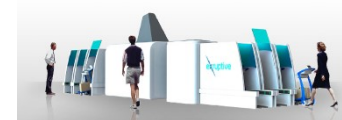


Open Architecture and the EOS

API

CBP-ADEPT-05

July 2023



EUROPEAN ORGANISATION FOR SECURITY

EOS is the manufacturers' European Industry association – MOU with SMC

- Open Architecture promises various benefits: ease of integration, inbound screening (using outbound data), 3rd party algorithms, standard GUIs, easier integration of ASL/TRS, Business intelligence analysis
- There are many challenges – technical standards, certification, commercial, national security, cybersecurity, ip, ownership of responsibility, reliability, liability etc
- V2 of the OA paper includes output of working groups (now including technology providers) addresses many of the challenges and is ready for release – this was co-authored by ACI-Europe, EOS, TSA
- EOS identified use cases and work through technical and non-technical issues:
 - 3rd Party Algorithms
 - Integration of X-ray diffraction for alarm resolution
 - Matrix / Central Image Processing using 3rd party GUI
- Manufacturers embrace DICOS but have concerns with OPSL including: speed/latency, availability for all applications, transparency, ownership, not true Open Source / Open Architecture – EOS now engaging with TSA to address issues
- EOS determined that use-cases could be implemented with combination of DICOS and a high-speed streaming data transfer API using GRPC – which can be used instead of OPSL (or in combination)

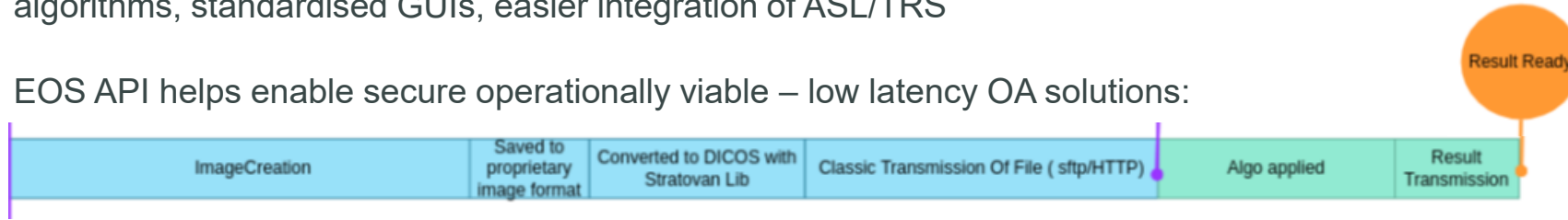
Features of EOS API:

- Freely available
- High speed
- Secure
- Open Source
- Agnostic to what is transferred (ie any DICOS version, status data or ACRIS)
- Cyber Secure



Open Architecture – EOS API Who cares?

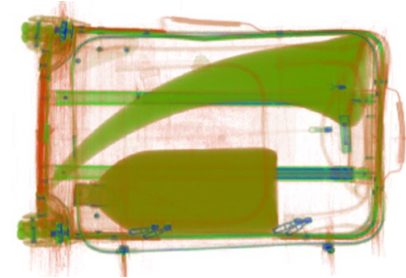
- Open Architecture promises various benefits: ease of integration, inbound screening (using outbound data), 3rd party algorithms, standardised GUIs, easier integration of ASL/TRS
- EOS API helps enable secure operationally viable – low latency OA solutions:



VERSUS



- It also opens up entirely new fields, especially in the Customs space (subject to data sharing):
 - Every bag, parcel, pallet, suitcase and person that flies anywhere in the world is screened for security
 - That data can be used for safety (eg Dangerous Goods) as well customs / inbound applications
 - Drugs – Counterfeit – Cash – weapons - IWT / CITES etc
- API has been shared with community and is available on request
- EOS welcomes input further to evolve and mature the API



Contact Us

European Organisation For Security

We can provide contacts for individual manufacturers or can engage as a group



<http://www.eos-eu.com/>

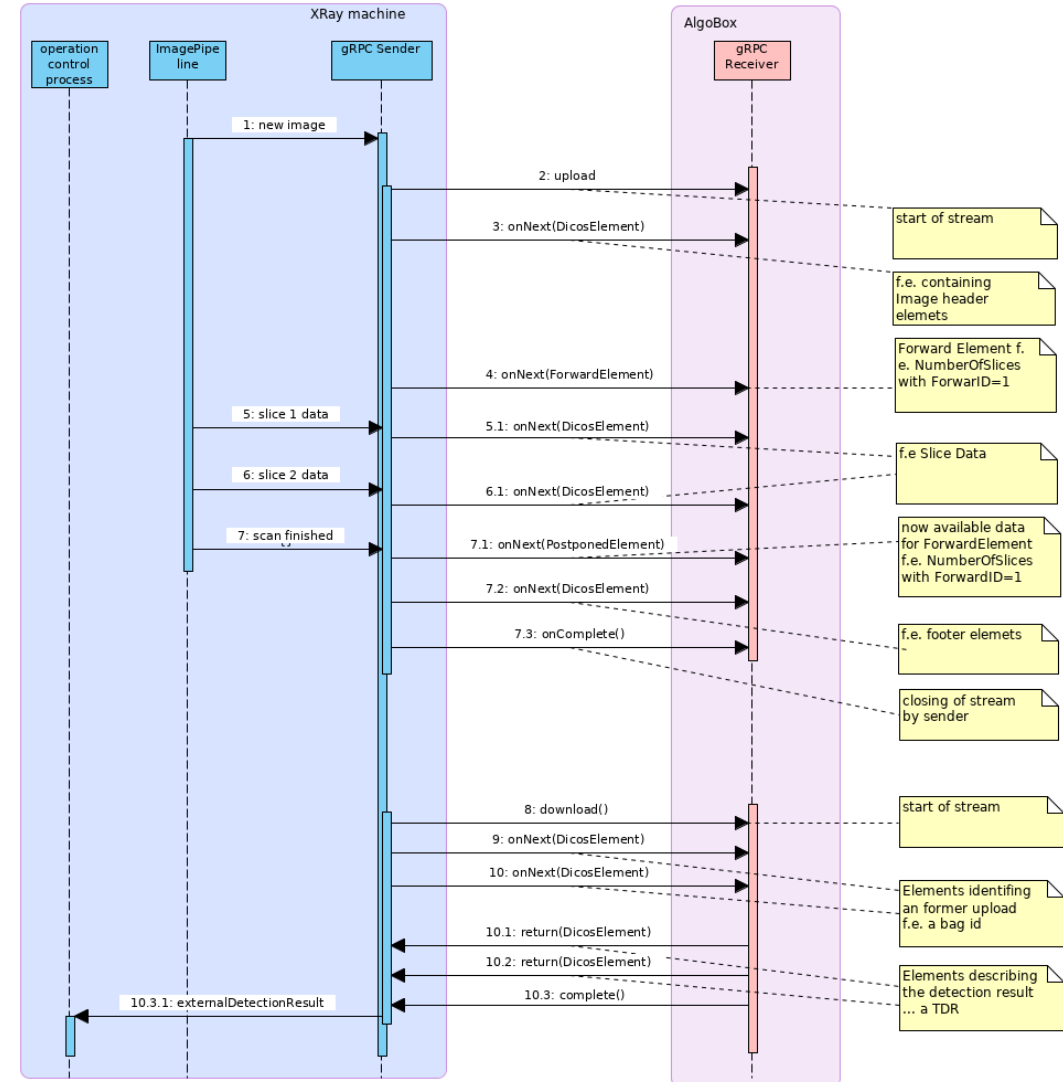
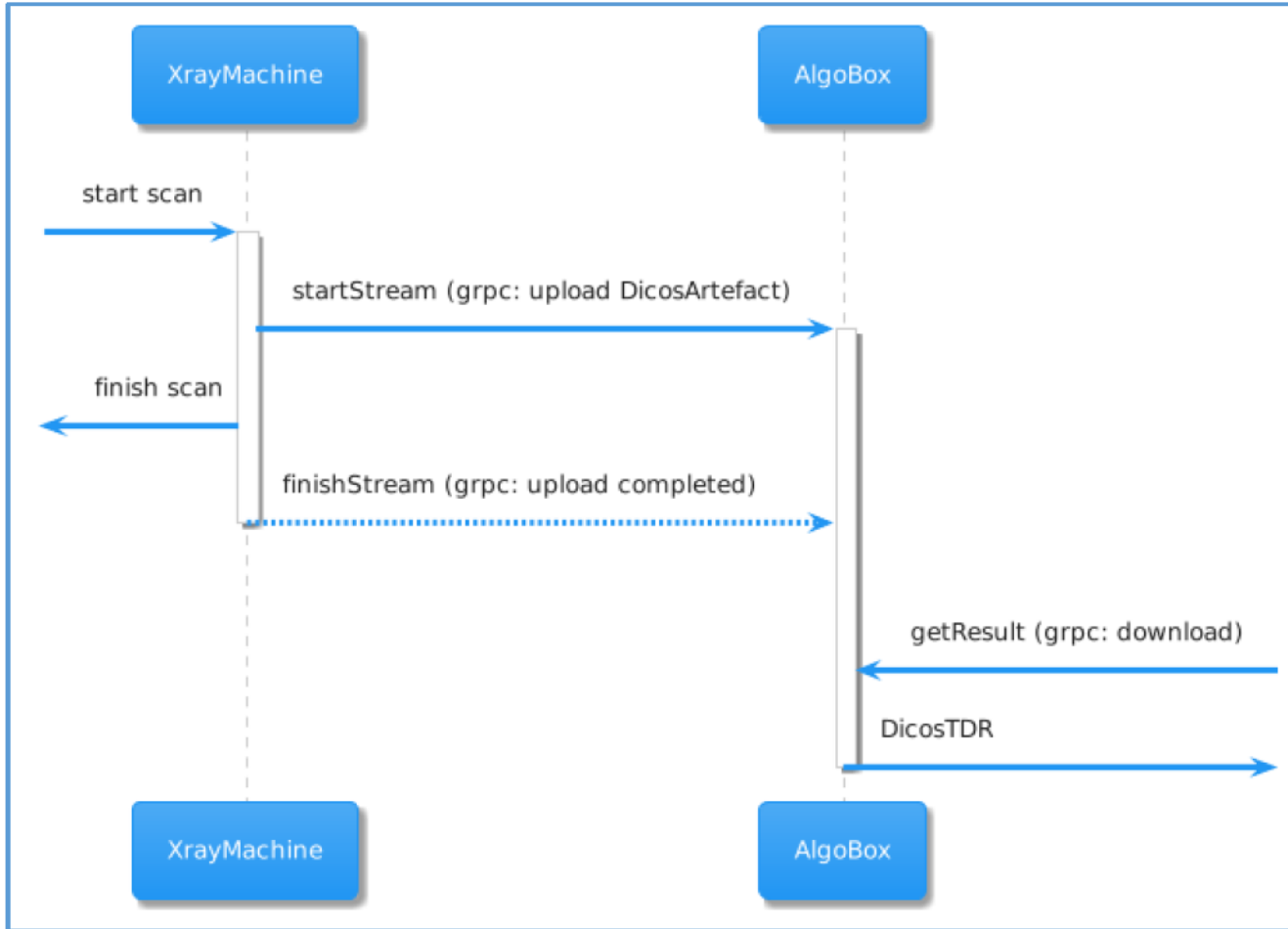


kmann@rapiscansystems.com



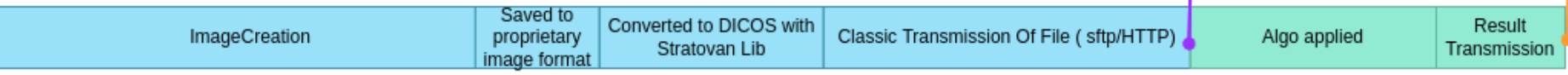
Ken Mann +447734419220

Open Architecture – EOS API so what?

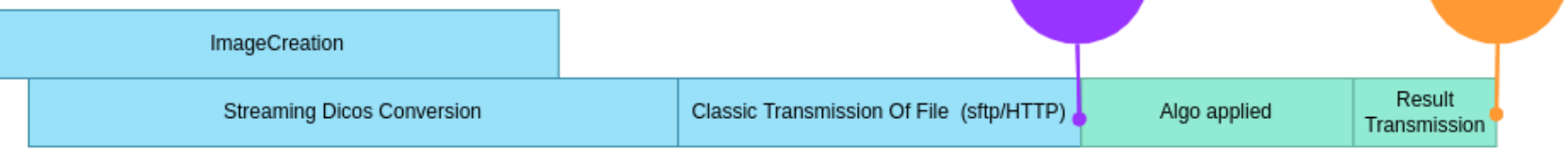


Start of Bag

DICOS export with Stratovon lib



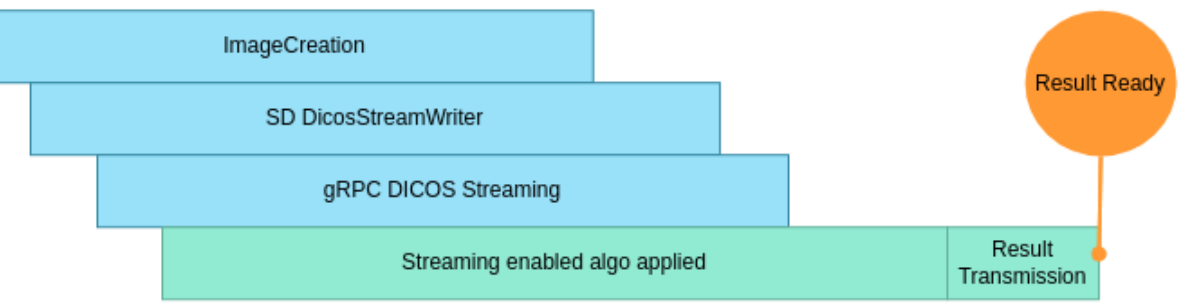
DICOS export with file based export



DICOS export streaming proposal



DICOS export streaming proposal with streaming enabled algorithm



so what?