

Redefining the Entry Experience

About Qylur

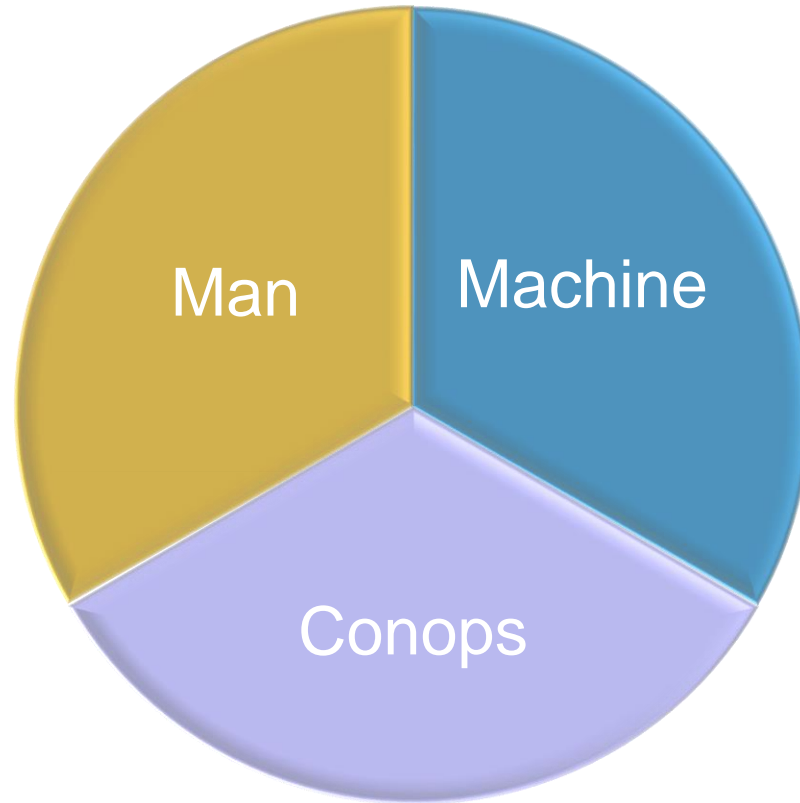
- **The Basics**
 - Founded 2005
 - Based in Palo Alto, California
- **Leadership**
 - Lisa Dolev PhD
 - Founder & CEO
 - Francois Gaultier
 - VP Engineering
- **Strengths**
 - Homeland security
 - Screening technology
 - Industrial engineering
 - Machine learning
 - Patented innovation
- **Key Partnerships**
 - Flextronics (production)
 - Tata TCS (service)
 - Sandia National Labs
 - Qylur test facility in partnership with SRI Int'l



Qylatron™ Entry Experience Solution



Collaborative & Practical Security



Changing the Checkpoint Experience



From: Manual and Slow



To: Automated, Fast Self Service





Better Experience: Delight Your Guests



➤ Fast & easy

- No need to remove items from bags

➤ Private & Respectful

- No one looking in bags



➤ Secure & Prevents Loss

- Only guest can open or close cell
- No misplacing/losing items





(c) Qylur Security Systems

Efficient: Guests Get Through Faster

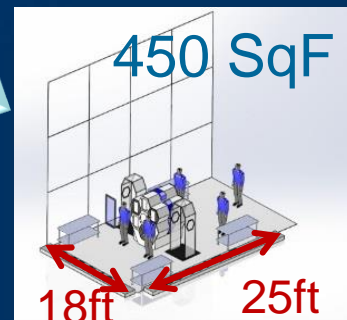
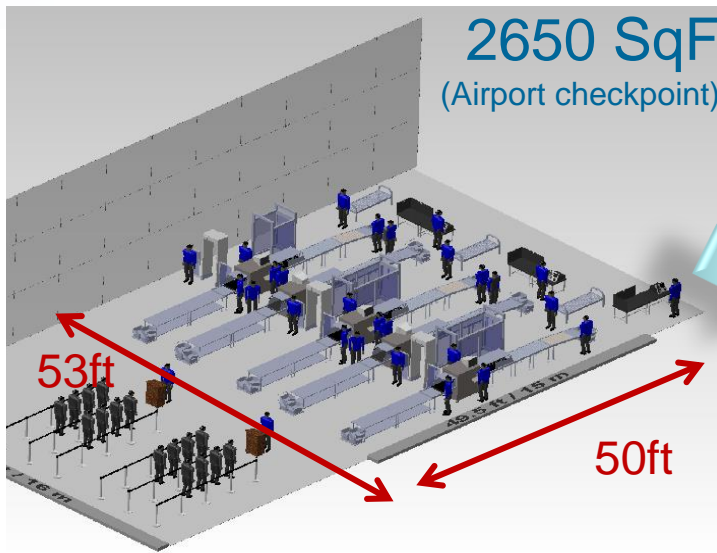
➤ High Flow

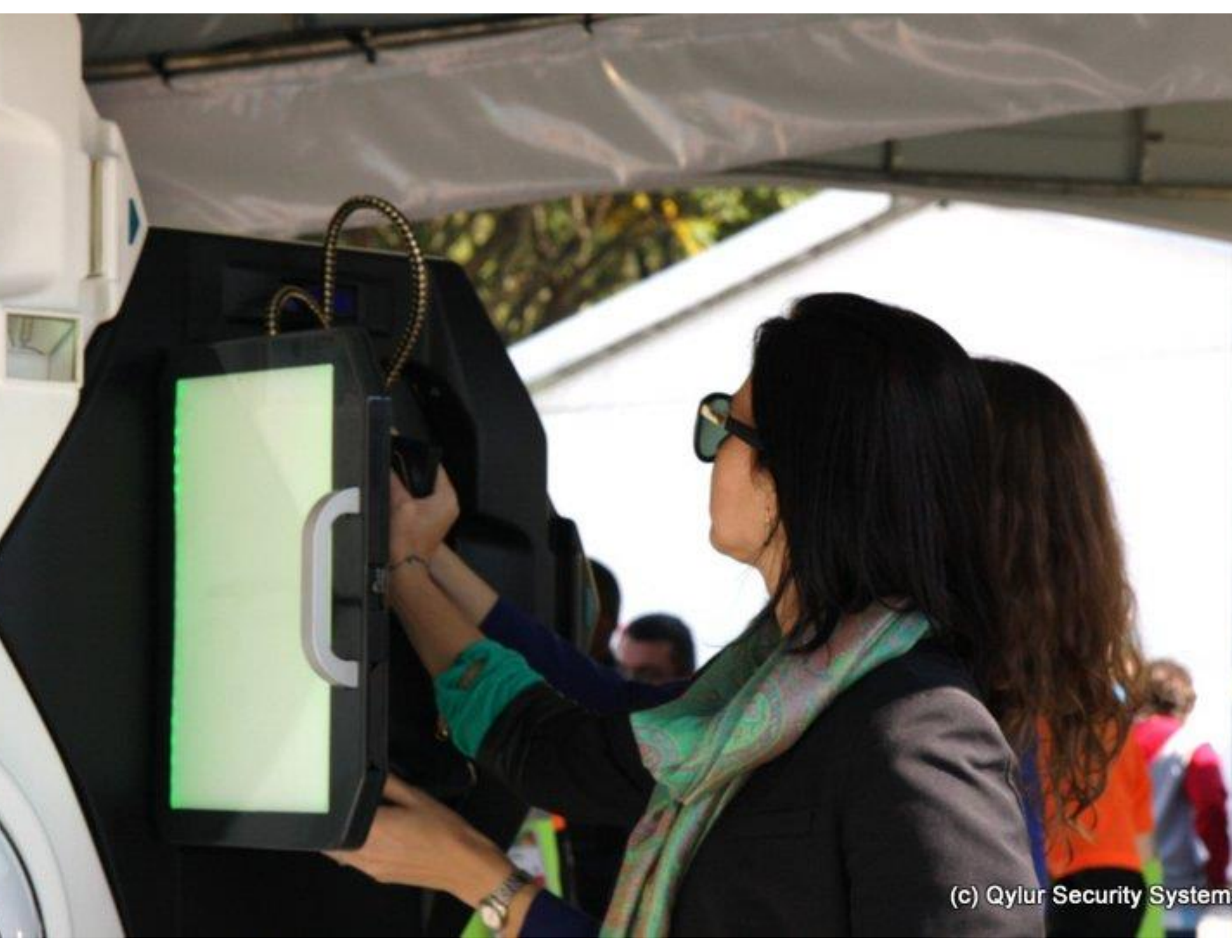
- 5X the flow of other machines
- Screens five bags in parallel



➤ Space efficient

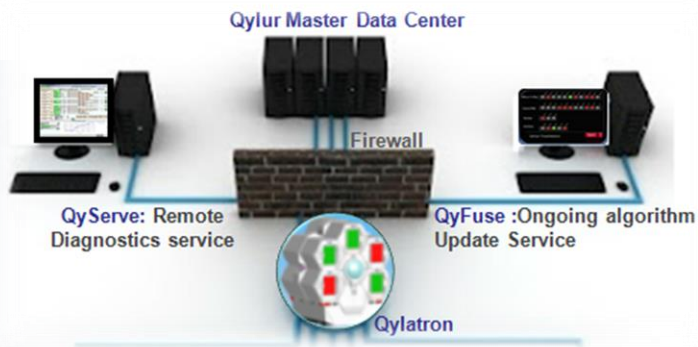
- One system replaces five lanes at 1/5th the space







Better Venue Service



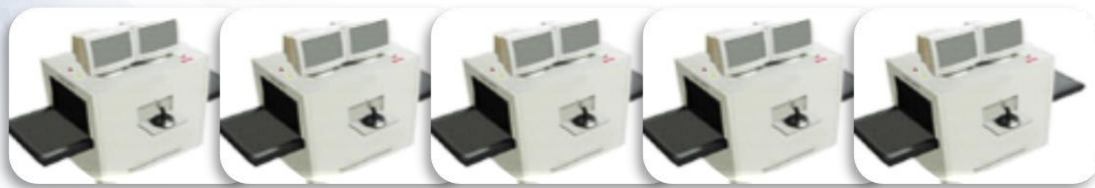
- Optimization for venue bag profiles
- Quick adaptation to new threats
- Remote diagnostics and maintenance
- Upgradable platform to new sensors

- Design customized for venue



Efficient

Replace This...



With This!



Cost Efficient and Affordable



- Dramatic staff savings
- Replaces 5 lanes (15-25 screeners) with 1 system (7 screeners)

- Service model – “pay per guest”
- Flexible models to fit customer needs



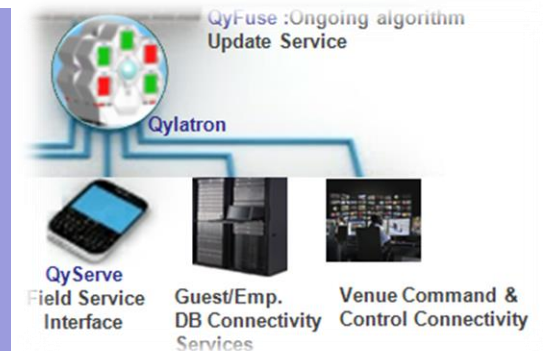


Better Security



- Guest ID aware
 - Enables Risk Based Screening

- Integrates with venue database to customize screening protocol



- Better performance and consistency
 - Significantly **higher detection rate**
 - Single-digit false alarm rate
 - Screens for explosives, dirty bombs, weapons
 - Automated & collaborative detection
 - Integrates hundreds of parameters from MVDE X-ray, nuclear, and optional spectrometer trace

QyView With New Image Panel

CV QyView [DG-CONDY\SQLEXPRESS] User: a

! ✓

Hold (keep bag in cell)

Defer

Penetration controls are only for B/W displays; color is only for color display.

New image panel. Any action here affects all images on screen (all angles)

Brightness: [Slider]

Contrast: [Slider]

Color Translation: [Slider]

Inverse Edges Sharpen Reset

Z-Eff Hi Low T-Map Density

Preset 1 Preset 2 Preset 3

Preset are factory set, and can be modified by admin roles, not operators.

Default image setting.

Extend the panel to show advanced settings

Collapsed view to be used 90% of the time. All buttons are presets for some view type.

Qylur

Threat/Prohibited Item Indication

The screenshot displays the CV QyView software interface with several key components:

- Top Left Panel:** Shows a bag scan with a red exclamation mark icon. A callout box states: "Suspect: indicates suspected items found." Below it, a green checkmark icon is accompanied by a callout box: "Release: overrides and clears the bag".
- Top Middle Panel:** Shows a bag scan with a green border, indicating a specific threat or prohibited item.
- Top Right Panel:** Shows a bag scan with a red border, indicating a specific threat or prohibited item.
- Bottom Left Panel:** Shows a control panel with various test results and graphs. A callout box says: "Select one or more suspected threats. Buttons light up. Click on bag image to close".
- Bottom Middle Panel:** A yellow panel containing a grid of 12 circular icons representing different threats and prohibited items: a knife, a video camera, a laptop, a bottle, scissors, an umbrella, a bomb, a boombox, a megaphone, a skull and crossbones, and a handgun.
- Bottom Right Panel:** Shows a bag scan with a red border. A callout box says: "Panel of possible threats and prohibited items." Below this panel is a control bar with buttons for "Z-Eff", "Hi", "Low", "T-Map", "Density", "Preset 1", "Preset 2", and "Preset 3".

QyView – Zoom an Image

Any action here affects only current image

The screenshot displays the QyView software interface. The main window shows a zoomed-in image of a device with several test results labeled TEST 3 through TEST 9. A vertical zoom slider is positioned on the right side of the image, with the word "Zoom" at its base. To the left of the main image is a toolbar with 12 circular icons representing different analysis tools. To the right is a control panel with various settings and buttons.

Control Panel Settings:

- Z-Eff: Hi Low
- T-Map: Density
- Preset 1 Preset 2 Preset 3
- Brightness:
- Contrast:
- Penetration Window:
- Penetration Level:
- Inverse Edges Sharpen
- Reset

Penetration Sliders Note: Penetration sliders applicable for B/W only.

QyView [KPO-DB\SQLXPRESS] User: a

Deferred for resolution

ByPassReader

Ready for unload

ByPassReader

Deferred for resolution

ByPassReader

Deferred for resolution

ByPassReader

Deferred for resolution

ByPassReader

Deferred for resolution

ByPassReader

Deferred for resolution

ByPassReader

Deferred for resolution

ByPassReader

Deferred for resolution

ByPassReader

Deferred for resolution

ByPassReader

Deferred for resolution

ByPassReader

North Gate

Z-EFF

HI

LOW

T-MAP

Density

Preset 1

Preset 2

Preset 3



Enables Guards to do a Better Job

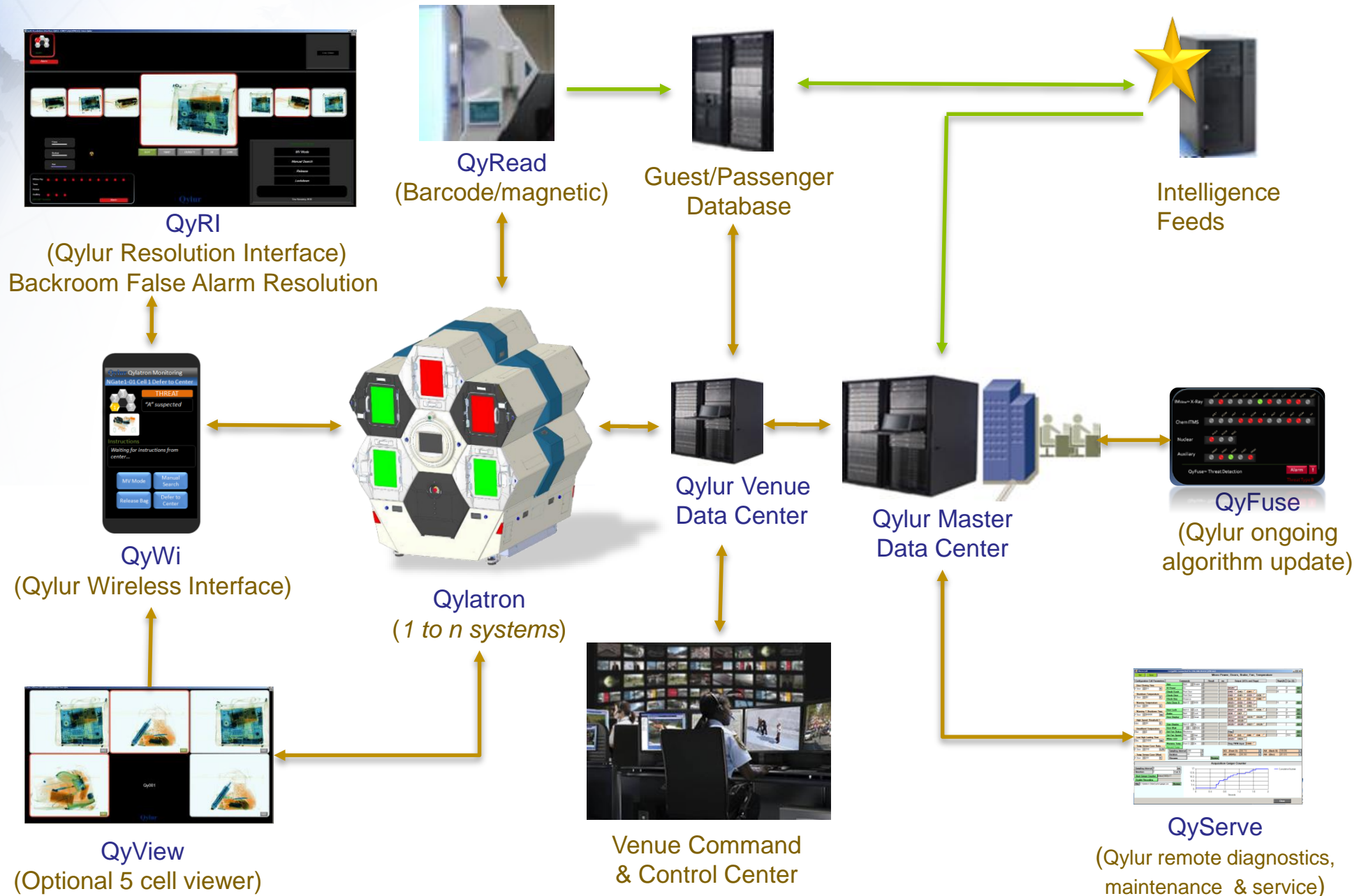
Leverage Qylatron detection yet be in control

Focus on observing guests
Look for suspicious behavior

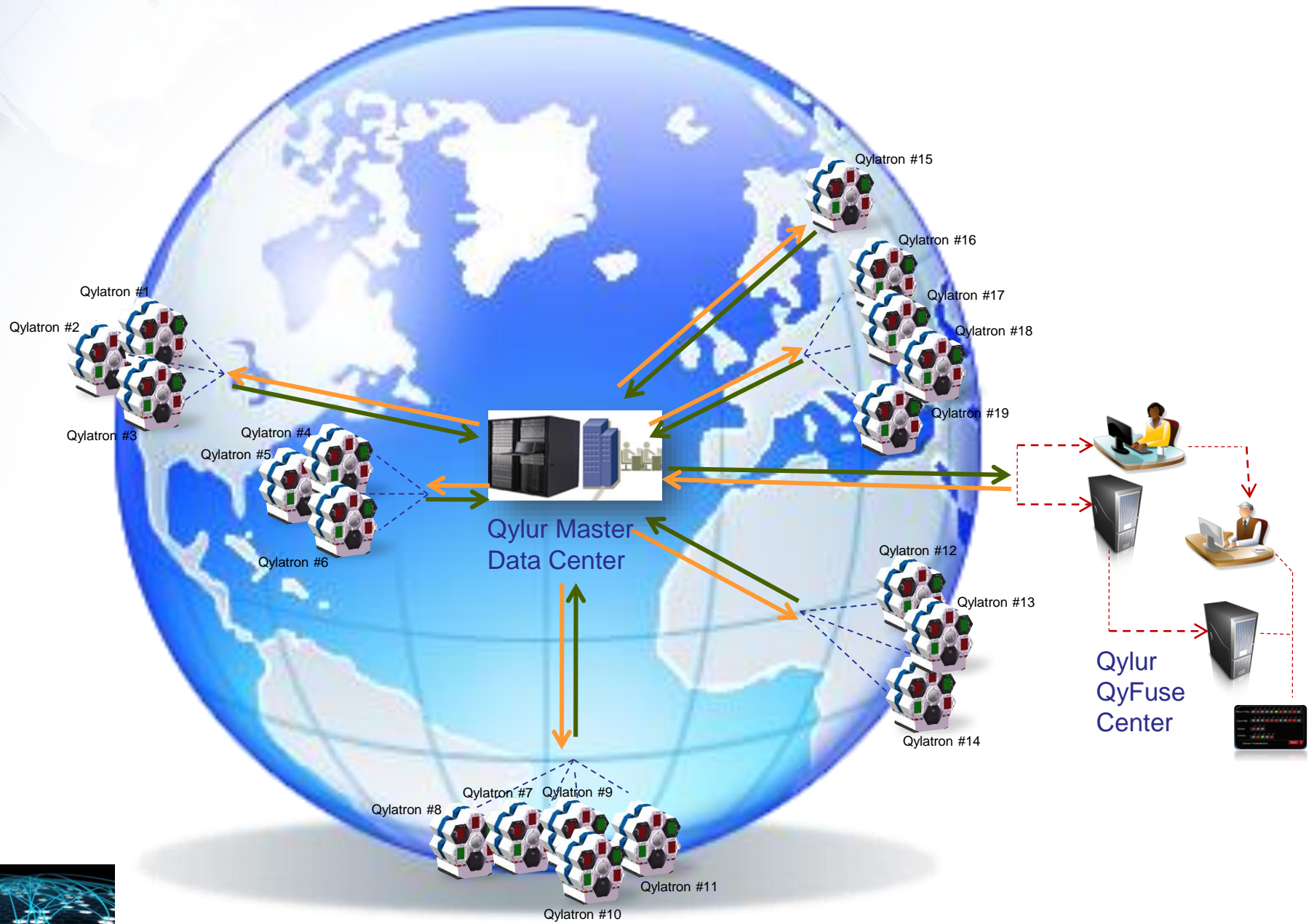
Informed guest engagement
(using mobile interface)

Get alerts on guest/ticket
database match

Welcome to a Platform of Connectivity



World Wide Security Service Network



Powered by QyNet™



Proven At Venues World-Wide Successful Trials

- ✓ Used by thousands
- ✓ Both employees and guests
- ✓ As primary security
- ✓ Operated by venue staff



Qylatron in Action – Sports Venues

Successful pilots, the paradigm shift is happening

US Stadium



FIFA World Cup Draw Event, Rio



Qylatron in Action – Aviation & Others

Successful pilots, the paradigm shift is happening

Airports: SDU, Rio de Janeiro



Monuments: Liberty Park



What They Had to Say

Actual quotes from our trials

Guests

“Wow!!” “Love that only I can take my stuff”
“Shorter lines, I love it!” “So easy and so fast!!”
“So fun and quick!” “It’s soooooo cool”
“Awesome, can I go through again?”
“I’m shocked!!” “In two words – *its painless!*”

Security team

- “The machine definitely did everything Qylur claimed it would”
- “It was very easy to operate and use”
- “This will surely help us shorten wait lines”

Qylatron™ Deployed at 2014 World Cup Brazil

Editorial Photos



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The Complete Offering

Qylatron™



QyRI™



QyWi™

QyTASP™ Services



QyServe™: Full field and remote services for continued operation:

- Onsite spare parts
- Preventative onsite maintenance
- Remote monitoring and health checks
- Remote problem analysis
- Onsite Incident field service
- Help Desk



QyFuse™: Ongoing detection algorithm updates (quarterly)

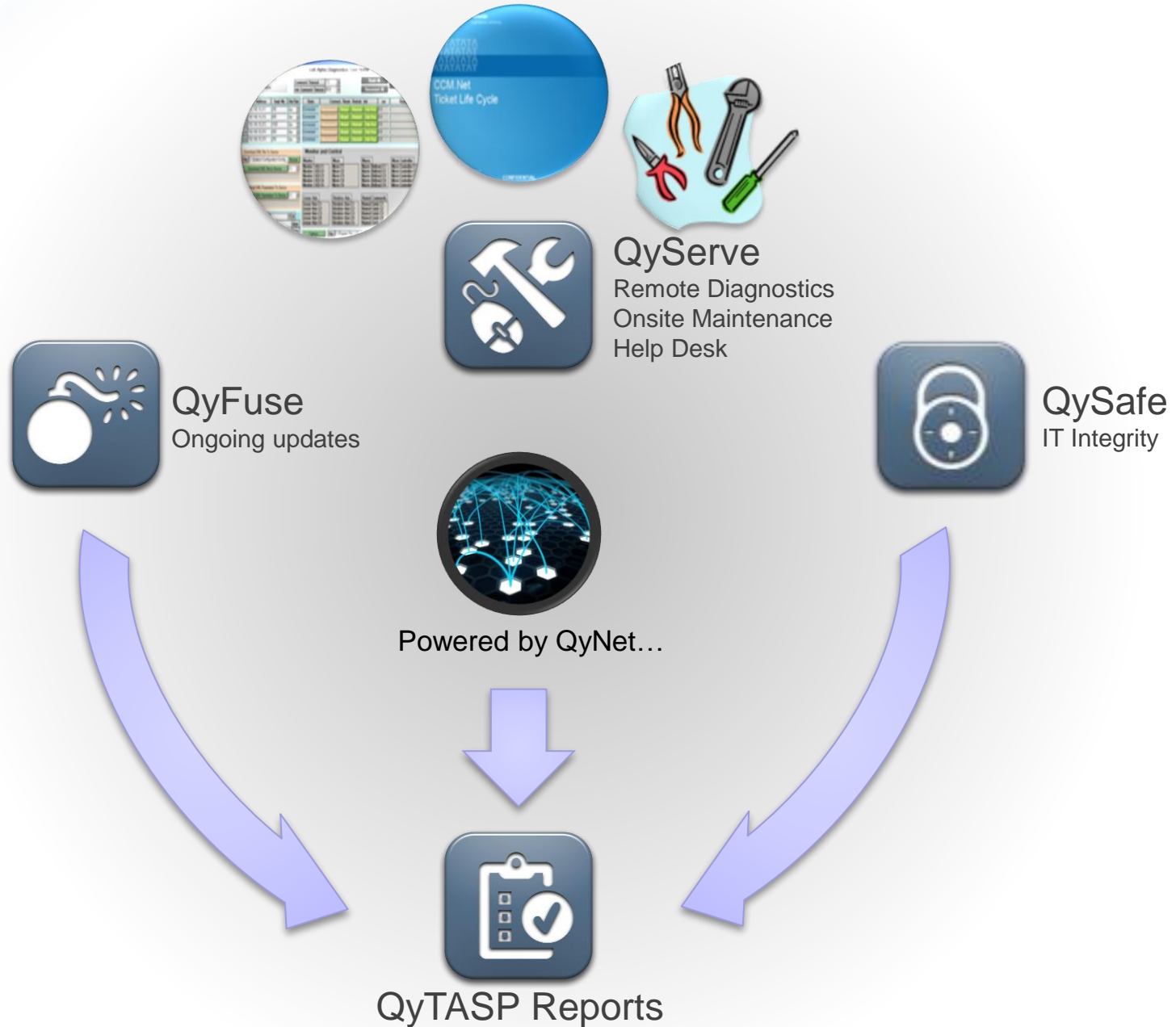
- Specific to site bags
- Optimized to site threat matrix



QySafe™: Ongoing network security

QyTASP:

“Threat Assessment and System Performance Services”





QyServe - Diagnostic Tool

- Powerful
- Comprehensive
- Used in development, manufacturing, & field service

Xray Generator Diagnostics Tool

Logging And Monitoring
 Log Level: L1
 Monitor: Off
 Download XML Parameters to Generator
 File: C:\Qylatron\Configuration\Machine\XrayHvpsLit
 XML Parameters To Generator

Configuration Parameters
 Generator Ip Addr: 192.168.10.224
 Generator Version: 2.0.0.0
 Generator HW/SIM: Simulation

Tolerance and Scale Parameters
 Scale & Timeouts | Tolerance & Mask

Start KV: 80, End KV: 160, Increment Up KV: 1, Decrement Down KV: 1
 Start MA: 100, End MA: 300, Increment Up MA: 10, Decrement Down MA: 10
 Standby Filament Current: 86, Increment Up Filament: 100

Ethernet Connectivity: Connected
 History: C:\Qylatron\DataCache\X-History.bt
 kv: 160, ma: 3
 Firmware Version = Simulation Version
 month: 7, day: 3, year: 2013, hour: 12, minutes: 9

Machine Type: Prototype / Alpha
 Log Manager / Exit

X-RAY OFF For 0 Seconds

Commands	sec	Result	STATUS and FAULT MONITORING					
XRAY ON	History		Generator State	Monitor	Software Warning	Software Error	Hardware Error	
XRAY OFF	Ramp Down		OFF	KV	0	KV Tol.	KV Error	KV High
CLEAR FAULTS	.0000	Faults Cleared		MA	0.00	MA Tol.	MA Error	MA High
WATCHDOG	On			AMP	0.00	AMP Tol.	AMP High	
REFRESH			Degrees C	Temp S1	45	Temp War.	Temp High	Over Temp
RESET				Temp S2	32	Temp War.	Temp High	Overheat
kv DELTA	Down			T. CTR	27	Temp War.	Temp High	Overheat
ma DELTA	Down		RPM	Fan Spd 1	123	Fan Speed Warning	Fan Speed Error	
fil DELTA	Up			Fan Spd 2	345	Fan Speed Warning	Fan Speed Error	
FIRMWARE VERSION								

Cell Alpha Diagnostics Tool Qy002 ***** ALPHA Machine *****

Cell Alpha Diagnostics Tool Home Page
 Command Timeout: 7.5 S
 Init Command Timeout: 25.5 S
 Reset All / Disconnect All

IP Address	Version	ms	Hw/Sim	State	Chk	DMC : Connect, Init, Reset, Restart	Cell: Low Volt, Init Pos	ver	Result
C1	192.168.10.211	2.0.0.0	250	Sim	Connected	GO Disconnected Init Dmc Reset Restart	ON Low V On Init Pos	0	Connected
C2					GO Disconnected	Init Dmc Reset Restart	ON Low V On Init Pos	0	Connected
C3					GO Disconnected	Init Dmc Reset Restart	ON Low V On Init Pos	0	Connected
C4					GO Disconnected	Init Dmc Reset Restart	ON Low V On Init Pos	0	Connected
C5					GO Disconnected	Init Dmc Reset Restart	ON Low V On Init Pos	0	Connected

and Control

Micro	Macro	Micro Controller
O C1	Micro C1	Micro Controller C1
O C2	Micro C2	Micro Controller C2
O C3	Micro C3	Micro Controller C3
O C4	Micro C4	Micro Controller C4
O C5	Micro C5	Micro Controller C5

Rotation Axis: C1-C5
 Named Cnds: C1-C5
 Special Functionality: Time Trigger For 5 Cells

Linear Axis C1.Qy002 Connected To 192.168.10.211 (250 ms)


Configuration Cell Parameters
 Cell Controller Amplifier
 Cell Controller Amplifier Parameters
 Axis Parameters
 Linear Axis Motor Parameters
 Move Parameters
 Initialize / Not Initialized / Emergency Stop Limit
 Weight Parameters
 Move From Scan + To Scan -
 Start / Rept 5 / # DC 1.5 S
 Get Number Of Lines
 Position Triquer On
 Time Triquer 2 ms
 Time Triquer Start
 Get Recorded Weight Data

Commands	Result	ms	Scan + Position	ms	Line Thickness	# Offset Lines	# Of Lines	Integration Tm
Enable Linear Axis			0300		0010	500		
Disable Linear Axis								
Abort Linear Axis								
Initialize Linear Position								
Enable Axes And Init Positions			counts	meters				
Move To Inflate Position								
Move To Load Position								
Move To Scan +	Weight On		Scan + Position	503.0503				
Move To Triquer +								
Move To Index Position								
Move To Limit Switch Front								
Move To Limit Switch Back								
Move To Triquer -								
Move To Scan -	Weight On							
Move To Unload Position								
Move To Deflate Position								
Move To New Position								
Get Current Position				0.0				Input string was not

Graph: Position (counts) vs Torque (current) vs Seconds

QyServe – Ticketing System





Resolution

000011010101
001110101011
000111101010
111101010101

Welcome QY001
TimeZone::GMT +5:30
Home
Logout

Ticket Resolved.

Ticket Management

- Registration
- History
- My Queue
- Common Queue
- Incident Search
- Miscellaneous

Details
Solution

Ticket Number 115500030
Logged Date 07/21/2011 05:29:26

Solution

Ticket Status:

Pending Till:

Effort(In Min):

Cause

Cause:

Other Cause:

Solution Description *

Resolved.

Message to User (maximum 2000 char)

Message To User

Resolved.

Associations
On Hold
Raise A Change Request
Raise a Service Request
Help

Assign

Department:

Location:

Role:

Assign To:

Activity Log *

Resolved.

Activity Log History

07/21/2011 09:59:27 Modified By: RON - Ron Sharfon Role : End User
Ticket has been Registered. Ticket Status: Open

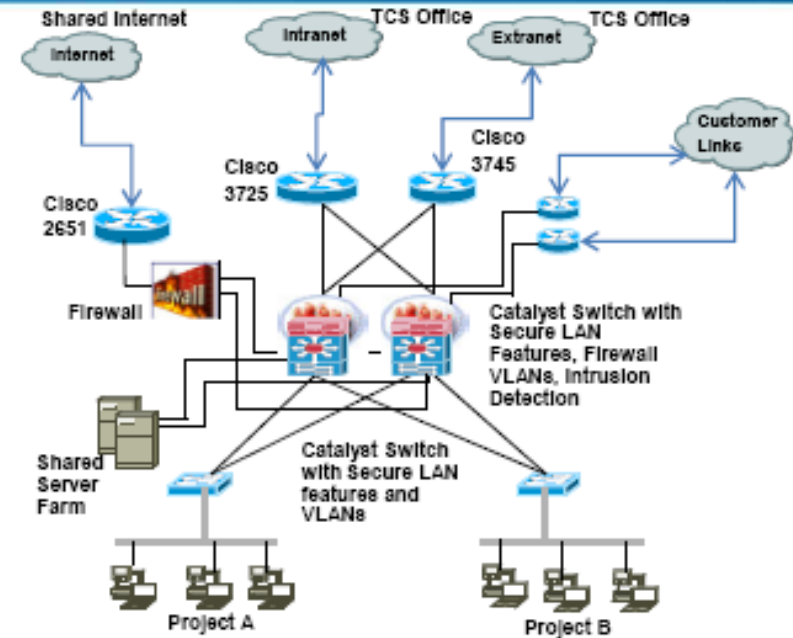
07/21/2011 10:10:09 Modified By: MACHINE1 - Qy001 Role : L1 Support
Ticket has been Responded. Initial Ticket Status: Open
Status after Modification: Work In Progress

QySafe

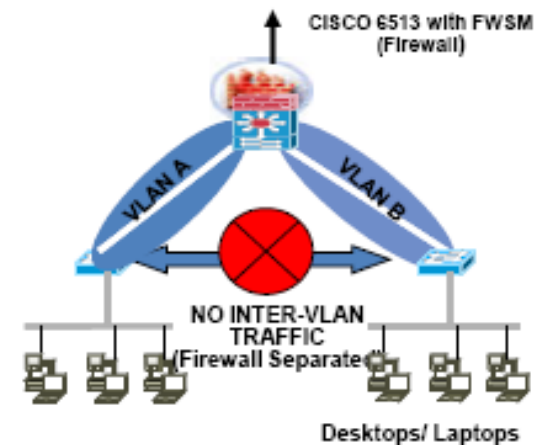
Network Security

- Encryption of data flowing through public network
- All Internet gateways protected by Firewalls, IPS
- Hardening of Routers / Firewalls
- All firewalls configured with "Deny All" settings
- Firewall separated VLANs are used as isolated network for data traffic
- Air-Gap Network on client request
- Unused ports on network switches disabled
- Websense Content Filtering used for Internet Access Compliance
- Restriction on remote connectivity into ODC network
- No 3rd party connections unless approved
- Network centralized managed and controlled by LAN Management Suite (LMS)
- Periodic Vulnerability Tests and Penetration Tests
- Change Management Processes followed for any IT Infrastructure Change.

Robust N/W Architecture



Common Services

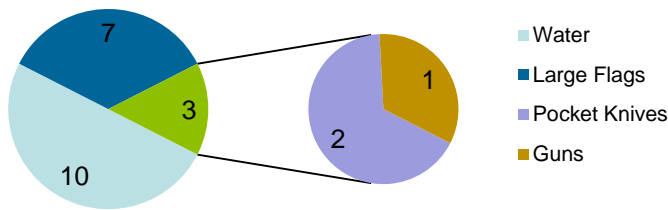




QyTASP Report Sample



Alarm Breakdown for March 2015



Preventative Maintenance Report:

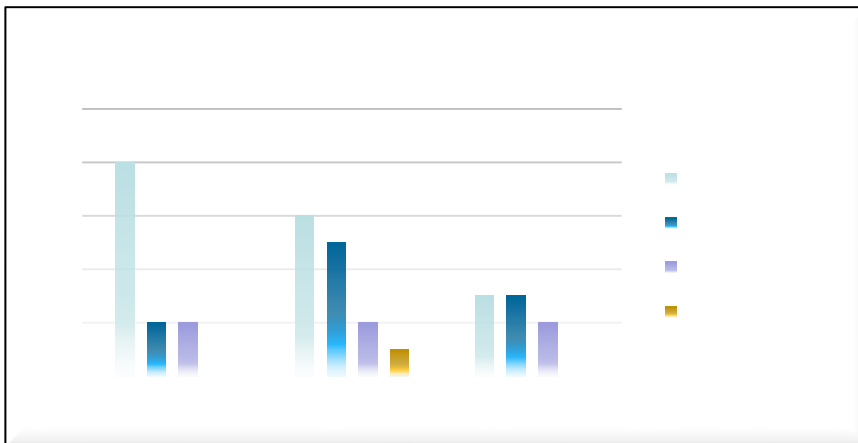
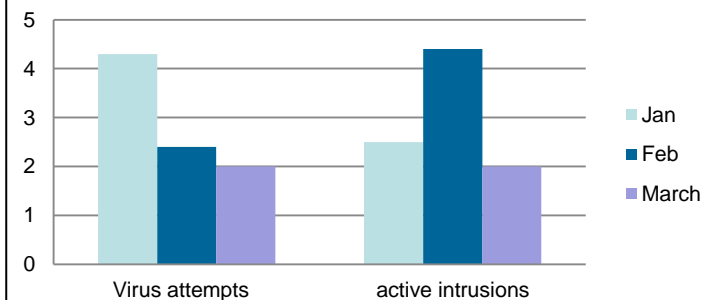
- Weekly onsite review – 12 performed
- Daily remote diagnostics – 120 performed
- Oil check.....

Repairs Made

- 7 cell resets
- 1 bar code reader replacement

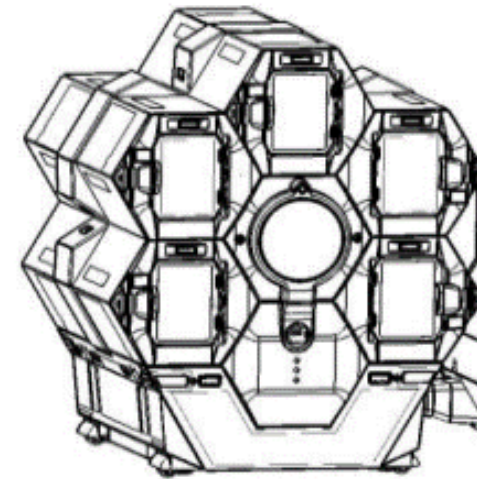


Security preventative actions

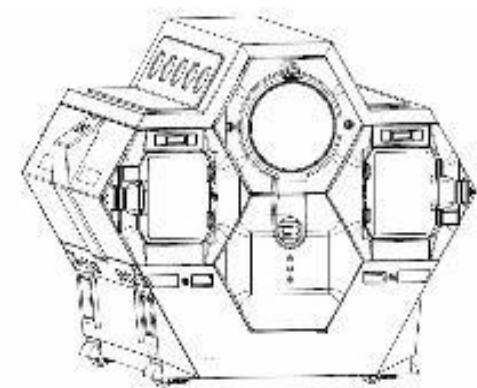


Technical Data

Size (5 pod)	Length: 1811 mm / 6.20 ft Height: 2209 mm / 7.25 ft Width: 1890 mm / 6.94 ft
Weight (5 pod)	3200 Kg / 7055 lbs
Power (5 pod)	480V / 3-phase
Pod Size	Fits maximum allowed carry-on size (56cm x 36cm x 23cm / 22" x 14" x 9")
Scan time	10 to 17 seconds per pod (concurrent)
Standards	ANSI N42.22-2008 Radiation Safety: US 21CFR1020.40 & European UL Compliant*, CE*, FCC/EMC*



5 pod Qylatron



2 pod Qylatron

Standards and Designations



DHS SAFETY Act
Approved Technology



ASTM F792-08
Standard for evaluating
imaging performance of
security X-Ray systems



US CFR 1020.40
Performance standards
for ionizing radiation
emitting products



EU Directive
96/29/Euratom for
ionizing radiation safety

VeriSys

3rd party validation of
detection algorithm
performance

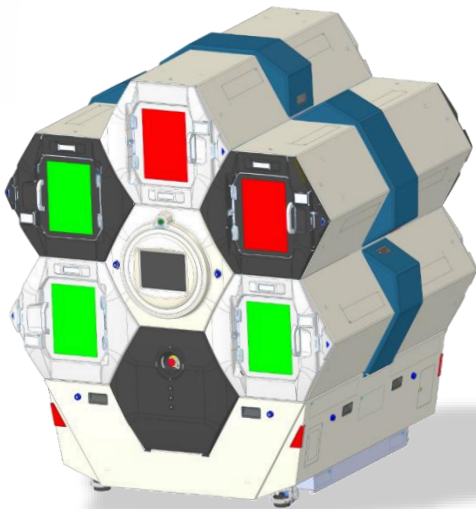


CE & UL Pending

QyGate Integrated Checkpoint Service

QyGate is an optional service to design and implement a fully integrated checkpoint, covering people and bags

1. Deploy Qylatron for ticket and bag screening

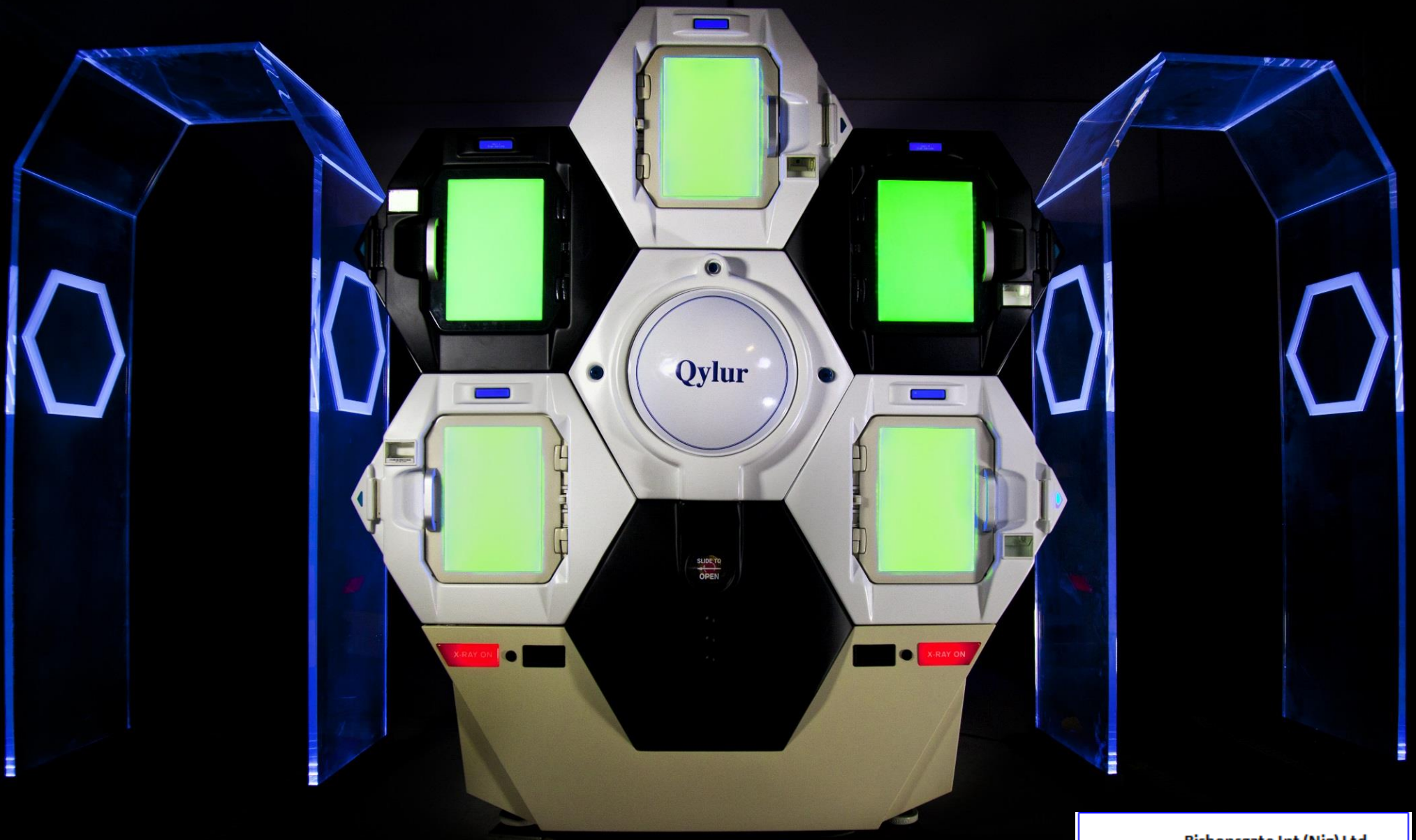


2. Choose body scanner product



3. Implement QyGate integration service





Thank You!



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