



CEIA NetID Network Management System



Overview

www.ceia.net

CEIA NetID Network Management System **NetID System Goals**

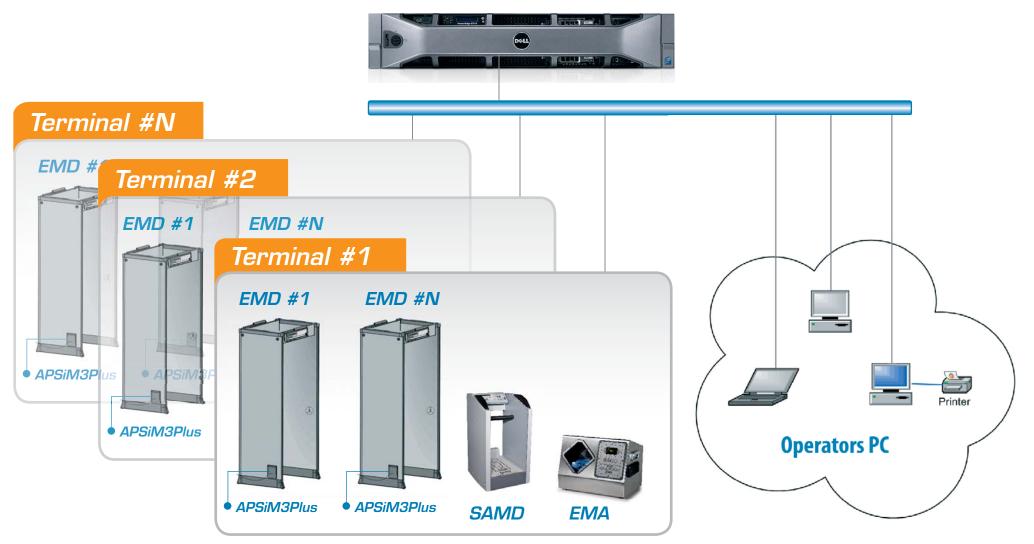


- Data collection from each CEIA Security Device detailing the information on every single screening check
- Monitoring of the functionality of each Security Device
- Real time verification of the security and operational configuration
- Detailed reporting of the passengers data and the Security Device configuration data

CEIA NetID Network Management System NetID System Layout



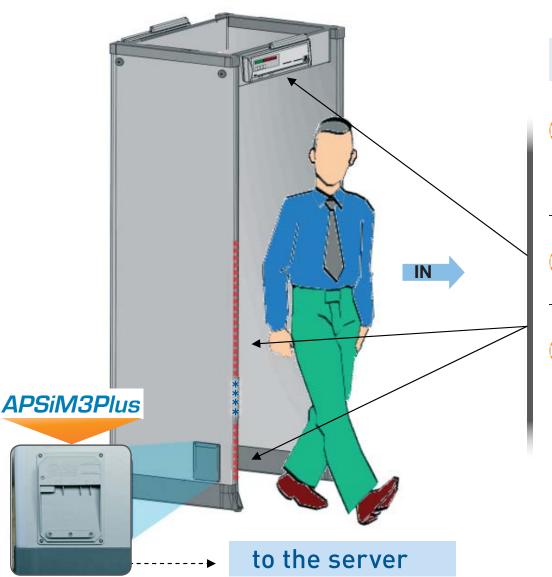
NetID SERVER



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CEIA NetID Network Management System END Transits logging





Data saved for each transit

Date and time

(dd-mm-yyyy hh:mm:ss)

Transit direction

For Metal and radiological threats

- Alarm levels
- Alarm zones

CEIA NetID Network Management System

Network APSiM3Plus



(1-3)

Advanced Power Supply and Interface Module

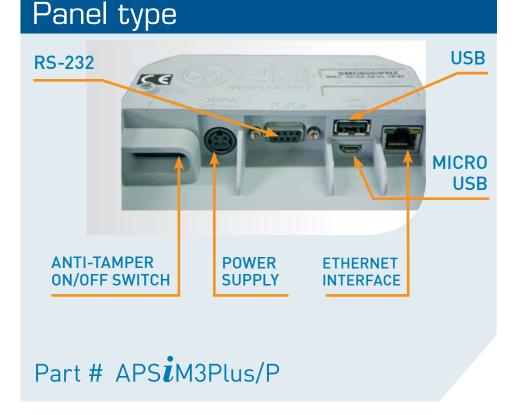
- Ethernet 100base-TX connection from bottom and ceiling
- 802.11 b/g Wi-Fi
- Bluetooth 2.1
- USB host and device interface
- RS-232 interface
- Zero Configuration Networking (Zeroconf)



CEIA NetID Network Management System Network APSiN3Plus



- The Transits events are stored in a FIFO queue in the *APSiM3Plus* persistent memory that is able to contain up to 50,000 records.
- If the network connection with DeviceLink is lost, the events will be afterwards automatically retrieved by the DeviceLink Service when the network connection is restored.

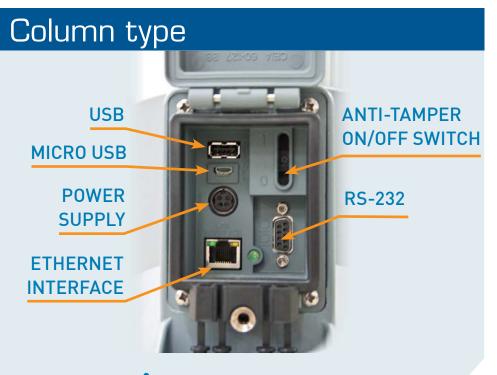


(2-3)

CEIA NetID Network Management System Network APSiN3Plus



- The APSiM3Plus device is provided with a real time clock daily synchronized with time and date of the Airport temporal reference server by the NetID DeviceLink service.
- The Ethernet communication over TCP/IP uses the AES-1 encryption algorithm to protect the data on the network



(3-3)

Part # APS**i**M3Plus/E





User Applications



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CEIA NetID System: User Applications User Applications



NetID SERVER



NetID Management

The program used **for the configuration and the management** of the Security Devices

NetID Monitor

The program used **for real time monitoring** of Metal Detector and other Security Devices operation and configuration

NetID Reports

The program used for production and scheduling of the statistics on the transit data acquired and on the configuration of the Security Devices

CEIA NetID System: User Applications NetID Management



(1-2)

Metal Detector Management

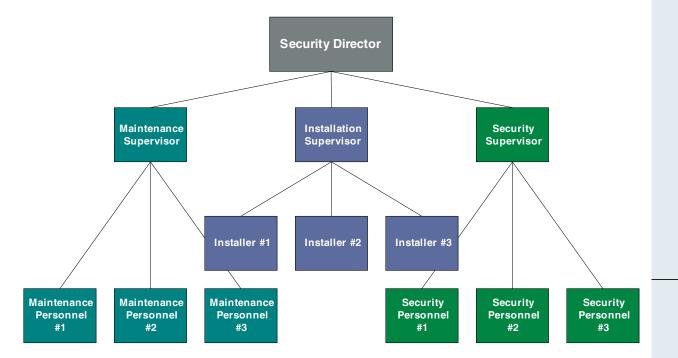
The software is used to configure a Security Device in the network and to enter all the parameters that must be monitored.

| | 🗐 Ceia Net II |) - Add Device | | × | | | | | | |
|----------|---------------|--|---------------------------------------|-----------|----|-----|---|----------|----------|-----|
| | Device I | nstallation Parameters | | | | | | | | |
| | De | vice Type: 02PN20 | ork Device: Address: 111.111.111.1 | | | | | | | |
| | Dev | rice Name: GATE1 | | | | | | | | |
| | | Location: Terminal A | I COM Device: | | | | | | | |
| C Lister | | Password: | Serial Port: | | | | | | | |
| | | | Device Controller: | | | | | | | |
| | | evice Link: DL1 Load Device Data | | | | | | | | |
| | Acti | vation Key: | | | | | | | | |
| | Paramet | er Description | Value | | | | | | | |
| | SN | Serial Number (Read Only) | (not read yet) | | | | | | | |
| | IS | International Security Standard | NILECJ1 | | | | | | | |
| | SE | Sensitivity of Metal Detector [099] (Read On | ly) 65 | | | | | | | |
| | MV | Minimum alarm Volume [09] | 2 | | | | | | | |
| | AV | Alarm Volume [09] | 3 | | | | | | | |
| | AD | Alarm Duration | 1P | | | | | | | |
| | AT | Alarm Tone [09] | 2 | | | | | | | |
| | BM | Display Bar Mode | CONT | | | | | | | |
| | СН | Transmission Channel [099] | 50 | | | | | | | |
| | DS | Maximum Detection Speed [09] | 5 | | | | | | | |
| | DV | Diagnosis Volume [09] | 0 | | | | | | | |
| | GD | Gate Direction [19] | 1 | - | | | | | | |
| | | | | ive | | | | | | |
| | | | | | | | | | | |
| H. | | | <u>C</u> l | ose | | | | | | |
| | | | 9:54 AM 1 | 0/13/2004 | ٧١ | w w | C | e i | а | . r |
| 1 | | | J 3.34 AM J 1 | 071372004 | | | | <u> </u> | <u> </u> | • • |

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CEIA NetID System: User Applications NetID Nanagement





Example of 3-level user hierarchy with three main categories

- Installers
- Security personnel
- Maintenance personnel

Operator Management

(2-2)

The software is used to create and assign all the user profiles for the operators who will use the NetID applications.

Every operator belongs to a profile that has access to the functions required.

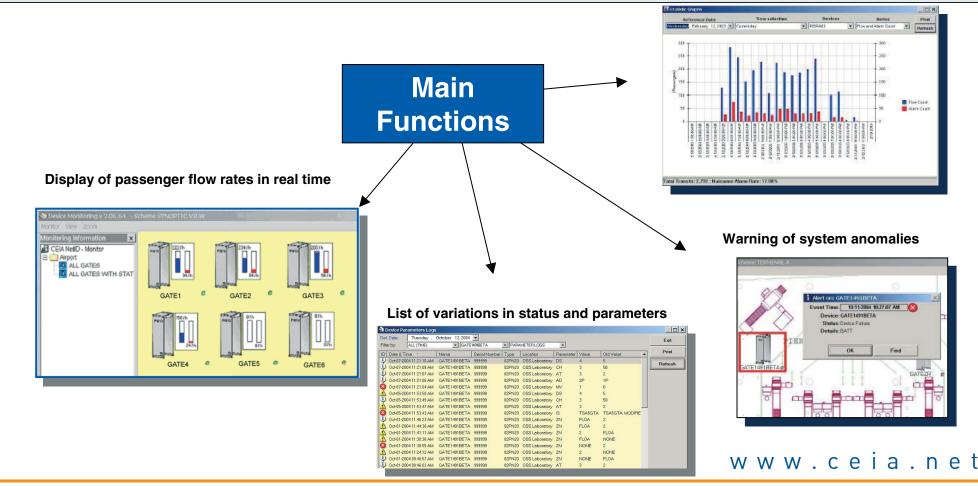
User profiles are organized hierarchically, based on the type of operations assigned to them.

CEIA NetID System: User Applications NetID Nonitor



(1-2)

Using the NetID Monitor program, the status and configuration of the Metal Detectors can be displayed



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CEIA NetID System: User Applications NetID Nonitor



(2-2)

Metal Detector real time monitoring

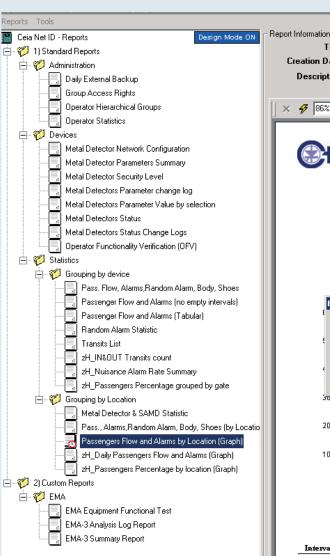
The EMD functionality is verified in real time and incidental failures are immediately signaled



CEIA NetID System: User Applications NetID Reports

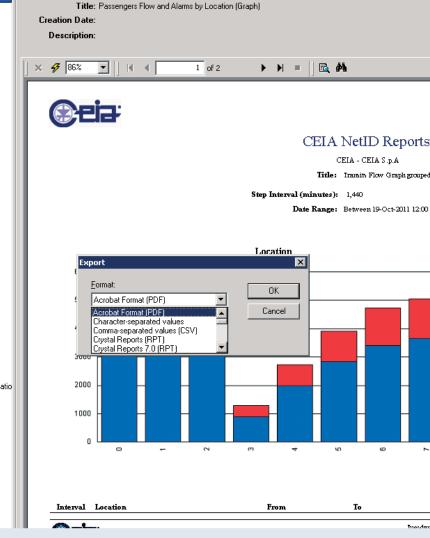
- The software allows
 statistics based on
 the data acquired
 by the system in real
 time
- The Report
 Application includes

 a rich library of
 predefined reports





(1-2)



CEIA NetID System: User Applications NetID Reports



(2-2)

- The reports can be printed or exported in various formats
- The ability to display, print and export the reports depends on the operator's access profile
- Reports can be scheduled for automatic delivery to an e-mail server or a network folder with a programmed periodicity

CEIA NetID System: User Applications

Examples of Reports



| New report - (HP Laser Jet 2200 Series P Series P Seri | 1 of 4 ▶ ▶ =] 🖾 i | A ? Reports | × | ≦ | æе | ja: | Net | ID Reports | |
|--|---|--|--|------|--|---|--|---|---|
| Data range: Data betwee Device: ALL | Print time: 9:1 | aph of the Nuisance Alarm Percentage I 22:54AM ednesday, 5 March, 2003 5-2003 09:22 | for each gate | | Filter criteria: | Report | Print Time: | Report on changes in device parameter 11:23:58AM Tuesday, 30 July, 2002 | s |
| For CREMOI | DEVICE. TYPE: LOCATION: TOTAL TRANSIT : NUISANCE ALARM CO NUISANCE ALARM % : | CREW01 PN10 Terminal 1,620 DUNT: 348 21.48% | | | GATEI GATEI GATEI GATEI GATEI GATEI GATEI GATEI GATEI GATEI | 29-Jul-2002 8:25 pm 29-Jul-2002 7:36 pm 29-Jul-2002 7:36 pm 29-Jul-2002 7:31 pm 17-Jul-2002 4:26 pm 12-Jul-2002 4:26 pm 12-Jul-2002 11:14 pm 08-Jul-2002 11:14 pm | AV AV AV AV IS IS SN | Alarm Volume [8>2] Unable to change value [AV 0 -> Not valid parameter Unable to change value [AV 0 -> Not valid parameter Alarm Volume [1>8] International Security Standard [2>1] International Security Standard [1>2] Serial Number [->12321] | r] MROSSI |
| For KENNAG1 | DEVICE: TYPE: LOCATION: TOTAL TRANSIT : | Filter Criteria: Transit Between 9- Location: Pier A | Print Time: 100230411 Print Date: Wednesday,5 Narch,2 | Repo | GATE1 GATE1 GATE1 GATE1 gATE1 evice changes: | 08-Jul-2002 11:14 pm 08-Jul-2002 11:14 pm 08-Jul-2002 11:13 pm 08-Jul-2002 11:13 pm 12 | PV DS MV SE | Program Version [->630] Maximum Detection Speed [0->5] Minimum alarm Volume [0->1] Sensitivity of Metal Detector [22->1] | NSMITH VSTINE NSMITH ADMINISTRATOR |
| | | P PERAD4 — | PERAD6 PERAD1 PERAD2 PERAD2 For Pier A | | PIERA01 19.0% PIERA02 12.6% PIERA03 26.3% PIERA04 28.1% PIERA05 10.3% PIERA06 2.9% Total: 100.0% | | | | |

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CEIA NetID System: User Applications Transit Reports



Statistics on the passenger flow rate and the alarm percentage calculated, with time detail

| D _=i | | | | | | <u>k</u> rm | Disp lay status | Body Alarm | Shoes Alarm | Direction | IN | OUT Tran |
|--------------|-------------------------------|------------------------|-----------------------|-----------|---------|-------------|--------------------|---------------|----------------|-----------|----|----------|
| | | etilj k | leports | | | | 3 * * * | | | IN | 1 | |
| | | | | | | | 14 A A | | | IN IN | 1 | |
| | | | | | | x | ***** | x | | IN | 1 | |
| | | CEIA SpA - Are | ZZ0 | | | x | ***** | ** X | | IN | 1 | |
| | | | | | | X | ***** | X | х | IN | 1 | |
| | | | | | | x | an an an an | x | | IN IN | 1 | |
| | | | | | | x | ***** | x | | IN | 1 | |
| Time Inte | rval: Between 9/1/2004 | 4 10:22:17AM and 10/13 | /2004 10:22:17AM | | | x | ***** | х | | IN | 1 | |
| | | | | D | | | at at at | | | IN IN | 1 | |
| location | Gate | Security Level | Date & Time | Direction | Alarm s | x | ***** | ** X | | IN | 1 | |
| GATE1 | | | | | | x | ** | ** X | x | IN IN | 1 | |
| Location A | GATE1 | NILECJ 1 | 2004/09/21 11:11:16AM | OUT | | | ** | | ~ | IN | 1 | |
| Location A | GATE1 | NILECJ 1 | 2004/09/21 11:11:12AM | IN | | | | | | | | |
| Location A | GATE1 | NILECJ 1 | 2004/09/20 2:31:48PM | IN | | | | | | _ | | |
| Location A | GATE1 | NILECJ 1 | 2004/09/20 2:31:35PM | OUT | | | 41- | rm: | Display | status: | | |
| Location A | GATE1 | NILECJ 1 | 2004/09/20 2:31:13PM | OUT | | | Body Ala | | | | | 1 |
| Location A | GATE1 | NILECJ 1 | 2004/09/20 2:28:53PM | OUT | | | | | | | | |
| Location A | GATE1 | NILECJ 1 | 2004/09/20 10:13:09AM | OUT | | | Shoes Ala | rm: | | | | |
| Location A | GATE1 | NILECJ 1 | 2004/09/20 8:40:58AM | IN | x | | | | | | | |
| Location A | GATE1 | NILECJ 1 | 2004/09/20 8:40:52AM | IN | Х | | | | | | | |
| Location A | GATE1 | NILECJ 1 | 2004/09/20 8:40:44AM | IN | | | | | | | | |
| Location A | GATE1 | NILECJ 1 | 2004/09/20 8:40:38AM | IN | | | | | | | IN | |
| Location A | GATE1 | NILECJ 1 | 2004/09/20 8:40:25AM | IN | | | | | | | | _ |
| Location A | GATE1 | NILECJ 1 | 2004/09/14 9:49:14AM | IN | х | | Ala | rm: X | Display | status: | ** | 277 |
| Location A | GATE1 | NILECJ 1 | 2004/09/14 9:49:07AM | IN | | | Body Ala | | | | | |
| Location A | GATE1 | NILECJ 1 | 2004/09/14 9:49:01AM | IN | | | Shoes Ala | | | | | |
| Location A | GATE1 | NILECJ 1 | 2004/09/13 4:38:05PM | IN | | | Shoes Ala | | | | | |
| Location A | GATE1 | NILECJ 1 | 2004/09/13 4:38:00PM | IN | х | | | | | | | |
| Location A | GATE1 | NILECJ 1 | 2004/09/13 4:37:55PM | IN | | | | | | | | |

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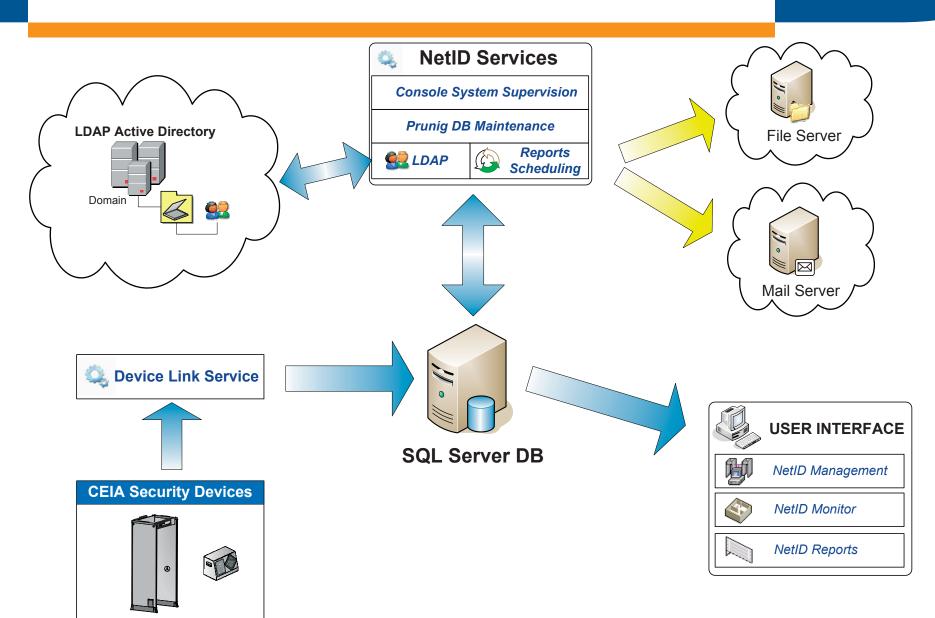


System Architecture



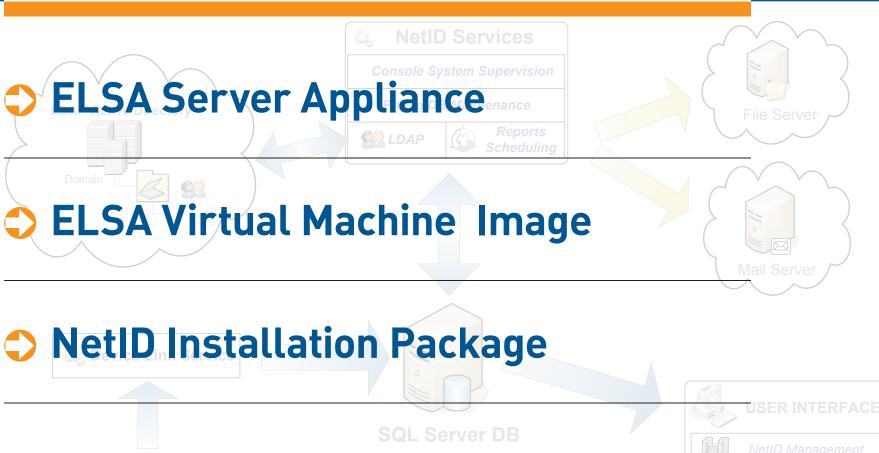
CEIA NetID: System Architecture





CEIA NetID: System Architecture NetID Deployment Options







NetID Monit

NetID Reports

CEIA NetID: System Architecture NetID ELSA Server



(1-2)

The NetID ELSA Server has been especially designed to facilitate setting up a NetID control system:

- Pre-installed System including: SQL Server, Windows Server, Active Directory, Terminal Server and Domain Policies
- RAID storage system: comprising 450Gbyte internal storage disks



CEIA NetID: System Architecture NetID ELSA Server



(2-2)

- Redundant Power Supply
- Backup system: duplicate copies on internal and external disks
- Licensed for up to 5 concurrent users and 100 Security Devices







System Services



CEIA NetID Network Management System



System Services

NetID Device Link

The Data Logging service acquires the transit data and at the same time monitors all the metal detector parameters

NetID Console

NetID

The service contains all the system checking and signalling tools, regarding both the metal detector's operational status and the performance of the server

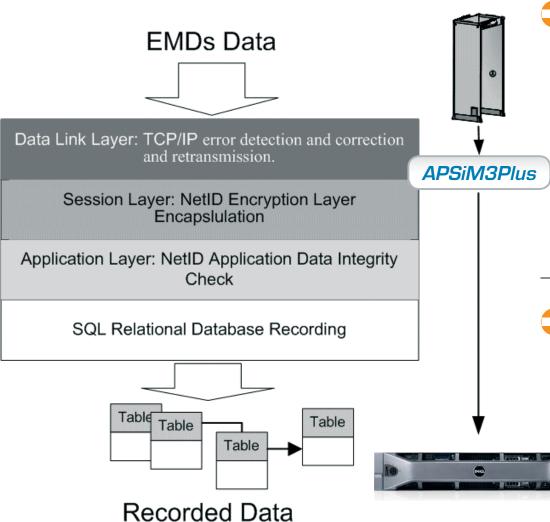
NetID Reports Scheduling

The service produces and sends the reports scheduled by the operator via e-mail or using a network folder.

NetID Report Scheduling can also publish scheduled reports to a web server

CEIA NetID: System Services NetID Device Link



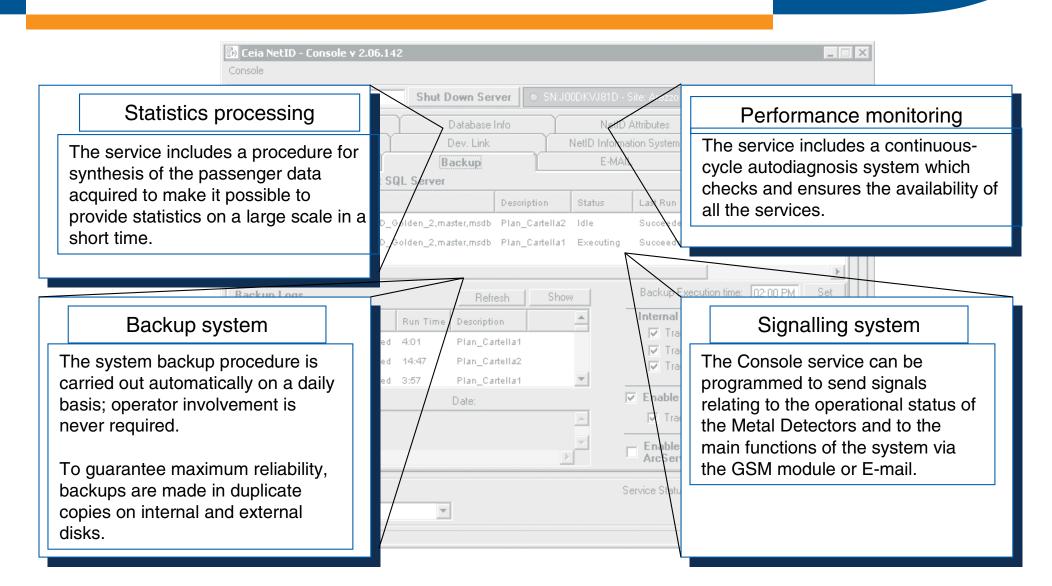


Communication between the Device Link service and the Metal Detectors via the *APSiM3Plus* devices undergoes a multi-layer encryption and data integrity verification process to guarantee data security and consistency.

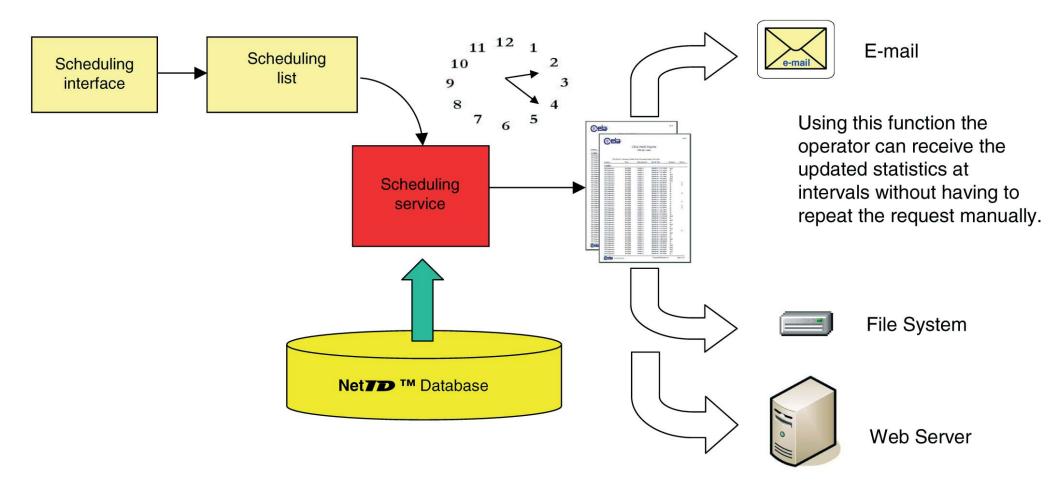
All system configuration data and acquired information are recorded in a relational database.

CEIA NetID: System Services NetID Console





CEIA NetID: System Services NetID Reports Scheduling [1-3]





CEIA NetID: System Services NetID Reports Scheduling (2-3)



- The service produces and exports the reports scheduled by the operator using the NetID Reports user application.

Using this function the operator can receive the updated statistics at intervals without having to repeat the request manually.

For each report the export format (e.g. html text, Excel, pdf), data selection criteria and frequency can be specified.

File System The service automatically recovers missing schedules. Net**7⊅** [™] Database Web Server

E-mail

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CEIA NetID: System Services **NetID Reports Scheduling** (3-3)



The program allows specification of:

- The scheduling starting date
- The period to be covered by the statistics, which can be fixed or vary automatically in relation to the scheduling

| 🔯 Report's scl | nedule | | | | | | | | | | | × |
|-----------------|-----------------|------------------------|----------------------|------------------|------------------|----------|------------|---------|---------------|------------------------|-----------|----|
| Add | Delete | Save | Cancel | | E <u>x</u> port | . 1 | mport | | | | Clo | se |
| Name | | | Enabled | Last Run | Last Result | Duration | Next Execu | ution | Operator | changed | Туре | |
| V Passengers | Flow and Alarr | ms by Location (Graph) |)-Sch.1 YES | Not available | Not available | | 17/04/201 | 2 15:43 | ADMINISTRATOR | | | |
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| Recurrency: Onc | e; Format: Acr | robat Format (PDF); Ex | port by E-mail. | | | | | | | | | |
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| Description P | arameters list: | Recurring Exportir | ng File Format De | livery Options | | | | | | | | |
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| Report | Name: Pas | sengers Flow and Aları | ms by Location (Gra | ph) | | | | | V | Insert execu prefix | tion date | as |
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