



System T V4.1

Advanced Broadcast Production Tools

Solid State Logic

OXFORD • ENGLAND

System T V4.1

V4.1 delivers market-leading immersive 9.1.2, 9.1.4 and 9.1.6 channel paths and buses for System T, in addition to existing 9.1.2, 9.1.4 and 9.1.6 monitoring capabilities. These join advanced immersive panning tools, a range of multichannel FX including the SSL Bus Compressor, multiband compression, Dynamic EQ, delays and more, plus sophisticated 'Link Bus' architecture for dynamics processing across objects and beds. System T offers the most complete immersive production toolkit available in a digital audio console.

V4.1 also provides a range of new processing effects in the in-built FX Rack. Fusion, Blitzer and Sourcerer join the arsenal of over 60 FX included as standard with every System T. Furthermore, parallel compression is also now available on every audio path, with each channel dynamics section featuring a wet/dry mix control.

With the new 'Dual Channel View' mode in TCA, users can have the traditional feel of a dedicated 32-fader console, all from a PC-based setup. Offering hands-on control over 32 faders, along with dedicated path displays, TCA benefits from the unified UI design across the System T range to present the same premium operational experience and feature set to operators whilst opening the door to new uses and applications – including those requiring portable but powerful configurations with lots of hands-on control.



9.1.2, 9.1.4 and 9.1.6 Paths and Buses

All System T channel paths and buses can now be configured in additional formats of 9.1.2, 9.1.4 and 9.1.6, providing simple support for higher channel count object bed workflows and fixed auditorium installations with 9.1.6 speaker configurations. This is alongside the existing 9.1.6 support for the Control Room Monitor outputs (introduced in V3.3). In addition, the AFL 1 bus and tone buses can also now be configured in formats up to 9.1.6.

Channel Path Types		Opt	7.1.2	7.1.4	9.1.2	9.1.4	9.1.6
Channel	Name		1	1	1	1	1
ID	Name						
1	9.1.6		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>
2	9.1.4		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>
3	9.1.2		<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>

Metering is available for 9.1.2, 9.1.4 and 9.1.6 path formats from Channel View and on a Meter Bridge. As with existing 7.1.4 paths, the height channels are separated for additional clarity.

Advanced folddown parameter control provides the ability to easily create and control downmixes in smaller formats. Additionally, all path formats can utilise the dedicated Spill function to access any individual leg within a formatted path.



A range of FX are available from the FX Rack in the new 9.1.2, 9.1.4 and 9.1.6 formats. This includes delay, dynamics, EQ, modulation and more.

FUSION

The Fusion FX emulates the five key colour circuits found on the award-winning SSL Fusion hardware: Vintage Drive, Violet EQ, HF Compressor, Stereo Image and Transformer. These modules provide five colouration tools designed to bring the perfect combination of added tonal character, weight and space to your mix bus or stereo stems.

All modules are provided in a single FX to enable simple inclusion on main and stem buses. Each processing block can be enabled individually, meaning blocks can be used individually, or combined as desired. The processing blocks can be reordered to achieve the desired processing order.



Vintage Drive



Vintage Drive is a unique non-linear harmonic enhancement circuit that brings cohesion and strength to your mix. Drive and Density controls interact to produce harmonic saturation and soft compression derived from overloading an analogue circuit. It can be used lightly for subtle thickening saturation or driven hard for more extreme distortion.

Violet EQ



Violet EQ is an all-new minimum phase-shift, two-band shelving EQ. It draws on the SSL legacy of carefully selected frequencies and response curves to create a musical and intuitive EQ designed to quickly dial in low-end weight and high-end sheen. High and Low frequency circuits each offer four switched high-frequency points and +/-9dB attenuation.

HF Compressor



High Frequency Compressor recreates the distinctive high frequency smoothing circuit from SSL Fusion. A compressor that effects high frequencies only, optimised for smooth and transparent harshness reduction and a tape-like high-frequency roll off – great for taming brittle high frequency fizz.

Stereo Image



Stereo Image enhancer provides a Mid-Side circuit that manipulates the Side signal, allowing for widening and spatial manipulation of the stereo field. The 'Space' circuit is a frequency-dependent width control based on the concept of Stereo Shuffling, allowing injection of interesting depth effects into the mix. Stereo Image exposes a 'Shuffle' control for changing the frequency cut-off in the Space circuit, allowing you to add weight and presence or carve space in the stereo field.

Transformer



Emulating the 600-ohm, 1:1-wound under-damped transformer found in the Fusion hardware, **Transformer** introduces subtle low-frequency saturation, alongside a high-frequency phase-shift. From subtle presence and body on vocals and instruments, to tight lows and sizzling highs on mixes and masters, the combination of processing effects Transformer offers could be the magic your mix or master is after. Use 'Shine' to attenuate the HF phase shift and turn up the 'Amount' control to amplify harmonic distortion.

Blitzer

Blitzer is a completely new compressor algorithm for the System T console. Blitzer is an ultra-versatile compressor that can produce soft saturating compression to explosive brick-wall limiting.

Blitzer includes 10 unique compression ratios, from 1:1 for adding character without affecting dynamic range, through to 20:1 and BLITZ! modes for ultimate slam. An Auto makeup switch compensates Output gain based on Input gain and compression ratio. A Mix control is provided to allow parallel compression, alongside a sidechain HPF and parametric EQ for tuning the detection signal. Also provided are controls to adjust the transient shaping, a Drive control for adding vintage-style harmonic distortion and an analogue style gain reduction meter.



Sourcerer

Sourcerer is an advanced primary source enhancer, capable of real-time removal of ambient sound from open mics both on the stage and in the broadcast studio. An intuitive interface provides adjustment of the detection threshold and amount of attenuation, allowing desired source signals to pass through whilst removing background noise. A carefully selected combination of time constants provides precise control over the speed at which Sourcerer removes unwanted signals.

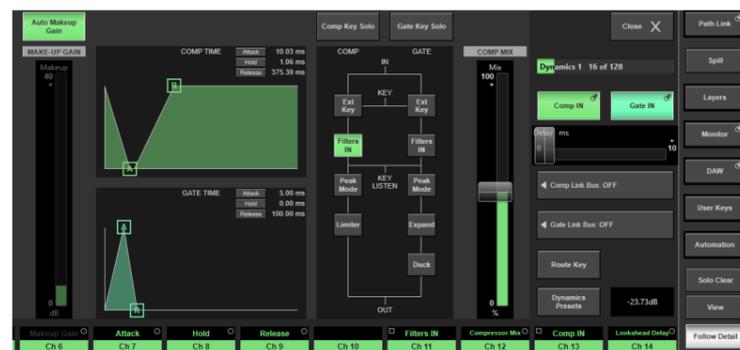


Path Compressor Mix Control

A Mix control in the path dynamics sections provides simple access to parallel compression processing on any path, without the need for additional processing path complications or DSP.

The compressed signal can be blended in parallel with the uncompressed signal. When set to 100% only the compressed signal is used. At 0% only the dry, uncompressed signal passes. 50% provides equal contribution of compressed and uncompressed signals.

The ratio can be set using the on-screen fader or associated quick control encoder when Follow Detail is enabled.



TCA – Channel View 2

Tempest Control App (TCA) provides the same feature set and user interface as found from a dedicated System T control surface, with the added installation flexibility provided by the separation of the control elements. TCA retains full compatibility with all other System T surfaces, engines and I/O.

V4.1 provides an additional Channel View app, meaning that two screens can be used with a single instance of TCA to provide simultaneous viewing and control of 32 paths. Two Desktop Fader tiles can be added to provide hardware controls, meaning that powerful, compact configurations can be built into portable, remote or desktop installations.

System T Cloud

Automated Deployment Additions

System T Cloud is a pioneering virtualised audio mixing solution for live-to-air broadcast. Delivering the premium audio quality, feature set and interface that System T hardware users are accustomed to, System T Cloud is a complete and comprehensive broadcast audio solution.

V4.1 introduces a number of additions to support automated deployment of cloud-based systems. With this approach customers can realise one of the key benefits of cloud-based production systems: deploying resource at the point it is needed. Systems can be created when required and terminated when a production has finished. This vastly reduces the cloud data storage requirements and simplifies the process of creating additional production environments at the point they are needed.



Solid State Logic

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Next Gen Broadcast Audio Production

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