

OpenFMB Release: Protobuf Exporter



OPEN ENERGY
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Enabling Grid Interoperability

May 2022

Introduction

Contributors

- Open Energy Solutions
- Special Acknowledgement: Duke Energy

Protobuf Exporter Overview

Demo

Key Links

Q&A

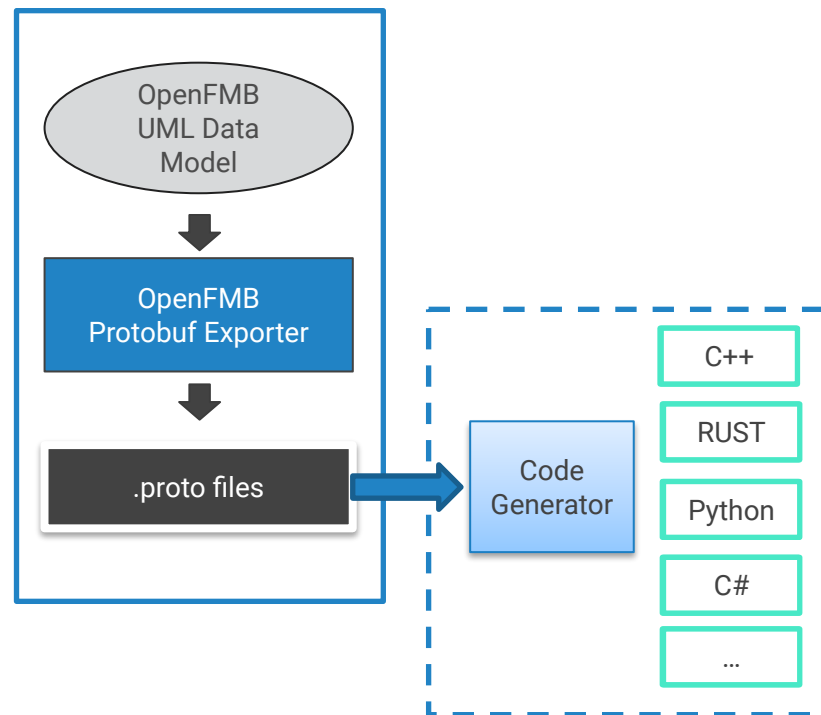
OpenFMB Protobuf Exporter

What it does:

1. Takes OpenFMB UML data model (in AE tool)
2. Generates and exports a set of “proto files”

The output .proto files can then be used to generate data access classes/data structures in various programming languages such as C++, Rust, Python, C#, Java...

**Proto files represents Google Protocol Buffers (Protobuf) structured data*



OpenFMB Protobuf Exporter

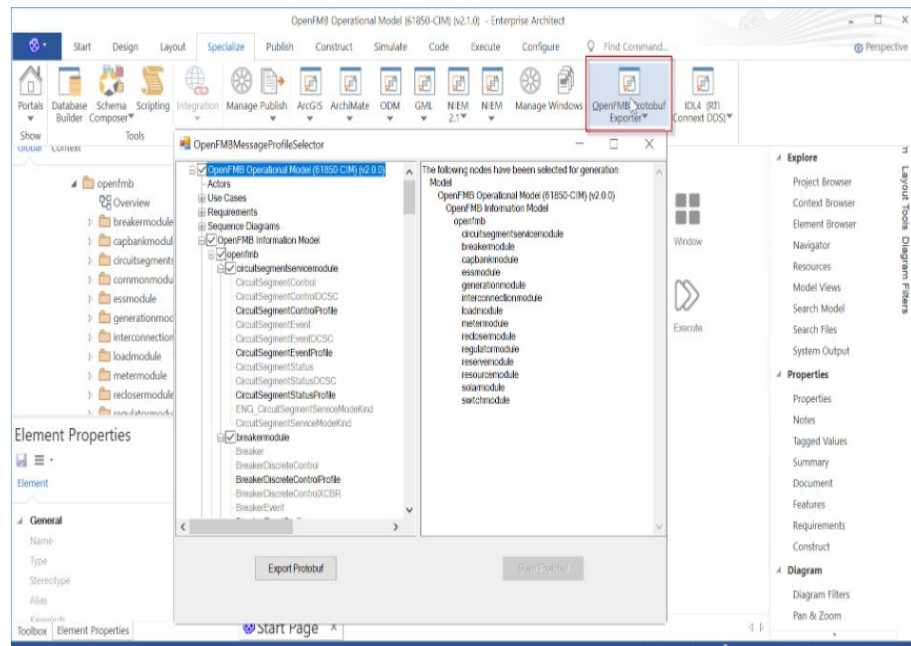
An Enterprise Architect Add-In to export OpenFMB UML as Protocol Buffer definition (.proto) files

To download OpenFMB Protobuf Exporter, go to:

<https://github.com/openenergysolutions/openfmb.eaprotobufexporter/releases>

NOTE:

Enterprise Architect is a commercial tool that needs appropriate licensing before the OpenFMB Protobuf Exporter add-in can be installed.



*Note: Enterprise Architect is an architecture modeling platform from Sparx Systems

Artifacts with this Release

OpenFMB Protobuf Exporter

- Source Code: <https://github.com/openenergysolutions/openfmb.eaprotobufexporter>
- Installation/Setup file: <https://github.com/openenergysolutions/openfmb.eaprotobufexporter/releases>
- Documentation + Instructions: <https://openfmb.openenergysolutions.com/>



Thank You

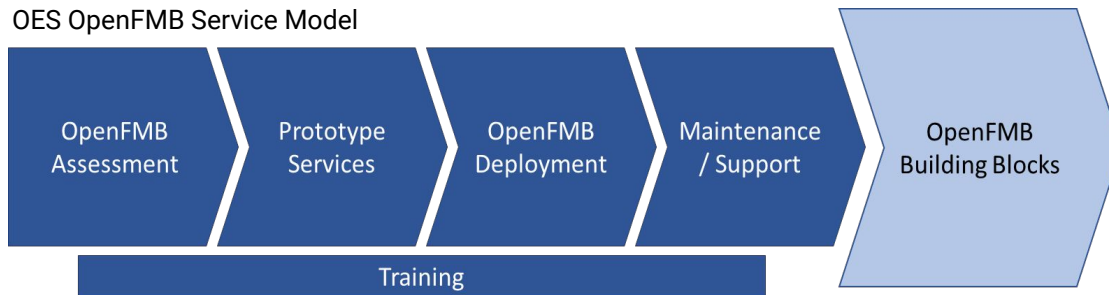
Questions, Open Items



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Additional OpenFMB Adapter Services

OES OpenFMB Service Model



1. OpenFMB Assessment – Compare current capabilities with objectives and develop a OpenFMB roadmap.
2. Prototype Services – Analyze the point list, draft a design, and iterate through testing for a working solution.
3. OpenFMB Deployment – For production, assess requirements, configure our adapter, deploy the solution, and support it.
4. Maintenance/Support – Standby advisory support for troubleshooting, providing solutions, etc.
5. Training – Provide standard or tailored classes around our technology and OpenFMB in general.
6. Beyond OpenFMB – OpenFMB represents building blocks for us in enabling broader initiatives, whether an expanded/new integration approach, grid edge management (e.g., microgrids), and/or a distributed intelligence strategy to transform the way the grid is monitored, controlled, and managed.

If interested in additional services around OpenFMB, please contact us.