

UTILISING ADAC, THE IPWEA BIM STANDARD

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ABSTRACT

This paper will describe the fundamentals of ADAC and discuss how it has been introduced and used by a variety of IPWEA Members and the consultants supplying the ADAC data, and the changes and benefits it has brought to all parties.

KEYWORDS

ADAC, BIM, asset design, as-constructed

OUTLINE

The Asset Design and As Constructed standard (ADAC) is managed by the IPWEA and is a vendor independent XML format for the description and transmission of 3D asset design and 'as constructed' data. It is the first Civil BIM system widely used by IPWEA members.

The ADAC Standard was created as a standardised public works asset format to enable efficient capture, transmission, delivery and use of public works assets, and the ADAC.XML file becomes the one source of truth. The format itself is freely available from the IPWEA website <https://www.ipweaq.com/adac>.

Since its introduction in early 2000, the ADAC format has been regularly extended and ADAC has now been successfully implemented at many local authorities and utilities.

Being standardised, published and freely available has meant that the reading and writing of ADAC.XML files is supported by most design, surveying and GIS software. Hence Authorities and consultants are not locked into proprietary systems. Also being a vendor independent published text format means that ADAC.XML is ideal for long term archiving for both Authorities and consultants.

And although ADAC predates the era of Civil BIM, ADAC IS a Civil BIM system and all groups implementing ADAC have overcome the major hurdles in understanding and implementing Civil BIM.