

## RTB Brunei Upgrades Playout and Archive Systems to Etere 31

The state broadcaster of Brunei, Radio Television Brunei (RTB) upgrades to Etere31 as a vote of confidence in Etere Ecosystem. Etere 31 allows an easy and streamlined connection between applications.



Etere logo



RTB logo



ETX and Multiviewer

Channel in a box Etere  
ETX

Radio Television Brunei (RTB), the state broadcaster of Brunei has upgraded to Etere 31 to leverage the benefits of new capabilities and innovations. Etere's commitment to its research and development empowers organisations like RTB to tap on the latest technological developments curated by the Etere team and to optimize their system for a more efficient performance. All users on support contract have access to unlimited software updates and upgrades. Coupled with Etere's specialized worldwide 24/7 support, Etere users are ready to accelerate time to market and significantly enhance operational efficiency.

RTB has been a user of Etere Ecosystem since 2011. As one of Etere's success stories, in 2018, RTB renews its confidence in Etere with the addition of Etere ETX with integrated Master Control to manage the playout of all its channels. The implementation of **Etere Ecosystem** at RTB has allowed the station to fully embrace automated file-based production and delivery, resulting in operational efficiency and agility.

**Etere ETX** empowers RTB to deliver a highly-efficient and reliable performance with capabilities including:

### ■Multi-Resolution Support of 4K, HD and SD

Etere delivers professional quality with the full flexibility of multi-resolution support including 4K, HD and SD.

### ■Etere T-Workflow

Etere T-Workflow designer empowers RTB to design and run workflows that fit their business requirements perfectly. Operators can set broadcasting management rules and decide how the broadcasting process will be executed between workflow actions. The software tool features a simple design interface that operators can use to create or modify broadcasting procedures from one part of the broadcasting process to another. Etere T-Workflow is designed to carry out multiple independent actions simultaneously.

### ■Closed caption and subtitling insertion

Etere ETX provides integrated closed captioning and subtitling capabilities including CEA608 and CEA708 which can be streamed directly to DVB or ARIB. In addition, Etere offers ETX inserter and time delay to create live subtitling from the same platform.

### ■Archive Integration

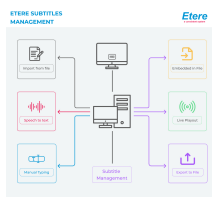
Etere ETX integrates seamlessly with RTB's archive systems. The playout can request files from archive browsing and web. Concurrently, Etere can start the copy from archive to playout through automated workflow. RTB is equipped with **Etere HSM** which manages all archives in a single integrated environment, supporting a mix of systems including Linear Tape-Open (LTO) storage, Sony Optical Disc Archive (ODA) storage, Disk Archive, Object Storage and Cloud Storage.

### ■Simplicity and Efficiency

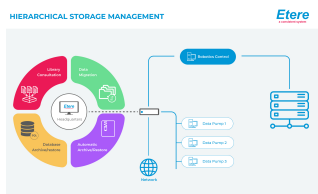
Etere ETX integrates all the features you need to launch a channel on air including scheduling, ingest, storage management, file management, monitoring, playout, multiviewer, subtitle management, graphics and CG from a single interface. Etere ETX delivers broadcast-quality and functionality in a futuristic software solution that is easy to deploy, scale and use. The result is a cost-effective solution that allows



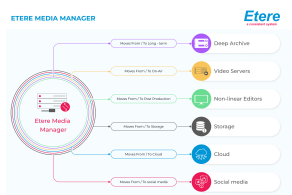
ETERE MASTER CONTROL  
diagram



Subtitling with Closed  
Captions



HSM Diagram



Data Mover Process

you to produce engaging content with no frills and no extra costs.

#### ■Virtualization and Cloud

Etere supports virtual machines and cloud payout. Virtualization allows users to have a virtual environment for unlimited streams, without the associated costs.

#### ■Graphics Engine

Etere ETX's graphics engine enables the full insertion of channel graphics including fixed logos, animated logos, crawls and transition effects to enhance your content. Moreover, a live signal can also be used to insert graphics on demand.

#### ■Speedy Transfers with Etere Media Manager

Graphic files can be imported in any format and distributed to the payout through **Etere Media Manager**. Etere Media Manager manages the transfer, copy and movement of digital content from one level to another based on customisable workflow rules. It integrates with **Etere Transcoder** to provide encoding and decoding between media formats, conversions of bit rates and video resolution adjustments to fit lower/higher resolution screens. Etere Media Manager delivers content across Etere ETX, including between non-linear editors, storage and archive. It features one of the fastest transfer speeds available on the market.

#### ■Etere Master Control for the Integrated Management of Multiple Channels

Etere Master Control integrates all features of a traditional master control, including payout, preview, dual monitoring and playlist browsing, into a software platform with touch-screen capabilities. The solution streamlines your setup while enhancing your payout capabilities at the same time.

#### ■Client Server Application with Redundancy

Etere ETX is a client server application and the ETX servers are controlled remotely by multiple clients. This results in excellent redundancy and fault-tolerance that keeps the system running in perfect tandem.

#### ■Centralized Real-Time System Monitoring

**Etere SNMP** is a centralized real-time system monitoring platform that monitors the operational status of the system and performs diagnostics of devices, applications and workflows. When a problem is detected, SNMP sets off a visual-alarm and sends a real-time email notification to the operations department. The software improves monitoring of devices, modules and workflows of all Etere and external components. As a result, you have a multi-dimensional view of all your operations at your fingertips, making it easy to rectify issues in advance.

## About Etere

Since its beginnings in 1987, Etere has been preparing users to be ready for the future. Etere is a worldwide provider of broadcast and media software solutions backed by its mark of excellence in system design, flexibility and reliability. Engineered in Singapore, the revolutionary concept of Etere Ecosystem promotes real-time collaborations and enhances operational efficiency across the entire enterprise. Etere Ecosystem software solutions including Media Asset Management, Channel-in-a-Box, Newsroom, Ad Insertion, Airsales, Automation, Broadcast Management System, Censorship, HSM Archive, Logging, OTT/VOD Delivery, Radio-Live, Subtitling and Captioning software are built with an integrative Web and Windows architecture that are customisable to fit perfectly in any system. Etere system is developed by 4 different groups in different countries to ensure reliability and quality. Etere delivers on its service excellence commitment with its dedicated team and a 24/7 worldwide support. Its portfolio of digital technologies and market-proven remote/on-site solutions including consultancy, training, installation and demonstrations are ready to run with your business no matter where you are. Etere enhances your adaptability for the future and empowers you with the software tools to drive your business to greater heights. [www.etere.com](http://www.etere.com)

## About Radio Television Brunei (RTB)

RTB (Radio Television Brunei) is the state broadcaster of Brunei. The station transmit five channels through free-to-air, cable and satellite including one HDTV channel offered in Malay and English. Since its first broadcast on 1975, RTB provides over 300'000 viewers with programming mainly focused on news, live sports, TV series, children's shows, nature shows and a wide variety entertainment shows.

