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ISIS by **Halcrow**

It's
just got
a new
dimension

- **ISIS 2D¹** with **ADI** and **TVD²** numerical solver
 - links to **ISIS Professional**
 - increased flexibility

and it's
still **free!**³



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Cost effective, integrated modelling solutions

Halcrow

Engine/Features

- Choice of ADI (Alternating Direction Implicit) or TVD (Total Variation Diminishing) solvers
- TVD Solver allows complex hydraulics to be calculated more accurately, especially useful when considering dam breaks, breaches in defences or rapid flow around buildings
- Increased stability as TVD solutions are less prone to numerical oscillations than other solvers
- ISIS 2D ADI and TVD engines have a strong scientific background, based on DIVAST developed by Cardiff University
- ADI solver has been in development for 20+ years, TVD solver since 2007
- Choice between tried and tested and cutting edge methods
- Models surface water flooding using direct rainfall boundaries
- Multi-core capability (to be released in 2009) allowing significantly faster run-times



Flexibility

- Licensing is linked with the ISIS Professional¹ (1D software) licence so the software is easier to deploy to the user
- Licensing and pricing structure that allows you to purchase only what you need and includes network² licences
- Available as part of ISIS Free with a limited domain size which is ideal for smaller studies, SWMPs and flood risk assessments
- Input files use open, standard formats: XML, shapefile, ascii raster
- Flexibility to use any GIS system (and ISIS Mapper) to generate input files
- Benefits from a simple, user-friendly interface
- Streamlined model build in ISIS Mapper, therefore no extra software is required to build your model
- Dynamic, mass conservative 1D-2D linking with the ISIS 1D engine using water levels, flows or weir equations
- Future versions of ISIS 2D will be OpenMI compliant enabling links to other 1D compliant models (river, sewer and hydrology models)
- ISIS Mapper can be used to visualise and post-process output files, allowing high quality model outputs to be generated



Support and maintenance

- Halcrow offer support and maintenance⁶ from the leading experts in the development and application of ISIS. You will receive the latest upgrades to the software at no extra cost and have direct access to the dedicated technical support team



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¹ISIS 2D is currently available at an introductory price of £2,950 (normal price from £4,250) +VAT for an unlimited node licence. ²2D TVD numerical solver is available for an additional £950 + VAT. ³ISIS Free is a fully functional version of ISIS (1D and 2D), limited to 250 1D nodes, 2,500 2D cells and restricted to 10MB ISIS Mapper input files. ⁴ISIS Professional is available from £4,250 + VAT for a 1,000 node licence. ⁵Additional premium of 10% of the current list price for each ISIS product/add-on which is network enabled, plus network license manager. ⁶Annual support and maintenance is available at 15% of current list prices. Prices are subject to change.