



**CORTERRA
SOLUTIONS**

Enumlytics

“Analytics tool for translating enum values to labels”

**Dynamics 365
Finance and Supply Chain**

Summary

Enumlytics is a tool for Dynamics 365 Finance and Supply Chain to aid reporting, analytics, and integration solutions external to the application. A listing of enum data type values and labels are not stored anywhere in the database, nor is there a data entity to use in a data warehousing situation. This is problematic, as only the integer value of an enum field is stored in database transactions. Without Enumlytics, data analytics and integrations must rely on manual translations. While this may work for some time, the moment a new value is added to an enum, the report will have no label to show, requiring additional work to add another translation.

Problem

Enums are a standard data type in the Dynamics 365 Finance and Supply Chain application. You could say they are pervasive. They provide a static list of values to use in a drop-down and power various business logic throughout the system. Regularly, clients build a data warehouse and quickly realize, while enums are great in the application, they are difficult to deal with in reporting, analytics, and integration solutions. Why are they difficult? The transactional table or master data record only stores the integer value of an enum. While this is efficient in the application, it does not provide much use to an end user in a report. Most companies solve this by finding the labels for the values and hardcoding those into their solution. This works fine, for a time, until a new value is added. New values are added regularly with Service Updates, thus making a hardcoded list unscalable. Wouldn't it be nice to have a constantly up to date list of all values? Thankfully, Corterra Solutions has solved this problem. Keep reading to find out more about the solution.



Solution

- **Batch job** to query all the enums and store them in a table, at whatever frequency is desired. Daily is usually sufficient.
- **Table** to store all enum values, labels, and language translated labels.
- **Data entity** to export to Excel or SQL database for reporting, analytics, integrations, etc.

Table browser: CRTAEnumListTable

My view ▾

Filter

crtafo_int...	crtafo_nv_displaylabel	crtafo_nv_label	crtafo_nv_name	recVersion	Partition	RecId
0	Disabled	Disabled	SelfHealingOpportunityFe...	1	5637144576	56371445...
1	Enabled	Enabled	SelfHealingOpportunityFe...	1	5637144576	56371445...
2	Enabled (Setup missing)	NoSetup	SelfHealingOpportunityFe...	1	5637144576	56371445...
0	Evaluating	Evaluating	SelfHealingEvaluationState	1	5637144576	56371445...
1	Evaluated	Evaluated	SelfHealingEvaluationState	1	5637144576	56371445...
2	Invalid	Invalid	SelfHealingEvaluationState	1	5637144576	56371445...
0	None	None	WorkflowEventCategory	1	5637144576	56371445...
1	Started	Started	WorkflowEventCategory	1	5637144576	56371445...
2	Completed	Completed	WorkflowEventCategory	1	5637144576	56371445...
3	Cancelled	Cancelled	WorkflowEventCategory	1	5637144576	56371445...
0	Since last recurring job st...	greaterThanLastActivitySt...	SysQueryRangeUtilDMFF...	1	5637144576	56371445...
1	Since last recurring job co...	greaterThanLastActivityC...	SysQueryRangeUtilDMFF...	1	5637144576	56371445...
2	Since last run completed ...	greaterThanLastExecution...	SysQueryRangeUtilDMFF...	1	5637144576	56371445...
3	Since last successful run c...	greaterThanLastSuccessfu...	SysQueryRangeUtilDMFF...	1	5637144576	56371445...
0	Workflow	Workflow	WorkflowInstanceCategory	1	5637144576	56371445...
1	Subworkflow	Subworkflow	WorkflowInstanceCategory	1	5637144576	56371445...
2	Line item workflow	LineItemWorkflow	WorkflowInstanceCategory	1	5637144576	56371445...
0	Percentage	Percentage	BLKPIBandinaMethod	1	5637144576	56371445...

Results

- **Automation.** No manual translations needed.
- **Accuracy.** Always up to date, yielding immediate ROI.
- **Quality of life.** Easy reference for enum values and labels, which end user, functional consultants, and developers all appreciate.
- **Scalability and reliability.** Improved scalability and reliability of third party integrations and reporting solutions.

Contact us TODAY to discuss how you can get Enumlytics for Dynamics 365 Finance and Supply Chain, a solution that provides results.

ABOUT CORTERRA SOLUTIONS

Corterra Solutions offers IT infrastructure, ERP implementation, cloud migration, cybersecurity, and analytics services that help medium and large clients operate and grow their businesses securely, efficiently, and intelligently. As a Microsoft Partner, Corterra has extensive experience with Microsoft technologies, including Dynamics 365. Our deep partnerships with clients, coupled with our reputation for outstanding service, give clients freedom to focus on meaningful work that drives their companies' success. For more information, please visit www.corterrasolutions.com.