

Release notes

Topologic v1.4.0

1. Changes
 - a. TopologicCore now requires OCCT 7.4.0.
 - b. TopologicDynamo now requires Dynamo 2.7.0.
 - c. Methods in the .NET layer take IEnumerable instead of List for compatibility with IronPython in Dynamo and Rhino3D.
2. New features
 - a. Added README.md (contribution by Patrick Barry)
 - b. Applied changes for building on Linux
 - c. Added CMake for TopologicCore
 - d. Graph.Connect(): now accepts two lists of vertices, such the vertices at the same index in the respective lists will be connected.
 - e. Topology.SetDictionaries(): assigns a set of dictionaries to the topology or its members, given selector vertices.
 - f. EdgeUtility::AdjacentWires() and AdjacentFaces() retrieve the Wires and Faces adjacent to an Edge.
 - g. FaceUtility::AdjacentFaces() retrieves the Faces adjacent to a Face.
 - h. Topology::AddContent() adds a content topology to another topology.
3. Bug fixes
 - a. External and Internal Boundaries swapped
 - b. Missing Dictionaries in some Cells after CellComplex.ByCells
 - c. "Failed downcasting a topological query" message in Graph.Topology.
 - d. Apertures and Contents missed their Dictionaries
 - e. Topology.Impose produces extra degenerate Cells.
 - f. Failure of Topology.ByGeometry due to missing OCCT shape fixes
 - g. Face::ByExternalInternalBoundaries(): check if the outer wire is closed
 - h. Graph::TopologicalDistance() returns 0 if the starting and goal vertices are the same.
 - i. TopologicGH: Corrected the implementation of DictionaryValueAtKey
 - j. TopologicGH: Corrected the namespace of Utilities methods
4. Known bugs
 - a. Two Faces intersecting on a Line, when passed into Topology.Intersect, create a null. This is OCCT limitation.
 - b. Union of planar Faces creates small Faces. This is OCCT limitation.