

DEEP OSCILLATION®

Unique, non-invasive, atraumatic therapy technique
with significant pain and oedema relieving effects





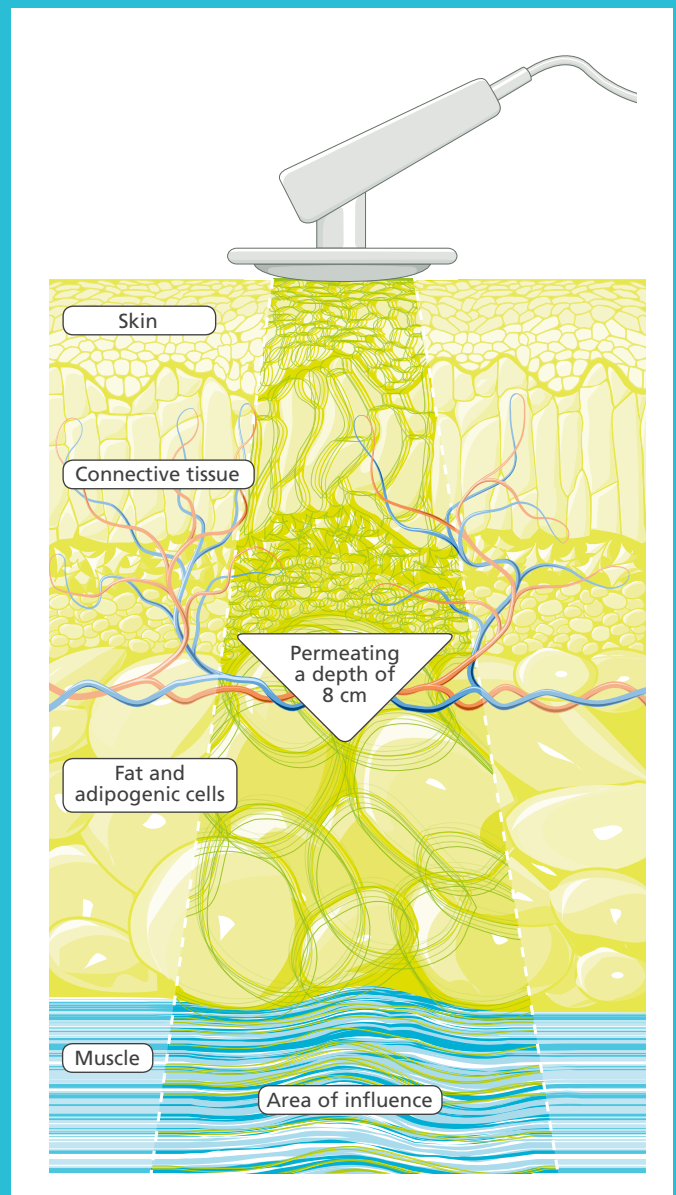
DEEP OSCILLATION®

DEEP OSCILLATION® is a unique international patented non-invasive, non-traumatic therapy method. Its special structure allows you to create biologically effective oscillations in the treated tissue using electrostatic attraction and friction. In contrast to other therapies, these pleasant oscillations have a gentle and deep-acting effect on all tissue components (skin, connective tissue, subcutaneous fat, muscles, blood and lymph vessels). For the treatment, the patient holds a titanium neutral element loosely between the fingers. The pleasant therapy effect of deep oscillation is created beneath special gloves of the therapist or a specially designed hand applicator (second contact) circling over the tissue.

The following effects of DEEP OSCILLATION® are clinically proven:

- » High pain-reducing potential (both for acute traumatic and chronic pain syndromes)
- » Prevention and reduction of secondary and primary lymphoedema
- » Anti-inflammatory effect
- » Preventive fibrotic conversion processes, fibrosis reduction
- » Muscular relaxation, movement-promoting effect, mobilisation
- » Promotes wound healing, particularly for secondary wounds and burns
- » Normalisation of haemodynamic skin parameters and influence on biological ageing through preventive impact on premature ageing

The exceptionally gentle action, early implementation and specific clinical effects make DEEP OSCILLATION® a unique therapy option, which is being used increasingly in medical fields that are not typically focused on by conventional physical therapies.



Fields of application of DEEP OSCILLATION®:

PRE- AND POSTOPERATIVE THERAPY

With deep oscillation, oedemas and haematomas can be relieved pre- and postoperatively considerably faster than with conventional therapies. Because it can be used at an extremely early stage, wound healing is stimulated and accelerated, local inflammation processes are inhibited and pain is significantly reduced over a sustained period. Scar quality is improved. deep oscillation is therefore frequently used as a routine adjuvant post-operative therapy, for instance in oncology, neurology and traumatology. Due to its very gentle therapeutic effect it is used as a first line therapy for conditions after e.g. mastectomy, Caesarean section, osteosynthesis, endoprosthesis etc.

LYMPHOEDEMA

Use of deep oscillation reduces volume in the case of primary and secondary lymphoedema. The therapy is also increasingly used with success for lipoedema. deep oscillation has a preventive and anti-fibrotic effect: incipient fibrosis in particular can be treated effectively. Skin conditions and lymphatic drainage are improved.

MECHANICAL TRAUMATA AND DAMAGE FROM OVERSTRAINING

In the case of traumata and damage from overstraining, deep oscillation has a direct oedema- and pain-reducing effect and consecutively stimulates self-mobilisation in pain-relieved areas, thus enabling an early return to active life. For sportspersons it means an earlier commencement of active forms of therapy and training, for 'normal' patients a swifter return to activities in daily life.

TRAINING AFTERCARE AND PERFORMANCE STABILISATION IN SPORT

In training aftercare, deep oscillation is known for its rapid, muscle-relaxing and pain-relieving effects, and for its direct effect against microtrauma (muscle aches). Roughage and cell remains are removed more quickly through the treatment. This

promotes a more effective nutritional supply to the muscle cells, thus accelerating the restoration to optimal performance. Regeneration times in the systematic training process can thus be reduced.

SECONDARY WOUND HEALING

Deep oscillation is being increasingly used for secondary wound healing, regrettably often as a last resort. deep oscillation is an efficient adjuvant treatment option in the case of both post-operative and diabetic wound healing disorders and oedema-induced secondary wound healing.

BURNS

In the case of second-degree burns wound healing is significantly accelerated and qualitatively improved by deep oscillation.

CHRONIC PAIN SYNDROMES

In indications such as fibromyalgia syndrome, Sudeck's dystrophy etc., which are accompanied by chronic pain, deep oscillation has a strong pain relieving effect, which often allows for a reduction of medicine intake. The treatment promotes mobilization to a great extent, alleviates muscle stiffness and tackles impairments in activities of daily life, with consequent positive effect on fatigue, fears and depression.

NEUROREHABILITATION

In brain stroke rehabilitation deep oscillation is used for semi-paralysed regions of the body to improve trophicity and reduce spasms in affected areas, and also for lymphatic drainage, for instance to treat lymphoedema in the head area. The therapy is also used with great success for children with cerebral palsy and tetraplegia to reduce spasms and treat bowel obstipation.

Deep oscillation is recommended by:

Lymphedema Clinic Wittlinger
www.lymphedema-clinic.com

Center for excellence in lymphedema treatment
Lymphedema rehabilitation center – Treatment
Academy – Training – Research





DEEP OSCILLATION® Evident

Two-channel deep oscillation unit for professional use

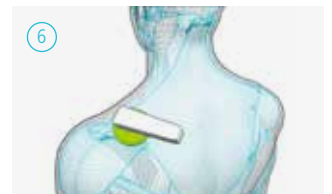


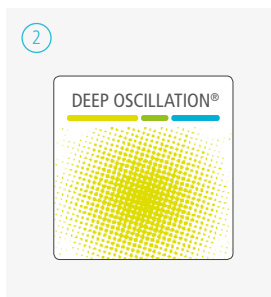
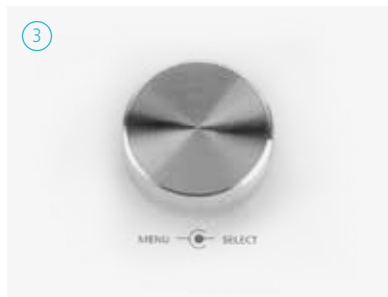
DEEP OSCILLATION® Evident allows you to begin treatment with maximum speed and ease: direct selection of deep oscillation parameters, over the indication index or program memory. During treatment you have a constant overview of all values and timers. With decades of proven use, the PHYSIOMED one-button operation allows fast intuitive operation in combination with the touch screen.

Deep oscillation characteristics can be adjusted precisely to the desired treatment over the individual setting of frequency (or frequency band), duty cycle, burst function and therapy duration. The extensive indication list with practical information, graphics, animations and patient database with 'potpourri' function additionally ease use.

Up to three indication menus can be selected for DEEP OSCILLATION® Evident:

- » CLINICS (for use in clinics, hospitals and physiotherapy practices)
- » SPORTS (for use in sport medicine centres and clinics)
- » AESTHETICS (for use in aesthetic medicine)





SPECIAL FEATURES

DEEP OSCILLATION®

Two-channel deep oscillation

Frequency range from 5 – 250 Hz

Individual setting of frequency, frequency bands, duty cycle, duration of therapy and burst function

Contact elements made from biocompatible titanium

① Special hand applicators in two sizes for all-over and local treatment

Easily interchangeable treatment membranes guarantee a hygienic application

② Individual programmes as well as suggested treatments from the indication index can be easily stored on the DEEP OSCILLATION® therapy card and used with DEEP OSCILLATION® Personal

GENERAL FEATURES

③ Perfected user guidance through combination of touch screen and PHYSIOMED one-button operation

8" colour monitor

④ Swivel and tilt mount for optimum monitor alignment at all times

Comprehensive overview of the therapy parameters including all therapy timers

Fastest therapy start: direct, through program memory or indications index

Treatment index with intelligent filtering functions based on body region or per alphabet for quick location of the desired treatment proposal

⑤ Extensive therapy and dosage suggestions and detailed animations illustrating treatment, which can be viewed during therapy at the touch of a button

Patient database for max. 100 entries: up to 5 treatment levels can be saved and configured as potpourris per patient

Multifunctional intensity controls with emergency stop function and quick switching between channels

TECHNICAL DATA

Protection class	1, type BF
Power connection	100 – 40 VAC ± 10%
Mains frequency	50 / 60 Hz
Current consumption	0.1 A (at 230 V) or 0.2 A (at 115 V)
Power consumption	20 – 30 VA
Output voltage max.	400 V
Load impedance	10 MΩ
Output frequency	5 – 250 Hz
Dimensions (W x H x D)	260 x 350 x 370 mm (monitor unfolded)
Weight	6.2 kg

STANDARD ACCESSORIES

②	Applicator handholds
④	Connection cables DEEP OSCILLATION®
①	Connection cable grey for adhesive electrodes
①	Mains cable
①	Operating instructions
②	Oscillator heads Ø 5 cm
②	Oscillator heads Ø 9.5 cm
②	Patient leads DEEP OSCILLATION®
①	PHYSIOPADS adhesive electrode for DEEP OSCILLATION® (set of 4)
①	Powder
①	Special gloves size M (100 pcs.)
③	Therapy cards DEEP OSCILLATION®
②	Titanium neutral elements
①	Trolley Evident



DEEP OSCILLATION® Personal

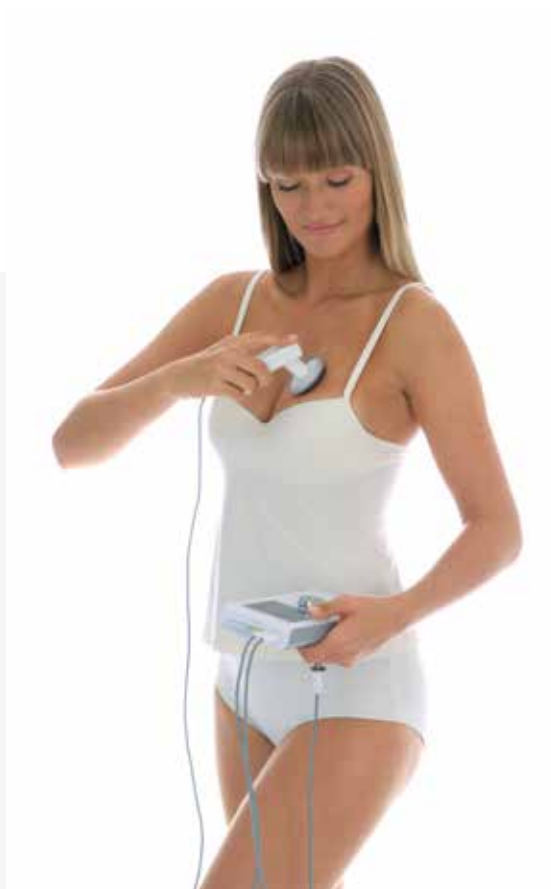
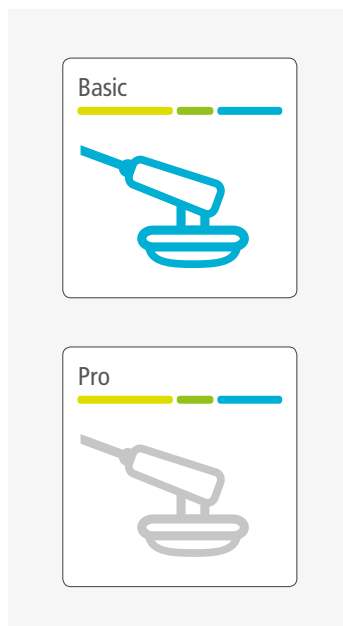
Deep oscillation unit for mobile use or to continue treatment at home



NEW

DEEP OSCILLATION® Personal can be used to read and retrieve program sequences previously written on the DEEP OSCILLATION® therapy card with the DEEP OSCILLATION® Evident unit in the clinic. This enables personalised mobile therapy on the ward and continuation of treatment in the patient's home according to the desired specifications. This way you can guarantee the sustainability of your treatments until the next appointment in your clinic or treatment room.

DEEP OSCILLATION® Personal is also available with the Basic and Pro therapy cards. The Basic version offers a wide selection of the most important indication settings with pre-programmed treatment parameters, which usually consist of different treatment sections of different frequencies. In addition, the Pro therapy card allows all parameters to be set manually as required for up to three therapy sequences of a treatment.



SPECIAL FEATURES

DEEP OSCILLATION®

One-channel deep oscillation

Frequency range from 5 – 250 Hz

Contact elements made from biocompatible titanium

- Special hand applicators in various sizes for both large or local treatments with easily replaceable treatment membranes for hygienic application (optional accessory)

GENERAL FEATURES

Intuitive PHYSIOMED one-button operation

Colour monitor

Comprehensive overview of the therapy parameters

Fastest therapy start over the indication index* or programmable therapy card DEEP OSCILLATION® therapy card

Extensive treatment index* featuring therapeutic information, dosage proposals and application graphics

Battery-driven

**in combination with Basic oder Pro therapy card



STANDARD ACCESSORIES PRO

- Applicator handhold set, consisting of:
 - Hand applicator set
 - Oscillator-head Ø 5 cm
 - Oscillator-head Ø 9,5 cm
 - Connection cable DEEP OSCILLATION®
- Charging device
- Connection cable DEEP OSCILLATION®
- Connection cable grey for adhesive electrodes
- Operating instructions
- PHYSIOPADS adhesive electrode for DEEP OSCILLATION® (set of 4)
- Powder
- Special gloves size M (100 pcs.)
- Therapy card Pro
- Titanium neutral element
- Transportation bag

STANDARD ACCESSORIES BASIC

- Applicator handhold
- Card Basic
- Charging device
- Connection cable DEEP OSCILLATION®
- Connection cable grey for adhesive electrodes
- Operating instructions
- Oscillator-head Ø 5 cm
- PHYSIOPADS adhesive electrode for DEEP OSCILLATION® (set of 4)
- Powder
- Special gloves size M (100 pcs.)
- Titanium neutral element
- Transportation bag

TECHNICAL DATA

Protection class	II, type BF
Input voltage	7.2 VDC
Input current	1.3 ADC
Power supply	1 x 7.2V Li-Ion 24 Wh battery
Output voltage max.	400 Vs
Load impedance	10 MΩ
Output frequency	5 – 50 Hz
Dimensions (W x H x D)	100 x 31 x 190 mm
Weight	0.5 kg
Charging device:	
Power connection	100 – 40 VAC
Mains frequency	50 – 60 Hz
Current consumption max.	0.35 A



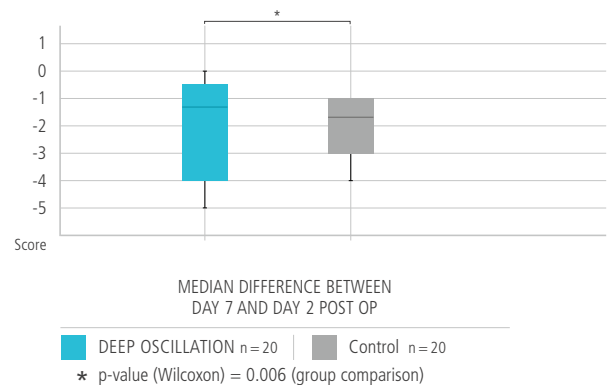
Clinical effects and studies

PAIN REDUCTION

Many medical studies show that deep oscillation reduces pain. The effect in the case of trauma-induced pain is seen in a reduction of noxious inflammatory potential (inflammation syndrome and, among other, Calor, tissue acidosis and prostaglandin) of TRPV1 pain receptors, explained by the mechanical distribution and intensified interstitial drainage via deep oscillation.

In an ex-vivo study Boisnic and Branchet (2013) found significantly fewer TRPV1-expressing keratinocytes than in the control group following deep oscillation treatment. The findings from ex-vivo skin models also confirm a statistically significant pain-reducing potential through deep oscillation.

POST-OPERATIVE PAIN SYNDROME (VAS)
Source: Reinhold et al. (2014)

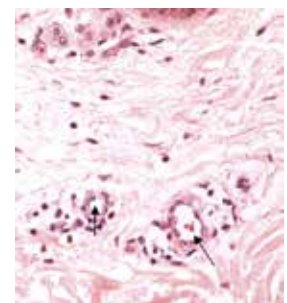
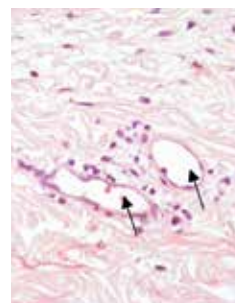
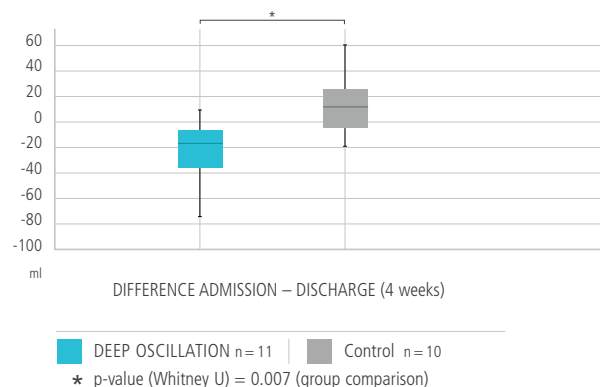


VOLUME CHANGE

Several studies confirm the oedema-reducing effect of deep oscillation. Oscillation effects a 'stirring' of the basic substance, thus promoting the removal of interstitial fluid and substances (proteins, cell debris, neurotransmitters etc.). Interstitial septa and fissures are kept open by the mechanical activation, which helps interstitial drainage. This significantly reduces both local oedema and aseptic inflammation. Proof was also established of a significant reduction in swellings in the area of the wound, due to the treatment. In chronic conditions the treatment helps to disperse fibrosis and to diminish hardening of the tissue.

Ex-vivo tests show that deep oscillation also results in a significant reduction of dermal oedema compared to the control group. Significantly lower values than in the control group were also recorded in the histological evaluation of the percentage of dilated capillaries in the treatment group. Clear differences were likewise established in a histological planimetric measurement of the surface of dilated dermal capillaries (Boisnic and Branchet 2013). The findings suggest a vasomodulating effect (moderate vasoconstriction) of capillaries as a mechanism with an anti-oedematous effect prompted by deep oscillation.

VOLUME MEASUREMENT OEDEMA (3D MEASURING)
Source: Jahr et al. (2008)



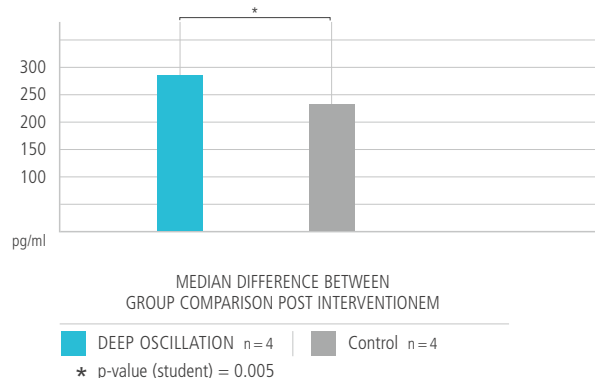
Analysis of vasodilation following HE staining (x 400): untreated skin model (on left). Vasoconstriction of dermal capillaries following two treatments with DEEP OSCILLATION® (on right).

ANTI-INFLAMMATORY EFFECT

Deep oscillation checks acute and chronic inflammation by confining inflammation-promoting cell movement to the affected area. This is achieved by reducing the production of inflammation mediators and minimising water and protein loss from blood and lymph vessels. The findings of a study (ex-vivo) by Boisnic and Branchet (2013) confirm these clinical experiences: DEEP OSCILLATION® achieves a significant reduction in the prominent pro-inflammatory cytokine IL-8 compared to the control group.

CONTENT IL-8 (ELISA)

Source: Boisnic and Branchet (2013)



The physiological effectiveness of deep oscillation has been documented in numerous publications based on experimental and clinical studies:

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Additional accessories for DEEP OSCILLATION®

» A DEVICE-RELATED OVERVIEW OF THE WHOLE RANGE OF ACCESSORIES CAN BE FOUND WITH THE PRODUCTS UNDER "Additional accessories" AT WWW.PHYSIOMED.DE

OSCILLATOR HEAD

Oscillator head		
Ø	for applicator handhold	Order number
1,5 cm	#00396	00387
5,0 cm	#00379	00381
9,5 cm	#00379	00386

MEMBRANE SET (10 PIECES)

Membrane for oscillator head	
Ø	Order number
1,5 cm	00393S
5,0 cm	00391S
9,5 cm	00392S

- Membrane set consisting of special conductive foam, conductive bond and membrane
- Fixation of the membrane between oscillator disc and clamping ring
- Easy exchange

APPLICATOR HANDHOLD

Order number: 00379
Oscillator heads of different sizes may be fixed on the applicator handhold
Plug connection in the handhold for spiral cable #356
Suitable for oscillator head 9.5 cm (#386) and 5 cm (#381)

PIN APPLICATOR

Order number: 00396
Enables self treatment in small treatment areas
Plug connection in the handhold for spiral cable #356
Suitable for oscillator head 1.5 cm (#387)

TITANIUM NEUTRAL ELEMENT

Order number: 00382
Neutral element made from biocompatible titanium (implant quality)

MONOUSE ADHESIVE ELCTRODE

Order number: 00353
Monouse adhesive electrode for deep oscillation
Adhering hydro gel
Diameter 5,5 cm
Quantity: 60 electrodes per pack

SPIRAL LEAD UNIVERSAL

Order number: 00356
Connection cable between deep oscillation unit and pertaining applicator handhold (#379) or titanium neutral element (#382)
Spiral cable Length (extended) in cm : appr. 300
4 mm safety plug on both ends

CONNECTION CABLE GREY FOR ADHESIVE ELECTRODES

Order number: 00262

CONNECTION CABLE DEEP OSCILLATION®

Order number: 00261
Connection cable linking the patient lead DEEP OSCILLATION® (#260) or a DEEP OSCILLATION® Personal with either the titanium neutral element (#382) or the applicator handhold (#379).

POWDER

Order number: 00348
Powder used with DEEP OSCILLATION® to reduce friction and keep the skin dry
Content: 100 g

SWEAT BAND WHITE (2 PIECES)

Order number: 00338
Elastic sweat band for fixation of adhesive electrodes
Length x width in cm: 18 x 6
Quantity 2 pieces

SPECIAL GLOVES SIZE S

Order number: 00345
Special gloves for DEEP OSCILLATION® size S
Quantity per pack: 100
Powdered

SPECIAL GLOVES SIZE L

Order number: 00347
Special gloves for DEEP OSCILLATION® 200 size L
Quantity per pack: 100
Powdered

SPECIAL GLOVES SIZE XL

Order number: 00420
Special gloves for DEEP OSCILLATION® 200 size XL
Quantity per pack: 100
Powdered



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