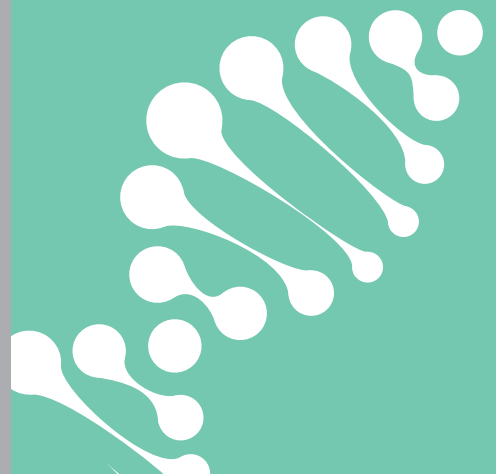




Every
Diagnosis
Counts

HiFISH

Digital FISH Analysis Platform



POWERED BY
GENASIS

ASI APPLIED
SPECTRAL
IMAGING

The Ultimate Digital FISH Workflow

Digitize slides, analyze cells and report

1

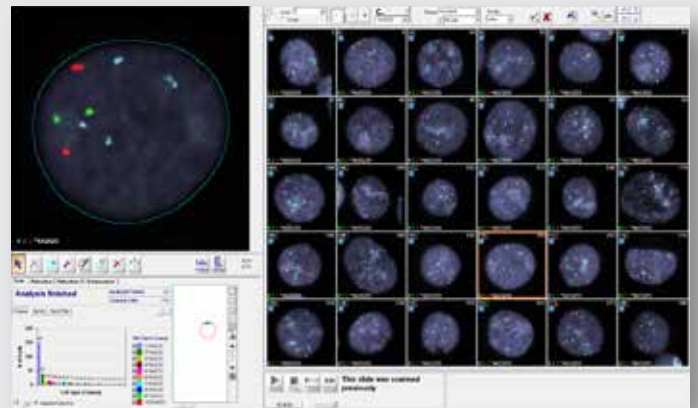
**Scan
& Capture**



Automated FISH scan and capture
with real-time analysis

2

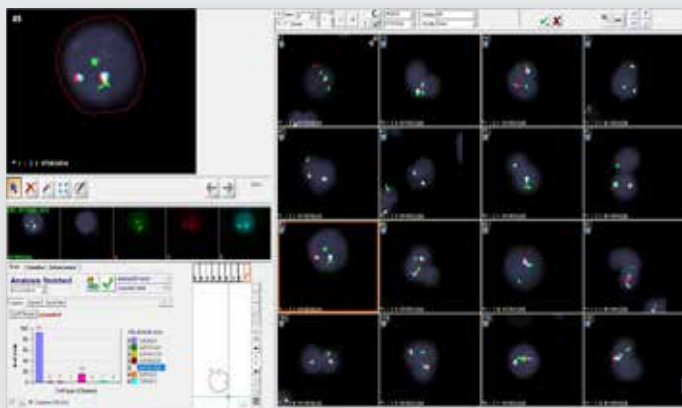
**View
& Analyze**



Flexible analysis workflows for single
or multiple readers

Scan >>> Analyze >>> Review >>> Report >>> Complete!

Review & Approve



Review and approval of final statistics

Report



Create report with final statistics and cell images



Lab Productivity

Digital workflows enable labor efficiencies and time savings every step of the way



Diagnostic Confidence

Accurate computer-assisted analysis provides higher confidence in patient assessment

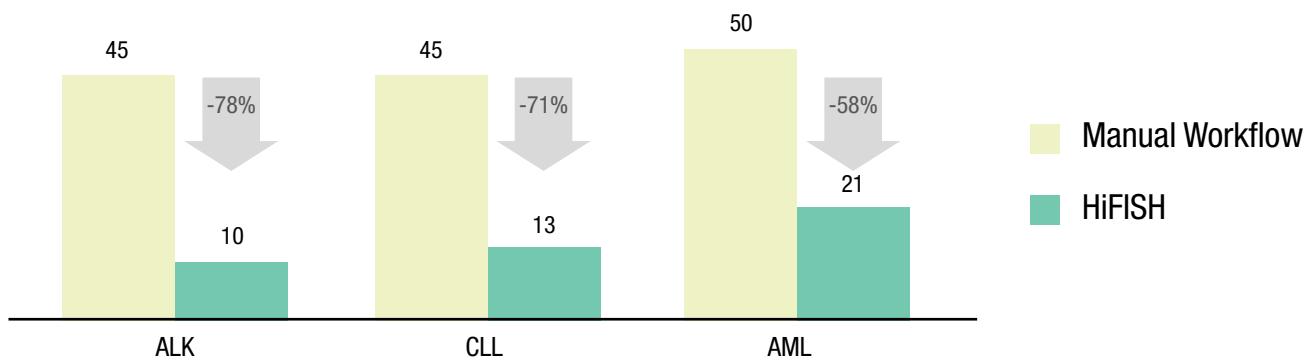


Onscreen Analysis

Onscreen FISH analysis in the light significantly improves technologist user experience

Increased Lab Productivity with Automation

Over 55% Time Savings (Minutes / Case)



“HiFISH allows us to view much more cells than we would with a manual microscope, which leads to more accurate and reliable results. Manual FISH analysis is also tedious and leads to technologist fatigue but HiFISH never gets tired.”

Dr. Yarin Hadid, Bnai Zion Medical Center

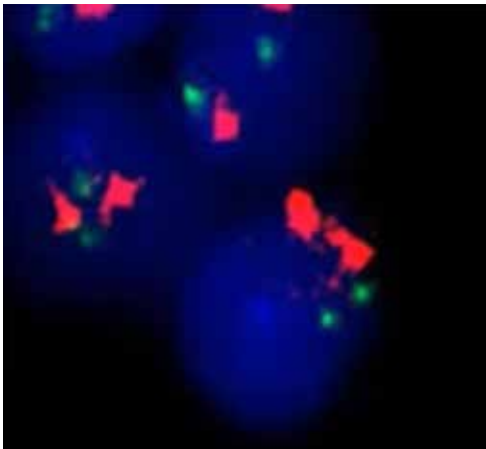
Digitize Your Slides

Robust Image Quality Through Adaptive Statistical Algorithms

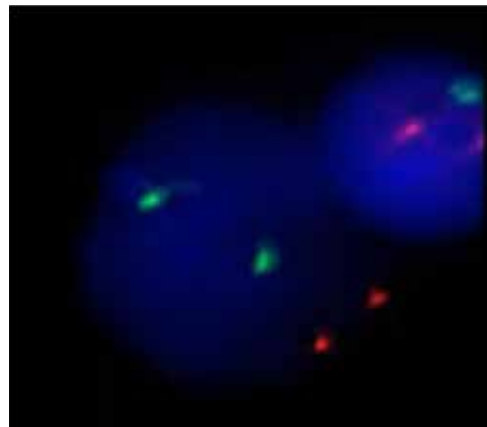
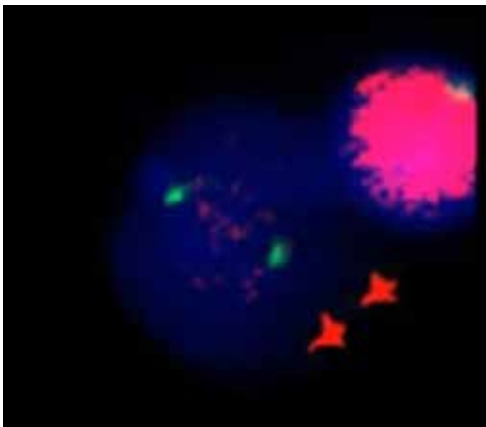
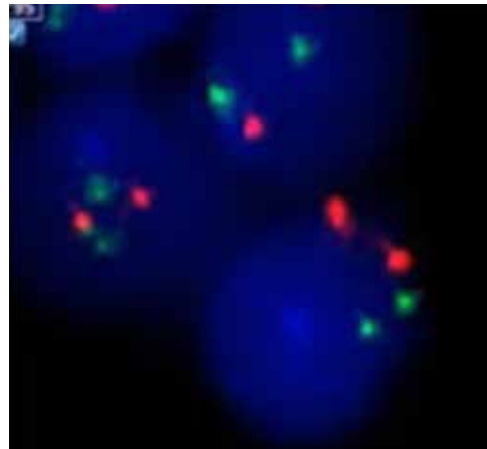
Validated to identify what the human eye may not see for standardized results

- ✓ Sophisticated acquisition parameters optimization
- ✓ Consistent signals appearance across sample
- ✓ Reduction of external debris and nuclear noise
- ✓ Eliminated need for manual parameters manipulation
- ✓ Optimized visualization & classification

Before



After



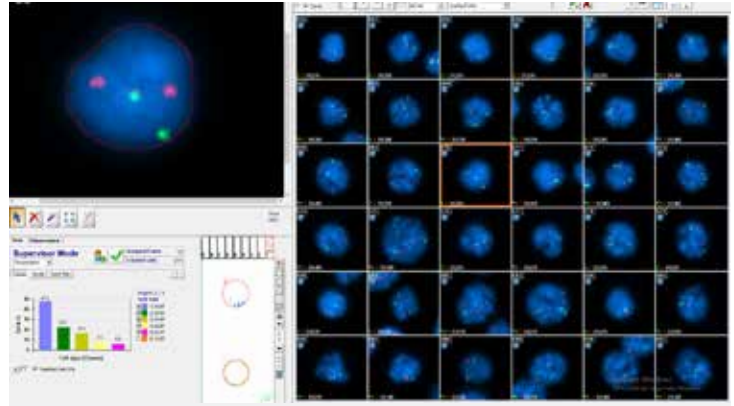
Digital FISH Analysis

Accuracy, Consistency, Ease-of-Use

Versatile FISH review and analysis workflows

Flexible to match your laboratory needs

- ✓ Multi-reader double blinded analysis
- ✓ Supports multi-well slides
- ✓ Status indication per region
- ✓ Informative slide statuses for better workflow management
- ✓ Integrated QC application



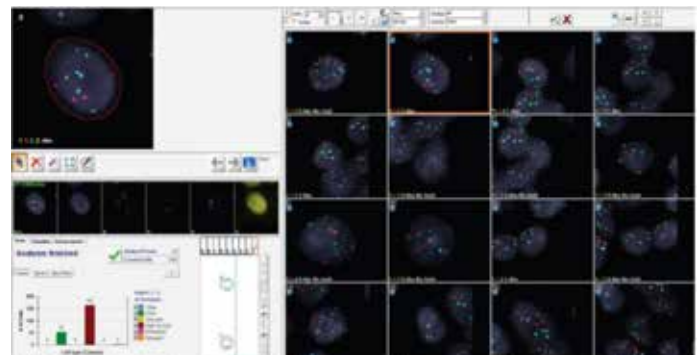
“Digital FISH analysis provides more efficient and accurate results and better patient care in comparison to traditional FISH methods.”

Liew M, Rowe L, Clement PW, Miles RR, Salama ME., J Pathol Inform

Diagnostic Confidence

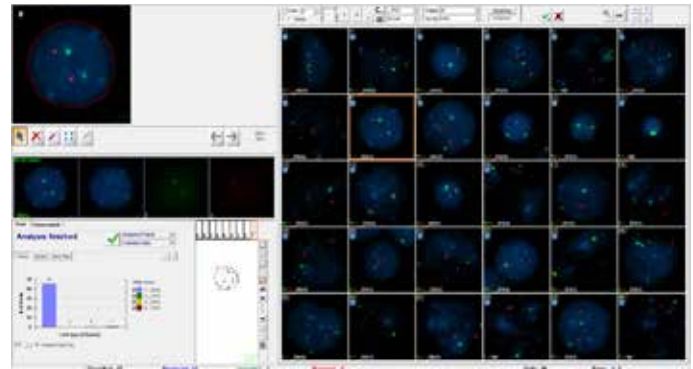
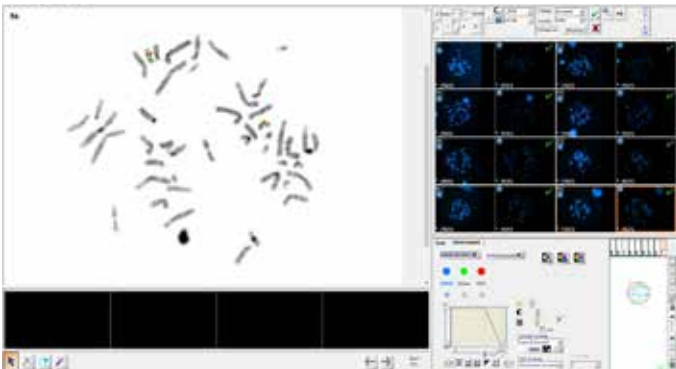
Improved Patient Care Through Better Results

- ✓ Robust and consistent high image **quality**
- ✓ No signal missed with 3D capture
- ✓ **Accurate** signal detection and cell classification
- ✓ **Robust signal visualization**
- ✓ Automatic **detection** of **abnormal patterns**
- ✓ **Consistent**, standardized and reliable results
- ✓ Probe vendor-agnostic

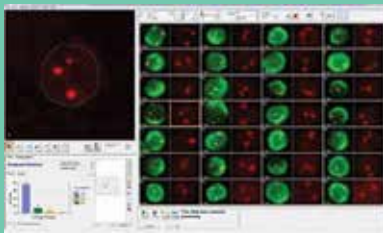


QC Application - Simultaneous Interphase & Metaphase Capture

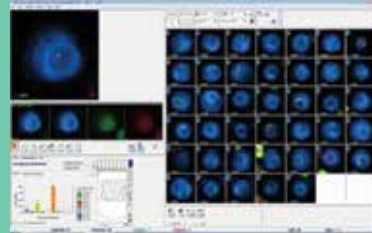
Identify probe signals on chromosomes to confirm FISH analysis accuracy



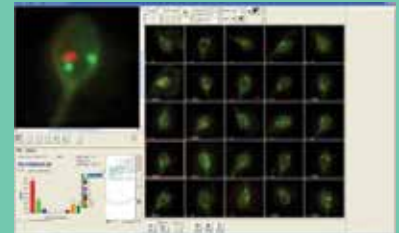
HiFISH for Research Applications



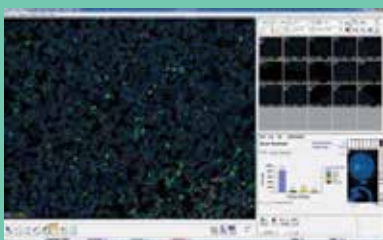
Circulating Tumor Cells



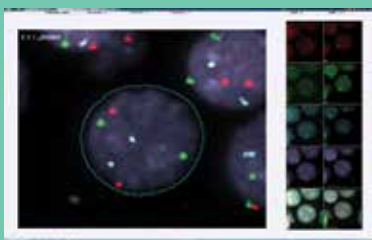
clgFISH



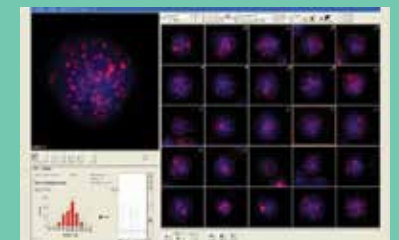
Sperm Cells



Immuno Fluorescence



Successive Staining



Telomeres



Probe	Gate	Intensity	Size	Area	Perimeter	Shape	Class
20p11.2-13	1.48	0.01	10000	10000	10000	10000	1
10p11.2-13	1.48	0.01	10000	10000	10000	10000	1
10p11.2-13	1.48	0.01	10000	10000	10000	10000	1
10p11.2-13	1.48	0.01	10000	10000	10000	10000	1
10p11.2-13	1.48	0.01	10000	10000	10000	10000	1
10p11.2-13	1.48	0.01	10000	10000	10000	10000	1
10p11.2-13	1.48	0.01	10000	10000	10000	10000	1
10p11.2-13	1.48	0.01	10000	10000	10000	10000	1
10p11.2-13	1.48	0.01	10000	10000	10000	10000	1
10p11.2-13	1.48	0.01	10000	10000	10000	10000	1

Quality Control of Probe Assays

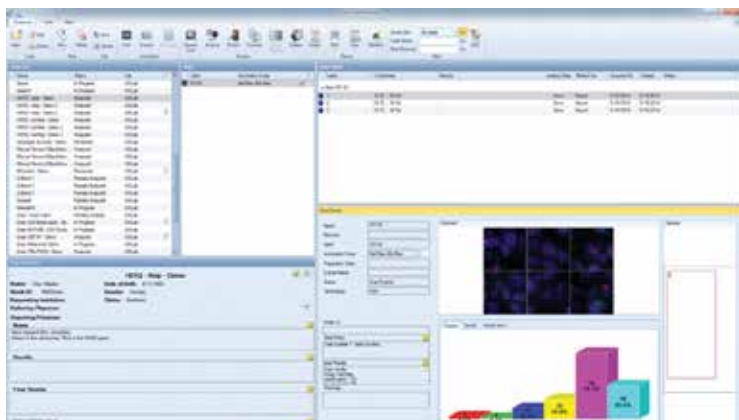
Cell phenotyping and signal classification

Measurement and display of multiple cellular and signal properties

Data Management and Connectivity

Modern Paperless Workflow

Central Portal and Database
Easily Integrates with Lab LIS



Case Data Management (CDM)

- ✓ Efficient
- ✓ Comprehensive
- ✓ Eliminates human error

Become a Data-Driven Lab with LabLife™

Generate lab performance statistics



Benchmarks

Calculate performance benchmarks and track your KPIs. Meet certification and regulatory requirements



Optimization

Identify best practices to increase ROI per case and focus improvement efforts



Growth

Justify investment in additional capital equipment for the lab



Annual analysis and review

Compare performance year on year and make data driven decisions

GenASIs AnyWhere™

A Virtual Laboratory

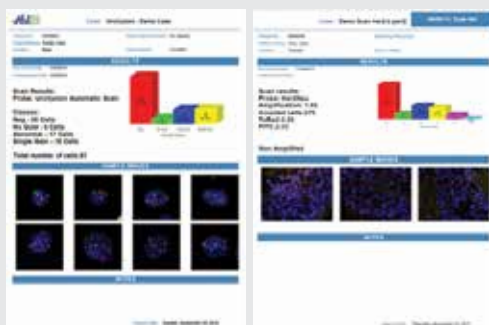
GenASIs™ AnyWhere is Applied Spectral Imaging's complete remote access solution enabling HIPAA-compliant access, review, analysis, and sign-off of cases from any location, via a secure link to your lab's GenASIs platform.

In today's world, working remotely has become a necessity.

- ✓ Optimal for remote consultation, educational and training needs
- ✓ Uncompromised data security
- ✓ Efficient management and maintenance of multiple systems, and users
- ✓ Distance-bridging for multi-site and geographically distributed organizations
- ✓ Increases productivity and reduces turnaround time



Advanced Reporting



1D/2D Barcode Reader



LIS Connectivity

- ✓ Performance
- ✓ Security
- ✓ Data Integrity
- ✓ HIPAA Compliant

ASI Company Overview

Applied Spectral Imaging (ASI) is a global leader in biomedical imaging with a comprehensive product portfolio and a global distribution footprint.

Founded in 1993, ASI markets, services and supports its products in nearly 90 countries. The Company's technology, powered by GenASIs, enables pathology, cytogenetics and research laboratories to provide advanced diagnostics to patients through superior digital diagnostic tools.

ASI has a wide portfolio of dedicated solutions for brightfield, fluorescence and spectral imaging and analysis, including HiPath Pro, PathFusion, HiBand, HiFISH, CytoPower and Rainbow.

ASI's wide FDA clearance portfolio includes: FDA clearance for BandView, FISHView, SpotScan for CEP XY, UroVysion, ALK and HER2/neu FISH, and for HiPath IHC Family for HER2, ER, PR, and Ki67, on the manual configuration

The Company has offices in the US and Asia and a global network of distribution partners.

Global Presence

4,500

Systems installed
worldwide

86

Countries through direct
& indirect sales forces

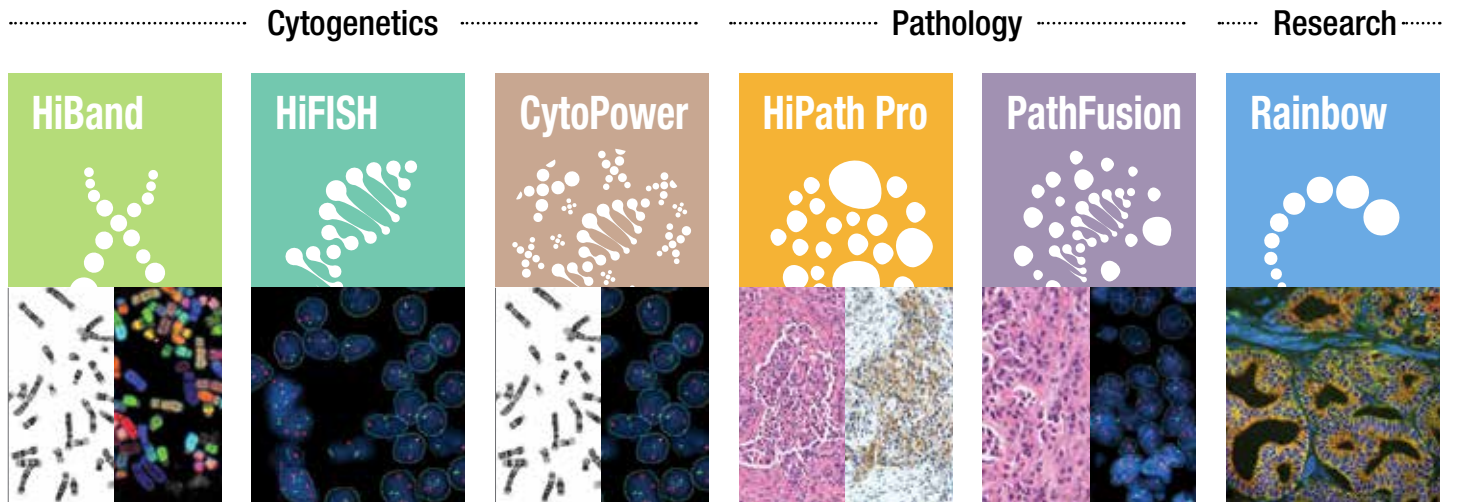
71

Third party distribution
partners



The Company's Product Portfolio

Imaging & Analysis Solutions for Laboratories



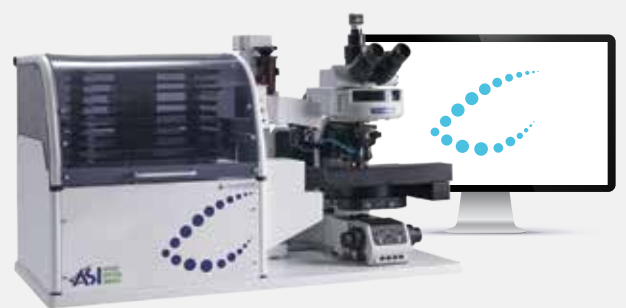
Diverse platforms can accommodate all laboratory needs



1-Slide Capture System



9-Slide Scanning System



99-Slide Tray Loader



HyperSpectral System



Review & Analysis Station



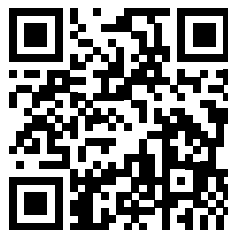
AnyWhere Remote Connectivity

System Specifications



	Manual 1 Slide		9 Slide Motorized Stage		99 Slide Tray Loader	
Microscope Support	FL upright microscopes		OLYMPUS BX61 FL OLYMPUS BX63 FL ZEISS Axiolmager Z2 FL		OLYMPUS BX61 FL OLYMPUS BX63 FL ZEISS Axiolmager Z2 FL	
Objectives	Olympus 10x/0.3NA 60x/1.25NA	ZEISS 10x/0.3NA 63x/1.25NA	Olympus 10x/0.3NA 40x/1.4NA 60x/1.25NA	ZEISS 10x/0.3NA 40x/1.3NA 63x/1.25NA	Olympus 4x/0.16NA 10x/0.3NA 40x/1.4NA 60x/1.25NA	ZEISS 5x/0.16NA 10x/0.3NA 40x/1.3NA 63x/1.25NA
Camera	5MP CMOS Monochrome		5MP CMOS Monochrome		5MP CMOS Monochrome	
Slide Capacity	1 slide		9 slides		99+ slides	
Barcode Reader	Handheld 1D/2D		Handheld 1D/2D		Integrated 1D/2D	
Automatic Oil Dispenser	N/A		Optional		Integrated	
Dimensions	According to clients microscope		61cm x 69cm x 85cm (24" x 27.2" x 33.5")		100cm x 90cm x 90cm (39.4" x 35.5" x 35.5")	
Weight	According to clients microscope		45Kg 99.2lb		80Kg 176.4lb	

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