

# DICOS DEPLOYMENT

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# Topics for this Presentation

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- Digital Imaging and Communications in Security (DICOS) present and future fielded implementation **status**.
- Implementation (**CSID FRD**)
- DICOS SDK Development Aids
- Stakeholder Activities
- DICOS v3.0 Timeline
- Backup Slides



# Current Status of DICOS Development

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- DICOS v2A has been approved
- Stratovan Software Development Kit (SDK) for DICOS v02a has been completed and tested, and it is available through the Stratovan website, [www.stratovan.com](http://www.stratovan.com). Jeff Quinones is the TSA approving agent for one to become “an approved user.”
- DICOS v3 work will begin shortly. Priorities include:
  - Sensor Data Interface (SDI)/Corrected Data Interface (CDI)
  - Streaming of data
  - Unresolved issues from version 02a
- The TSA is evaluating a new statement of work and budget from the National Electrical Manufacturers Association (NEMA).



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# Phases Involved in Deployment of any DICOS Version

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- Phase 0:
  - Stratovan SDK development and TSS encoding of Original Equipment Manufacturer (OEM) images.
- Phase 1:
  - OEMs have been implementing DICOS during their development of a prototype Graphical User Interface (GUI) for checkpoint.
    - Encoding and decoding their own images.
    - Implementation issues came to light
    - Identified issues and resolved them.
      - Private tags will be allowed under certain conditions
  - Open Threat Assessment Platform, Stratovan Automated Threat Recognition (ATR) development, and TRAP
  - Going forward, all data collection will result in all images being placed in DICOS format.



# DICOS v3.0

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Topics and Issues for DICOS v3.0 include:

- Additional Modalities
    - Differential Phase Contrast (DPC)
    - Coded Aperture Imaging (CAI)
    - Phase Contrast Imaging (PCI)
    - Air Cargo
    - CAT, BAT, BPSS
  - TDR Enhancements
    - Prohibited-item reporting
    - Deep Learning
    - Third party ATR support for reporting results
    - Aggregated TDRs from all TSEs
      - Passenger
      - Baggage screening results
- Bottle Liquid Screener (BLS)
  - X-ray Diffraction (XRD)
  - Electronic Trace Detection
  - Sensor Data Interface (SDI) and Corrected Data Interface (CDI)
  - Streaming of data

Assignment of extension dcs to denote a DICOS encoded file.



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# Questions



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# Backup Slides



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# Location of Stratovan DICOS SDK and Toolkit

Go to: [www.Stratovan.com](http://www.Stratovan.com)

Click on: Products, Select: Security, DICOS

Complete Form.



The screenshot shows the Stratovan website's 'Our Products' section. The Stratovan logo is at the top left, with the tagline 'Saving lives through software'. Navigation links include 'Products', 'Enterprise Solutions', 'Blog', 'Support', and 'Company'. A 'Sign In' button and a 'Your shopping cart is empty.' message are on the right. A 'FREE Trial' button is also visible. The main heading is 'Our Products'. Below it, the breadcrumb 'Home / Products' is shown. The product 'DICOS Toolkit' is featured with a green box image. A description follows: 'Our DICOS Toolkit provides a Digital Imaging and Communications in Security (DICOS) software library and conformance testing suite that facilitate the conversion between native security vendor data with the DICOS format. The toolkit enables airport security devices to connect over a local area network, and handles both files on disk and cross-platform connectivity on Linux, OSX and Windows.' A green button labeled 'Request access to DICOS Toolkit' is present. An inset image shows a 'Movavi Screen Capture Studio' window with a 'REC' button.



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