

**TUFLOW PRODUCTS SOFTWARE LICENCE AGREEMENT
SCHEDULE B (FM-AUD): TUFLOW FLEXIBLE MESH MODELLING
AUD PRICE LIST
July 1st, 2019**

Please contact sales@tuflow.com for a written quote. To help us assist you, please specify any preferences you have on:

- **Whether a Perpetual, Yearly Subscription, Monthly Rental or Cloud Service purchase.**
- **Lock Type (Hardware or Software).**
- **Licence Type (Local or Network) and number of licenses (1, 2, 4 etc).**
- **Any optional modules (AD, 3D, ST or WQ) and number of module licences.**

Purchase Options:

Licences can be purchased as:

- **Perpetual:** Indefinite expiry date plus an optional annual software upgrade and support fee.
- **Yearly Subscription:** One year expiry and one year of software upgrades and support.
- **Monthly Rental:** Rent licences month by month.
- **Cloud Simulation Service:** TUFLOW FV licence plus hardware at an hourly rate.

Lock Types:

TUFLOW Products are licenced via locks, available in two forms:

1. **Hardware Lock:** Licences are assigned to a dongle (e.g. USB lock) that can be attached to any computer. Licences on the Hardware Lock can be updated at any time (for example, to upscale with rental or additional new perpetual licences).
2. **Software Lock:** Licences are assigned to a computer. Perpetual Licence Software Locks have a one year expiry that are annually updated at no cost. Interim licence updates prior to the one year reset are not possible for Software Lock licences (for example, upscaling with additional rental licences is not possible). Software Locks are recognised by the 2017 Release onwards.

Licence Types:

1. **Local Licence:** TUFLOW FV simulations can only be run on the computer hosting the Lock.
2. **Network Licence:** The Lock is hosted on any computer (e.g. a server). Other computers check out licences from the host computer via the local area network (LAN).

How many simulations can be run at the same time?

The number of licences reflect how many TUFLOW FV simulations can be run in parallel at any given time. For example, a Local 4 can run 4 simulations at the same time on the one computer. A Network 5 allows up to 5 simulations at any one time across an organisation's LAN. If all licences are in use when a TUFLOW FV simulation starts, the simulation enters a holding pattern until a free licence is available.

Are there ongoing costs?

Yes, if you wish to access our support services and keep your perpetual licence maintained to access the latest software upgrades and releases, an annual invoice for 15% of the value of your perpetual licences is issued in June of each year. At the time of the initial purchase, the annual fee is pro-rated to next June.

Are discounts available for multiple licences?

Our price structure heavily discounts purchases of multiple licences. The more licences you own, the cheaper the per licence rate. In addition, a discount is provided for multiple Local Licences of the same product by the same Licensee (i.e. one point of contact for all invoicing).

What TUFLOW functionality is included?

TUFLOW FV is the flexible mesh solver. It can be used to model domains comprising of a mesh of quadrilateral and triangular elements. Licences are 1D and 2D enabled. 1D components in TUFLOW FV are presently limited to 1D culverts (full 1D functionality is available in TUFLOW's fixed grid solvers). TUFLOW FV functionality is expansive, using a 2D or 3D explicit finite volume (FV) solution scheme and supplemented with a range of structure options. Advection-Dispersion (AD), 3D, Sediment Transport (ST) and Water Quality (WQ) are available as optional modules- refer to the Optional Modules Section for information on these advanced features. Key features are:

- Unlimited 1D culverts, 2D elements and 3D Layer (z, sigma or sigma hybrid)
- TUFLOW FV's 2D or 3D explicit solver.
- An open model design, suitable for bespoke add-ons.
- TUFLOW FV is parallelised, allowing a single simulation to utilise more than one thread (i.e. more than one CPU or core).
- User controlled 1st or 2nd Order solution scheme.
- Wide ranging 2D boundary conditions for coastal, flooding and estuarine water quantity and quality applications.
- Structures including culverts, bridges, weirs, gates, pumps and more.
- Numerous output options, styles and formats.
- Supporting matlab functions for advanced 2D and 3D result visualisation.

TUFLOW Perpetual Licence Pricing (AUD)

Perpetual Licences

Item	Description	Perpetual Licence Price (AUD including GST)
Local Licences Allows the Licensee to run one simulation per licence on the computer with the Lock.	Local 1 – Up to 1 Simulation (4 threads)	\$6,600
	Local 2 – Up to 2 Simulations (8 threads)	\$8,800
	Local 4 – Up to 4 Simulations (16 threads)	\$10,340
	Local 6 – Up to 6 Simulations (24 threads)	\$14,080
	Local 8 – Up to 8 Simulations (32 threads)	\$17,820
	Local 12 – Up to 12 Simulations (48 threads)	\$24,420
	Local 16 – Up to 16 Simulations (64 threads)	\$29,040
	Other local lock options	Price upon request
	Additional Local Licence Locks: The price for each additional Local Licence Lock of the same product purchased by the same Licensee (i.e. same office and same organisation) is discounted. The largest discounts apply to the cheapest locks.	Price less discount of: - 10% for the 2 nd Local Lock - 20% for the 3 rd and subsequent Local Locks
Network Licences Allows multiple users and simulations across the licensee's local area network (LAN). Cloud Access Organisations with access to Cloud hardware may host Network Licences within their Cloud domain provided these licences are only available to users who have access to the Licensee's LAN. To host a Network Licence a Software Lock assigned to one of the Organisation's Cloud based virtual machines, is required.	Network 1 – Up to 1 Simulation (4 threads)	\$9,900
	Network 3 – Up to 3 Simulations (12 threads)	\$20,680
	Network 5 – Up to 5 Simulations (20 threads)	\$27,720
	Network 8 – Up to 8 Simulations (32 threads)	\$39,380
	Network 10 – Up to 10 Simulations (40 threads)	\$45,100
	Network 15 – Up to 15 Simulations (60 threads)	\$56,760
	Network 20 – Up to 20 Simulations (80 threads)	\$68,200
	Network 30 – Up to 30 Simulations (120 threads)	\$91,300
	Network 50 – Up to 50 Simulations (100 threads)	\$137,500
	Network 75 – Up to 75 Simulations (300 threads)	\$183,700
	Network 100 and above	\$2,310 per licence
Other network licence options	Price upon request	
Additional Locks: Organisations who purchase a Network 20 or greater are entitled to a second Lock to distribute their Network licences. This provides contingency for host computer outages. Note that a request to reduce the number of licences on a lock may require the lock to be returned for re-coding as part of a redistribution.		
Additional Threads can be purchased. The price is calculated as the base licence price plus half the difference between the base licence and the licence with the desired number of threads. For example, a Local 1 comes with 4 threads. It can be purchased as a Local 1 with 16 threads for: $\$6,600 + (\$9,900 - \$6,600) / 2 = \$8,250$ incl. GST		

Note: TUFLOW FV is parallelised allowing a single simulation to utilise more than one thread (i.e. more than one CPU or core). The maximum total threads activated by TUFLOW FV simulations is limited to four times the maximum number of TUFLOW FV licences available across all accessible dongles, unless additional threads have been purchased. For example, for a Local 4 licence allowable combinations are: 1 simulation utilising 16 cores; or 1 simulation using 8 cores and 2 simulations using 4 cores each; or 4 simulations each utilising 4 cores each.

TUFLOW Perpetual Licence Pricing (AUD)

Optional TUFLOW FV Modules

Computational Modules

TUFLOW FV AD Module	Provides access to the TUFLOW FV AD Module . Can be used to performs simulate plumes, flushing studies, saline intrusion, etc. Includes a heat exchange formulation for thermal studies.	100% of the equivalent TUFLOW Perpetual Licence Price
TUFLOW FV 3D Module	Provides access to the TUFLOW FV 3D Module .	100% of the equivalent TUFLOW Perpetual Licence Price
TUFLOW FV ST / MORPH Module	Provides access to the TUFLOW FV ST Module . Carry out sediment transport simulations, including morphological update.	Please contact sales@tuflow.com for a quotation.
TUFLOW FV WQ Module	Provides access to the TUFLOW FV WQ Module .	Please contact sales@tuflow.com for a quotation.

The number of Module licences on a lock can be the same or less than the number of TUFLOW licences. Additional Local Module Licences are discounted at the same rates as for Additional Local Licence Locks. Modules can be purchased at a later date, and changes to Locks can be carried out remotely.

Example Module Price Calculation

Local 4 TUFLOW Licence + Local 1 AD Module:

\$9,900 + (\$6,600) = \$16,500 incl. GST

TUFLOW Subscription and Rental Licence Pricing (AUD)

Yearly Subscription Licences

Yearly Subscription licences are available for purchase at 40% of the Perpetual Licence price (including one year's annual software upgrades and support fee). These licences give the user access to the software and TUFLOW Support for one year. A Yearly Subscription licence cannot be changed during the one year period, nor can other types of licences be added to the Lock with the Yearly Subscription licence, during the one year period. Should additional licences be required, these will need to be assigned to another Lock.

Example:

Local 1 TUFLOW Subscription Licence:
 $0.4 \times (\$6,600 \times 1.15) = \$3,036 \text{ incl. GST}$

Monthly Rental Licences

Rental of Local and Network Licences on a monthly basis is available to existing TUFLOW Licensees.

Rental Price = R + NL

R = Number of months times 10% of the Purchase Price of the Perpetual Licence Price. A minimum of \$550 applies.

NL = New Lock Purchase (if required) of \$220. Hardware Locks may be retained indefinitely for any future rentals or purchases. Software Locks can be recoded for future purchases for the life of the computer. If the rental licensing is to an existing (non-Perpetual) Lock previously purchased by the Licensee, NL equals zero.

Monthly Rental Conditions:

- Rental of additional Network Licences are priced based on the price difference between the Licensee's Perpetual Network Licence and the value of the Perpetual + Rental Licences. For example, if the Licensee has a Network 10 and rents another 10 licences for one month, R would be equal to (Network 20 – Network 10) x 10%. i.e. $(\$64,900 - \$42,900) \times 0.10 = \$2,200 \text{ incl. GST}$
- Local Licences are not subject to the multi-Local Licence discounts.
- Licensees may purchase (at the cost of NL above), and retain indefinitely, Locks for Rental Licences.
- Rental licences cannot be added to a Perpetual Licence Lock. A secondary lock (see NL above) would be needed to increase the number of Network Licences.

Example:

2 Month Local 1 TUFLOW Rental:
 $2 \times \$6,600 \times 0.10 + \$220 = \$1,540 \text{ incl. GST}$

Note: If renting for more than four (4) months, consideration should be given to a Yearly Subscription Licence.

Note: Perpetual and Rental Locks can be attached to the same computer to access licences from both Locks.

Cloud Simulation Service – Coming Soon

BMT will soon offer a Cloud Simulation Service for TUFLOW. The service is ideally suited to short term bulk simulations. For example, Monte Carlo simulations, where very large numbers of simulations are to be completed within a short timeframe.

For cloud based simulations, BMT will supply the TUFLOW licences, provide access to cloud hardware and run the simulations. Our Cloud Simulation Service is quoted at a per hour rate, which varies depending on the hardware, priority and order size. Upon ordering, we set up a Cloud service, then guide you through the process of uploading, batching the simulations and downloading the results.

To discuss options or for a quote, please contact sales@tuflow.com.

Annual Software Upgrades and Support Fee (AUD)		
Annual Software Upgrades and Support (Maintenance) Fee	<p>The annual software upgrades and support, or software maintenance fee provides access to new releases and software updates. It also grants the Licensee access to software support via support@tuflow.com.</p> <p>The fee is highly recommended for Perpetual Licences and is compulsory for Yearly Subscription Licences.</p> <p>For unmaintained Perpetual Licences a surcharge of 25% on all unpaid annual fees applies should annual maintenance be commenced or reinstated at a later date.</p> <p>There is no annual maintenance fee applied to monthly rental purchases.</p>	<p>15% of the TUFLOW licence value including any purchased modules.</p> <p>The first instalment is pro-rated to the end of next June using the following factors:</p> <p><u>Order Date:</u> Jul to Sep 0.75 Oct to Dec 0.50 Jan to Mar 0.25 Apr to Jun 1.00 (to June next year)</p> <p>Thereafter, an invoice is issued around June each year to cover software upgrades and support for the next 12-month period from July to June.</p>

Miscellaneous		
Academic Licence Discount	Licences and the annual software upgrades and support fee are discounted for academic institutions for non-commercial, educational use.	50% discount on Perpetual and Yearly Subscription Licences
Upgrade of an Existing Licence	<p>Upgrading a licence or licences is allowed if the upgraded licence(s) value is of similar or greater value than the existing licence(s).</p> <p>Local Licences can be converted to Network Licences and vice versa.</p>	<p>The difference in price between the two licences.</p> <p>(If upgrading from a Local Licence Lock the lowest priced Local Lock after any multi-licence discounts is used to calculate the difference.)</p>
Transfer or Replacement of an Existing Lock	<p>If a Lock becomes faulty through normal use, there is no replacement charge - please contact sales@tuflow.com.</p>	No Cost
	Damaged Hardware Locks that are returned and need to be replaced.	\$220
	Software Locks that need to be transferred to another computer.	\$110
Loss of an Existing Hardware Lock or Transfer of a Software Lock Not Possible	<p>The Licensee is responsible for taking out insurance against the loss, theft or disappearance of Hardware Locks, or if a Software Lock cannot be transferred (e.g. computer is stolen or no longer functional).</p> <p>The cost to replace a lost or stolen licence is equal to the Licence Fee of the TUFLOW Software payable at the time of the replacement of the lost Licence Lock.</p>	

This Price List is to be read in conjunction with the latest TUFLOW PRODUCTS SOFTWARE LICENCE AGREEMENT available from <http://www.tuflow.com/Prices.aspx>.

The applicable currency is the currency of the country of the Licensee's invoicing address. TUFLOW Prices are available in AUD, EUR, GBP and USD from <http://www.tuflow.com/Prices.aspx>. For countries, whose official currency is not accounted for by these currencies, the AUD rate applies unless otherwise quoted in writing.

Any applicable non-Australian government taxes are the responsibility of the Licensee.

BMT reserves the right to vary the Prices in this Schedule from time to time without notice to the Licensee.