



ADAC

Asset Design and As Constructed (ADAC) is fast becoming the standard As Constructed data format nationwide. It is currently being implemented by local authorities and utilities across Australia, including Unity Water and many of the major councils throughout Australasia.

ADAC is a vendor independent XML format for the description and transmission of 3D asset design and 'as constructed' data. It was created to allow for efficient design, capture, transmission, delivery and use of standardised public works asset format. The ADAC.XML file is the one source of truth.

The ADAC project is managed by the IPWEA.

12d and ADAC

12d Solutions has been involved with ADAC.XML since its inception, with 12d's goal being to integrate the ADAC process into the full cycle from Design to Construction, Construction to As Built, and for re-use in future projects.

Using 12d Model's parametric objects and hierarchical attributes, the ADAC data is fully incorporated inside 12d Model so there is no data loss.

12d Model currently supports ADAC 4.0, ADAC 4.1 and ADAC 4.2, and more importantly, the 12d Model ADAC Editors and Validators are driven directly by the IPWEA ADAC XSDs. This minimises any implementation errors and allows for quick upgrading to any future ADAC Schemas.

12d-ADAC is NOT an additional cost. 12d-ADAC is integrated in the appropriate 12d Model modules and is included **free of charge for all customers on annual maintenance.**



The Benefits of 12d ADAC

Data Fidelity – the ADAC Schema is completely reflected inside 12d Model's parametric objects and hierarchical attributes so that there is no ADAC data loss.

3D Data – all data in 12d Model is in 3D.

Integrated Work Flow – the collection and generation of ADAC data is integrated into the normal 12d Model Design-Construct-As-Built work flow

Round Tripping – 12d Model can write AND read ADAC XML files. That combined with 12d Model's ADAC data fidelity makes round tripping of data a reality.

Data Reuse – 12d Model maximises data reuse and minimised manual editing.

Future Proofing – easy upgrades to future ADAC Schemas

No Additional Cost – 12d-ADAC is standard part of 12d Model and is included free of charge for customers on annual maintenance.



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Roads and Highways

12d Model's design option is the smarter solution for the design, modification and maintenance of Road and Highway projects.

Enjoy advanced 3D tools to design local and major roads, intersections, roundabouts, highways, interchanges and much more.



Ports and Dredging

12d Model is the solution for port infrastructure and dredging, easily managing the very large datasets and complex volume calculations often required by these projects.

A complete range of flexible and customisable volume calculation tools allow teams to extract and present the information quickly and easily.



Land Development

12d Model is the most versatile solution for the creation of sustainable land development projects, including residential, commercial and industrial developments, recreational areas, landfills, and agriculture projects.

Easily manage all aspects of your land development project from earthwork quantities, road design utilities and drainage design.



Airport Infrastructure

12d Model provides a solution for the design, construction and analysis of new airports, as well as the upgrade and maintenance of existing runways and airport infrastructure.

Easily manage large airport infrastructure projects and share data across multi-disciplinary teams.



Rail

12d Track has been specifically designed for the survey, design and construction of light, heavy and high speed rail projects.

Extensive railway tools in 12d Track allow the rail designer to quickly and easily design their projects. These options are built on the existing 3D modelling and design tools available in 12d Model.



Mining Infrastructure

12d Model's powerful set of exploration, site investigation, survey and analysis tools are crucial for the initial design, construction and ongoing operation of mining projects.

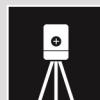
Comprehensive tools for the survey, design and construction of access roads, railways, earthworks and services allow for the coordinated design and management of mining infrastructure from within 12d Model.



Drainage, Sewer and Utilities

12d Model provides comprehensive tools for the design, analysis and optimisation of stormwater and sewer projects using rational, dynamic (hydrograph) and 2d drainage methods.

Powerful clash detection management allows for efficient 3D modelling of service networks such as gas, electricity, telecommunications and water prior to construction.



Surveying

12d Model is a complete surveying package providing the tools to manage all facets of surveyed data including LIDAR, topographical, as-built, conformance, traversing, geodetics, data mapping, labelling and much more.

The 12d Field option runs on a ruggedized tablet and gives the user access to full 12d Model functionality, allowing you to take the entire project into the field with the most comprehensive pick-up and set-out tools.



Oil and Gas

12d Model assists with the design, construction and mapping of oil and gas pipelines, original site exploration and the wide range of infrastructure required for oil and gas projects.

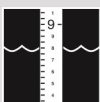
Accurate 3D modelling and the ability to share data between users allow teams to quickly and easily coordinate designs.



Construction

12d Model is the ultimate software for construction with powerful set-out options, direct interfaces to machine control and detailed conformance reporting and auditing.

Manage 3D data and control volumes, quantities and progress claims with 12d Model. Set-out your project and undertake conformance and as-built surveys live on-site using 12d Field.



Rivers, Dams and Hydrology

12d Model handles very large datasets and interfaces with a wide range of analysis packages, making it perfect for flood studies and the management of rivers and dams.

12d has partnered with industry leading analysis software, allowing users to apply 2D drainage analysis from within 12d Model.



Environmental

12d Model's ability to handle very large datasets combined with flexible and comprehensive 3D analysis and modeling tools make it perfect for a wide variety of environmental projects.

Existing workflows can adopt 12d Model easily as it allows users to directly interface with GIS systems and most software packages and file formats.

Why Choose 12d?

- **Powerful data processing & intelligent functionality.**
- **Modular, easy to update & completely customisable.**
- **Seamless integration with major industry software and hardware.**
- **Used in over 55 countries worldwide.**
- **Friendly support & training from industry experts.**

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