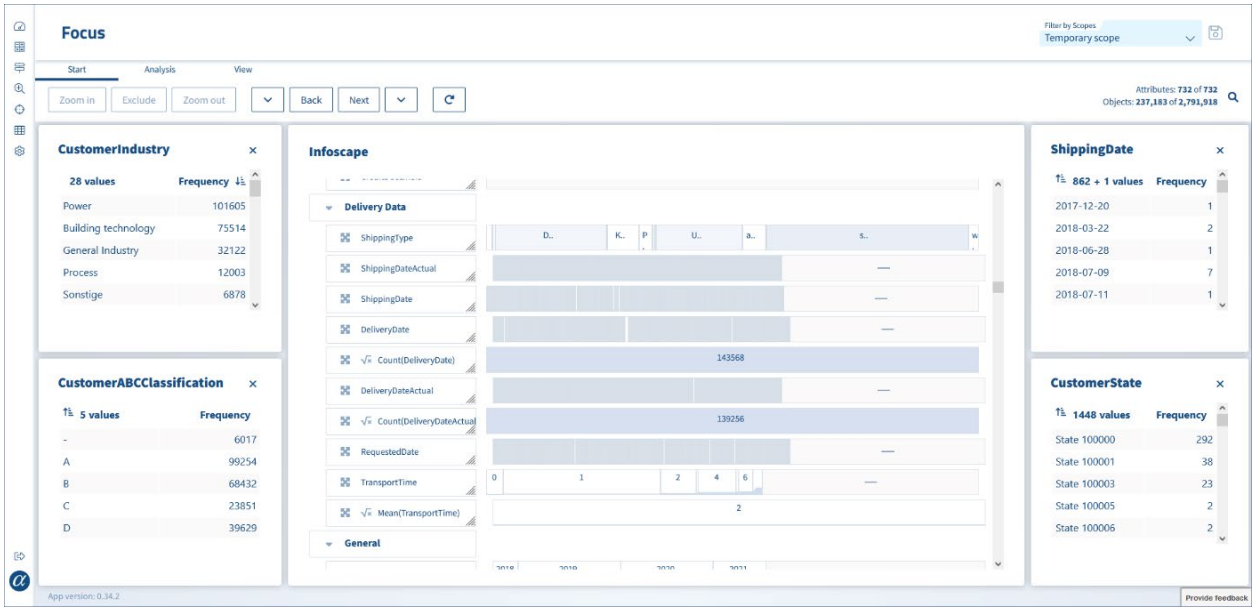
Here an example for the Payment Method Invoice. The Hyper-Dashboard provides an overview of the top measures for process improvements.

The Ranker table gives the details behind the Hyper-Dashboard.



NPI	NLI	Driver	Indicator	R Squared	Correlation	Actuals	Gain	Scope
601,917,952	40,704.1	Delivered On…	Days Invento…	0.05	0.23	€14,787.66k	€11,839,552.…	PaymentMet…
567,153,024	38,353.1	PurExactDeli…	Days Invento…	0.06	0.25	€14,787.66k	€8,897,089.5…	PaymentMet…
558,322,112	40,228.5	PurExactDeli…	Days Invento…	0.07	0.26	€13,878.75k	€8,437,466.6…	[[invoicing_d…
551,381,504	1,133,087.3	ReplLeadTi…	Days Invento…	0.24	0.49	€486.62k	€2,317,477.3…	[[customer_r…
541,763,584	39,035.5	Delivered On…	Days Invento…	0.05	0.22	€13,878.75k	€11,146,345.…	[[invoicing_d…
368,957,248	13,932.0	Replenishme…	Days Invento…	0.53	0.73	€26,482.77k	€692,769.54k	[[part_type:[9]]]
249,010,336	16,839.1	ReplLeadTi…	Days Invento…	0.02	-0.14	€14,787.66k	€13,503,370.…	PaymentMet…
248,111,296	25,661.8	ReplLeadTi…	Days Invento…	0.04	-0.19	€9,668.50k	€6,729,405.4…	[[customer_i…
205,359,856	14,796.7	ReplLeadTi…	Days Invento…	0.02	-0.13	€13,878.75k	€11,834,033.…	[[invoicing_d…
176,447,920	32,377.2	PurExactDeli…	Days Invento…	0.09	0.30	€5,449.76k	€1,909,336.5…	[[customer_a…
174,167,904	23,651.6	ReplLeadTi…	Days Invento…	0.03	-0.16	€7,363.89k	€6,652,653.0…	[[customer_a…
172,000,192	3,384.2	Delivered On…	Days Invento…	0.05	0.23	€50,825.06k	€3,189,364.7…	[[part_a_b_c…
171,797,920	3,349.2	Delivered On…	Days Invento…	0.05	0.23	€51,294.62k	€3,269,720.8…	[[invoice_doc…
171,730,720	3,349.2	Delivered On…	Days Invento…	0.05	0.23	€51,274.56k	€3,268,441.8…	[[supplier_a_…
160,876,304	3,136.3	PurExactDeli…	Days Invento…	0.07	0.26	€51,294.62k	€2,386,454.0…	[[invoice_doc…
160,813,376	3,136.3	PurExactDeli…	Days Invento…	0.07	0.26	€51,274.56k	€2,385,520.6…	[[supplier_a_…
152,162,416	2,993.8	PurExactDeli…	Days Invento…	0.07	0.26	€50,825.06k	€2,277,224.4…	[[part_a_b_c…
141,023,744	14,585.9	Delivered On…	Days Invento…	0.10	0.31	€9,668.50k	€1,458,552.4…	[[customer_i…
128,455,368	13,286.0	PurExactDeli…	Days Invento…	0.06	0.25	€9,668.50k	€2,082,220.8…	[[cus

And the Focus view gives the details behind the Ranker table. And all within seconds.



Instantly Live

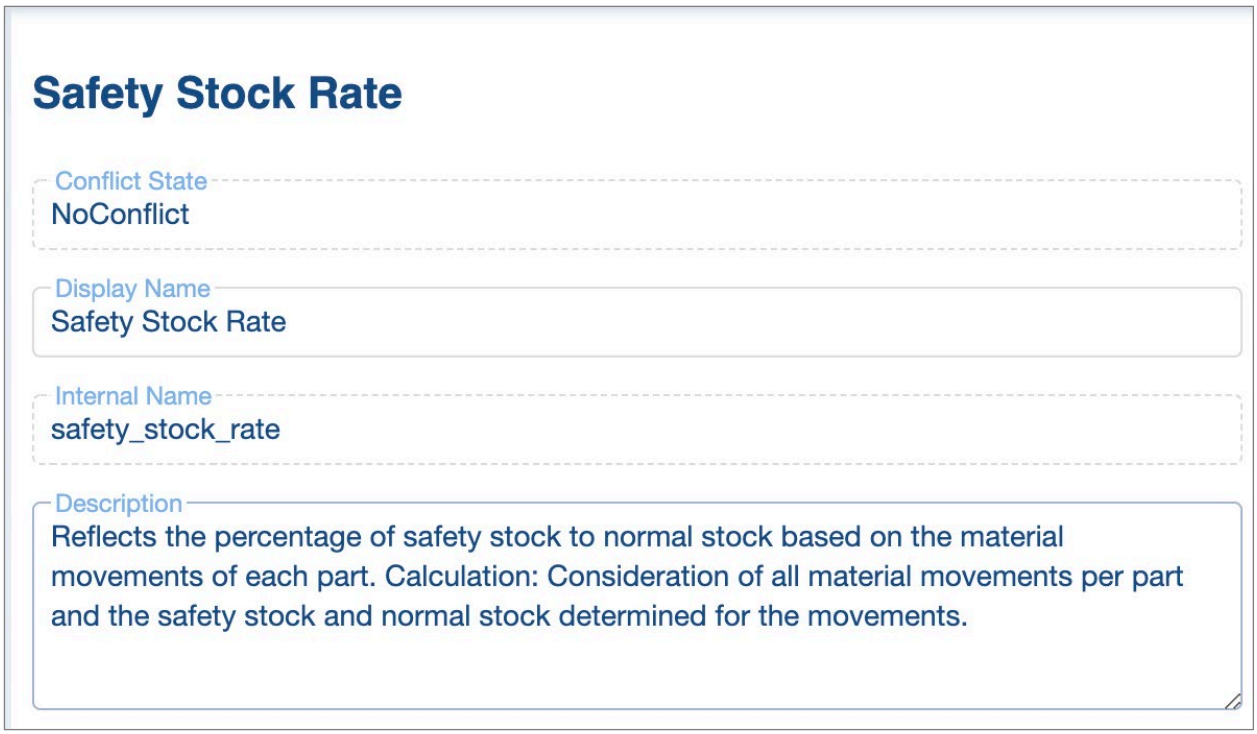
NEMO doesn't need any customization. Even chart-of-account or financial calendar are not needed for NEMO to function.

New and Changed Features

Metrics Descriptions (NEW and IMPROVED)

Leveraging customer feedback, the descriptions of all default metrics have been revised.

Here some examples:



List Price Deviation Rate

Conflict State
NoConflict

Display Name
List Price Deviation Rate

Internal Name
list_price_deviation_rate

Description
Reflects the percentage of cases where part prices in invoices differ from the list price of the parts. This can be used to analyze the influences of price deviations on other metrics. Calculation: The invoice prices are compared with the list prices of the parts and it is determined whether there is a deviation.

Early Payments Rate

Conflict State
NoConflict

Display Name
Early Payments Rate

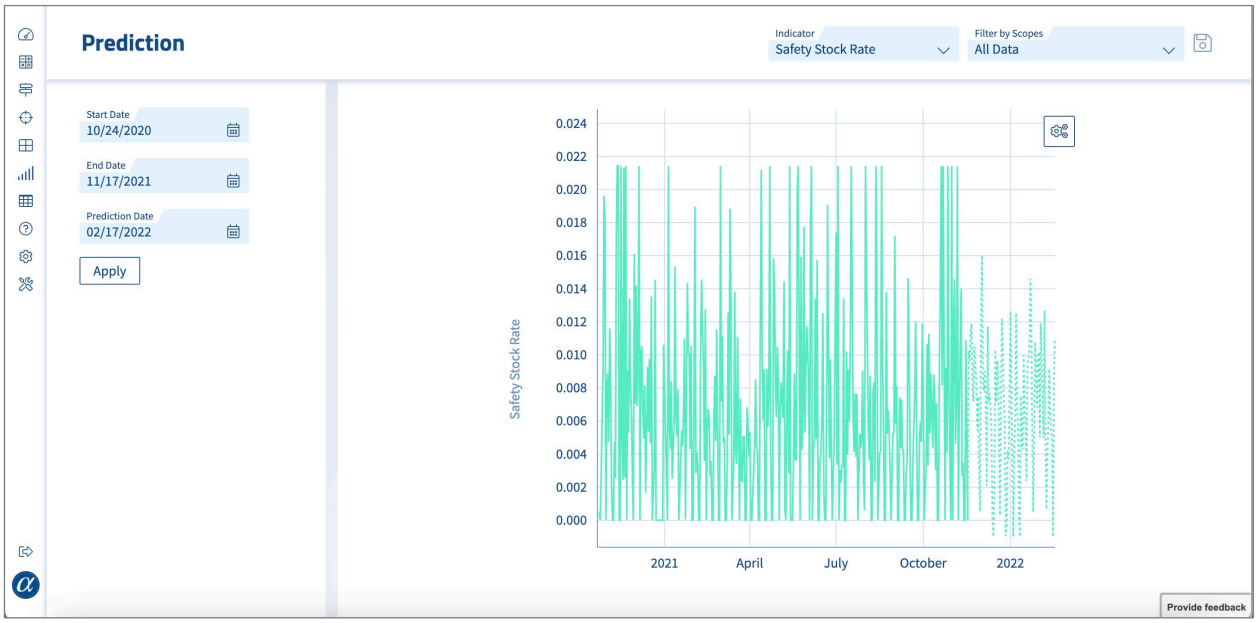
Internal Name
early_payments_rate

Description
The Early Payments Rate reflects the percentage of purchase invoices that were paid too early, i.e. before the last possible payment date. Thus, it is possible to optimize the capital and liquidity that is saved by delaying payments for supplier invoices. Calculation: For the determination, the actual payment date and the last possible payment date are considered.

Metrics (NEW and IMPROVED)

Safety Stock Ratio (IMPROVED)

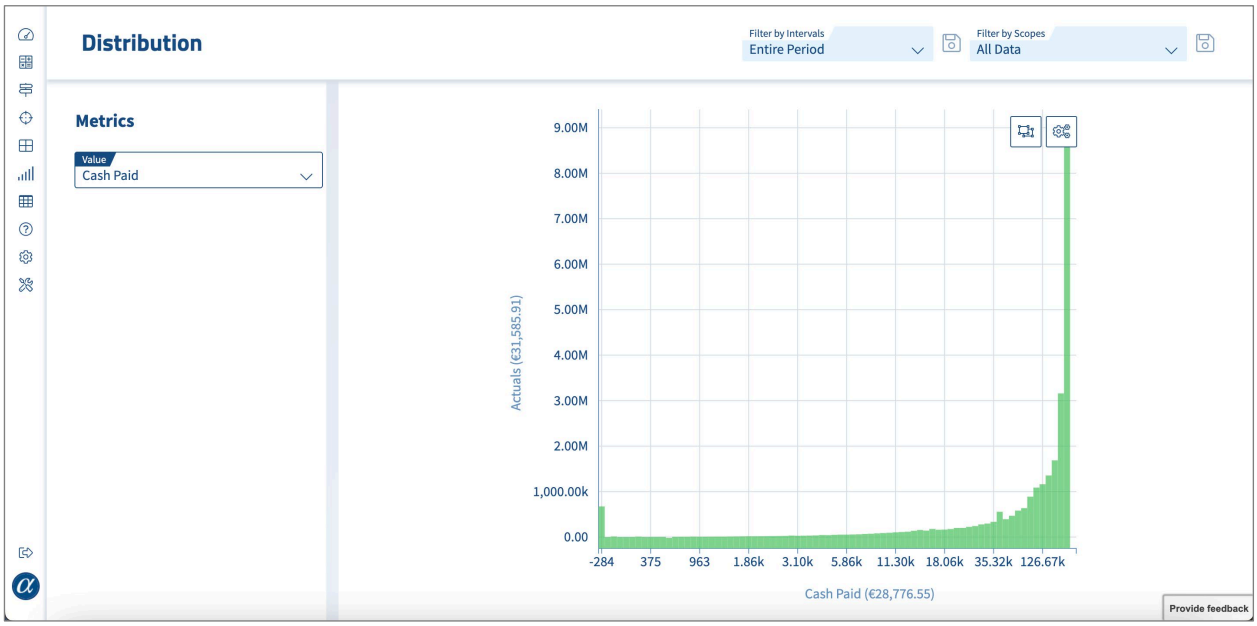
Based on customer feedback the default formulas have been changed slightly.

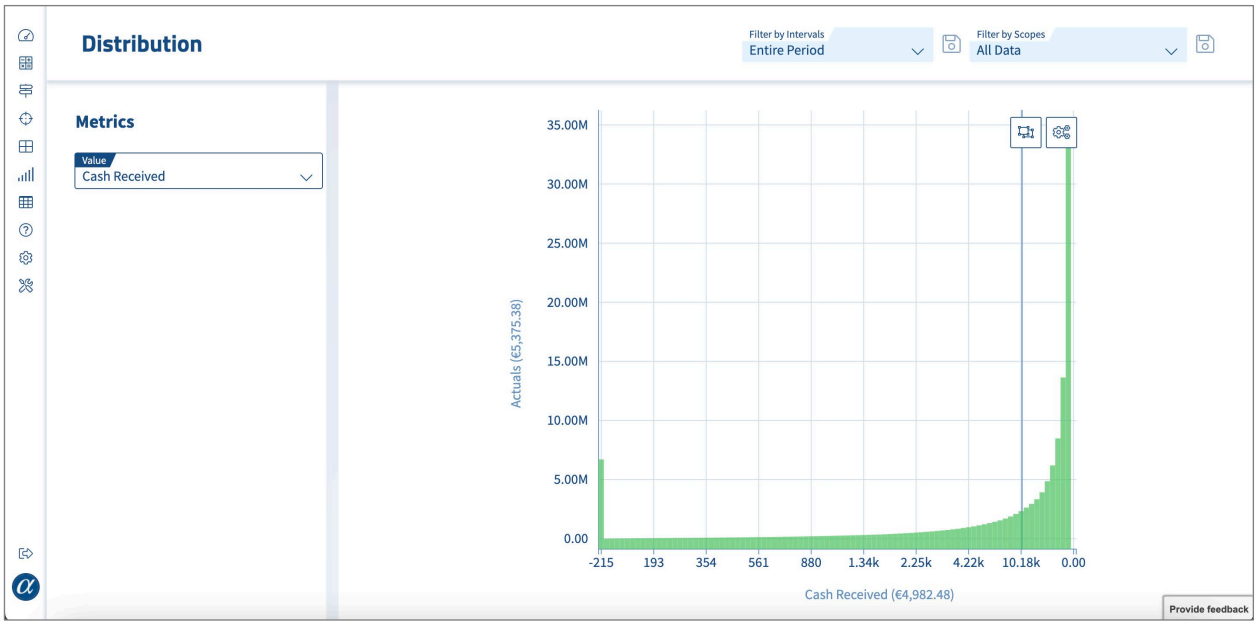


Cash Paid and Cash Received (NEW)

These metrics are in anticipation of future developments but may be also useful already as they are.

Cash Paid captures the actual payments to suppliers whereas Cash Received captures the actual payments by customers. Please note that these numbers are typically different from the respective (customer) invoices or the respective (supplier) purchasing invoices depending on the respective payment behavior of our customers or ourselves. These metrics represent the actual cashflow in and out of the company.

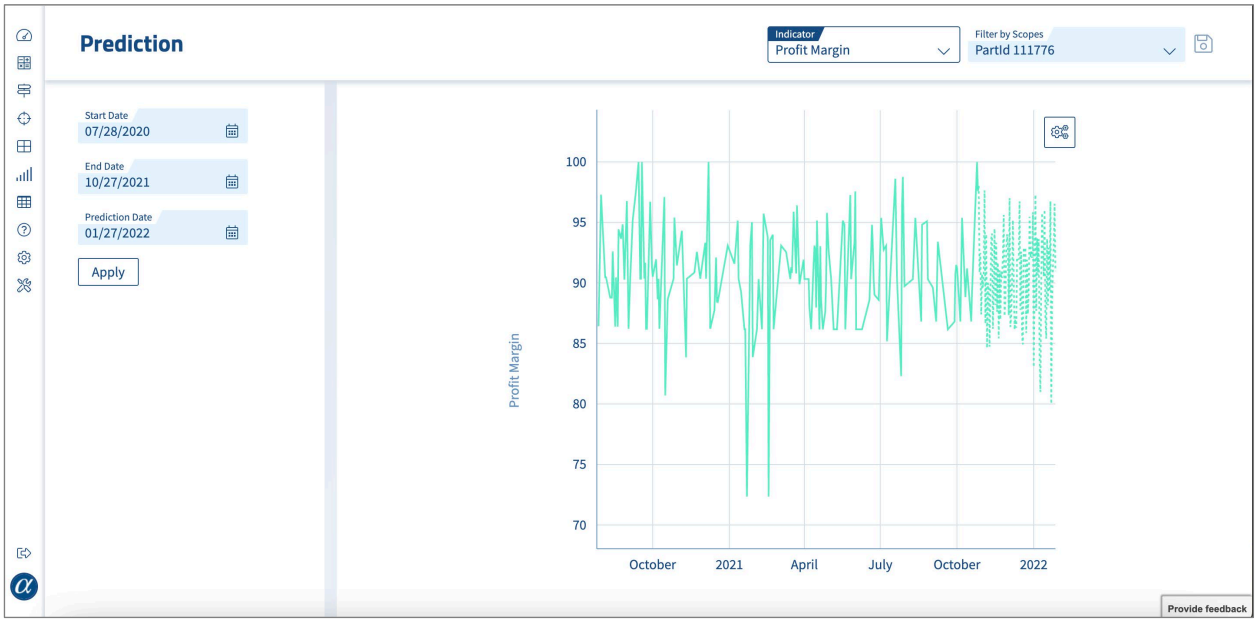


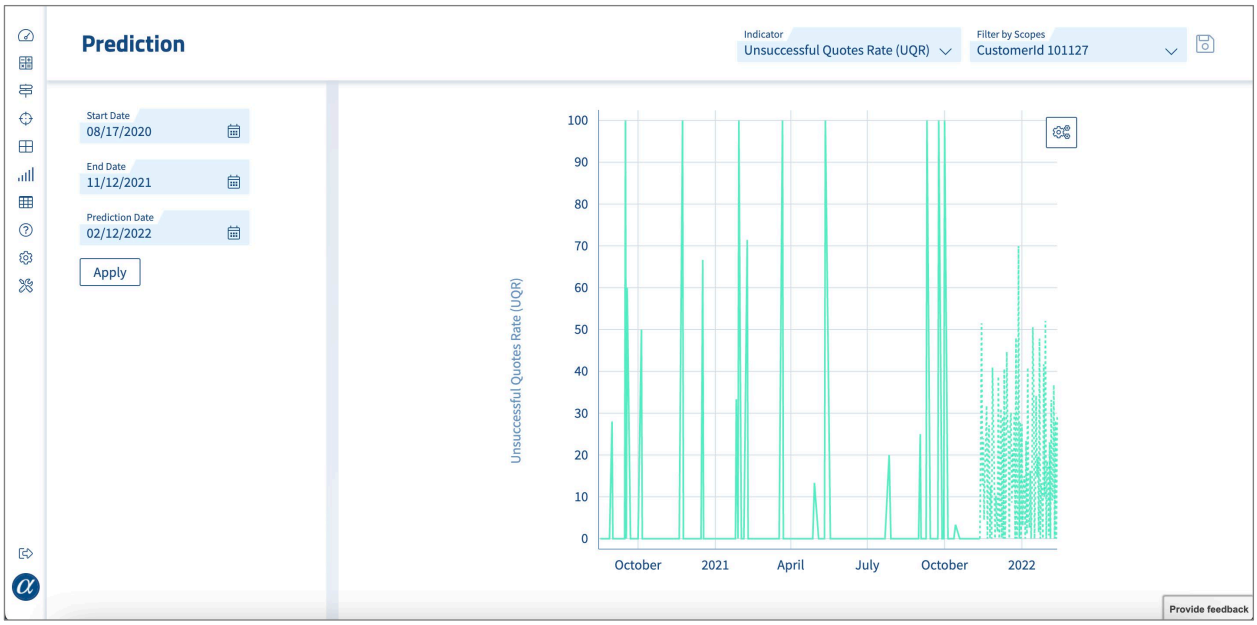


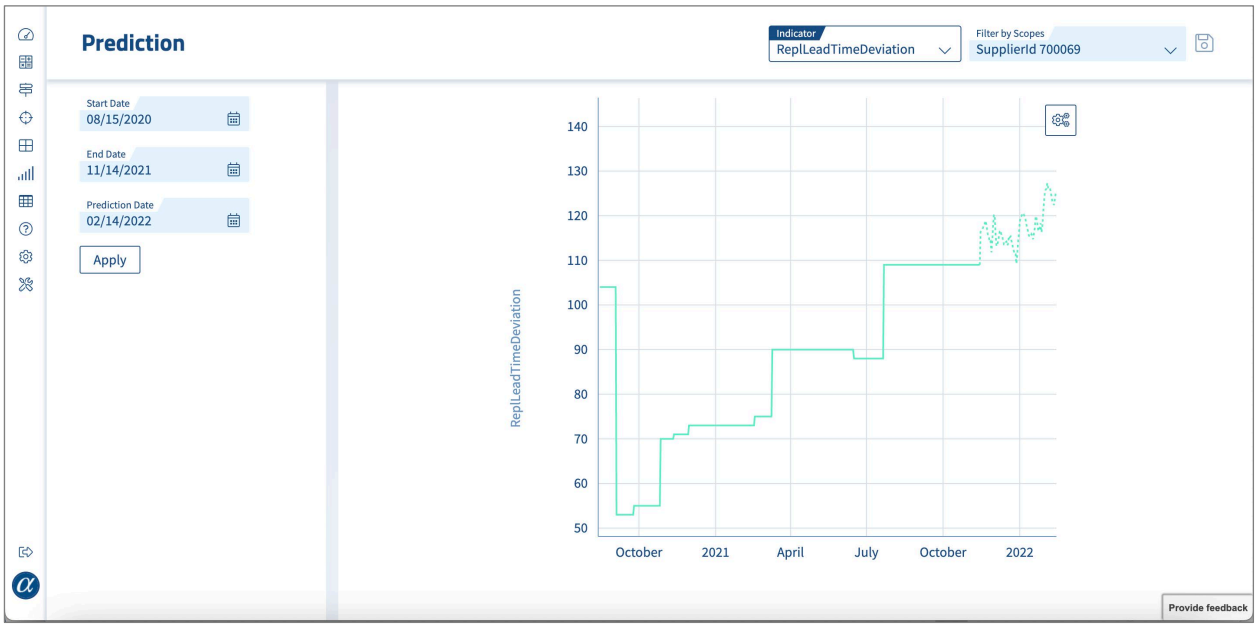
Please note that though Guider and Ranker (Crawler) function with these new metrics that the respective results might add only incremental value due to the nature of the congruence of invoice amounts and cash.

Auto Crawling (IMPROVED)

Triggered by customer feedback PartId, CustomerId and SupplierId are auto crawled by default now.







Please note that some of these individual master data scopes might be sparsely populated only. In consequence, Guider and Crawler algorithms might not function properly due to lack of data.

Exported Columns (NEW)

With this release we are laying the foundation for the integrated analysis of proALPHA ERP Project Management data. Projects detail further the order-to-cash (deliver) process by adding a plethora of new business events such as project milestones for examples. This suggests that new metrics might create new optimization opportunities.

In order to assess this emerging new capability we are providing the additional export columns here:

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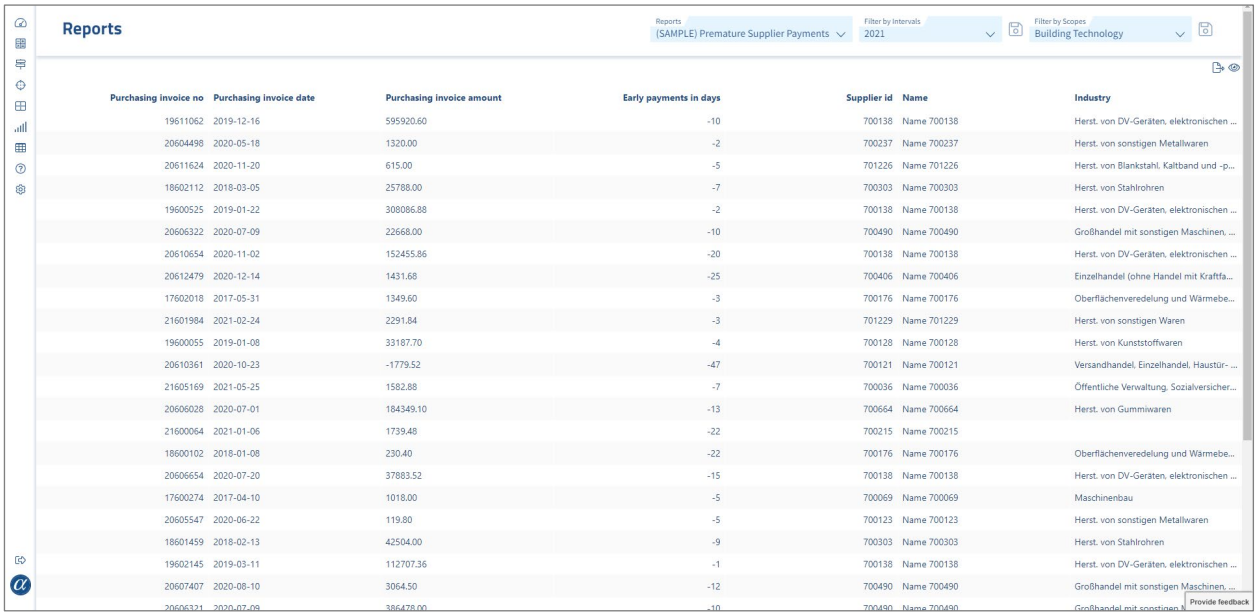
Reports (NEW and IMPROVED)

Intervals can now be applied to reports. Just like in the Guider and the Distribution apps start combining Intervals with Scopes to become even more flexible with your filtering of reports data.

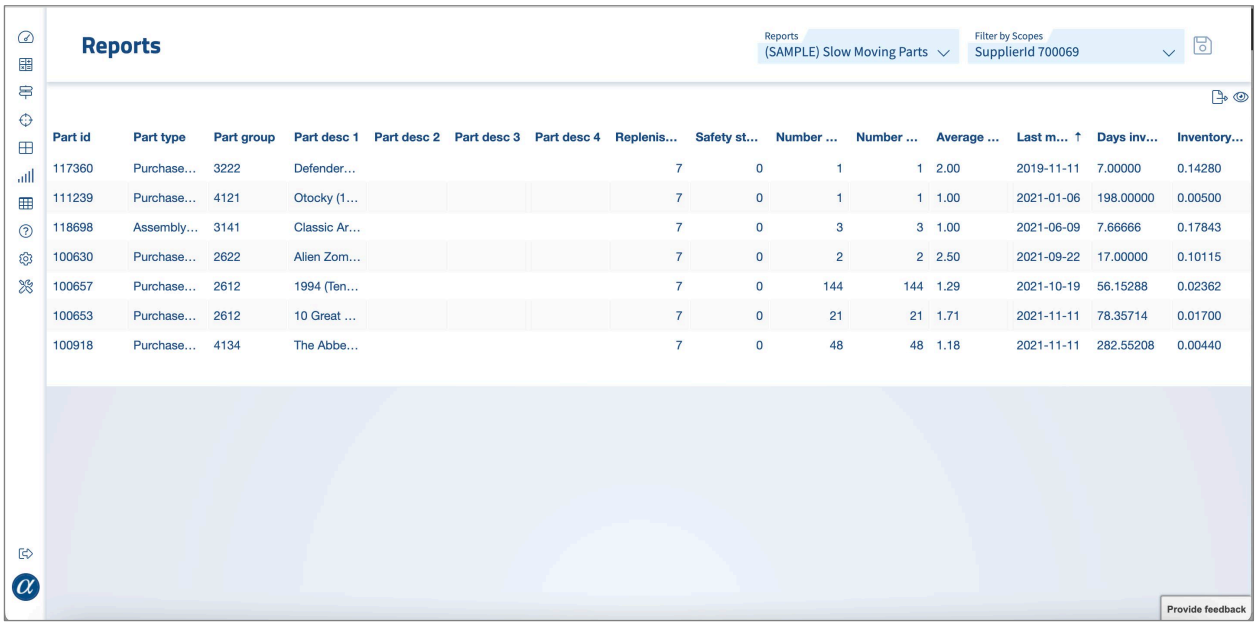


Purchasing invoice no	Purchasing invoice date	Purchasing invoice amount	Early payments in days	Supplier id	Name	Industry
19611062	2019-12-16	595920.60	-10	700138	Name 700138	Herst. von DV-Geräten, elektronischen ...
20604498	2020-05-18	1320.00	-2	700237	Name 700237	Herst. von sonstigen Metallwaren
20611624	2020-11-20	615.00	-5	701226	Name 701226	Herst. von Blankstahl, Kaltband und -p...
18602112	2018-03-05	25788.00	-7	700303	Name 700303	Herst. von Stahlrohren
19600525	2019-01-22	308086.88	-2	700138	Name 700138	Herst. von DV-Geräten, elektronischen ...
20606322	2020-07-09	22668.00	-10	700490	Name 700490	Großhandel mit sonstigen Maschinen, ...
20610654	2020-11-02	152455.86	-20	700138	Name 700138	Herst. von DV-Geräten, elektronischen ...
20612479	2020-12-14	1431.68	-25	700406	Name 700406	Einzelhandel (ohne Handel mit Kraftfa...
17602018	2017-05-31	1349.60	-3	700176	Name 700176	Oberflächenveredelung und Wärmebe...
21601984	2021-02-24	2291.84	-3	701229	Name 701229	Herst. von sonstigen Waren
19600055	2019-01-08	33187.70	-4	700128	Name 700128	Herst. von Kunststoffwaren
20610361	2020-10-23	-1779.52	-47	700121	Name 700121	Versandhandel, Einzelhandel, Haustür- ...
21605169	2021-05-25	1582.88	-7	700036	Name 700036	Öffentliche Verwaltung, Sozialversicher...
20606028	2020-07-01	184349.10	-13	700664	Name 700664	Herst. von Gummiwaren
21600064	2021-01-06	1739.48	-22	700215	Name 700215	
18600102	2018-01-08	230.40	-22	700176	Name 700176	Oberflächenveredelung und Wärmebe...
20606654	2020-07-20	37883.52	-15	700138	Name 700138	Herst. von DV-Geräten, elektronischen ...
17600274	2017-04-10	1018.00	-5	700069	Name 700069	Maschinenbau
20605547	2020-06-22	119.80	-5	700123	Name 700123	Herst. von sonstigen Metallwaren
18601459	2018-02-13	42504.00	-9	700303	Name 700303	Herst. von Stahlrohren
19602145	2019-03-11	112707.36	-1	700138	Name 700138	Herst. von DV-Geräten, elektronischen ...
20607407	2020-08-10	3064.50	-12	700490	Name 700490	Großhandel mit sonstigen Maschinen, ...
20606321	2020-07-09	386478.00	-10	700490	Name 700490	Großhandel mit sonstigen M...

Slow Moving Parts

“Slow-moving items are goods or products with a low turnover rate and are stored in the warehouse for much longer period. Due to the slowness in selling the goods, the slow-moving items are store or take space for long.” (https://www.saloodo.com/logistics-dictionary/slow-moving-items/).

This report shall help to identify parts which provide optimization potential.



Part id	Part type	Part group	Part desc 1	Part desc 2	Part desc 3	Part desc 4	Replenis...	Safety st...	Number ...	Number ...	Average ...	Last m... ↑	Days inv...	Inventory...
117360	Purchase...	3222	Defender...				7	0	1	1	2.00	2019-11-11	7.00000	0.14280
111239	Purchase...	4121	Otocky (1...				7	0	1	1	1.00	2021-01-06	198.00000	0.00500
118698	Assembly...	3141	Classic Ar...				7	0	3	3	1.00	2021-06-09	7.66666	0.17843
100630	Purchase...	2622	Alien Zom...				7	0	2	2	2.50	2021-09-22	17.00000	0.10115
100657	Purchase...	2612	1994 (Ten...				7	0	144	144	1.29	2021-10-19	56.15288	0.02362
100653	Purchase...	2612	10 Great ...				7	0	21	21	1.71	2021-11-11	78.35714	0.01700
100918	Purchase...	4134	The Abbe...				7	0	48	48	1.18	2021-11-11	282.55208	0.00440

(SAMPLE) Customer ABC Classification / (SAMPLE) Supplier ABC Classification – (IMPROVED)

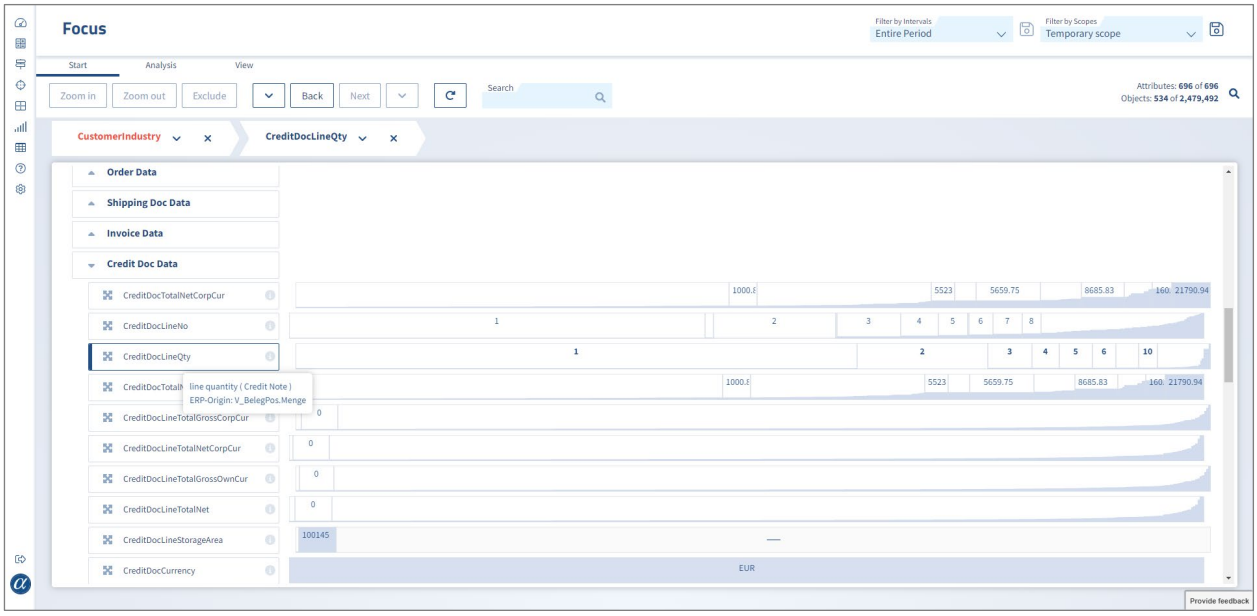
These two reports make now use of dynamic classification functions for each criterion.

(SAMPLE) Replenishment Time Analysis – (IMPROVED)

Three new columns were added to this report to show the average deviation of order confirmations for the last 1, 3 and 5 orders per part ID.

Focus (NEW and IMPROVED)

The description of an Exported Column is now being displayed as a tooltip in Focus.



Attributes can now be moved without the need to select them first.

Focus now fully supports usage on iPads.

Compatibility and Limitations

Compatibility

NEMO is compatible with all ERP releases from 6.1 onwards.

Functional Limitations

Following functionality is restricted as of now:

- WRR doesn't comprise production waste yet.
- Updating of Reports is not supported yet.
- Calculations of Driver and Indicators are not based on Intervals yet.

Component Status

- Project Management support is only available as prototype currently.
- Qlik integration doesn't function yet.

Known Issues

- None

Documentation

Apart from this Release Letter, the following documentation is available from pAWorld (https://paworld.proalpha.com/display/RN/Knowledge).

- NEMO Glossary 2022-06-24 (updated)
- NEMO Data Structure 2022-05-13 (no update)
- NEMO Formula Syntax 2022-05-27 (no update)

Availability

All customer environments as well as DEMO have been updated already.