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as pioneers of bim, the church of denmark, the danish state railways, the jysk bank, the carlsberg brewery, and the municipality of copenhagen have adopted bim since 2015. a similar approach was performed by the finnish railways (vr 2015b). apart from a digital design model, the bim standards require other data records (vr 2015a), such as the documentation of the components, geometries, the building or building envelope, and the relationship to each other (juo ifc, 2018). in this chapter we presented a step-by-step process for acquiring damage data with uas, and discuss additional applications of the acquired data. the current chapter leads to the forthcoming chapters on the pilot data acquisition and the visualization of real-world data. authors on this chapter were f. seitz, a. rosumägi, m. haider, and m. kröger. additionally, authors on the next chapters are u. bisas, m. brzezek, a. göbel, r. althaus, u. frei, and d. kluge. after more than 50years of service life, a bridge experiences damages. understanding the causes for damages is crucial for decision makers and engineers. to achieve this objective, the following report is based on the damaged girder, which was introduced in the chapter on uas-based image recognition. numerous tools have been designed to generate 3d structural models (hill & jones 2010). currently, the state of art is to take the model of a bridge as an input and transfer the definition of components such as connections and placements to the other model. in addition to creating model definitions, the placement of components, which are necessary for generating the complete model, should be possible. plasticity to transfer the model definition to the other model is the key feature (hill & jones 2010).

Solibri Model Checker V7 Cracked

the model from porra et al. (2020) has several limitations. the authoring tool of the data model is limited to the geometry and dimension objects. the relation between the defectproductrelation and the component are only defined in a horizontal view but not a 3d view. currently, the model does not allow one-to-many as well as many-to-many relationships. the concept of a defectproductrelationship is extended with additional nodes to allow the navigation of a relationship in 3d. furthermore, porra et al. (2020) modeled the relationships between cracks, openings, and connections manually. in fact, there is no support for such relationships. although geometries of cracks and openings can be exported, they are unstructured in nature. the dimension and node objects from porra et al. (2020) have no support for these unstructured geometries. the model lacks information about crack and opening orientation. the bim model exchange standards (bms) that include the tolerance model represent information about cracks and openings on a much higher level of abstraction. while bms 2.0 (2012) includes cracks only, bms 3.0 (2015) includes cracks, openings, and nozzles. based on these specifications, information about orientation can be provided. because a crack has an opening, the orientation of a crack or opening can be defined by the orientation of the opening. the specification of nozzles includes an orientation option that allows specifying the orientation of nozzles. it is not possible to specify a crack or opening with the current version of the porra model. 5ec8ef588b

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