

# NEMO Release Letter

Version 2022-06-10



# Content

Summary.....	1
Signature Features .....	2
Natural Performance Index (NPI) .....	2
Natural Leverage Index (NLI) .....	2
Unsupervised Learning .....	2
Meta-data Driven.....	3
Hyper-Dashboard.....	3
All Details.....	4
Instantly Live.....	5
New and Changed Features .....	6
Intervals (NEW) .....	6
Metadata Editor (IMPROVED) .....	8
Focus (IMPROVED) .....	9
Compatibility and Limitations.....	10
Compatibility.....	10
Functional Limitations.....	10
Component Status.....	10
Known Issues.....	10
Documentation.....	10
Availability.....	10

## Summary

As of May 27, 2022, proALPHA has released NEMO version 2022-06-10.

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 2022-06-10 features various error corrections and performance improvements. Also, various housekeeping improvements have been implemented.

Furthermore, NEMO 2022-06-10 provides new and improved capabilities triggered by customers:

- Intervals (NEW)
  - Time periods can be specified more easily now
- Sample Reports (NEW)
  - (SAMPLE) Belated Customer Invoices
  - (SAMPLE) Premature Supplier Payments
  - (SAMPLE) Tied Up Cash
- Sample Reports (IMPROVED)
  - (SAMPLE) Replenishment Time Analysis
- Metadata Editor (IMPROVED)
  - Autocomplete simplifies the editing of metadata drastically
- Focus (IMPROVED)
  - Searching for values
  - Highlighting of special Attributes

# 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.

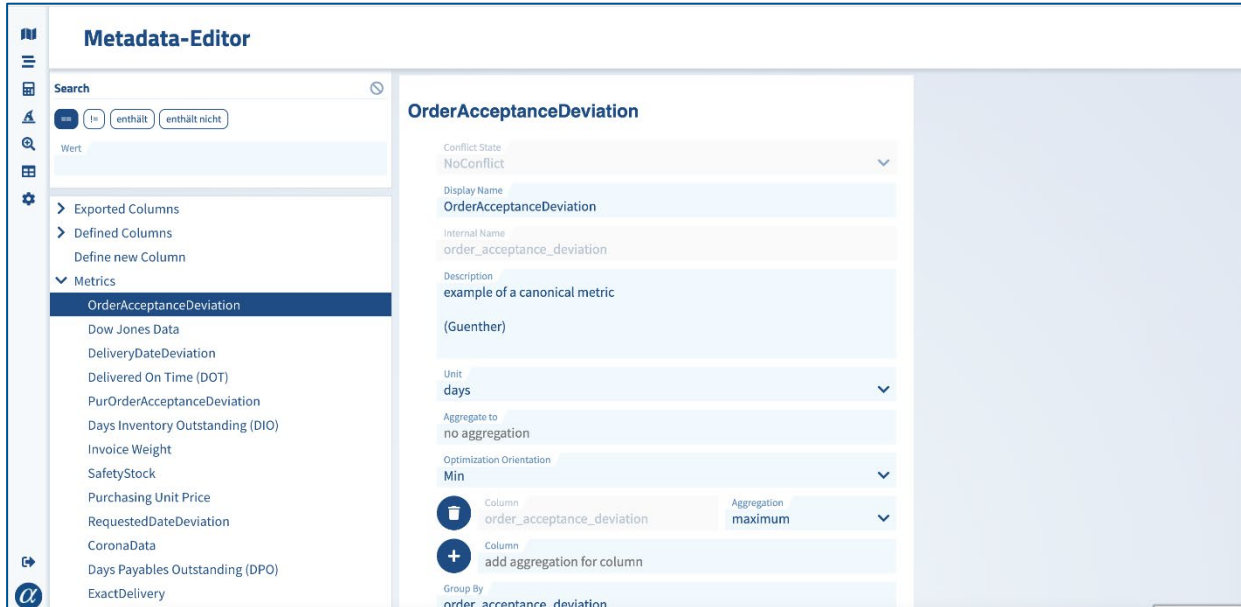
## Unsupervised Learning

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.

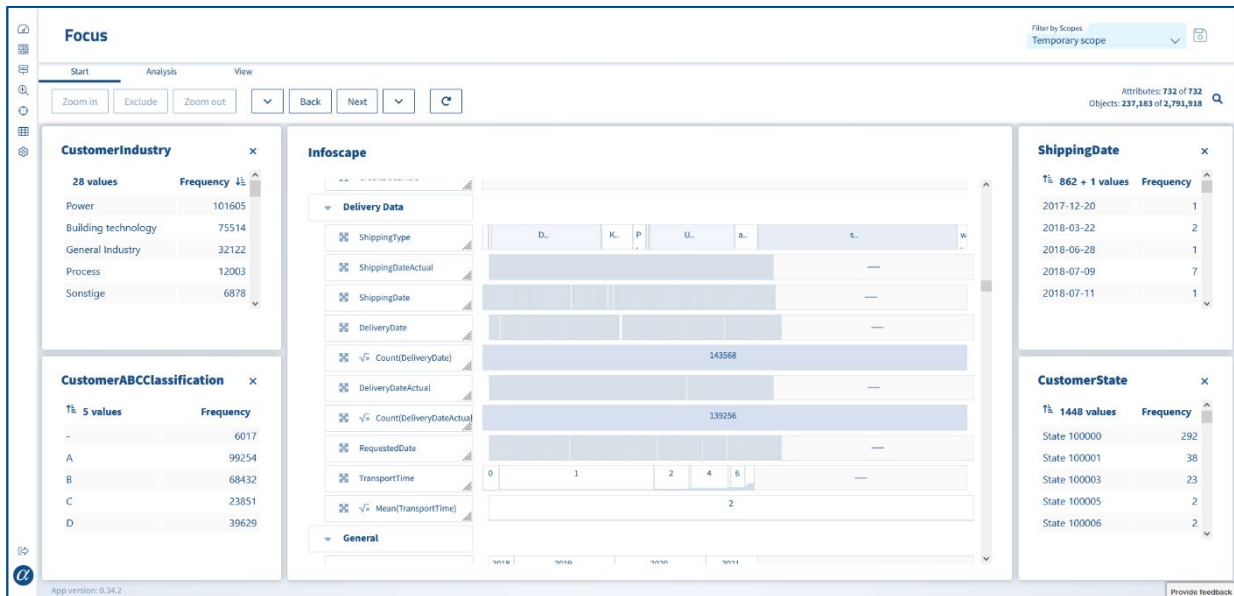
Here an example for the Payment Method Invoice. The Hyper-Dashboard provides an overview of the top measures for process improvements.



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	RepLeadTi...	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	RepLeadTi...	Days Invento...	0.02	-0.14	€14,787.66k	€13,503,370...	PaymentMet...
248,111,296	25,661.8	RepLeadTi...	Days Invento...	0.02	-0.19	€9,668.50k	€6,729,405.4...	[[customer_i...
205,359,856	14,796.7	RepLeadTi...	Days Invento...	0.04	-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	RepLeadTi...	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

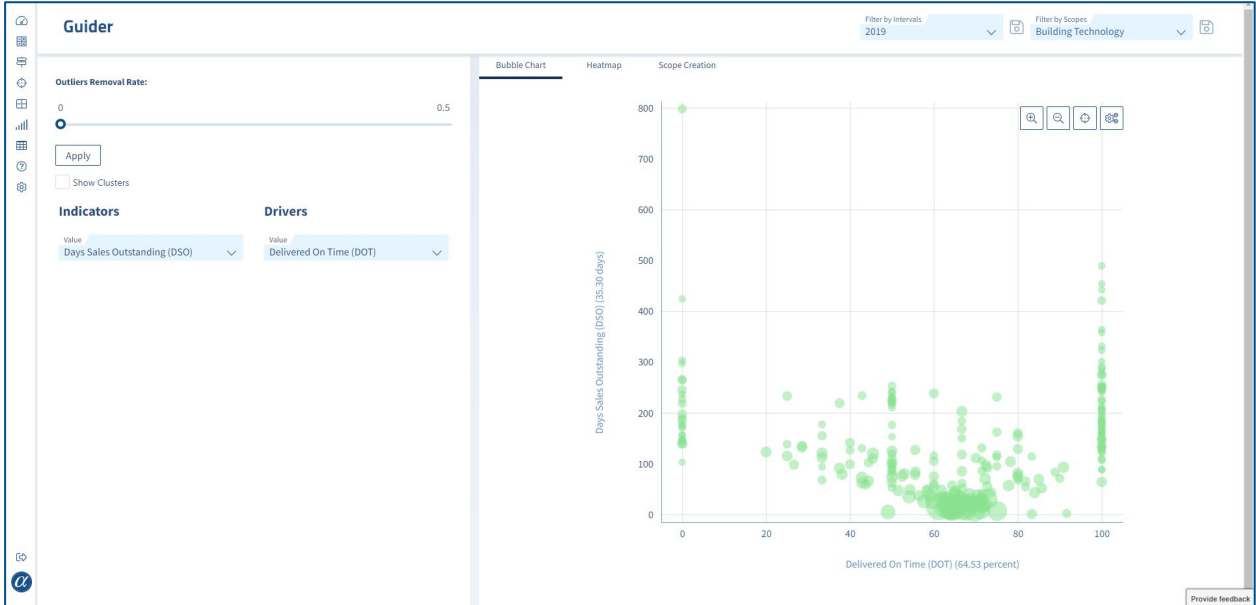
NEMO doesn't need any customization. Even chart-of-account or financial calendar are not needed for NEMO to function.

# New and Changed Features

## Intervals (NEW)

Intervals introduce a new facility of filtering data. Similar to Scopes but limited to exclusive restrictions on the Process Date they can be combined with Scopes to even more flexible filters.

Create Intervals just by selecting respective date ranges via Focus.



## Sample Reports (NEW and IMPROVED)

Based on customer feedback our sample reports have been enhanced and new ones have been added.

### (SAMPLE) Belated Customer Invoices (NEW)

Invoice no	Invoice date	Invoice amount	Late invoicing in days	Customer id	Name	Industry
21403814	2021-05-31	162.07	3	103174	Albus	Power
20402413	2020-04-06	471.33	2	100353	123gold.de	Building technology
20402414	2020-04-06	948.78	3	100353	123gold.de	Building technology
20402418	2020-04-06	23204.00	3	100580	1A	Building technology
20402421	2020-04-06	29987.10	3	100648	24h DVD Video Verleih	General Industry
20402426	2020-04-06	1673.20	3	100838	1-2-3-Rad	General Industry
20402428	2020-04-06	1188.28	3	100856	1000...schön, Schmuck & mehr	Process
20402432	2020-04-06	160.42	3	101271	1a autoservice Neustadt/Wied	Building technology
20402438	2020-04-06	1703.80	3	102386	AEZ	Building technology
20402803	2020-04-23	43475.40	1	101469	Agnes Haarstyling	General Industry
20402812	2020-04-27	1481.60	3	100036	18b Stadtbäckerei Junge	Building technology
20402813	2020-04-27	7994.40	3	100038	123 Allerlei	Building technology
20402818	2020-04-27	1753.96	3	100610	1a Autoservice Maik Leps	Building technology
20402820	2020-04-27	7060.84	3	100818	2-Rad Engels	General Industry
20402822	2020-04-27	626.02	3	100822	04 Buchhandlung Schütze	Building technology
20402825	2020-04-27	700.00	3	100888	99-Euro-Computer	Power
20402827	2020-04-27	560.00	3	100894	2-Rad-Knoblauch	Power
20402828	2020-04-27	1560.00	3	100894	2-Rad-Knoblauch	Power
20402829	2020-04-27	320.00	3	100894	2-Rad-Knoblauch	Power
20402832	2020-04-27	26905.20	3	101993	agro Landfleischerei	Power
19403929	2019-06-04	378015.00	1	101245	2radmobil	Power - Waste, Sludge
20403634	2020-05-29	5524390.08	2	100902	1a Autozorn	Oil + Gas - Storage
19403978	2019-06-05	18882.00	1	100833	1a Kleiner	Power



(SAMPLE) Premature Supplier Payments (NEW)

Reports							Reports	Filter by Scopes
							(SAMPLE) Premature Supplier Payments	All Data
Purchasing invoice no	Purchasing invoice date	Purchasing invoice amount	Early payments in days	Supplier id	Name	Industry		
19602230	2019-03-13	212429.00	-16	700215	Name 700215			
17608309	2017-11-14	19800.00	-14	700935	Name 700935	Handelsvermittlung		
19601244	2019-02-12	5946.36	-28	701005	Name 701005	Herst. von sonstigen Metallwaren		
18602480	2018-03-15	5241.60	-28	700209	Name 700209	Herst. von sonstigen Metallwaren		
18604687	2018-05-15	164768.00	-1	700082	Name 700082	Herst. von Stahlrohren		
18602031	2018-02-28	826375.20	-46	700664	Name 700664	Herst. von Gummiwaren		
19603550	2019-04-24	26110.32	-15	700215	Name 700215			
18610024	2018-10-30	782.04	-15	700117	Name 700117	Herst. von Maschinen für sonstige best...		
18602112	2018-03-05	114204.00	-82	700303	Name 700303	Herst. von Stahlrohren		
19603659	2019-05-01	7347.36	-52	700215	Name 700215			
19603461	2019-04-18	228244.80	-10	700215	Name 700215			
18602498	2018-03-15	9647.54	-29	700215	Name 700215			
17605315	2017-08-28	639.60	-2	700160	Name 700160	Herst. von Gummiwaren		
18605315	2018-06-04	3894.48	-15	700032	Name 700032	Herst. von Gummiwaren		
19600525	2019-01-22	2695760.20	-13	700138	Name 700138	Herst. von DV-Geräten, elektronischen ...		
19602914	2019-04-02	28153196.30	-31	700664	Name 700664	Herst. von Gummiwaren		
19606110	2019-07-09	2067.92	-14	700226	Name 700226	Herst. von sonstigen Metallwaren		
19610594	2019-12-29	70.35	-11	700655	Alltours	Verkehr und Lagerrei		
18601084	2018-02-02	7865987.60	-40	700664	Name 700664	Herst. von Gummiwaren		
19611331	2020-01-01	22180.00	-8	700756	Anders			
17601100	2017-05-02	3469681.00	-67	700664	Name 700664	Herst. von Gummiwaren		
19611062	2019-12-16	1462714.20	-33	700138	Name 700138	Herst. von DV-Geräten, elektronischen ...		
202006154	2020-07-06	9120.00	-12	700215	Name 700215		Provide feedback	

(SAMPLE) Tied Up Cash (NEW)

Reports														Reports	Filter by Scopes
														(SAMPLE) Tied Up Cash	All Data
Invoice doc no	Part id	Part product line	Part type	Part group	Part desc 1	Part desc 2	Part desc 3	Part desc 4	Days sales outsta...	Days inventory o...	Days payables ou...	Capital commitm...			
19403726	108370	4512	Purchased Parts	4512	10000000 (2012, EightyEightGa...				5.04	0.00	32.00	-26.96			
19404671	109851	4612	Purchased Parts	4612	Age of Adventure (1986, Electro...				48.23	22.00	15.00	55.23			
19404673	106572	4743	Purchased Parts	4743	Back to Skool (1985, Elite Syste...				22.13	36.00	15.00	43.13			
19404679	104373	4611	Purchased Parts	4611	5 Plus One: Pack 6 (1996, Prism ...				125.82	26.00	14.00	137.82			
19404686	103555	4611	Purchased Parts	4611	1994Pool+ (1994, Ninano Softw...				986.74	34.00	15.00	1005.74			
19406227	111774	4632	Purchased Parts	4632	1001 Nights: The Adventures of ...				672.41	254.00	31.00	895.41			
19406238	104408	4631	Purchased Parts	4631	100th Anniversary of the Crossw...				118.31	104.25	31.00	191.56			
19406257	313697	4652	Purchased Parts	4652	8 Ball Pool Champion (2010, Ma...				30.37	1947.10	16.00	1961.47			
19406260	116932	4641	Purchased Parts	4641	Atari Legends Vol. 3 (2006, iFon...				6.42	112.00	15.00	103.42			
20401169	303384	4611	Purchased Parts	4611	Fantastic Night Dreams: Cotton ...				14.14	0.50	30.00	-15.36			
20401170	107801	4622	Purchased Parts	4622	Adventure Pack (2004, MC2-Mic...				1.87	183.50	30.00	155.37			
20401171	104408	4631	Purchased Parts	4631	100th Anniversary of the Crossw...				1373.98	119.00	15.00	1477.98			
20401171	111774	4632	Purchased Parts	4632	1001 Nights: The Adventures of ...				1373.98	76.00	15.00	1434.98			
20401174	111283	3235	Purchased Parts	3235	1941: Counter Attack (1990, Cap...				133528.94	53.00	112.00	133469.94			
20403461	111318	3235	Purchased Parts	3235	A Lenda da G'Vea (1987, PRO KI...				9193.77	80.00	25.00	9248.77			
20403479	110621	4532	Purchased Parts	4532	5 Intelligent Strategy Games (19...				0.06	2.50	24.00	-21.44			
20403479	106594	4551	Purchased Parts	4551	House of Hell (2013, Tin Man Ga...				1.02	2.50	24.00	-20.48			
20403481	111774	4632	Purchased Parts	4632	1001 Nights: The Adventures of ...				61.94	63.00	9.00	115.94			
21401117	111774	4632	Purchased Parts	4632	1001 Nights: The Adventures of ...				71.68	120.50	9.00	183.18			
21401117	104408	4631	Purchased Parts	4631	100th Anniversary of the Crossw...				41.94	61.67	9.00	94.61			
21401117	108368	4512	Purchased Parts	4512	Abenteuer Atlantis (1992, Knorr...				18.56	22.75	9.00	32.31			
21401117	100655	2612	Purchased Parts	2612	The \$100,000 Pyramid (2001, Sie...				3.21	308.50	9.00	302.71			
21401118	119570	4611	Purchased Parts	4611	50 Mission Crash (1984, Strategi...				2202.80	5.13	122.00	2085.93	Provide feedback		

## (SAMPLE) Replenishment Time Analysis (IMPROVED)

Part id	Part group	Part type	Part desc 1	Part desc 2	Part desc 3	Part desc 4	Number of...	Min replen...	Replenish...	New reple...	Diff repleni...	Average pr...	Diff prepar...	Status	Percentage...	Replenish...	Preparatio...
340678	4741	10	2:G Darius (...)				2	0	42	6	-36	7	-35	Check	-85.71	40.00	36.00
340185	3413	10	2:Galaxy Def...				2	3	49	33	-16	43	-6	Check	-32.65	13.00	0.00
103663	4622	10	1:3D Armad...				6	0	7	33	26	20	13	Ok	371.42	5.81	10.29
347360	8192	10	2:Jane's Co...				7	0	42	13	-29	13	-29	Check	-69.04	13.47	12.25
101869	8133	10	1:Marvel Ulti...				34	0	7	53	46	4	-3	Check	657.14	1.22	6.79
107737	8311	17	1:MicroSoft ...				7	0	7	72	65	120	113	Ok	928.57	10.61	31.44
116507	8133	10	1:Mortal Ko...				68	0	14	26	12	31	17	Ok	85.71	2.44	1.47
101184	4515	10	A.G.E. (1991...				47	0	7	21	14	31	24	Ok	200.00	3.69	1.77
301996	1231	10	2:Chuck Yea...				44	0	7	10	3	9	2	Ok	42.85	5.49	5.18
348393	3251	10	2:Kaiser: Das...				2	0	70	66	-4	45	-25	Check	-5.71	20.00	2.00
340406	3412	10	1:Gunpey (1...				10	3	21	68	47	87	66	Ok	223.80	7.33	14.67
250108	2631	10	2:California ...				20	0	14	56	42	40	26	Ok	300.00	2.29	0.69
243420	4512	10	1942: The P...				257	0	7	36	29	27	20	Ok	414.28	0.63	1.00
10320	8423	19	1:Mayday C...				38	0	7	10	3	7	0	Ok	42.85	5.92	5.92
304948	3235	10	2:Ccgs (200...				15	0	7	40	33	15	8	Ok	471.42	1.60	7.48
333153	3319	10	2:MTV Sport...				2	3	154	32	-122	10	-144	Check	-79.22	14.00	33.00
345759	4623	10	2:hyper 3-D ...				5	0	42	3	-39	3	-39	Check	-92.85	21.50	20.00
100189	8133	10	1:Magic Pea...				12	0	7	8	1	9	2	Ok	14.28	11.46	10.25
112464	3219	10	Albion (199...				4	0	7	48	41	50	43	Ok	585.71	1.15	4.04
357882	4512	10	2:Monsters ...				2	0	42	32	-10	24	-18	Check	-23.80	14.00	19.00
100666	2612	10	1:The Mana...				16	0	7	22	15	24	17	Ok	214.28	6.20	4.91
305627	3234	10	2:Coloris (20...				24	0	56	183	127	189	133	Ok	226.78	28.57	30.44
341421	2223	10	2:Gaal Str...				4	0	56	20	-36	19	-37	Check	-64.28	15.01	11.01

## Metadata Editor (IMPROVED)

Autocomplete rounds out the ongoing metadata improvements.

### Metadata Editor

- ▶ Attribute Groups
- ▶ Intervals
- ▶ Exported Columns
- ▶ Defined Columns
- Define new Column
- ▶ Derived Columns
- ▶ Metrics
  - Define new Metric
- ▶ Scopes
- ▶ Reports
- Define new Report
- Static Information

PartType (part\_type)

PartMinReplenishmentTime (part\_min\_replenishment\_time)

PartDesc4 (part\_desc4)

PartTimeUnitReplenishment (part\_time\_unit\_replenishment)

PartABCClassification (part\_a\_b\_c\_classification)

PartReplenishmentTime (part\_replenishment\_time)

PartProductLine (part\_product\_line)

PartDesc3 (part\_desc3)

PartTypeDescription (part\_type\_description)

PartDesc1 (part\_desc1)

PartSingleSourced (part\_single\_sourced)

PartID (part\_i\_d)

---

Aggregate to  
part

Optimization Orientation  
Select...

+
Column  
add aggregation for column

Group By

Formula

Delete
Save

## Focus (IMPROVED)

Searching for values is now available.

Highlighting of special Attributes.

# 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

- 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 2022-06-10 (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.