Technical Experts Group







November 1, 2017
Prepared by WCO Technical Experts Group







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Nuctech Smiths Detection

www.wcoomd.org



- Start June 2015 Brussels
- Meeting Rotterdam October 2015
- 1st TEG meeting St. Petersburg September 2016
- 2nd TEG meeting Brussels May 2017
- Present state of the development
- Timeline
- Next steps

















Start June 2015

- Meeting In Brussels with Industry and Customs Administrations in June 2015
- Handing over the experience from Rotterdam to WCO
- Goals to achieve:
 - To allow interoperability of the different NII equipment bought from different manufacturers;
 - > To allow exchange of images within and between Customs Administrations;
 - To allow development of a data base of library of images a more long term goal; and
 - To assist in training of the image analysts















Meeting Rotterdam October 2015

- Having agreement that in good cooperation between Industry and Customs Administrations a standard format for X-ray images should be developed
- A TEG-NII group will be established Co-chaired by one representative from Industry and one from Customs Administrations
- The development will be carried out in two phases;
 - Phase 1: Proof that based on a 16 bit TIFF-file format images can be converted;
 - Phase 2: with help from the lessons learned form phase 1, come to a standard setting for the format











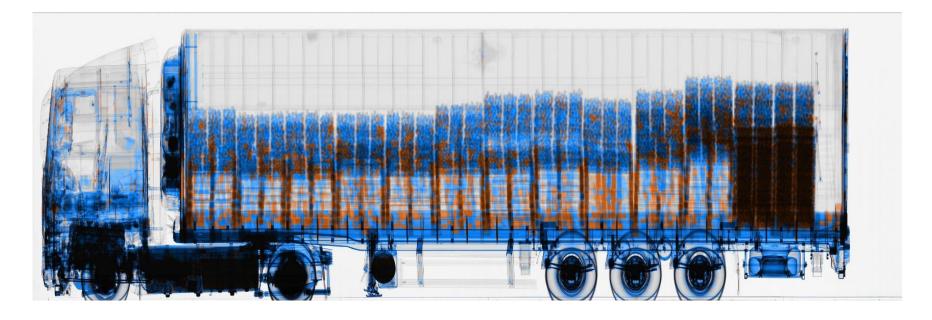






1st TEG meeting St. Petersburg September 2016

- Successful completion of phase 1
- Image captured by Nuctech scanning system displayed by smiths viewer



















1st TEG meeting St. Petersburg September 2016

- Phase 2 pilot will be equipped with functionality for export of UFF files
- Agreed is to add a phase 3.
 - A phase 3 will enable the generation of a UFF at the very root of the NII event;
 - ➤ At the stage of file standardisation it would be possible to open up the initiative to other suppliers of technology equipment.

















2nd TEG meeting Brussels May 2017

Industry proposed to change phase 2 form a physical pilot into a digital pilot.
 Phase 2 deliverables:

Unified Format Version-2 Export

- Save images and result data post inspection
- Allow transmission of UFF file to a "server"

Unified File Format Viewer

- > Each vendor will deliver a viewer
- Each viewer will be able to read all vendors images
- Able to read images from the "server"

















Present state of the UFF development

- File version 2.0 architecture is now completed.
- Cloud demonstrator application is now completed.
- Process flow to upload and view UFF2.0 files has been tested and ready for activation.
- NII suppliers are underway with final development of their respective UFF file viewers, ahead of the demo execution launch.
- Base requirements for Customs Administrators is now complete and ready to send out to all members for demo consideration.







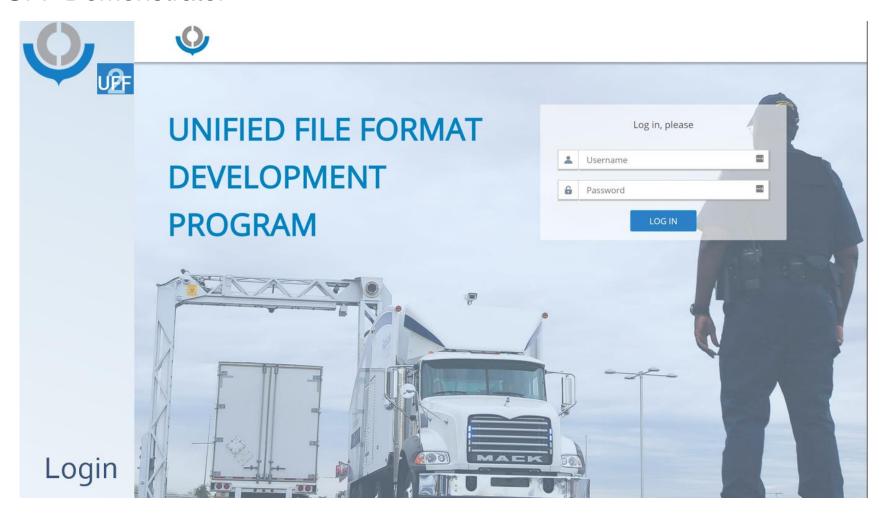




















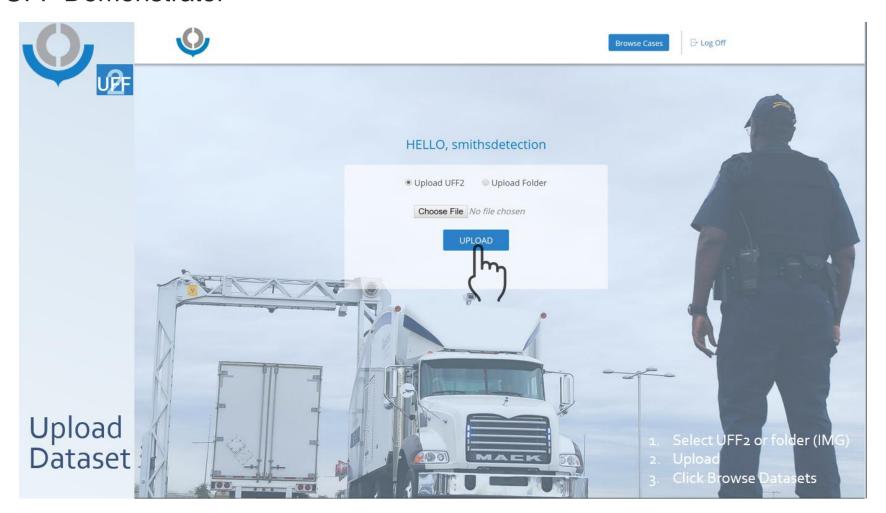




















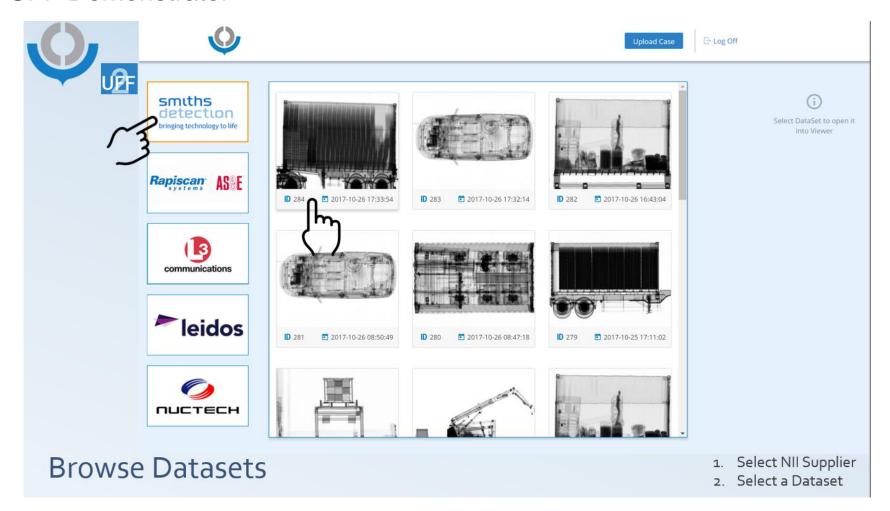
























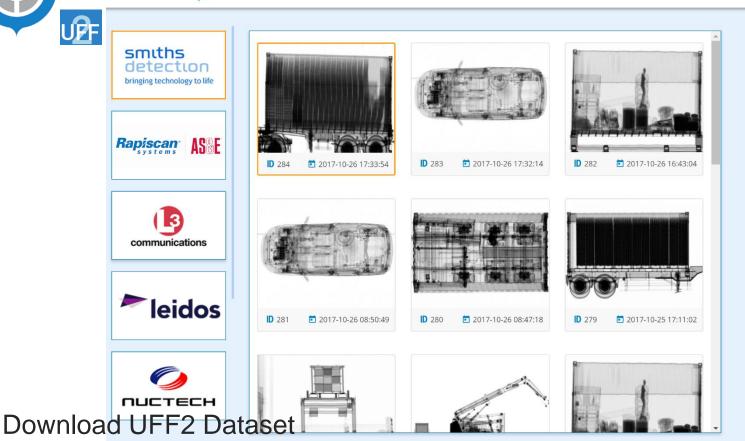




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Unified File Format Development Program







1. Click "Download" to get UFF

















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Unified File Format Development Program





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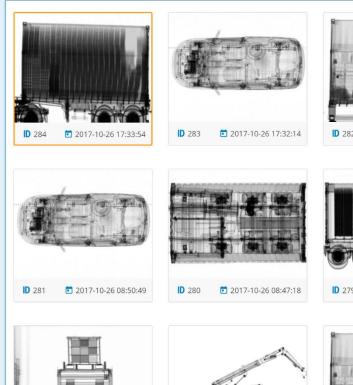




















1. Choose a Viewer







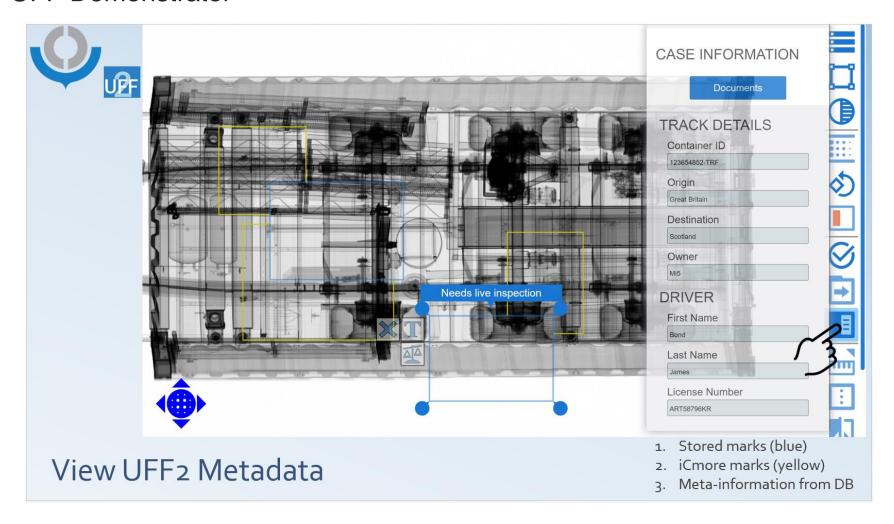




















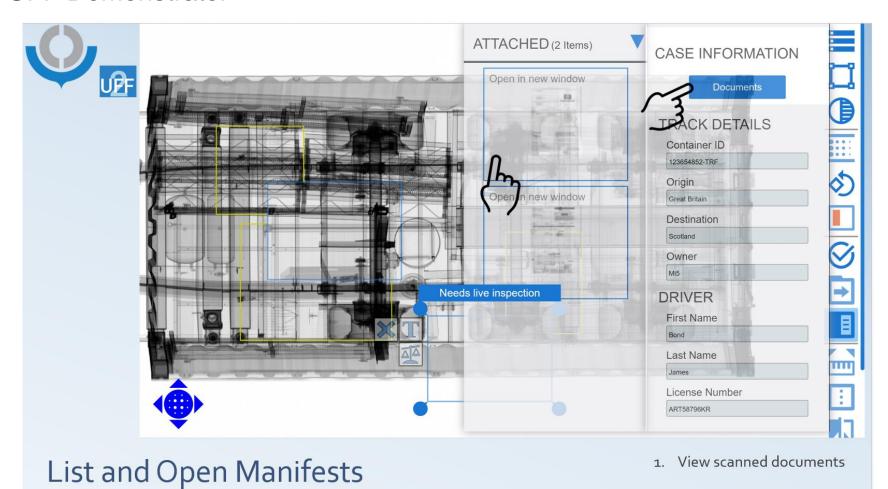






























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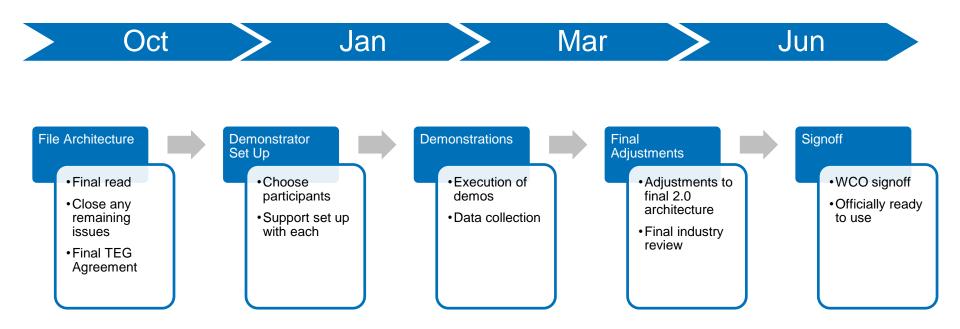






Timeline and Activities:

Closing Final Stages of Work Remaining

















Next Steps (To Next Meeting):

- Final clean-up of 2.0 Architecture document by TEG UFF committee (Nov 15th).
- WCO will send out an official letter regarding demo participation requirements & instructions (Nov 15th).
- NII Suppliers to finish their respective UFF viewer tools (Dec 1st).
- Final preparations of Cloud-based demonstrator ahead of demo events (Jan 2nd).
- Execute demos & data gathering (Jan 15th to Mar 10th).
- Present results at the March 2018, AO Conference.













