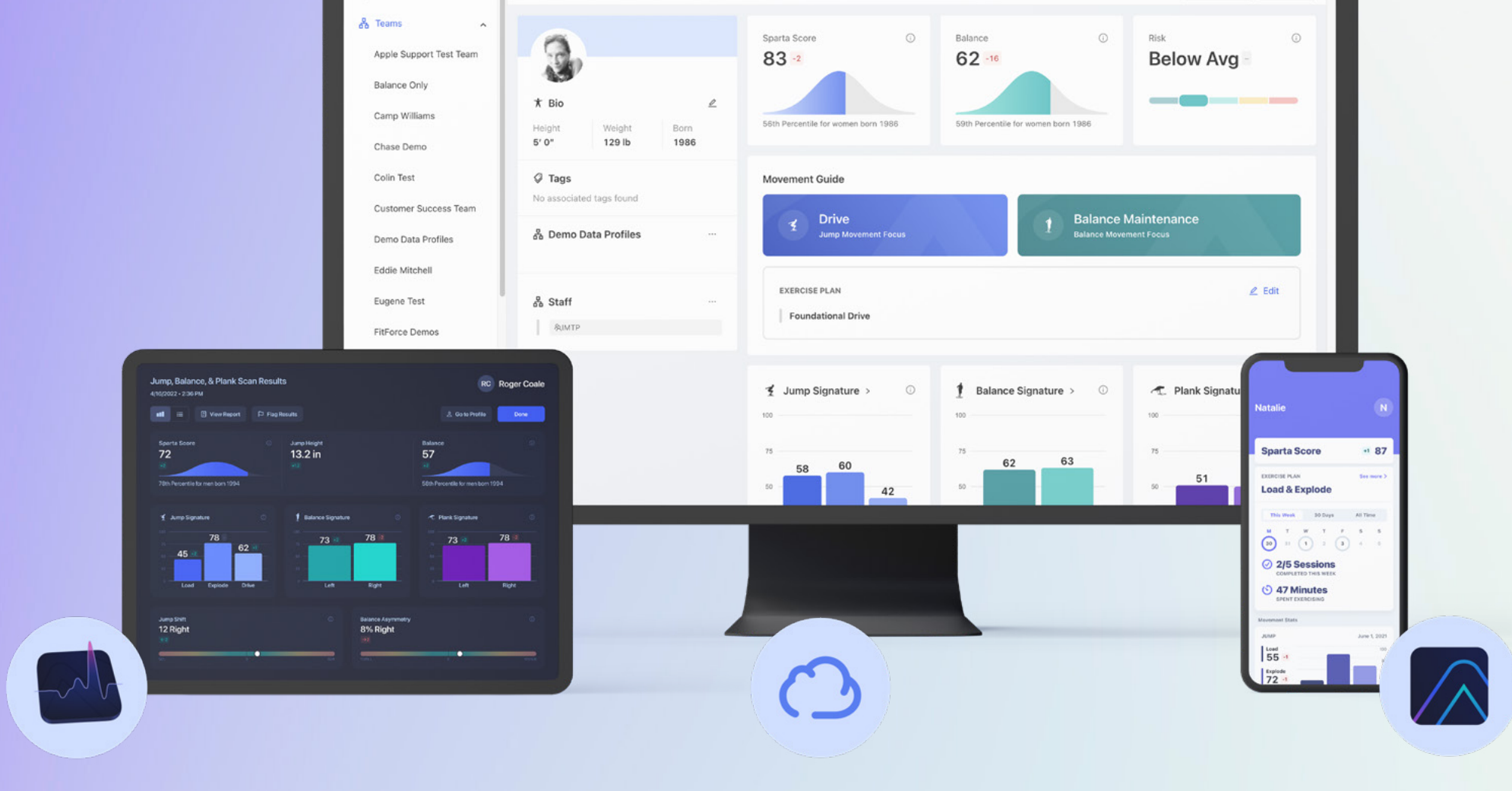


Sparta Movement Health Platform

FEATURES AND COMPONENTS

Software



SPARTA SCAN

iPad, MacBook
On the floor

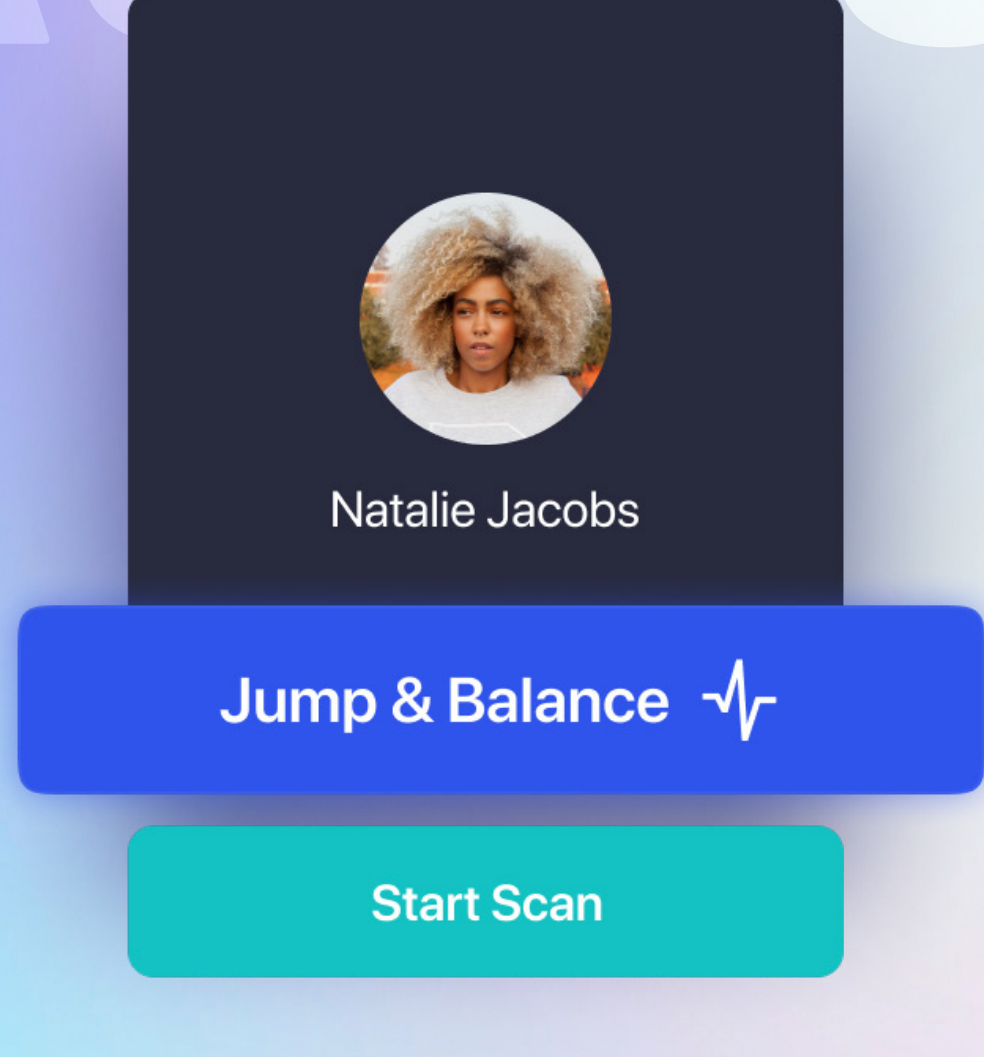
SPARTA CLOUD

Any Browser
Behind the desk

SPARTA MOVE

iOS, Android
In the user's pocket

Assessments



Vertical Jump
Single Leg Balance
Isometric Mid Thigh Pull (IMTP)
Single-Leg Jump
Single-Arm Plank
Combination assessments
and more

Data

PHYSICS-BASED METRICS FROM ALL ASSESSMENTS

Ability to add additional metrics upon request

Raw Calculated Metrics and Indices

Symmetry %
Sway Velocity
Multiscale Entropy
Landing Max Force

Max Power
mRSI
rFD
and more

Gender and Age Normalized Results

Contextualize any metric result based on normative data to improve interpretation.

Measurement Point	Value	T-Score	Percentile by Age
Stature		\$1	49
Body Height	82.47in	\$1	49
Body Mass	62.62kg	\$1	49
Jump	35cm	\$1	49
Max Change in Acceleration	124.63ms ⁻²	\$1	49
Max Acceleration	11.27ms ⁻²	\$1	49
Eccentric Impulse	0.7174kg	\$1	49
Eccentric Impulse	2.3174kg	\$1	49
Max Velocity	2.55m/s	\$1	49
Max Power	21.66W/kg	\$1	49
Unwringing	0.06s	\$1	49
Eccentric Time	0.06s	\$1	49
Concentric Time	0.3s	\$1	49
Time to Step Off	0.57s	\$1	49
Time to Max Acceleration	0.47s	\$1	49
Counter Movement Depth	0.35m	\$1	49
mRSI - Modified Reactive Strength Index	0.57m/s	\$1	49
Jump Height (Flight Time)	0.3m	\$1	49
Load (Avg Striding RFD)	5538.25N/s	\$1	49
External Avg Relative Concentric Power	17.37W/kg	\$1	49
Dira Relative Concentric Impulse	5.25174kg	\$1	49
CDPm Ball Mean	0.01s	\$1	49
CDPm Ball Mean	0.03s	\$1	49
CDPm Ball Acceleration	0.443	\$1	49
CDPm Ball Acceleration	0.04s	\$1	49
CDPm Ball Velocity	0.584s	\$1	49
CDPm Ball Velocity	0.61s	\$1	49
Balance			
Sway (Slow Velocity) Mean	0.93m/s	\$1	49
Multiscale Vertical Entropy	0.99	\$1	49
Multiscale Vertical Entropy	0.77	\$1	49
Control Multiscale Multiscale Entropy in XY Plane	0.26	\$1	49
CDPm Ball	0.03s	\$1	49
System Sway (Slow Velocity) Mean	0.86	\$1	49
System Multiscale Vertical Entropy	0.93	\$1	49
System Multiscale Vertical Entropy	0.96	\$1	49
System Control Multiscale Multiscale Entropy in XY Plane	0.86	\$1	49
System CDPm Ball	0.55	\$1	49
Left Sway (Slow Velocity) Mean	0.03m/s	\$1	49
Left Multiscale Vertical Entropy	0.96	\$1	49
Left Multiscale Vertical Entropy	0.76	\$1	49
Left Control Multiscale Multiscale Entropy in XY Plane	0.34	\$1	49
Left CDPm Ball	0.06s	\$1	49
Right Sway (Slow Velocity) Mean	0.03m/s	\$1	49
Right Multiscale Vertical Entropy	1.03	\$1	49
Right Multiscale Multiscale Entropy	0.77	\$1	49
Right Control Multiscale Multiscale Entropy in XY Plane	0.28	\$1	49
Right CDPm Ball	0.71s	\$1	49
Sway Velocity - 21kg	0.04m/s	\$1	49
Multiscale Multiscale Entropy - 21kg	0.33	\$1	49
Multiscale Multiscale Entropy in XY Plane - 21kg	0.31	\$1	49
Plank			
Max Force	0.57	\$1	49
Sway Velocity Mean	0.02m/s	\$1	49
Max Force Distal to Base	30.31cm	\$1	49
Hopital Log Sway Mean Position	2.28cm	\$1	49
Multiscale Vertical Entropy	1.05	\$1	49
Multiscale Multiscale Entropy	1.08	\$1	49
Multiscale Multiscale Entropy in XY Plane	1.25	\$1	49
CDPm Ball	0.04s	\$1	49
System Sway Mean	0.57	\$1	49
System Sway (Slow Velocity) Mean	0.74	\$1	49
System Negative Log Sway Mean Position	0.71	\$1	49
System Negative Log Sway Mean Position	0.3	\$1	49
Multiscale Vertical Entropy	0.95	\$1	49
Multiscale Multiscale Entropy	0.95	\$1	49
Multiscale Multiscale Entropy in XY Plane	0.97	\$1	49
CDPm Ball	0.03	\$1	49
Max Force	0.56	\$1	49
Max Force Distal to Base	60.0cm	\$1	49
Hopital Log Sway Mean Position	26.7cm	\$1	49
Multiscale Vertical Entropy	2.44cm	\$1	49
Multiscale Multiscale Entropy	1.05	\$1	49
Multiscale Multiscale Entropy in XY Plane	1	\$1	49
Left CDPm Ball	0.03s	\$1	49
Left CDPm Ball	0.08	\$1	49
Right Sway (Slow Velocity) Mean	0.03m/s	\$1	49
Right Sway (Slow Velocity) Mean	35.44cm	\$1	49
Right Negative Log Sway Mean Position	2.39cm	\$1	49
Right Multiscale Vertical Entropy	1.01	\$1	49
Right Multiscale Multiscale Entropy	1.11	\$1	49
Right Multiscale Multiscale Entropy in XY Plane	1.3	\$1	49
Right CDPm Ball	0.03s	\$1	49

HIGHLIGHTED METRICS OPTIMIZED FOR INSIGHTS

Continuously researched and developed data-driven results optimized for accuracy and usefulness.

Intuitive Metrics, Models, and Visualization

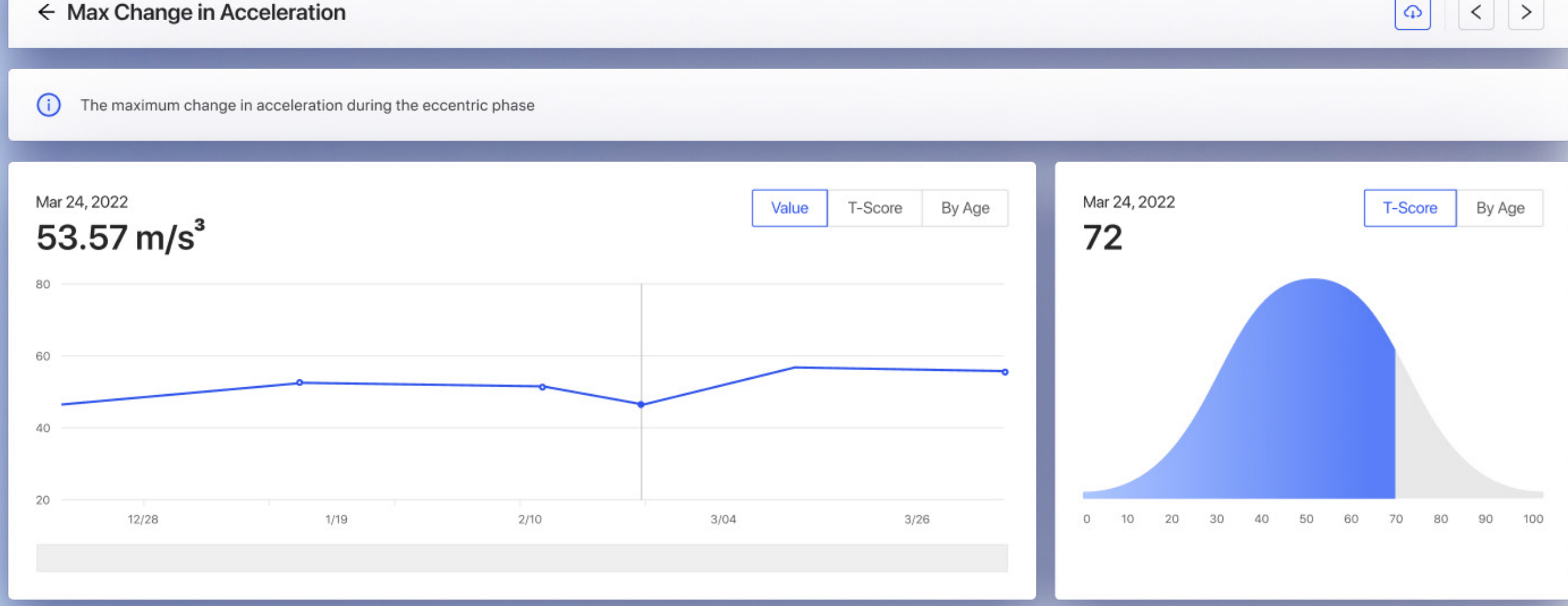
Balance
Asymmetry
Load
Explode

Drive
Sparta Score
Jump Shift
and more

Supporting Research and Development

Time-Series Data
1000 Hz

Human movement and data science expertise combine to provide simple and intuitive results.



DATA VISUALIZATION

Assessment Results

Raw Units
Gender Normalized (T-Scores)
Age Normalized (T-Scores)
(csv export and API)

Reporting

Individual user and metric data over time
Group and Team Dashboards
Team and Organization trend and compliance over time

Security

INFORMATION SECURITY

Offline capabilities
Hosted on industry leading provider Amazon Web Services
All data is encrypted with AES256 keys in transit and at rest
Data transfers, app, and API all encrypted with SSL/TLS1.2+ connection enforced
Authentication via Amazon Cognito (OAuth2 protocol)
SEIM threat monitoring and alerting
Secure SDLC
and more

INTEGRATIONS

Open API for external integrations
Third party data integrations

COMPLIANCE



Full Information Security, Data Privacy, and Compliance report available upon request