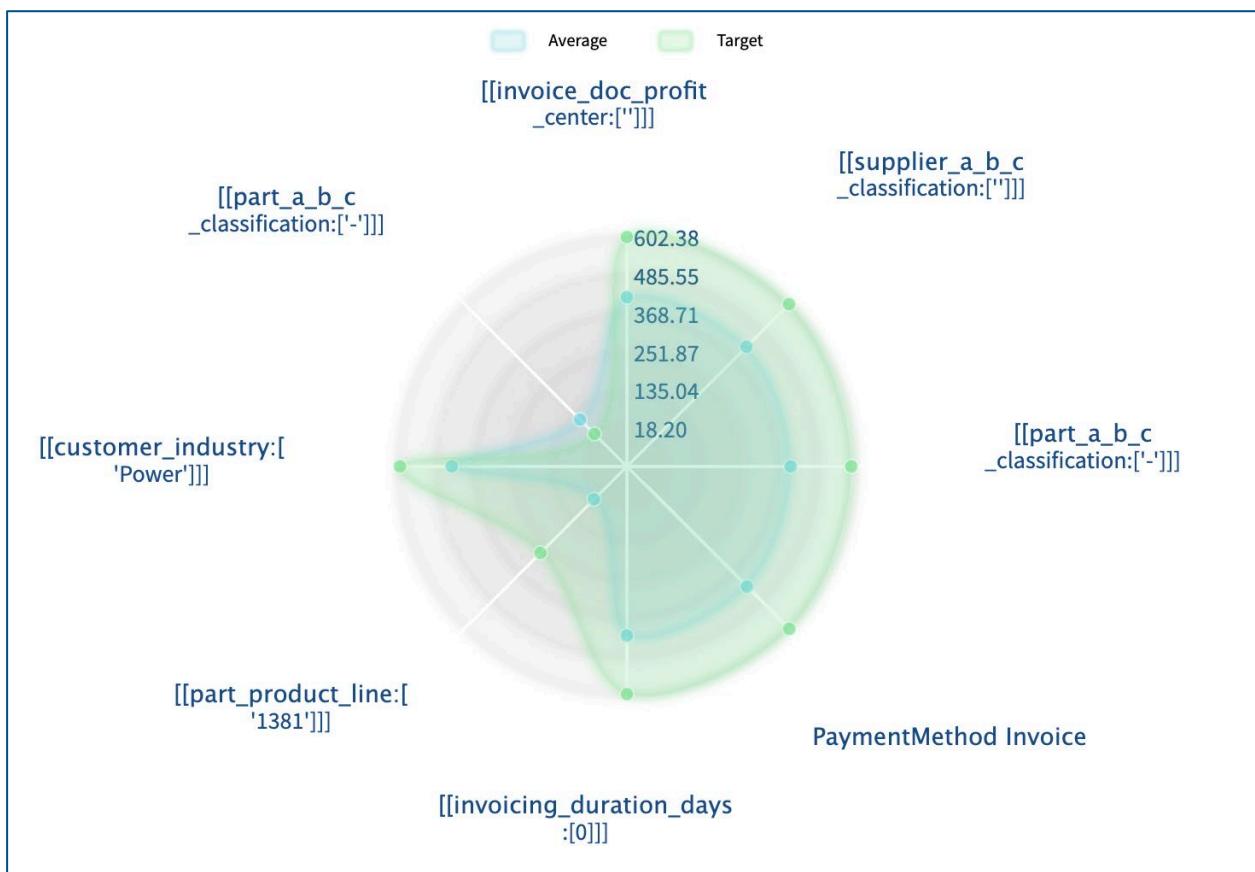


NEMO Release Letter

Version 2022-04-29



Content

Signature Features	3
Natural Performance Index (NPI)	3
Natural Leverage Index (NLI)	3
Unsupervised Learning	3
Meta-data Driven.....	4
Hyper-Dashboard	4
All Details	5
Instantly Live	6
New and Changed Features	7
Reports (NEW)	7
Scope Creation (IMPROVED)	10
First and Last column aggregations (IMPROVED)	10
Formula docu (IMPROVED)	11
Derived Columns (NEW).....	11
Deviation metrics (IMPROVED).....	12
Exported Columns (NEW)	13
Attribute Groups (IMPROVED)	20
Advanced Values Lists (NEW)	21
Compatibility and Limitations.....	22
Compatibility	22
Functional Limitations	22
Component Status.....	22
Known Issues.....	22
Documentation.....	22
Availability	22

Summary

As of April 29, 2022, proALPHA has released NEMO version 2022-04-29.

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 2022-04-29 features various error corrections and performance improvements. Also, various housekeeping improvements have been implemented.

Furthermore, NEMO 2022-04-29 provides new and improved capabilities triggered by customers:

- Reports (NEW)
Reports support the usage of database views in NEMO. This means that arbitrary data selections with built-in new column creation can be leveraged now.
- Scope Creation (IMPROVED)
Occurrence frequencies of distributions are depicted graphically now as well.
- First and Last column aggregations (IMPROVED)
To simplify the NEMO formula syntax First and Last got eliminated since they were redundant.
- Formula docu (IMPROVED)
Based on customer feedback we further simplified this document.
- Derived Columns (NEW)
This is a new metadata concept enabling simple single column aggregations. Currently it is supported by Focus only.
- Deviation metrics (IMPROVED)
Based on customer feedback we changed the deviation metrics columns aggregations from "max" to "mean" to become more precise.
- Exported Columns (NEW)
Based on customer feedback various new ERP fields have been added to the standard export.
- Attribute Groups (IMPROVED)
For future use the mimic of assigning attribute groups to exported columns has been changed.
- Advanced Values Lists (NEW)
Focus eases the management of chosen restriction criteria via Advanced Value Lists now.

Signature Features

Natural Performance Index (NPI)

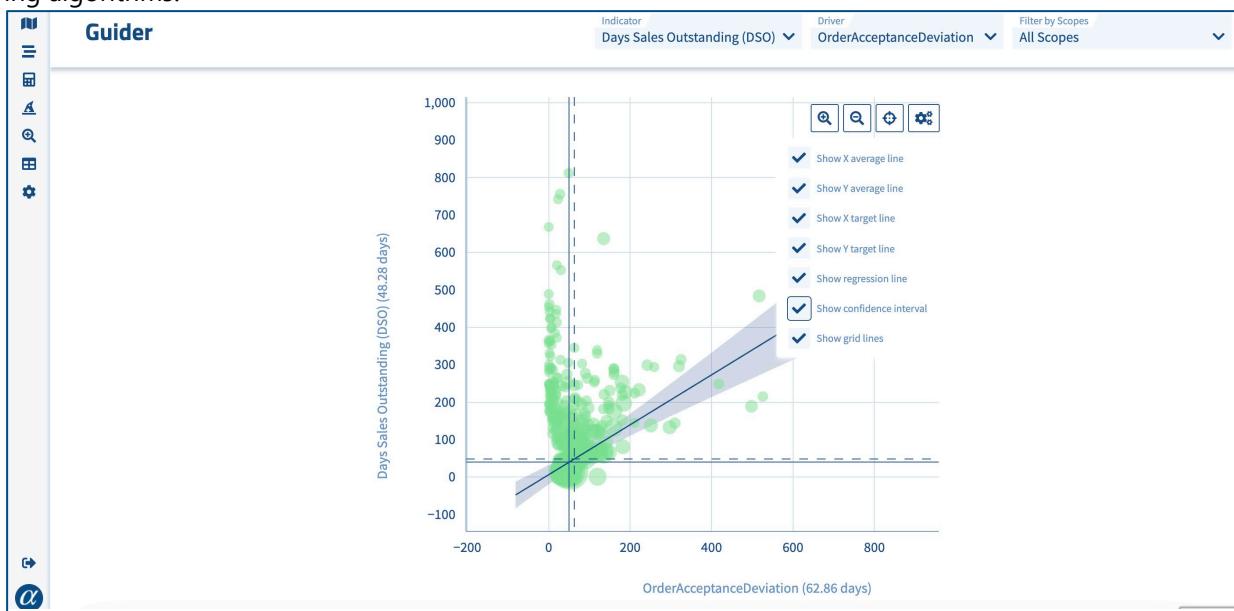
The NPI measures and ranks the fitness of a business. High NPIs indicate a significant improvement potential which is likely to be achieved. They help the user find and decide between the available optimization opportunities and are key to the daily decision support provided by NEMO.

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.

The screenshot shows the 'Metadata-Editor' interface. On the left, there's a sidebar with navigation icons and a search bar. Below the search bar is a tree view under 'Metrics' containing various business metrics like 'OrderAcceptanceDeviation', 'Dow Jones Data', etc. The 'OrderAcceptanceDeviation' node is selected and expanded. The main panel displays detailed configuration for this metric, including:

- Conflict State:** NoConflict
- Display Name:** OrderAcceptanceDeviation
- Internal Name:** order_acceptance_deviation
- Description:** example of a canonical metric
- (Guenther)**
- Unit:** days
- Aggregate to:** no aggregation
- Optimization Orientation:** Min
- Column:** order_acceptance_deviation (Aggregation: maximum)
- Add aggregation for column:** add aggregation for column
- Group By:** order acceptance deviation

Hyper-Dashboard

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

The screenshot shows the 'Hyper-Dashboard' interface. On the left, there's a sidebar with navigation icons and a search bar. Below the search bar is a tree view under 'Metrics' containing various business metrics like 'OrderAcceptanceDeviation', 'Dow Jones Data', etc. The main panel displays a circular correlation matrix titled 'Best Opportunities to optimize indicators (by improving drivers)'. The matrix has four quadrants representing different combinations of average and target values. The quadrants are labeled:

- Top Left: [[transport_time:[15]]]
- Top Right: [[customer_industry:['Building technology']]]
- Bottom Left: [[part_type:[60]]]
- Bottom Right: [[customer_industry:['Power']]]

Each quadrant contains several data points represented by blue dots, with numerical values like -8279064.35, -7784403.59, -7289062.83, -6794052.08, -6299061.32, -5804060.56, etc., associated with them.

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.

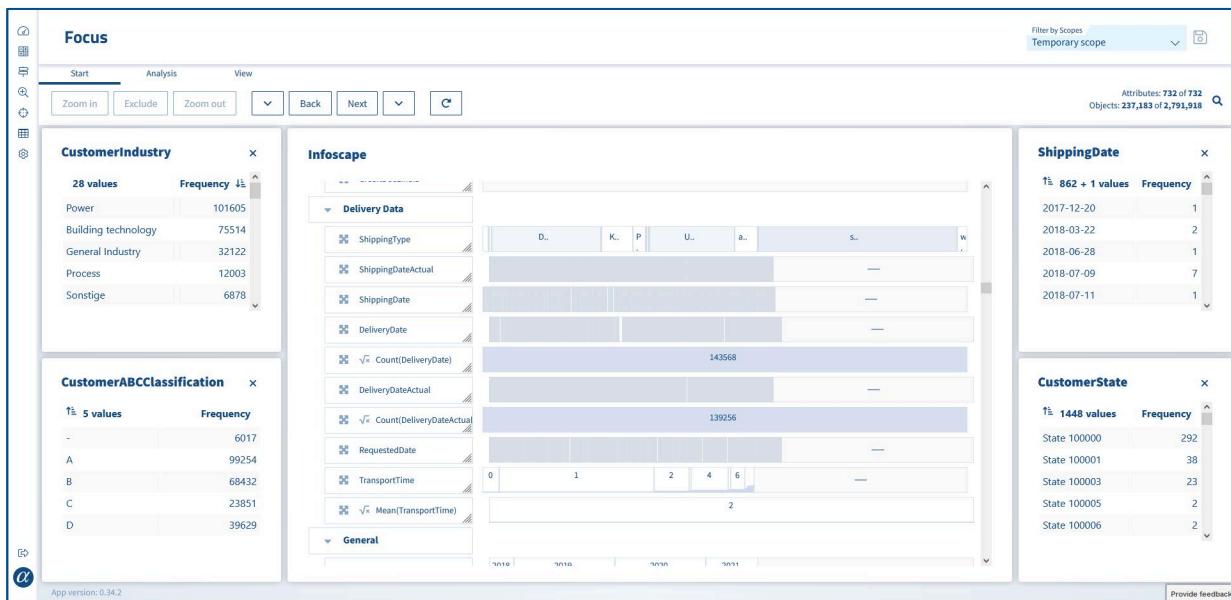
Here an example for the Payment Method Invoice. The Hyper-Dashboard provides an overview of the top measures for process improvements.



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

R Squared:	NPI	NLI	Driver	Indicator	R Squared	Correlation	Actuals	Gain	Scope
0	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

Reports (NEW)

Reports support the usage of database views in NEMO. This means that arbitrary data selections with built-in new column creation can be leveraged now.

Under Reports in the Metadata editor you find the "Define new Report" facility.

The screenshot shows the Metadata Editor interface. On the left, there is a sidebar with various icons and a tree view of report components. The 'Reports' section is expanded, showing items like 'Customer ABC', 'Replenishment Time', etc. A sub-menu under 'Reports' has 'Define new Report' selected. The main area is titled 'Define new Report' and contains fields for 'Display Name' (set to 'report display name'), 'Internal Name' (set to 'report internal name'), 'Description' (set to 'report description'), and 'Query syntax' (set to 'report query syntax'). At the bottom right are 'Delete' and 'Save' buttons.

Here you can type in the query syntax of your Report.

The screenshot shows the Metadata Editor interface with a completed report definition. The sidebar shows 'Better Part List' selected. The main area is titled 'Better Part List' and contains fields for 'Conflict State' (set to 'NoConflict'), 'Display Name' (set to 'Better Part List'), 'Internal Name' (set to 'better_part_list'), 'Description' (set to 'report description'), and 'Query syntax' (containing a SQL SELECT statement). Below the query syntax, there are 'Changed Date' (04/21/2022 09:49:35), 'Changed By' (tolkmit_g), 'Creation Date' (04/21/2022 09:49:35), and 'Created By' (tolkmit_g). At the bottom right are 'Delete' and 'Save' buttons.

Here an example of a Report providing a list of all parts.

To view the Report you have to launch the new Report Viewer.

The screenshot shows the 'Metadata Editor' interface. On the left, there's a sidebar with various icons and a tree view under 'Reports' containing items like 'Customer ABC', 'Replenishment Time', 'Supplier A B C', 'Parts List', 'Parts', and 'Better Part List'. The 'Better Part List' item is selected. The main panel is titled 'Better Part List' and contains the following details:

- Conflict State:** NoConflict
- Display Name:** Better Part List
- Internal Name:** better_part_list
- Description:** report description
- Query syntax:**

```
SELECT DISTINCT
part_i_d AS Id,
part_type AS Type,
part_type_description AS Type_Description,
```
- Changed Date:** 04/21/2022 09:49:35
- Created By:** tolkmit_g

At the bottom right are 'Delete', 'Save', and 'Provide feedback' buttons.

Here you can select the Report to be run.

The screenshot shows a 'Reports' page with a list of reports. The columns are 'Id', 'Name', 'Previous abc', and 'New abc'. The list includes:

100967	01 Sky	D	C
100038	04 Buchhandlung Schütze	B	C
100703	1000 Körner	A	A
100561	1000 Weine	C	D
100208	06 Modehaus Nikolaus	D	C
100537	1000 kleine dinge	C	B
102191	10 Euro Friseur	D	B
100051	11 Länder	B	C
100814	1-2-3 Autoservice	A	C
101191	1 2 3 Küchen	A	C
100488	11 Schreibwaren Klein	C	C
100769	1a Autohaus Denker und Brünen	C	C
100962	1A	D	C
100919	1A Autoservice Müller	B	B
100000	1a Autoservice Schubert	D	D
100464	1a Autozorn	D	B

A context menu is open over the 'Customer ABC' report, listing other report options: Customer ABC, Replenishment Time, Supplier A B C, Parts List, Parts, and Better Part List. At the bottom right are 'Delete', 'Save', and 'Provide feedback' buttons.

Selecting "Better Part List" yields following results.

The screenshot shows a report viewer interface with a sidebar containing various icons. The main area displays a table with columns: Id, Type, Type description, Product line, and Abc. The data rows correspond to the items listed in the 'Better Part List' dropdown menu above the table. The table has 38 rows of data.

	Type	Type description	Product line	Abc
105746	10	Purchased Parts	4623	-
18668300	9	End Product	ZVV	-
10076	61	Cost/Service Part	1381	-
13343800	9	End Product	1922	-
116240	10	Purchased Parts	4131	-
102027	10	Purchased Parts	4522	C
235877	10	Purchased Parts	4511	C
116238	10	Purchased Parts	4131	-
330209	5	Assembly General	3245	-
13327800	9	End Product	1212	-
13349300	9	End Product	1211	-
13349900	9	End Product	1212	-
13350300	9	End Product	1212	-
13350700	9	End Product	1212	-
13350900	9	End Product	1212	-
13351100	9	End Product	1211	-

Please note that the Report Viewer is based on our new grid meaning you can sort on columns for example and export the data to Excel as well.

The screenshot shows an Excel spreadsheet with the same data structure as the report viewer. The columns are labeled A, B, C, D, and E. The data consists of 38 rows of information, matching the entries in the 'Better Part List' report. The Excel interface includes standard toolbar and ribbon options.

A	B	C	D	E
10076	61	Cost/Service Part	1381	-
18668300	9	End Product	1922	-
116240	10	Purchased Parts	4131	-
102027	10	Purchased Parts	4522	C
235877	10	Purchased Parts	4511	C
116238	10	Purchased Parts	4131	-
330209	5	Assembly General	3245	-
13327800	9	End Product	1212	-
13349300	9	End Product	1211	-
13349900	9	End Product	1212	-
13350300	9	End Product	1212	-
13350700	9	End Product	1212	-
13350900	9	End Product	1212	-
13351100	9	End Product	1211	-
13267800	9	End Product	1211	-
14249700	9	End Product	1124	-
103508	10	Purchased Parts	2651	-
12358400	9	End Product	1216	-
13357700	9	End Product	1211	-
131776	10	Purchased Parts	4632	-
100074	56	ServiceItem	1311	-
116215	10	Purchased Parts	1313	-
100346	10	Purchased Parts	5111	C
116995	10	Purchased Parts	1311	-
112408	5	Assembly General	2999	-
13349800	9	End Product	1212	-
13350000	9	End Product	1212	-
13350400	9	End Product	1212	-
13350600	9	End Product	1212	-
13350800	9	End Product	1212	-
12828200	9	End Product	1124	-
106081	10	Purchased Parts	1111	D
13350700	9	End Product	1211	-
13350902	5	Assembly General	2513	-
117686	10	Purchased Parts	2999	-

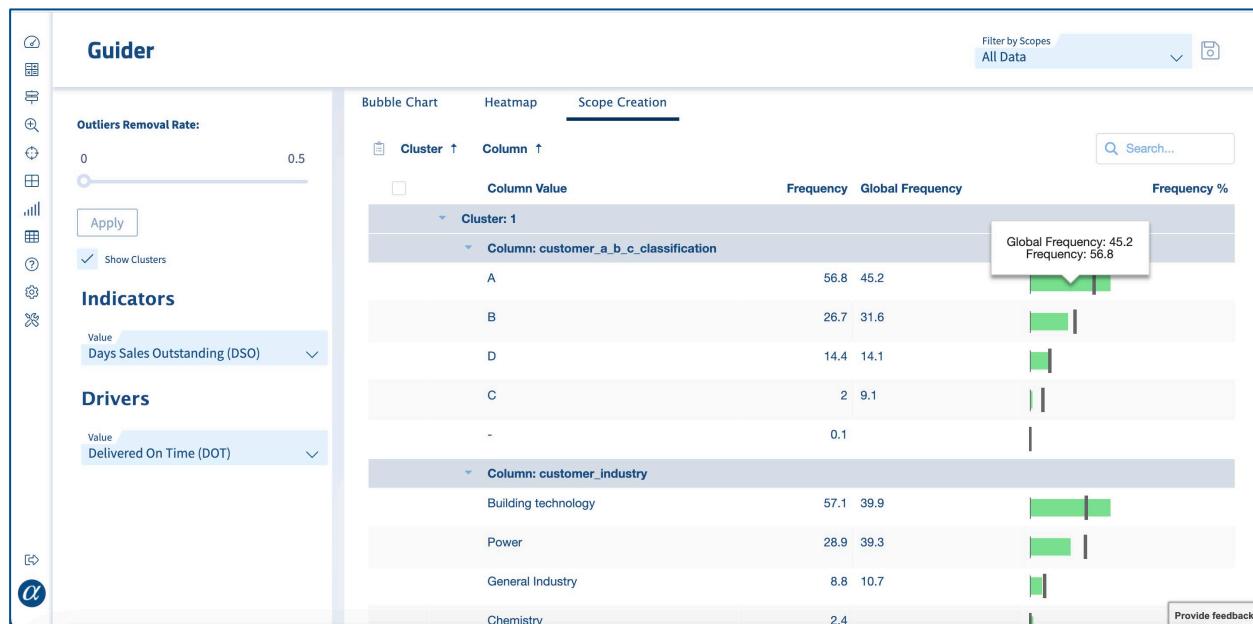
To familiarize yourselves with Reports we have provided a few sample Reports. Feel free to try them out.

Reports

Id	Replenishment time	Min replenishment time	Replenishment time new	Diff replenishment	Replenishment Time Analy...
111776	7	0	28	21	3
116908	7	0	31	24	3
105501	7	0	28	21	3
118577	7	0	4	-3	0
111774	7	0	21	14	2
106082	7	0	73	66	9
105836	7	0	11	4	0
105730	7	0	45	38	5
104259	7	0	36	29	4
105732	7	0	43	36	5
111774	7	0	21	14	2
105730	7	0	45	38	5
104259	7	0	36	29	4
105732	7	0	43	36	5
111774	7	0	21	14	2
108171	7	0	14	7	

Scope Creation (IMPROVED)

Occurrence frequencies of distributions are depicted graphically now as well.



First and Last column aggregations (IMPROVED)

To simplify the NEMO formula syntax First and Last got eliminated since they were redundant.

All affected proALPHA metrics have been corrected already. In case your metrics are making use of this no more available syntax those need to be corrected manually.

Formula docu (IMPROVED)

Based on customer feedback we further simplified the formula documentation.

Please inquire with your proALPHA consultant in case you didn't get it automatically.

Derived Columns (NEW)

This is a new metadata concept supporting simple single column aggregations.

The screenshot shows the 'Metadata Editor' interface. On the left, there's a sidebar with various icons and a search bar labeled 'Filter by Name' with the input 'count'. Below the search bar is a list of items: 'PaymentCashDiscountDueDate1', 'PaymentCashDiscountDueDate2', 'PurInvLineAccount', 'SupplierCountry', 'Defined Columns', 'Define new Column', 'Derived Columns' (which is expanded), 'Count(Company)', 'Count(CustomerIndustry) per CustomerCountry', 'Count(CustomerABCClassification)', 'Count(ShippingDocNo) per ShippingDocDate', 'Count(OrderDocNo)', 'Count(InvoiceDocNo)', 'Count(ShippingDocNo)', 'Count(DAXValue)', 'Count(MvmtAverageCostsLaborVar)', 'Count(MvmtValueAdd2Fix) per MvmtValueAdd2V', 'Define new Column', 'Metrics', 'Define new Metric', 'Scopes', 'Reports', and 'Define new Report'. The 'Derived Columns' section is currently selected. To the right, a detailed view of the 'Count(Company)' derived column is shown. It includes fields like 'Conflict State' (set to 'NoConflict'), 'Display Name' ('Count(Company)'), 'Internal Name' ('count_company'), 'Description' ('column description'), 'Unit' ('without unit'), 'Data Type' ('integer'), 'Formula' ('column formula'), 'Attribute Group Internal Name' ('global_data'), 'Function' ('CountDistinct'), 'Source Column Id' ('d57e7e0e-befd-46fa-85ed-18ff3201194'), 'Source Column Internal Name' ('company'), and 'Group By Column Id' ('column_group_by_column_id'). A 'Provide feedback' button is located at the bottom right of this panel.

The screenshot shows the Focus interface with the following details:

- Top Bar:** Filter by Scopes (All Data), Attributes: 605 of 605, Objects: 2,791,918 of 2,791,918.
- Left Sidebar:** Includes icons for Home, Overview, Analysis, View, and a search bar labeled "Aggregate".
- Content Area:**
 - A list of objects with their values: CorporateCurrency (EUR), OwnCurrency (EUR), Company (100), Count(Company) (1), ProcessID (PA2210:z:0..), ProcessLinkage (—), ExportDateTo (2021-10-09T00:00:00).
 - Category sections: **Invoice Data**, **Make / Movements**, and **Movement Data**.
- Bottom:** Frontend: 0.40.7, Backend: 0.3.5, 2022-04-27 14:08:05, Provide feedback button.

Currently it is supported by Focus only.

Deviation metrics (IMPROVED)

Based on customer feedback we changed the deviation metrics columns aggregations from "max" to "mean" to become more precise.

The screenshot shows the Metadata Editor with the following configuration for the Order Acceptance Deviation metric:

- Left Sidebar:** Filter by Name, Exported Columns, Defined Columns, Derived Columns, Metrics (selected), and a list of other metrics like Waste Reduction Rate (WRR), Profit Margin, Order Acceptance Deviation, etc.
- Right Panel:**
 - Order Acceptance Deviation:**
 - Conflict State: NoConflict
 - Display Name: Order Acceptance Deviation
 - Internal Name: order_acceptance_deviation
 - Description: example for a canonical metric
 - Unit: days
 - Aggregate to: no aggregation
 - Optimization Orientation: Min
 - Column: order_acceptance_deviation (Aggregation: mean)
 - + add aggregation for column
 - Group By: order_acceptance_deviation
 - Formula: mean(order_acceptance_deviation)
- Bottom:** Provide feedback button.



Exported Columns (NEW)

Based on customer feedback various new ERP fields have been added to the standard export:

```
# part_data:
[
  {
    "id": "",
    "internalName": "part_archived",
    "displayName": "PartArchived",
    "description": "value shows if a part is archived #ERP-Origin: S_Artikel.archiviert",
    ...
  },
  {
    "id": "",
    "internalName": "part_group",
    "displayName": "PartGroup",
    "description": "group of part #ERP-Origin: S_Artikel.Artikelgruppe",
    ...
  },
  {
    "id": "",
    "internalName": "part_group_desc",
    "displayName": "PartGroupDesc",
    "description": "group of part (description) #ERP-Origin: S_ArtGruppeSpr.Bezeichnung",
    ...
  },
]
```

```

    "id": "",
    "internalName": "part_business_unit",
    "displayName": "PartBusinessUnit",
    "description": "business unit of part #ERP-Origin: S_Artikel.Sparte",
    ...
},
{
    "id": "",
    "internalName": "part_business_unit_desc",
    "displayName": "PartBusinessUnitDesc",
    "description": "business unit of part (description) #ERP-Origin: S_SparteSpr.Bezeichnung",
    ...
},
{
    "id": "",
    "internalName": "part_time_unit_replenishment",
    "displayName": "PartTimeUnitReplenishment",
    "description": "unit of part time replenishment (description) #ERP-Origin: S_Artikel.Zeiteinheit-WBZ",
    ...
},
{
    "id": "",
    "internalName": "part_oid",
    "displayName": "PartOID",
    "description": "object ID of part #ERP-Origin: S_Artikel.S_Artikel_Obj",
    ...
},
{
    "id": "",
    "internalName": "part_list_price_oc",
    "displayName": "PartListPriceOC",
    "description": "list price of part in own currency #ERP-Origin: S_ArtKundeStaffel.Preis
/v_pfi00.lib / e_pfi00.tdf",
    ...
},
{
    "id": "",
    "internalName": "part_list_price_fc",
    "displayName": "PartListPriceFC",
    "description": "list price of part in foreign currency #ERP-Origin: S_ArtKundeStaffel.Preis
/v_pfi00.lib / e_pfi00.tdf",
    ...
},
{
    "id": "",
    "internalName": "part_list_price_cc",
    "displayName": "PartListPriceCC",
    "description": "list price of part in corporate currency #ERP-Origin: S_ArtKundeStaffel.Preis
/v_pfi00.lib / e_pfi00.tdf",

```

```
        ...
    }
]


[
  {
    "id": "",
    "internalName": "quote_doc_line_requested_date",
    "displayName": "QuoteDocLineRequestedDate",
    "description": "requested date of sales quote document line #ERP-Origin: V_BelegPos.Wunschtermin",
    ...
  },
  {
    "id": "",
    "internalName": "quote_doc_line_delivery_date",
    "displayName": "QuoteDocLineDeliveryDate",
    "description": "delivery date of sales quote document line #ERP-Origin: V_BelegPos.Liefertermmin",
    ...
  }
]

#order_data:
[
  {
    "id": "",
    "internalName": "order_doc_order_category",
    "displayName": "OrderDocOrderCategory",
    "description": "sales order category #ERP-Origin: V_BelegKopf.AuftragsArt",
    ...
  },
  {
    "id": "",
    "internalName": "order_doc_order_category_desc",
    "displayName": "OrderDocOrderCategoryDesc",
    "description": "sales order category (description) #ERP-Origin: S_AuftragsArtSpr.Bezeichnung",
    ...
  },
  {
    "id": "",
    "internalName": "order_doc_line_requested_date",
    "displayName": "OrderDocLineRequestedDate",
    "description": "requested date of sales order document line #ERP-Origin: V_BelegPos.Wunschtermin",
    ...
  },
  {
    "id": ""
  }
]
```

```

        "internalName": "order_doc_line_delivery_date",
        "displayName": "OrderDocLineDeliveryDate",
        "description": "delivery date of sales order document line #ERP-Origin: V_BelegPos.Lieferter-
min",
        ...
    }
]
#customer_data:
[
{
    "id": "",
    "internalName": "customer_oid",
    "displayName": "CustomerOID",
    "description": "object ID of customer #ERP-Origin: S_Kunde.S_Kunde_Obj",
    ...
}
]

#purchasing_blanket_order_data:
[
{
    "id": "",
    "internalName": "pur_bo_line_qty_unit_oid",
    "displayName": "PurBOLineQtyUnitOID",
    "description": "object ID of quantity unit #ERP-Origin: S_ArtME.S_ArtME_Obj",
    ...
},
{
    "id": "",
    "internalName": "pur_bo_line_qty_unit_bme_oid",
    "displayName": "PurBOLineQtyUnitBMEOID",
    "description": "object ID of quantity unit BME #ERP-Origin: S_ArtME.S_ArtME_Obj",
    ...
}
]

#purchasing_quote_data:
[
{
    "id": "",
    "internalName": "pur_quote_line_qty_unit_oid",
    "displayName": "PurQuoteLineQtyUnitOID",
    "description": "object ID of quantity unit #ERP-Origin: S_ArtME.S_ArtME_Obj",
    ...
},
{
    "id": "",
    "internalName": "pur_quote_line_p_qty_unit_bme_oid",
    "displayName": "PurQuoteLinePQtyUnitBMEOID "
}
]

```

```

    "description": "object ID of quantity unit BME #ERP-Origin: S_ArtME.S_ArtME_Obj",
    ...
    }
]
#purchasing_order_data:
[
{
    "id": "",
    "internalName": "pur_order_line_delivery_time",
    "displayName": "PurOrderLineDeliveryTime",
    "description": "delivery time of purchasing order document line #ERP-Origin: E_Art-Lief.Lieferzeit",
    ...
},
{
    "id": "",
    "internalName": "pur_order_line_qty_unit_oid",
    "displayName": "PurOrderLineQtyUnitOID",
    "description": "object ID of quantity unit #ERP-Origin: S_ArtME.S_ArtME_Obj",
    ...
},
{
    "id": "",
    "internalName": "pur_order_line_qty_unit_bme_oid",
    "displayName": "PurOrderLineQtyUnitBMEOID",
    "description": "object ID of quantity unit BME #ERP-Origin: S_ArtME.S_ArtME_Obj",
    ...
},
{
    "id": "",
    "internalName": "pur_order_line_requested_date",
    "displayName": "PurOrderLineRequestedDate",
    "description": "requested date of purchasing order document line #ERP-Origin: E_Beleg-Pos.Wunschtermin",
    ...
},
{
    "id": "",
    "internalName": "pur_order_line_delivery_date",
    "displayName": "PurOrderLineDeliveryDate",
    "description": "delivery date of purchasing order document line #ERP-Origin: E_Beleg-Pos.Liefertermin",
    ...
}
]

#purchasing_dispatch_notification_data:
[
{

```

```

    "id": "",  

    "internalName": "pur_des_adv_carrier_transfer_date",  

    "displayName": "PurDesAdvCarrierTransferDate ",  

    "description": "carrier transfer date of purchasing dispatch notification #ERP-Origin: EBT_De-  

sAdv.CarrierTransferDate",  

    ...  

},  

{  

    "id": "",  

    "internalName": "pur_des_adv_line_qty_unit_oid",  

    "displayName": "PurDesAdvLineQtyUnitOID",  

    "description": "object ID of quantity unit #ERP-Origin: S_ArtME.S_ArtME_Obj",  

    ...  

},  

{  

    "id": "",  

    "internalName": "pur_des_adv_line_qty_unit_bme_oid",  

    "displayName": "PurDesAdvLineQtyUnitBMEOID",  

    "description": "object ID of quantity unit BME #ERP-Origin: S_ArtME.S_ArtME_Obj",  

    ...  

}  

]  

#purchasing_stock_receipt_data:  

[  

{
    "id": "",  

    "internalName": "pur_stock_rec_line_qty_unit_oid",  

    "displayName": "PurStockRecLineQtyUnitOID",  

    "description": "object ID of quantity unit #ERP-Origin: S_ArtME.S_ArtME_Obj",  

    ...  

},  

{
    "id": "",  

    "internalName": "pur_stock_rec_line_qty_unit_bme_oid",  

    "displayName": "PurStockRecLineQtyUnitBMEOID",  

    "description": "object ID of quantity unit BME #ERP-Origin: S_ArtME.S_ArtME_Obj",  

    ...
}  

]  

#purchasing_a_p_invoice_voucher_data:  

[  

{
    "id": "",  

    "internalName": "pur_inv_line_qty_unit_oid",  

    "displayName": "PurInvLineQtyUnitOID",  

    "description": "object ID of quantity unit #ERP-Origin: S_ArtME.S_ArtME_Obj",  

    ...
}
]

```

```

]

#purchasing_return_receipt_data:
[
{
    "id": "",
    "internalName": "pur_ret_doc_line_qty_unit_oid",
    "displayName": "PurRetDocLineQtyUnitOID",
    "description": "object ID of quantity unit #ERP-Origin: S_ArtME.S_ArtME_Obj",
    ...
},
{
    "id": "",
    "internalName": "pur_ret_doc_line_qty_unit_bme_oid",
    "displayName": "PurRetDocLineQtyUnitBMEOID",
    "description": "object ID of quantity unit BME #ERP-Origin: S_ArtME.S_ArtME_Obj",
    ...
}
]

#purchasing_debit_memo_data: "purchasing_debit_memo_data"

[
{
    "id": "",
    "internalName": "pur_debit_doc_line_qty_unit_oid",
    "displayName": "PurDebitDocLineQtyUnitOID",
    "description": "object ID of quantity unit #ERP-Origin: S_ArtME.S_ArtME_Obj",
    ...
},
{
    "id": "",
    "internalName": "pur_debit_doc_line_qty_unit_bme_oid",
    "displayName": "PurDebitDocLineQtyUnitBMEOID",
    "description": "object ID of quantity unit BME #ERP-Origin: S_ArtME.S_ArtME_Obj",
    ...
}
]

#supplier_data:

[
{
    "id": "",
    "internalName": "supplier_oid",
    "displayName": "SupplierOID",
    "description": "object ID of the supplier #ERP-Origin: S_Lieferant.S_Lieferant_Obj",
    ...
}
]

```

Please note that these new exported columns are only available after a new export run in your environment. We plan to perform these runs within the next days.

Attribute Groups (IMPROVED)

For future use the mimic of assigning attribute groups to exported columns has been changed.

There is a new metadata category "Attribute Groups".

The screenshot shows the 'Metadata Editor' interface. On the left, there's a sidebar with various icons and a tree view under 'Attribute Groups'. The 'Global Data' node is selected and highlighted in blue. The main panel displays the configuration for this group. It includes fields for 'Conflict State' (set to 'NoConflict'), 'Display Name' (set to 'Global Data'), 'Internal Name' (set to 'global_data'), 'Order' (set to 'order'), and 'Parent Attribute Group ID' (set to 'Attribute Group ID'). At the bottom of the panel are 'Delete' and 'Save' buttons. A small 'Provide feedback' link is located in the bottom right corner of the main panel area.

This way the Attribute Groups get created at all. Among other things an internal name gets assigned to the Attribute Group. This internal name is subsequently used in the Exported Column for linking it to the chosen Attribute Group.

Metadata Editor

Filter by Name
exportdate

- Attribute Groups
 - Define new Attribute Group
- Exported Columns
 - ExportDateTo**
 - ExportDateFrom
 - Defined Columns
 - Define new Column
 - Derived Columns
 - Define new Column
 - Metrics
 - Define new Metric
 - Scopes
 - Reports
 - Define new Report
 - Static Information

EXPORTDATE

Conflict State
NoConflict

Display Name
ExportDateTo

Internal Name
export_date_to

Description
Date range of export ERP-Origin: Analyzer-Daterange (gtExpRefDate)

Unit
date

Data Type
date

Attribute Group Internal Name
global_data

categorial values **business event**

Changed Date
04/27/2022 15:12:08 Changed By
tolkmit_g

Delete Save Provide feedback

Advanced Values Lists (NEW)

Focus eases the management of chosen restriction criteria via Advanced Value Lists now.

Focus

Start Analysis View

Zoom in Exclude Zoom out Back Next C

CustomerRegion CustomerCity Process

Invoice Restricited: Region 100800 <= CustomerRegion <= Region 100899;

	5403.2	23283.39	
	5403.2	23283.39	
	111	190	191
	piece		
	100145		
	1940187	19405958	
	0	22	120
	0	22	120
	2019-03-12T00:00:00	2019-08-22T00:00:00	2019-03-12T00:00:00
	20 19	20 2 2 0	20 2 19 0
	20 19	20 2 2 0	20 2 19 0
	0		

Attributes: 605 of 605 Objects: 1,354 of 2,791,918

Frontend: 0.40.7, Backend: 0.3.5, 2022-04-27 14:08:05 Provide feedback

Value Lists can now be collapsed and docked to the top of the Infoscape. Font color and weight of the Value List title indicate restrictions set on the data. Detailed information about the restriction is displayed as a tool tip.

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.
- Report Viewer doesn't support scope selection yet.
- Reports cannot be deleted yet.
- Define Derived Column is only usable with insider knowledge.
- Nesting of Attribute Groups is not supported yet.

Component Status

- Qlik integration doesn't function yet.

Known Issues

- Saving Attribute Groups eliminates the respective exported columns in Focus.
- iPad support is broken out of browser incompatibility issues.

Documentation

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

- NEMO Glossary 2022-03-04 (no update)
- NEMO Data Structure
- NEMO Formula Syntax 2022-04-29 (updated)

Availability

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