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Data Sheet

AC2000 Instant Data Export Tool 'aud_sock' Process Application

Key Features

- Efficient low-level integration to a 3rd party external system
- AC2000 database changes and transactions transmitted through TCP network in real-time
- Automated process – once autostart is configured it will remain active as a Server process
- Useful for automated real-time updates to external system database
- Uses industrial standard TCP/IP network
- Does not require custom AC2000 interface development or integration

The AC2000 Instant Data Export Tool process is a perfect solution for low-level integration where Security Management System database changes are automatically reported to 3rd party systems such as Human Resources or Enterprise Resource Planning. This means that the database of an interfaced 3rd party system can be continuously synchronised with AC2000 database without the need for developing a custom AC2000 system integration or interface.

Its purpose is real-time monitoring of the following actions:
- database table value changes (database audits) Insert, Update, Delete,
- card swipe transactions;

IDET tool

AC2000 Instant Data Export Tool is a highly configurable process running on the AC2000 Central Database Controller (CDC).

An AC2000 database table or group of tables can be marked for monitoring by the 'aud_sock' process for changes including Insert/Update/Delete. Once this is configured any card transaction or configured database audit will trigger a broadcast of the ASCII text string to the TCP/IP network port.

Functionality

The ASCII text string for corresponding event is streamed continuously in real-time to specific TCP port configured during 'aud_sock' setup. It consists of an event ID ('I' = Insert, 'B'/'A' = Update, 'D' = Delete, 'TRD' = Transaction Data) followed by database table name and contents i.e.

Insert

I|<table_name>|<field_1>|<field_2>|...|<field_x>|\n

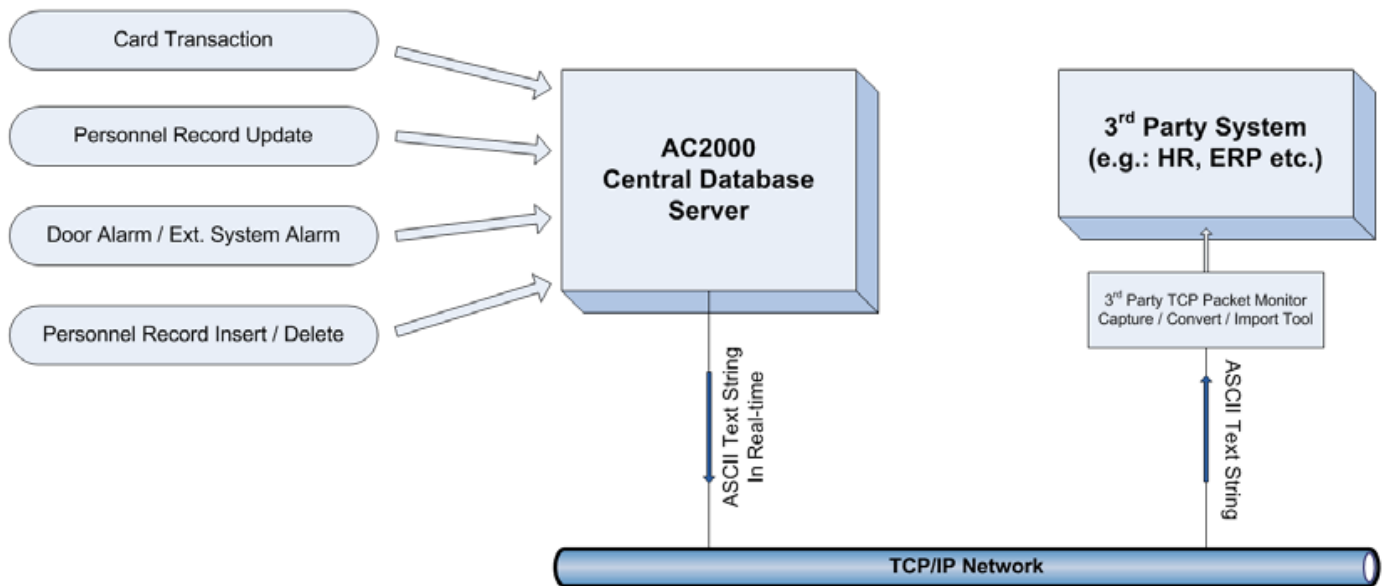### Delete

D|<table_name>|<field_1>|<field_2>|...|<field_x>|\n

Update

B|<table_name>|<field_1>|<field_2>|...|<field_x>|\n Before update

A|<table_name>|<field_1>|<field_2>|...|<field_x>|\n After update

Transactions will result in the following text string:
TRD|<hotstamp>|<per_ser>|<longsecs>|<localtime>|<dev_addr>|<outcome_num>|\na

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Application Examples and Benefits

The feature can be used in a wide variety of situations creating a simple yet powerful tool for real-time data exchange between AC2000 and integrated external systems. Example scenarios can include:

- Hospital Patient Notification system – when a patient swipes a card at the reception, the transaction outcome is immediately streamed to the integrated Hospital system and from there forwarded to relevant Doctor's office. This is good example of reducing patient queuing and waiting times as the patient's arrival triggers instant notification.
- Corporate HR Database – when the AC2000 system is integrated with a local HR database there is no need to duplicate personnel records. Any record entered into the AC2000 Access Control System database will be automatically streamed to the TCP/ IP network socket from where it can be imported to the HR system (using 3rd party tools). This automated process will make sure the HR database is always up-to-date.

AC2000 Instant Data Export Tool is a standard feature, included in the AC2000 system. It requires one-time configuration consisting of four documented main steps: inserting the 'aud_sock' record into the database, setting the database tables to be monitored, mapping the 'aud_ sock' process to the server output and finally to configure the autostart of the service with the server to required TCP port. Its functionality can be easily tested with any TCP/IP packet monitor

Important Notes

In order to effectively use the AC2000 Instant Data Export Tool feature with 3rd party system the following is required:

- 3rd party system must have an open TCP port through which it will be able to receive ASCII text string. It must also be able to retrieve and interpret required segments of the text string for use in its internal database.

The AC2000 Instant Data Export Tool process only transmits text string in fixed format to the specific TCP port and does not contain intelligent instructions for the target database therefore the use of required text segments must be ensured on the 3rd party system side.

Requirements

- AC2000 SE
- AC2000 AE

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