

Přehled technických novinek z pohledu společnosti Siemens





Some of these products and features are not commercially available in all countries. Future availability cannot be guaranteed. ¹ Fastest measured value on a single system. Based on competitive literature available at time of publication. Data on file.

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The Biograph family Our PET/CT scanner portfolio

cannot be guaranteed. Please contact your local Siemens Healthineers organization for further details.



Biograph Vision PET/CT family



Biograph Vision™ 450

SEMENS Healthingers

Biograph Vision 600



Biograph Vision.X[™]



Biograph Vision and Biograph Vision.X are not commercially available in all countries. Future availability cannot be guaranteed.

Biograph Vision Going beyond digital with the Optiso UDR detector

SIEMENS 100 cps/kBq¹ 214/178 100% 3.2 mm effective **SiPM** LSO time of sensor crystals flight coverage¹ SIEMENS. Healthineers Accuracy Performance **Optiso UDR** Reproducibility **Beyond digital**

¹ Based on internal measurements at time of publication. Data on file;

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Accurately identifying the appropriate disease stage is key to defining the right treatment



Today's challenge

- Identifying additional local lesions, lymph node involvement or small metastases can change patient staging and influence therapy decisions
- Poor spatial resolution can affect
 - Lesion detectability
 - Image quality

Insufficient spatial resolution can negatively affect lesion detectability and staging.

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Transcend digital with Optiso UDR detector



¹ Based on internal measurements at time of publication. Data on file.

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Optiso UDR detector

revolutionizing precision in PET/CT

We are determined to do more than just continue the momentum of improving technology in increments. We're inspired to make breakthrough improvements that would revolutionize PET/CT. The result?

Transcending digital with the Optiso Ultra Dynamic Range (UDR) detector.

 Optiso UDR detector technology reveals a new world of precision—to help you detect small lesions and devise accurate treatment strategies



- Lutetitium oxyorthosilicate (LSO), a fast and efficient scintillator, is grown and cut in-house through a vertically integrated manufacturing process to ensure the highest quality.
- 2. 3.2-mm crystal elements are individually selected and deliver high isotropic spatial resolution; higher spatial resolution may result in improved lesion detectability.
- 100% coverage¹ of the crystal area with SiPM sensors results in a timing resolution of 214-ps¹ and 3.9x higher effective sensitivity² for faster scans and lower dose
- 4. A small block size delivers higher¹ effective peak NECR for improved clinical performance.²
- High-flow direct-cooling of the detector plate allows the detector to operate at room temperature¹ for outstanding performance, serviceability and improved patient comfort.

¹ Based on internal measurements at time of publication. Data on file.
² Compared to current Siemens state-of-the art technologies. Data on file.

Reducing crystal size improves spatial resolution and detectability

3.2-mm crystals

for improved, more precise imaging

Smaller crystal elements and block size improve small-lesion detectability by delivering better volumetric resolution. 3.2-mm crystals allow you to see smaller lesions to help you confidently stage, risk-stratify, and develop appropriate treatment strategies sooner.

- Small crystal elements improve signal-to-noise ratio and quantitative accuracy
- 60% better volumetric resolution¹



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¹ Compared to competitive literature available at time of publication. Data on file.

■ 100% coverage ■ Optiso UDR detector Unrestricted © Siemens Healthcare GmbH, 2018 MI-4180

Clear visualization of the 2.4 mm cylinders of the Mini-Derenzo phantom with Biograph Vision





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SiPM technology with 100% COVERAGE

for optimized performance

Time-of-flight (TOF) performance depends on collecting light from all photons in the scintillation. The Optiso UDR is designed so SiPMs cover the entire lutetitium oxyorthosilicate (LSO)-array area, allowing all light from the scintillation to be detected. This leads to 100% coverage¹ and enables fast temporal resolution.

- Biograph Vision[™] provides 214-ps (picosecond) temporal resolution¹ for best-in-class TOF and effective sensitivity²
- Biograph Vision 3.9x TOF gain³ amplifies scanner sensitivity for faster scans and lower dose



 1 Based on internal measurements at time of publication. Data on file. 2 Compared to competitive literature available at time of publication. Data on file

³ Compared to current Siemens Healthineers state-of-the-art technologies. Data on file.

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LSO scintillator



Time of flight (TOF) PET



TOF is the ability to measure the time difference between the arrival of the two coincidence photons in the PET detector and use that information to:

- Improve lesion detectability and overall image quality
- Improve clinical efficiency by enhancing sensitivity, enabling faster scans and lower dose
- Improve effectiveness of all PET corrections (attenuation, scatter, randoms, MoCo, etc) and image reconstruction

Faster time of flight delivers higher sensitivity gain





Direct histogram PET image Image reconstruction input

NoTOF

LSO/PMT TOF

LSO/SiPM TOF



Budinger, Thomas F., "Time-of-Flight Positron Emission Tomography: Status Relative to Conventional PET", *Journal of Nuclear Medicine*, 1983;24:73-78. **14**

Siemens Healthineers, 2023

Faster TOF reduces noise, which increases detectability of small lesions



High-resolution torso phantom Sphere size (mm): 5.0, 7.9, 9.9, 12.4, 15.4, 19.8 6:1 contrast-to-background

Left and middle image acquired on Biograph mCT. Right image acquired on Biograph Vision. Biograph Vision and its features and applications are not commercially available in all countries. Their future availability cannot be guaranteed. Please contact your local Siemens Healthineers organization for further details.

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Performance



Image quality or patient dose?





Today's challenge

- Delivering high diagnostic value images at lower doses
- Addressing throughput demands

Balancing speed, dose and image quality requires the user to compromise somewhere.

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Biograph Vision's high performance enables high-quality scans with less dose and in less time



Scan time

without compromising image quality

¹Compared to current state-of-the-art technologies. Data on file.

"We have now already, as compared to the older system, reduced the activity we inject... Now it's probably 30% faster with about 30% less dose which is something very acceptable."¹

Prof. John Prior, MD, PhD

Head of Department, Nuclear Medicine

Centre Hospitalier Universitaire Vaudois CHUV, Lausanne, Switzerland

The statements by Siemens' Healthineers customers described herein are based on results that were achieved in the customer's unique setting.

Because there is no "typical" hospital or laboratory and many variables exist (e.g., hospital size, samples mix, case mix, level of IT and/or

automation adoption) there can be no guarantee that other customers will achieve the same results.

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Faster time-of-flight amplifies scanner sensitivity for faster scans and lower doses

Effective sensitivity = NEMA Sensitivity * TOF Gain



¹Based on internal measurements available at time of publication. Data on file. ²Gain calculated for a 20 cm cylindrical object. Biograph Vision and its features and applications are not commercially available in all countries. Their future availability cannot be guaranteed.

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Better effective sensitivity improves total cost of ownership by enabling scans with reduced tracer dose

43% reduction of FDG injected dose compared to previous system at Centre Hospitalier Universitaire Vaudois (CHUV)

Changed ther protocol from 3.5 MBq/kg (0.043 mCi/lb) to 2 MBq/kg (0.025 mCi/lb)

4.4 mCi for a 180 lb patient

Dose cost savings* (accumulated in thousand \$)



* Savings simulated assuming a cost of \$ 200.00 per dose and an average of 50 patients/week

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Low resolution can prevent new lesions from being detected and can lead to inaccurate quantitative values



146k

15%

Yearly cost of treatment with Imatinib mesylate (IM) in US dollars¹ of patients displayed primary resistance to IM treatment²

Discerning non-responders as early as possible in cancer treatment can maximize effective patient care and outcomes

Today's challenge

- Low resolution can impact lesion detectability
- Quantitative values are not always accurate or reproducible
- Low resolution and quantitative accuracy limit the ability to evaluate the progression of the disease and adjust treatment

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¹ http://www.ascopost.com/issues/may-25-2016/the-arrival-of-generic-imatinib-into-the-us-market-an-educational-event/ accessed on 02/Apr/2018; ²Farag, et al, Early Evaluation of Response Using 18F-FDG PET Influences Management in Gastrointestinal Stromal Tumor Patients Treated with Neoadjuvant Imatinib, J Nucl Med 2018



AIDAN Platform

Intelligent imaging platform for PET/CT

AIDAN is powered by unique technologies





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Al-based features at the scanner are based on unique ALPHA technology



ALPHA uses landmarks and reference regions to learn anatomical locations and can recognize features like human visual recognition.

- Algorithm learns from a library of thousands of expert annotated examples
- Use of redundancy: large number of points, spatial relationships, and multiple scales
- Robust regardless of disease, body position and habitus, image range and quality

ALPHA is the foundation for AI-based PET applications at the scanner.



Data courtesy of Praxis für Fusionierte Bildgebung, Halle (Saale), Germany.

The Biograph family—with AIDAN PET/CT AI-powered applications

The AIDAN platform unlocks a host of advanced features such as:

FlowMotion[™] Al¹



Standardize protocols and personalize scans through a dedicated AI algorithm that automatically defines ranges based on each patient's unique anatomy.

OncoFreeze™ Al¹



Deliver images free of motion without extended scan time or external devices—with the click of a button.

1 These products and features are not all available on Biograph Vision Quadra. Their future availability cannot be guaranteed. Please contact your local Siemens Healthineers organization for further details. AIDAN is not commercially available in all countries. Its future availability cannot be guaranteed. Please contact your local Siemens Healthineers organization for further details.

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FlowMotion AI: Moving the standard to personalized care

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The features herein are pending 510(k) clearance, and are not yet commercially available in the United States or other countries worldwide on Biograph Horizon, Biograph mCT and Biograph Vision. Their future availability cannot be guaranteed. The features herein do not yet fulfill all the essential requirements according to the European Medical Device Directive (93/42/EEC) and its national implementations for Biograph mCT and Biograph Vision. They are not yet commercially available in the EU. Future availability cannot be guaranteed. Please contact your local Siemens Healthineers organization for further details. Unrestricted © Siemens Healthcare GmbH, 2018 MI-4180

FlowMotion AI automatically defines scan ranges based on patient anatomy, with the click of a button



The dedicated AI algorithm, based on ALPHA technology, is designed to automatically define scan ranges based on patient anatomy, independent of the user.

- Faster workflow¹
- More personalized scan¹
- Reproducible results from any operator
- Optimum range for scan settings help avoid cut-offs or over radiation





Dedicated AI algorithm enabling FlowMotion AI Based on ALPHA Technology



- <u>A</u>utomatic <u>L</u>andmarking and <u>P</u>arsing of <u>H</u>uman <u>A</u>natomy
- Derives anatomical landmarks based on CT topogram images
- Robust regardless of disease, body position and habitus, image range and quality

How it works

- Algorithm learns from a library of thousands of expert annotated examples
- Use of redundancy: Large number of points, spatial relationships, multiple scales

What it does in FlowMotion AI

Recognizes the patient anatomy and automatically defines scan ranges based on individual organ, aiming for a faster and more personalized workflow at the scanner¹

¹Compared to PET/CT systems without FlowMotion

Data courtesy of Praxis für Fusionierte Bildgebung, Halle (Saale), Germany.

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OncoFreeze AI: Deviceless solution for images virtually free of motion without extending scan time







OncoFreeze AI offers the ability to provide motion-free PET images by enabling a simple check box.



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Today's challenges to provide respiratory motion management for every patient







Number of patients affected

90% of oncological disease is located in areas subject to respiratory motion¹



Clinical Impact

Without respiratory gating, 40% of lung lesions may even go undetected²



Setup with conventional methods

Up to 11 minutes added to every respiratory gated scan



Additional scan time required

Up to 3 times longer to scan areas that can be impacted by respiratory motion

¹BIO-TECH SYSTEMS, INC. Report 2008. ² Garcia Vicente AM, et al. (18) F-FDG PET-CT respiratory gating in characterization of pulmonary lesions: approximation towards clinical indications. Ann Nucl Med. 2010 April 24 (3) 207-14

Deviceless waveform

Artificial intelligence enables the system to identify a waveform generated from respiratory motion without the need for an external device.

This eliminates the need for additional setup to acquire a respiratory waveform to generate motion-frozen or moving PET reconstructed images.



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Dedicated AI algorithm enabling OncoFreeze AI Based on ALPHA Technology

What ALPHA does

- <u>Automatic Landmarking and Parsing of Human Anatomy</u>
- Derives anatomical landmarks based on CT topogram images
- Robust regardless of disease, body position and habitus, image range and quality

How it works

- Algorithm learns from a library of thousands of expert annotated examples
- Use of redundancy: Large number of points, spatial relationships, multiple scales

What does it do in OncoFreeze AI

ALPHA technology will identify specific anatomical landmarks, to determine the zone to be corrected for respiratory motion automatically for each patient.

Data courtesy of Praxis für Fusionierte Bildgebung, Halle (Saale), Germany.

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Introducing Biograph Vision.X

with next-level performance



Biograph Vision.X[™] is not commercially available in all countries. Future availability cannot be guaranteed.

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Introducing Biograph Vision.X PET/CT Next-level PET/CT performance





Biograph Vision.X[™] with exclusive, high-performance detector technology

- Industry-leading **178-ps**¹ time of flight (TOF)
- Outstanding performance gain up to 20%²
- The fastest time of flight (TOF) performance in the industry¹

¹Fastest measured value on a single system. Based on competitive literature available at time of publication. Data on file. ² Measured value on a single system. Data on file.

Biograph Vision.X is not commercially available in all countries. Future availability cannot be guaranteed.

Faster time of flight (TOF) amplifies scanner sensitivity for faster scans and lower doses





¹ Fastest measured value on a single system. Based on competitive literature available at time of publication. Data on file. Biograph Vision.X[™] is not commercially available in all countries. Future availability cannot be guaranteed.

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The Symbia family

Setting the standard for SPECT and SPECT/CT imaging







¹ For patients up to 227 kg (500 lb). | All claims based on competitive literature available at time of publication. Data on file. Symbia Pro.specta and xSPECT Quant ¹³¹I are not commercially available in all countries. Future availability cannot be guaranteed.

The Symbia family Flexibility to meet your needs today and in the future





pallet deflection reduction, 227 kg (500 lb) support, Autocontour, detector flexibility

Clinical productivity: Automatic Collimator Changer, Automatic Quality Control, IQ•SPECT[®]

	Automatic SPECT motion	Low-dose diagnostic	Intelligent imaging with
	correction	CT : 32/64 with iMAR	myExam Companion
xSPECT™ technologies: xSPECT Bone™, xSPECT Quant™, Broad Quantification™			antification™

Symbia Pro.specta and its features are not commercially available in all countries. Future availability cannot be guaranteed.

Symbia Pro.specta SPECT/CT with myExam Companion Intelligent imaging in SPECT/CT



Symbia Pro.specta[™] and its features are not commercially available in all countries. Due to regulatory reasons, their future availability cannot be guaranteed. Please contact your local Siemens Healthineers organization for further details.

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Spending hours per week handling and moving equipment negatively impacts workplace satisfaction



Top three priorities

of nuclear medicine departments

- Improve patient satisfaction
- Improve workflow and productivity
- Manage department costs

Time unnecessarily spent with equipment takes technologists away from patients.

Symbia Productivity Package Optimize workflow. Increase patient satisfaction.



Symbia[™] Productivity Package

streamlines your workflow by automating collimator change and quality control, so more time can be spent performing patientcentric activities.





Automatic Collimator Changer

- Operator independent
- Less risk of equipment damage
- Conserve space
- 5 minutes gained per exchange

Automatic Quality Control

- Quality control runs overnight
- Results in the morning
- Reduced operator exposure
- Patient-focused start to each day

Automatic Quality Control Gain up to one hour each day for more value-added tasks



Convert hundreds of hours each year from manually performing quality control to helping your patients.

Automatic Quality Control (AQC)

- Automatically run quality control overnight
- Get results first thing in the morning
- Start each day focused on your patients
- Reduce operator radiation exposure



Conventional calibration and system quality control consumes up to 1 hour per day







Automatic Collimator Changer Simplify workflow. Eliminate variability.



Change collimators and reconfigure detectors with a just a few clicks to streamline workflow and improve the experience.

Automatic Collimator Changer (ACC)

- Change collimators up to 50% faster with ACC¹
- Eliminate variability from manual handling
- Lower risk of equipment damage
- Conserve space by reducing the need for additional collimator carts



Minimum dose. Maximum speed. The fundamentals of IQ•SPECT technology



Unique magnifying collimators

Cardio-centric acquisition

Advanced reconstruction







Advanced IQ•SPECT reconstruction Dose protocol and acquisition time by patient



Conventional IQ●SPECT[™] Dose Time Dose Time Full 16 min. Full 4 min. **Standard** 16 min. Half Half 8 min. **Pediatric** 8 min. 16 min. Full Full **Bariatric**

Enhance your nuclear medicine department with intelligent oncology SPECT/CT imaging



¹ Compared to conventional iterative reconstruction methods

² iMAR is designed to yield images with a reduced level of metal artifacts compared to conventional reconstruction if the underlying CT data is distorted by metal being present in the scanned object. The exact amount of metal artifact reduction and the corresponding improvement in image quality achievable depends on a number of factors, including composition and size of the metal part within the object, the patient size, anatomical location and clinical practice. It is recommended, to perform iMAR reconstruction in addition to conventional reconstruction. Symbia Pro.specta[™] and its features are not commercially available in all countries. Due to regulatory reasons, their future availability cannot be guaranteed. Please contact your local Siemens Healthineers organization for further details.

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Symbia Pro.specta SPECT/CT with myExam Companion MC Pro: Automatic motion correction for SPECT applications





Eliminate user variability when performing motion correction with MC Pro

- Apply motion correction automatically for SPECT applications with a simple on/off selection
- Improve image quality for most studies by automatically correcting for patient movement
- Achieve greater consistency across users and exams with automatic motion correction

Applicable for all SPECT reconstructions except for dynamic SPECT.

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xSPECT Bone differentiates tissue boundaries for high-resolution bone imaging





xSPECT Bone™

- Uses CT as the frame-of-reference for image reconstruction
- Extracts a zone map with definition around different tissue segments to better delineate the boundaries of pharmaceutical uptake

The result: sharper definition of bony margins to generate the degree of image quality needed to reveal a patient's true condition in a single exam

xSPECT Bone image alone shows clear vertebrae uptake





CT

3D iterative with CTAC

xSPECT Bone™/CT

Reduce metal artifacts in clinical routine iMAR¹ (iterative Metal Artifact Reduction)



Reduce metal artifacts in clinical routine with a proven high-end iterative algorithm

- Improve your process efficiency with an algorithm that can handle different metal implants
- Leverage your ability to address more challenging cases (e.g., dental fillings, pacemakers)
- Extend your referral base by delivering outstanding image quality in orthopedics

¹ iMAR is designed to yield images with a reduced level of metal artifacts compared to conventional reconstruction if the underlying CT data is distorted by metal being present in the scanned object. The exact amount of metal artifact reduction and the corresponding improvement in image quality achievable depends on a number of factors, including composition and size of the metal part within the object, the patient size, anatomical location and clinical practice. It is recommended, to perform iMAR reconstruction in addition to conventional reconstruction.

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Healthin

iMAR improves biliary drainage catheter visualization in ^{99m}Tc HIDA SPECT/CT following liver tumor embolization



SPECT MIP









Planar static

CT with iMAR

SPECT MPR

SPECT/CT iMAR fused



- Patient with cholangiocarcinoma treated with right-sided dual-venous embolization
- Biliary drainage catheter draining externally left in situ
- Hepatobiliary scan with dynamic and static SPECT/CT performed to assess function of remnant liver tissue
- CT with iMAR eliminates metal artifact from biliary drainage catheter enabling clear visualization of catheter tip

Symbia Pro.specta[™] SPECT/CT

SPECT

Scan acquisition: 60 stops per detector, 10 seconds/stop OSEM3D 24i,4s 128x128 matrix

Injected dose: ^{99m}Tc-HIDA 3.8 mCi (142 MBg)

СТ

Scan parameters: 120 kV/40ref mAs 0.33 sec rotation 32x0.7 mm collimation 2 mm recon BR40 S3 iMAR 53 Restricted © Siemens Healthineers, 2022

CT No iMAR

Data courtesy of Queen Elizabeth Hospital, Birmingham, United Kingdom, iMAR is designed to yield images with a reduced level of metal artifacts compared to conventional reconstruction if the underlying CT data is distorted by metal being present in the scanned object. The exact amount of metal artifact reduction and the corresponding improvement in image quality achievable depends on a number of factors, including composition and size of the metal part within the object, the patient size, anatomical location and clinical practice. It is recommended, to perform iMAR reconstruction in addition to conventional reconstruction. Symbia Pro.specta™ and its features are not commercially available in all countries. Due to regulatory reasons, their future availability cannot be guaranteed. Please contact your local Siemens Healthineers organization for further details.

Enhance your nuclear medicine department with intelligent oncology SPECT/CT imaging



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Symbia Pro.specta SPECT/CT with myExam Companion CR Pro and Gated CR Pro: Faster scans with continuous rotation



Symbia Pro.specta[™] is the first SPECT/CT to perform continuous-rotation acquisitions for all SPECT applications, including gated studies

- CR Pro reduces whole-body SPECT studies by 16 minutes¹
- Gated CR Pro reduces cardiac study time by up to 25%²



¹ Assumes a 5-bed study.

² Based on typical clinical workflow compared to a step-and-shoot gating acquisition.

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Symbia Pro.specta SPECT/CT with myExam Companion AutoPlanar: automatically create planar images





Automatically create supporting planar images without the need to perform a separate acquisition

- Up to 8 virtual static planar images (anterior, posterior, lateral, etc.) can be created from a SPECT acquisition
- Up to 2 virtual whole-body planar images (anterior and posterior) can be created from a whole-body SPECT acquisition

Data courtesy of Queen Elizabeth Hospital, Birmingham, United Kingdom.

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Děkuji za pozornost

Radomír Klíčník

Siemens Healthcare, s.r.o. Sales & Portfolio Solutions Management - DI&AT&US SHS EMEA CEECA CZE S&PSM-DI&AT&US Podnikatelska 2924/2 612 00 Brno, CZECH REPUBLIC Mobile: +420 602771300 mailto:radomir.klicnik@siemens-healthineers.com

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