OpenDesign
alliance

COMPLETE INTEROPERABILITY
FOR CAD & BIM inWEB™

SDKs for professional software development

ABOUT ODA

1200
Member companies worldwide

85%
Revenue to R&D

100%
Transparent pricing & free tech support

since **1998**
Experienced development team

ODA PLATFORM

Formats & Technologies

CAD **inWEB** **BIM**

FORMATS

DWG	DGN	3D-PDF	Architecture	IFC	STEP

Mechanical | Map | Civil | Scan-to-BIM | Revit files | Navisworks files

SolidWorks | Catia | ACIS | Parasolid | Inventor | NX | LandXML | JT | IGES

TECHNOLOGIES

inWEB™ inc. CDE SDK

Visualize

Publish

Exchange

RETROSPECTIVE ROADMAP

2021

CORE

Start ODA **Constraints Engine** Development

CORE

New product **STEP SDK**

2022

EXTENSION

Start **Scan-to-Bim** Development

EXTENSION

New **LandXML** support

2023

EXTENSION

Start **MCAD SDK** Development

2024

CORE

Drawing inWeb™

2025

EXTENSION

MCAD SDK: JT, SolidWorks
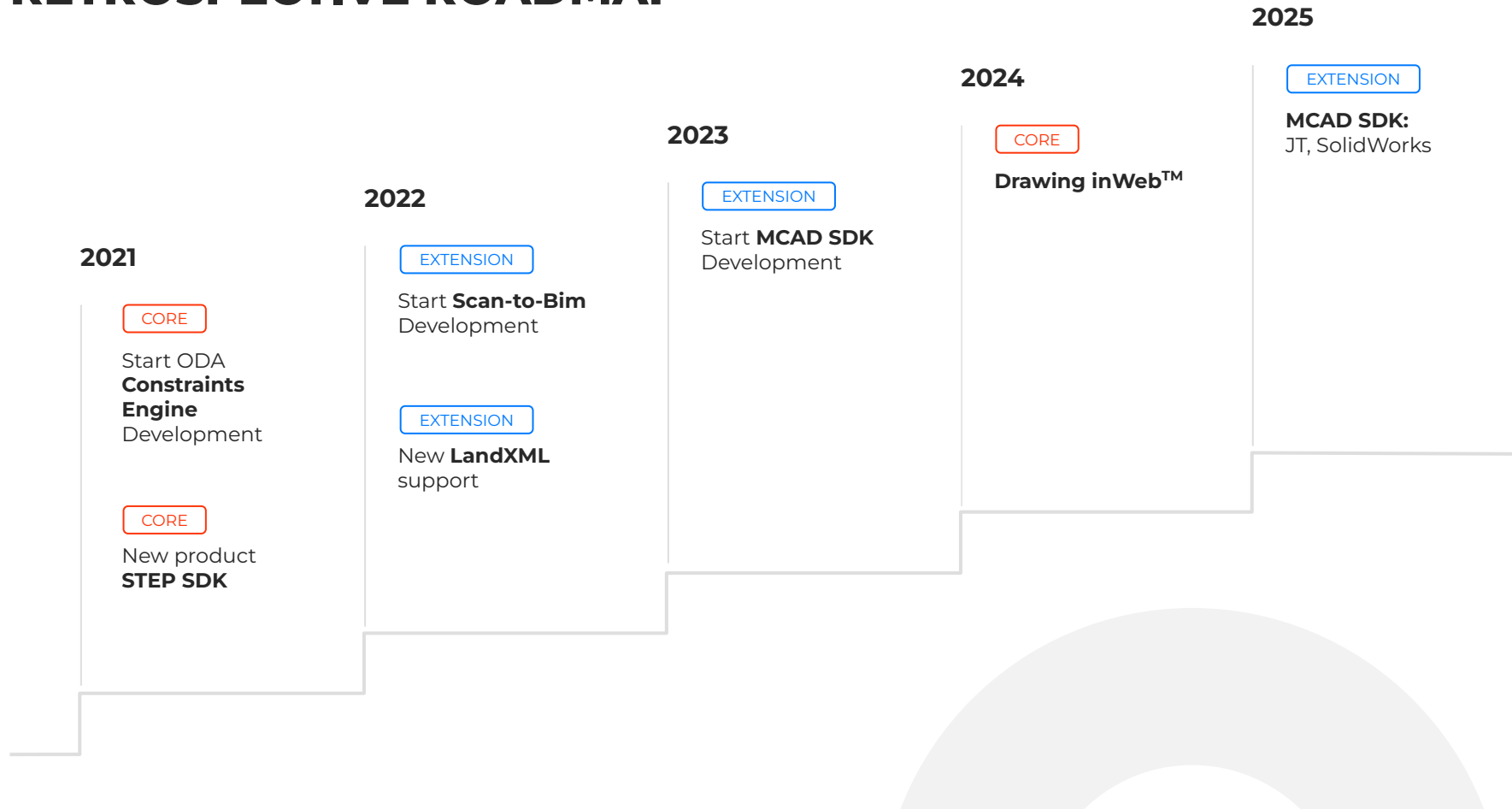
FORMAT AREAS

2D CAD

BIM

3D CAD

2D CAD

CORE

DRAWINGS
DWG, DGN, DXF,
DGN, ReCap

CORE

ARCHITECTURE SDK
Architecture
DWG files

EXTENSION

MAP SDK
Autodesk®
Map 3D

EXTENSION

MECHANICAL SDK
Autodesk®
Mechanical® files

EXTENSION

CIVIL SDK
Autodesk®Civil 3D® files
& LandXML

BIM

IFC SDK

Work with any version of IFC, developed in collaboration with bSI

BimRv SDK

Work with Revit® data without dependencies on the native Revit® application

Scan-to-BIM SDK

Convert point cloud data to 3D BIM models

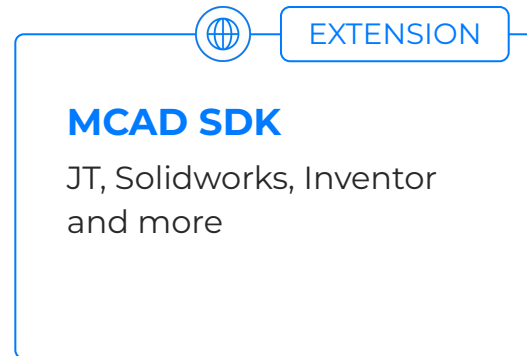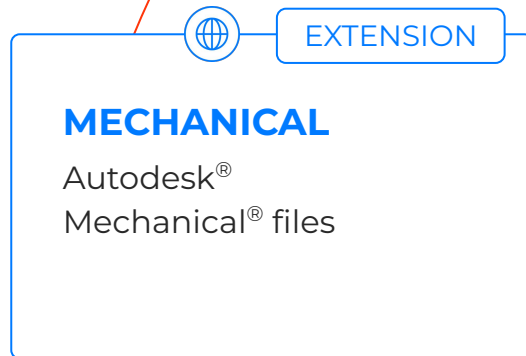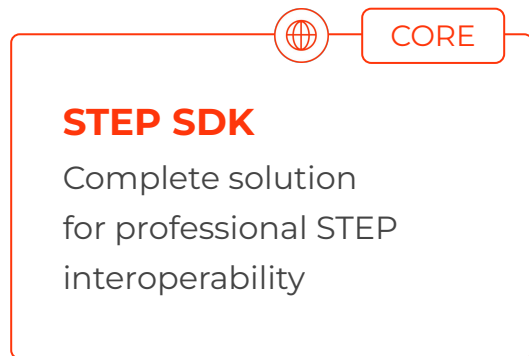## BimNv SDK

Work with Autodesk® Navisworks® files from any application

3D CAD

STEP SDK — CORE

Complete solution
for professional STEP
interoperability

MECHANICAL — EXTENSION

Autodesk®
Mechanical® files

MCAD SDK — EXTENSION

JT, Solidworks, Inventor
and more

PARTNERSHIPS

STEP

OpenBIM

IFC

cityGML

GIS

TECHNOLOGIES

Drawing inWeb™

CDE

VISUALIZE

PUBLISH

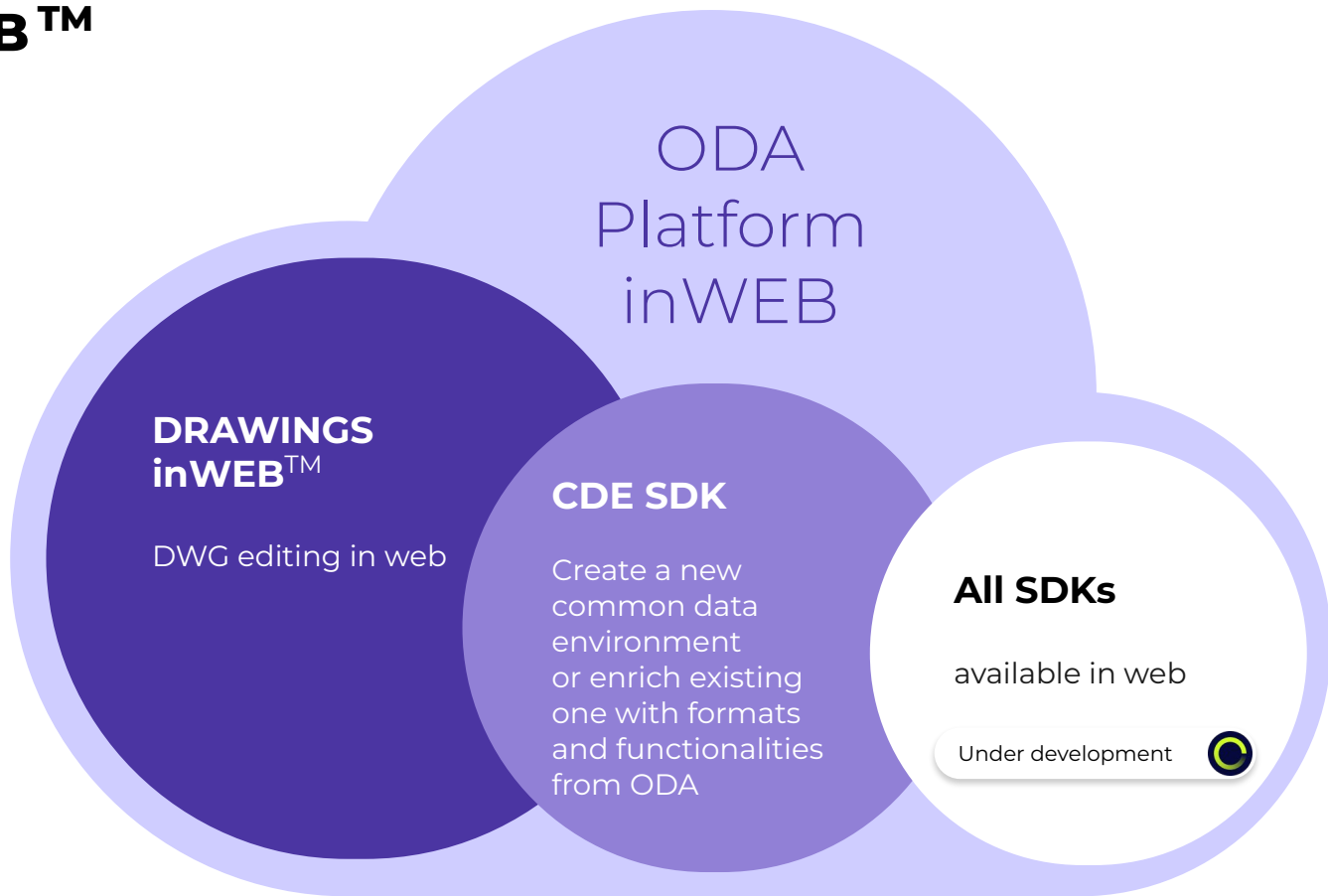EXCHANGE

Drawings inWeb ™

Edit and view DWG files directly in the browser

Full control over data and security

Deployable in private or public clouds (Azure, AWS)

Supports 2D and 3D: zoom, pan, and orbit navigation

Based on a proven C++ engine compiled to WebAssembly

inWEB™

ODA
Platform
inWEB

DRAWINGS inWEB™

DWG editing in web

CDE SDK

Create a new
common data
environment
or enrich existing
one with formats
and functionalities
from ODA

All SDKs

available in web

Under development

CDE SDK

- Visualize & Markup
- Centralized Data Management
- Version Control & Revision Management
- Secure Access and Permissions

- Collaboration & Communication
- Data Integration & Interoperability
- Performance and Scalability
- Run on Azure aws

ODA CDE SDK

Private Cloud

Quick deployment in any environment including an isolated local network without connecting to third-part services.

Source Code access with Founding membership

CDE SDK includes ☁

- Web server with REST API

- JavaScript library for rendering 2D and 3D files in a browser

- Various auxiliary applications from the WebTools package for running various tasks on the backend

VISUALIZE

- Rich import possibilities with access to native properties
- Rich text rendering abilities
- Optimized performance

- Multi-threaded support
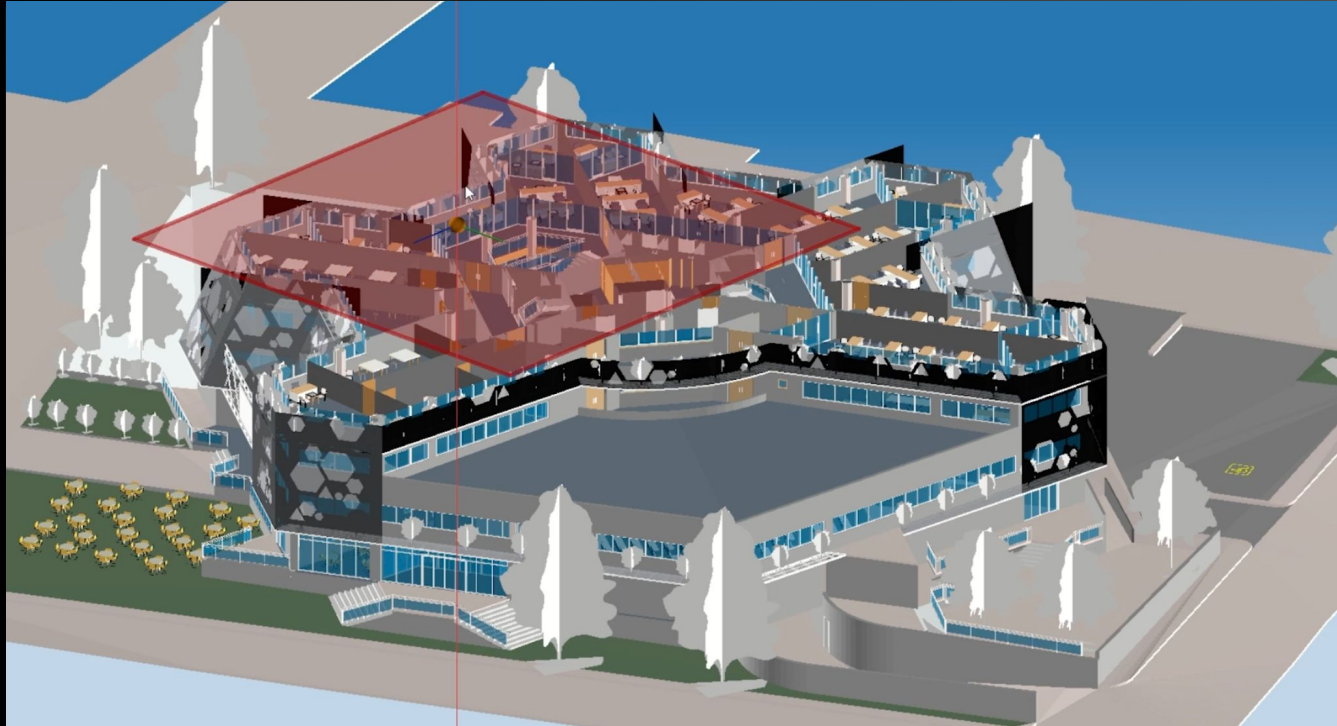- Progressive mesh object for LOD support
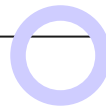- Advanced GPU effects like real-time shadows

VISUALIZE

PUBLISH

- ⦾ Publishing from CDE
- ⦾ Complete PRC & Publish APIs
- ⦾ Complete 2D and 3D PDF export
- ⦾ Publishing from all supported formats

- ⦾ Extensive Configuration Options
- ⦾ 100% compatible with ISO standards and Adobe® tools
- ⦾ Set of predefined controls for 3D publications

EXCHANGE

DWG ↱ DXF | DXB | HOOPS | PDF | SVG | DWF | WMF | DAE | PDF (PRC support)

DGN ↱ DWG | DAE | BMP | PDF (PRC support)

STEP ↱ DWG | STL | OBJ | 3D PDF

DAE ↱ DWF | DXF | RVT | RFA

DXF ↱ DWG | PDF (PRC support)

IFC ↱ OBJ | BMP | STL

DWF ↱ DWG | DXF

U3D ↱ PRC

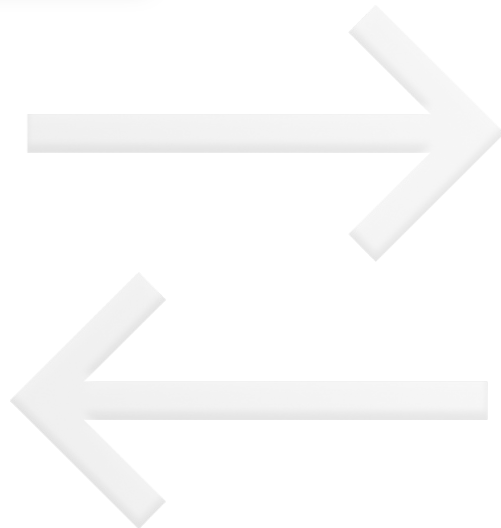**XTR** ↱ IFC

RVT RFA ↱ DAE | IFC | DWG | SVG | JSON

NWD NWF NWC ↱ IFC

ODA MEMBERSHIP

Collaboration & Honest Pricing

CORE PACKAGE

Key CAD & BIM formats and functionalities
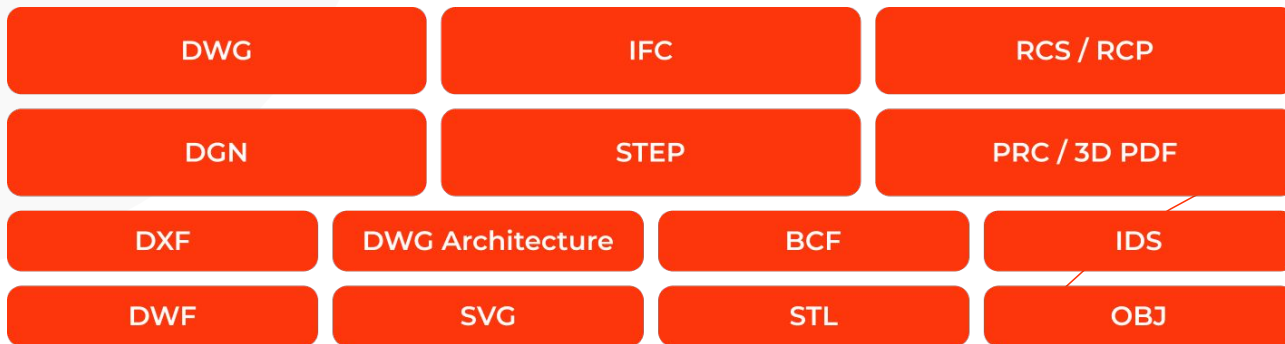for your desktop, mobile and inWEB applications

EXTENSION

EXTENSION

EXTENSION

CORE PACKAGE

DWG	IFC	RCS / RCP
DGN	STEP	PRC / 3D PDF

DXF	DWG Architecture	BCF	IDS
DWF	SVG	STL	OBJ

inWEB™
inc. CDE SDK

Validation	Format conversion	2D and 3D PDFs	Professional visualization
Animation	Data extraction	Collision detecton	Common Data Acess API

EXTENSIONS

BimNv
for Navisworks files

BimRv
for Revit files

MAP

MECHANICAL

SCAN-TO-BIM

CIVIL
Autodesk® Civil 3D® files
& LandXML

MCAD

✚

THE ABILITY
TO CREATE A NEW
EXTENSION

SURVEY

STEEL

Under development ◐

MCAD SDK

ODA is developing
the industry's first open
exchange platform
for 3D MCAD

NEW

Already done!

SolidWorks

JT

Inventor

Under development

			CATIA V5
PLMXML	3Shape DCM	Creo	SolidEdge
ProE	UG NX	CGR	CATIA V6
Rhino	Procera	CATIA V4	CADDS

PRICES
& LEVELS

PRICES

Published pricing
no 1-on-1 negotiations

Site-based licensing
not per-user

Prices approved
by member-controlled board of directors

Commercial

Limited commercial use

CORE PACKAGE

✓ Commercial distribution w/100 seat limit

✓ Libraries, headers and examples

✓ Documentation

✓ C++, .NET and Java versions

✓ Monthly releases

✓ No affiliate or subsidiary usage

$ 3,000 First Year Cost

$ 2,250 Recurring Annual Cost

Sustaining

Unlimited use+ web

CORE PACKAGE

$ 7,500 First Year Cost

$ 4,500 Recurring Annual Cost

- ✓ **Everything in Commercial**
- ✓ Unlimited commercial distribution
- ✓ Web and SaaS usage permitted
- ✓ No affiliate or subsidiary usage
- Full customization options

Available extensions

Sustaining 🔗

| **BimRv SDK** | **$6,250** |
| SDK for Autodesk® Revit® files | |

| **Civil SDK** | **$10,000** |
| SDK for Autodesk® Civil 3D® files | |

| **BimNv SDK** | **$6,250** |
| SDK for Autodesk® Navisworks® files | |

| **Map SDK** | **$10,000** |
| SDK for Autodesk® Map 3D® files | |

| **Scan-to-BIM** | **$20,000** |
| ODA is developing the industry's first Scan-to-BIM SDK | |

| **Mechanical SDK** | **$10,000** |
| SDK for Autodesk® Mechanical® files | |

| **MCAD SDK** | **$30,000** |
| Converter for CATIA, Inventor, SolidEdge, Parasolid, Solid Works and more | |

Founding

+ Source code

✓

CORE PACKAGE

$ 37,500 First Year Cost

$ 18,000 Recurring Annual Cost

Everything in Sustaining

✓ Full source code for all products

✓ Direct access to ODA Git repositories

✓ Voting rights for ODA business decisions

✓ Contact us for affiliate/subsidiary licensing

Available extensions

Founding 🔗

| **BimRv SDK** | **$12,500** |
| SDK for Autodesk® Revit® files | |

| **Civil SDK** | **$10,000** |
| SDK for Autodesk® Civil 3D® files | |

| **BimNv SDK** | **$12,500** |
| SDK for Autodesk® Navisworks® files | |

| **Map SDK** | **$10,000** |
| SDK for Autodesk® Map 3D® files | |

| **Scan-to-BIM** | **$20,000** |
| ODA is developing the industry's first Scan-to-BIM SDK | |

| **Mechanical SDK** | **$10,000** |
| SDK for Autodesk® Mechanical® files | |

| **MCAD SDK** | **$30,000** |
| Converter for CATIA, Inventor, SolidEdge, Parasolid, Solid Works and more | |

SELECT FORMATS
and functionalities

CALCULATE
Membership
Plan

FOUNDING MEMBERSHIP BENEFITS

Full source code for all products

Direct access to ODA Git repositories

Long-term security

Influence In ODA priorities

BEYOND

ODA CONSULTING SERVICES

Dedicated training

Proof of concept

ODA-based Software development

Other tasks

Available to Sustaining and higher

$ 150 Per hour

400 max. Consulting hours per member / per year

Work to be directed by member company

ODA VIEWERS

Open IFC Viewer 🌐
Innovative IFC viewer

First to support new IFC versions
and experimental IFC features from bSI

Open STEP Viewer 🌐
Professional-grade STEP viewer

FOLLOW US!

opendesign.com

Youtube

LinkedIn

X

THANK YOU!

Neil Peterson

President

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📱 +1 321-301-5744

LinkedIn in