



DHS SCIENCE AND TECHNOLOGY

2020 Biometric Technology Rally Post-Conditional Acceptance Webinar

May 26, 2020

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Biometric & Identity Technology Center
Department of Homeland Security
Science and Technology Directorate



**Homeland
Security**

Science and Technology

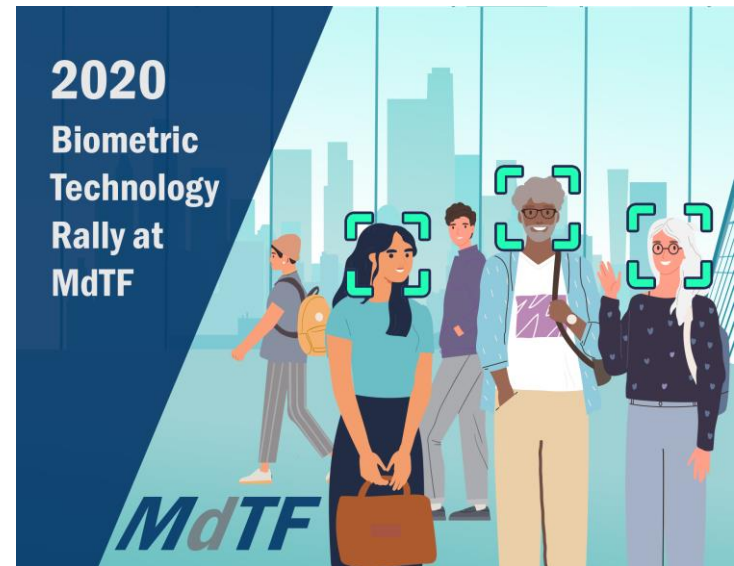


**Jake Hasselgren, John Howard,
Yevgeniy Sirotin**

The Maryland Test Facility

Overview

- Conditional Acceptance → Final Acceptance
 - Acquisition Systems
 - Matching Systems
- What to Expect
 - Overall Schedule
 - General Questions, Debugging, Assistance
 - Acquisition System Installation
 - Intranet & Internet Connectivity
 - Location & Shipping Information
 - Test Day Schedules
 - Accommodations & Parking
 - Post-Rally



2020 Rally updates in response to COVID-19

- The COVID-19 pandemic has had a tremendous, and likely lasting, effect on business and travel
- We are making modifications and contingency plans in response and will be sure to inform you of any planned changes
- As part of these adjustments, DHS S&T is gauging the ability of conditionally selected Rally systems to maintain performance in the presence of face masks:
 - Acquisition Systems – *Can your system acquire face images from individuals wearing face masks?*
 - Matching Systems – *Can your system match face images of individuals wearing face masks?*
 - Please e-mail your responses to peoplescreening@hq.dhs.gov and rally@mdtf.org
 - Deadline: **June 12, 2020**



Can your system
acquire/match face
images from
individuals wearing
face masks?

All Systems

Cooperative Research and
Development Agreement
(CRADA)

Ethical Data Sharing Training

Cooperative Research and Development Agreement (CRADA)

- Agreement between each System Provider (PROVIDER) and DHS S&T (RECIPIENT)
 - Defines the roles and contributions of the PROVIDER and RECIPIENT
 - Defines strict policy on the proper transfer and handling of 2020 Rally data
 - Provides the basis for involvement in 2020 Rally activities
 - Exempt from FOIA process
- Must be signed by Corporate Officer
- Signed copy due back to peoplescreening@hq.dhs.gov by **August 19, 2020**

Ethical Data Sharing Training

- All representatives involved with 2020 Rally data collection and/or analysis must complete ethics training in data sharing practices
 - This includes anyone handling data post-collection
- Ethics and best practices in sharing individual-level research training (by Global Health Training Centre) is required for each representative
 - Link: <https://globalhealthtrainingcentre.tghn.org/ethics-and-best-practices-sharing-individual-level-data-clinical-and-public-health-research/>
- Register as a new user or log-in as a returning user
 1. Fill out the appropriate information.
 2. Complete training course and take the quiz at the end. Must receive passing score (at least 80%).
 3. Navigate to your profile and download the certificate.
 4. Email certificates to rally@mdtf.org and peoplescreening@hq.dhs.gov with the subject line of “Ethical Data Sharing Training – Company Name.”
- All certificates must be received by **August 19, 2020**

Acquisition Systems

Representatives Attending Data
Collection

API Integration

System Safety

Code of Conduct Acknowledgement

Representatives Attending Data Collection

- Acquisition System Providers will be allowed to bring a ***limited number of representatives*** to the facility at a given time (see below). This is due to limited physical space at the facility
 - **Data Collection: Two (2)** representatives will be allowed at the facility at any given time
 - **VIP Day: TBD**
- By **August 19, 2020**, you must provide the following to rally@mdtf.org and peoplescreening@hq.dhs.gov for **each** representative who will visit the MdTF
 - Name
 - Citizenship
 - **Each foreign national will be required to complete a Foreign National Visitor form.** The form, if necessary, will be emailed to each company's business POC. The completed form must be submitted to peoplescreening@hq.dhs.gov no later than **August 26, 2020**
 - Contact Information (email, phone)
 - Ethical Data Sharing Training Certificate

API Integration

- Acquisition System Providers are required to demonstrate that they have integrated with the MdTF Acquisition System API
 - <http://api.mdtf.org>
- Acquisition Systems demonstrate API integration by submitting an image using the endpoint(s) appropriate to your system
- Email rally@mdtf.org once an image has been submitted and the MdTF will verify image submission
 - Deadline: **August 19, 2020**

System Safety

- All acquisition systems installed in the MdTF are required to be certified “safe to use” by a third party
- Safe to use includes (but is not limited to):
 - Physical contact
 - Guarded and non-exposed electrical components and wiring
 - No sharp edges
 - Non-physical contact
 - Safe illumination wavelengths
- Potential resources
 - UL Certification: <https://services.ul.com/service/safety-certification/>
 - CE Marking
- Once your system has been certified safe, please send the certification to peoplescreening@hq.dhs.gov and rally@mdtf.org
- Deadline: **August 19, 2020**

Code of Conduct Acknowledgement

- This document outlines professional and ethical behaviors that all company representatives must adhere to while at the MdTF
- All company representatives onsite will sign the Code of Conduct upon arrival at the MdTF
 - Violation(s) of the Code of Conduct may result in expulsion from the 2020 Rally
- A copy of the Code of Conduct will be sent to your Business POC in advance of the 2020 Rally for review

Matching Systems

API Integration

API Integration

- Delivery of the algorithm is the responsibility of Matching System Providers. The options are:
 - Upload the algorithms to <http://mdtf.org>
 - Mail an encrypted USB drive with the Docker image to the MdTF (address on slide 22)
- Test and packaging scripts are available at <http://github.mdtf.org>
 - DHS has sole discretion in disqualification if the algorithm requires an *excessive effort* to achieve functionality
- You will receive a verification email if the Docker image conforms to the Rally API
- An initial Docker image must be received by **August 19, 2020** to validate functionality
- The last Docker image received as of **September 18, 2020** will be the tested version

What to Expect

Overall Schedule
Acquisition System Installation
VIP Day
Internet and Intranet Connectivity
Test Day Schedules
Location and Shipping
Post-Rally
 Acquisition Systems
 Matching Systems
Due Dates Reminder

Overall Schedule

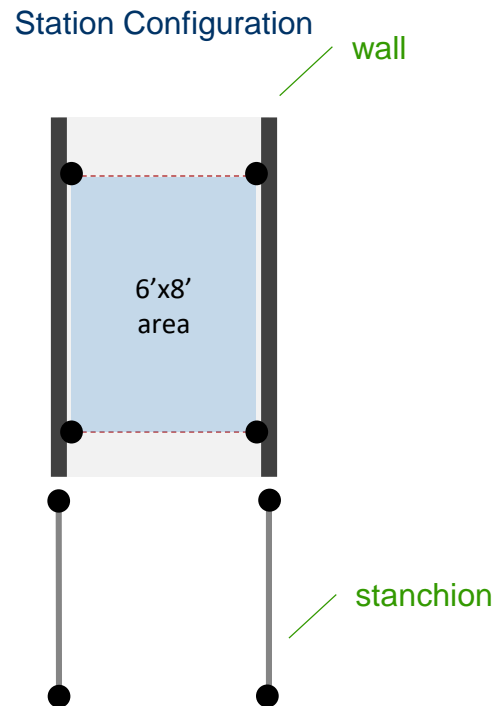
- The 2020 Rally will take place starting September 28, 2020
- Timeline
 - Rally Algorithm installation – September 21- 23
 - Acquisition System Installation – September 28
 - Testing – September 29 – TBD
 - De-installation – TBD
 - VIP Day – TBD
 - Phase 2 Testing – Deferred

General Questions, Debugging, Assistance

- This is the **last** scheduled webinar prior to the 2020 Rally
- Legal and logistics questions should be directed to peoplescreening@hq.dhs.gov
- For technical topics, a Slack channel (chat room) will be available for questions that pertain to:
 - API Integration
 - Rally Metrics
 - Rally Schedule
- To obtain access to the Slack channel, email rally@mdtf.org

Acquisition System Installation

- There will be multiple stations at the MdTF, each labelled with a letter
 - You will be assigned to one of these stations upon arrival
- Must be able to configure station name and IP address of the API endpoint



Acquisition System Installation

- After you have completed installation of your system within the MdTF, a staff member will validate the following:
 - Logistics
 - **Space Limits: 6 feet wide x 8 feet long**
 - **Power: 5 amps max (single power strip will be provided)**
 - **Ethernet: LAN only**
 - Safety
 - I.e., adherence to the safety information that you provided and no risk is present for any users, including tripping hazards like cables on the floor, harmful illumination, and physical dangers (sharp edges, exposed wires, etc.)
 - Capability
 - I.e., your ability to successfully acquire and send image data through the API to the MdTF infrastructure

Intranet and Internet Connectivity

- There will be network drops for Acquisition Systems to send images to the MdTF API
 - This network WILL NOT have public internet access during the test and is simply meant to connect to your system to the MdTF infrastructure
- During testing, all MdTF networks will be dedicated to Rally testing
 - Due to this, we are not able to provide public internet access for personal devices
 - It is recommended that you bring a mobile hotspot if you would like to work during your visit to the MdTF

VIP Day

- VIP day is an opportunity for your organization to pitch your system to representatives from DHS, government organizations, airlines, and other interested parties
- The format and date of VIP day is **TBD**
 - We are currently looking into hosting the event online
- Business and technical POCs will receive an email from peoplescreening@hq.dhs.gov regarding logistics and format in the coming weeks

Test Day Schedules

- There will be multiple test sessions during each test day – **Subject to Change**
 - The morning session is planned to start at 8:30 AM
 - The afternoon session is planned to start at 1:00 PM
- We recommend that you arrive 45-minutes prior to the morning session to verify your equipment is operational
 - You should be available between the morning and afternoon sessions in the event your system breaks
- During the test you will be able to view transactions at your stations using a device monitor
 - If you notice something about your system during this time, you should notify an MdTF staff member and they will be able to schedule a time for you to address the issue
 - **Testing will not be interrupted to address technical issues**
 - No session data will be excluded from Rally metrics
 - Human factor changes will only be allowed on the first day of collection

Location and Shipping Information

- Address:

Maryland Test Facility

1221 Caraway Court, Suite 1070

Upper Marlboro, MD 20774

Attn: Rebecca Duncan (301) 909 - 9265

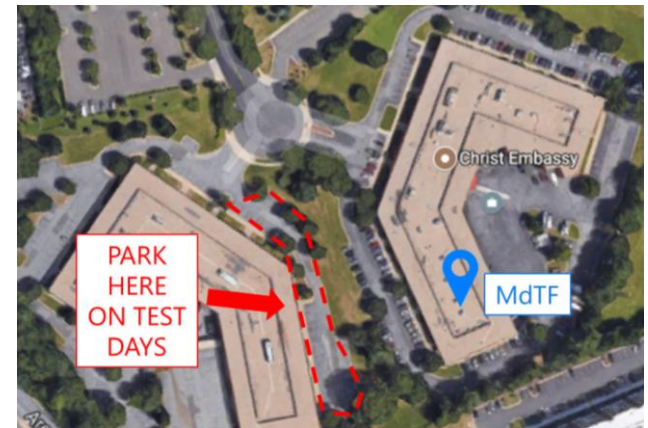
- Please label all packages with your company name and appropriate POC

- Shipping Information

- Acquisition System shipments will be received and staged in the assigned station 1 week prior to installation – any shipments received before **September 21, 2020** will be rejected
- Matching Systems that are being shipped must be received by **September 28, 2020** or risk being rejected
- MdTF is NOT responsible for inspection or condition of equipment received
- Date of return shipping is **TBD**

Accommodations and Parking

- There are several hotel options near the MdTF
 - Within Walking Distance:
 - Courtyard by Marriott Largo Capital Beltway
 - Residence Inn by Marriott Largo Capital Beltway
 - Within a 5-minute Drive:
 - DoubleTree by Hilton Hotel Largo
 - WoodSpring Suite Washington DC East Arena Drive
 - Holiday Inn Express & Suites I-95 Capital Beltway
- If you drive to the facility, you are required to park across from the facility on test days
 - Parking immediately outside the facility is reserved for volunteers



Post-Rally – Acquisition Systems

- Equipment de-installation needs to begin as soon as the collection concludes
 - Access to the facility after the conclusion of the Rally will be restricted
- The MdTF is not responsible for any packaging, marking or shipping of equipment, so for those who require shipping, please coordinate shipping of your equipment from the MdTF, **date TBD**
- DHS will provide data collected from your system back to you, per the CRADA
 - There will be a data validation period after the conclusion of Rally testing
- You are responsible for providing the media on which the data will be delivered
 - Required to provide a FIPS 140-2 encrypted device with a POC and shipping address
 - Upon receipt of data, you are required to provide an email acknowledgement to peoplescreening@hq.dhs.gov

Post-Rally – Matching Systems

- Analysis of Matching Systems will take place after the collection of the 2020 Rally has completed
 - Technical POCs should be available to provide support for matching systems for a period of 3-months after the conclusion of testing
- DHS will provide data collected from your system back to you, per the CRADA
 - There will be a data validation period after the conclusion of Rally testing
- You are responsible for providing the media in which the data will be delivered
 - Required to provide a FIPS 140-2 encrypted device with a POC and shipping address
 - Upon receipt of data, you are required to provide an email acknowledgement to peoplescreening@hq.dhs.gov

Due Dates Reminder – All Rally Participants

Acquisition System Requisites	Due Date	Matching System Requisites	Due Date
Face Mask Question	Jun 12, 2020	Face Mask Question	Jun 12, 2020
CRADA	Aug 19, 2020	CRADA	Aug 19, 2020
Ethics Training	Aug 19, 2020	Ethics Training	Aug 19, 2020
API Integration	Aug 19, 2020	Initial Docker Image	Aug 19, 2020
Representative Information	Aug 19, 2020	Ethics Training	Aug 19, 2020
System Safety Certification	Aug 19, 2020	Final Docker Image	Sep 18, 2020
Code of Conduct Acknowledgement	Sep 28, 2020		

Contact Us

For more information, contact: peoplescreening@hq.dhs.gov or <http://mdtf.org>



WEBSITE
scitech.dhs.gov



PERISCOPE
periscope.tv/dhsscitech/



TWITTER
[@dhsscitech](https://twitter.com/dhsscitech)



YOUTUBE
youtube.com/dhsscitech



FACEBOOK
[@dhsscitech](https://facebook.com/dhsscitech)



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