

GALAXY-TRANS

GALAXY ACCESS CONTROL INTEGRATION WITH ATTENDANCE SYSTEM

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Company Profile

IRIZ ID Technologies delivers Software Solutions in the area of security systems with a combination of technical expertise, operational experience and corporate focus. It is a part of Digital Factors FZCO Dubai-UAE, the application related to all the product portfolio of Digital Factors FZCO/Business Connection LLC Dubai-UAE, are developed in IRIZ ID Technologies.

Introduction

The vital goal of integrating Time and Attendance system with third party application is to simplify the process flow, data normalization and de-duplication, process automation, ease of access, avoid overhead in manual process, human intervention and errors, easy to use and maintain the system.

The flexible and simplified architecture of **TNASoft** proves its scalability to integrate with third party system by introducing the integration layers without disturbing the core business process.

Integration Methods

Hardware Integration

Time and attendance terminals or Access control readers are the important components in Attendance system thus indeed used to record the transaction of events occurred (Such as Punch-In/Punch-Out etc.).

Off-the-shelf TNASoft is integrated with internationally recognized brands such as HID, ZK Teco, KJ Technologies, Trust One, Ingersoll Rand (Schlage) and ATS etc.

Software Integration

There are three major types of software integration as listed below.

- Software Integration to import master information (Personal details) from third party software (Ex: HR system)
- Software Integration to export the processed attendance information to payroll or HR system.

Note: *Clint to share the complete details of integration including database detail.*

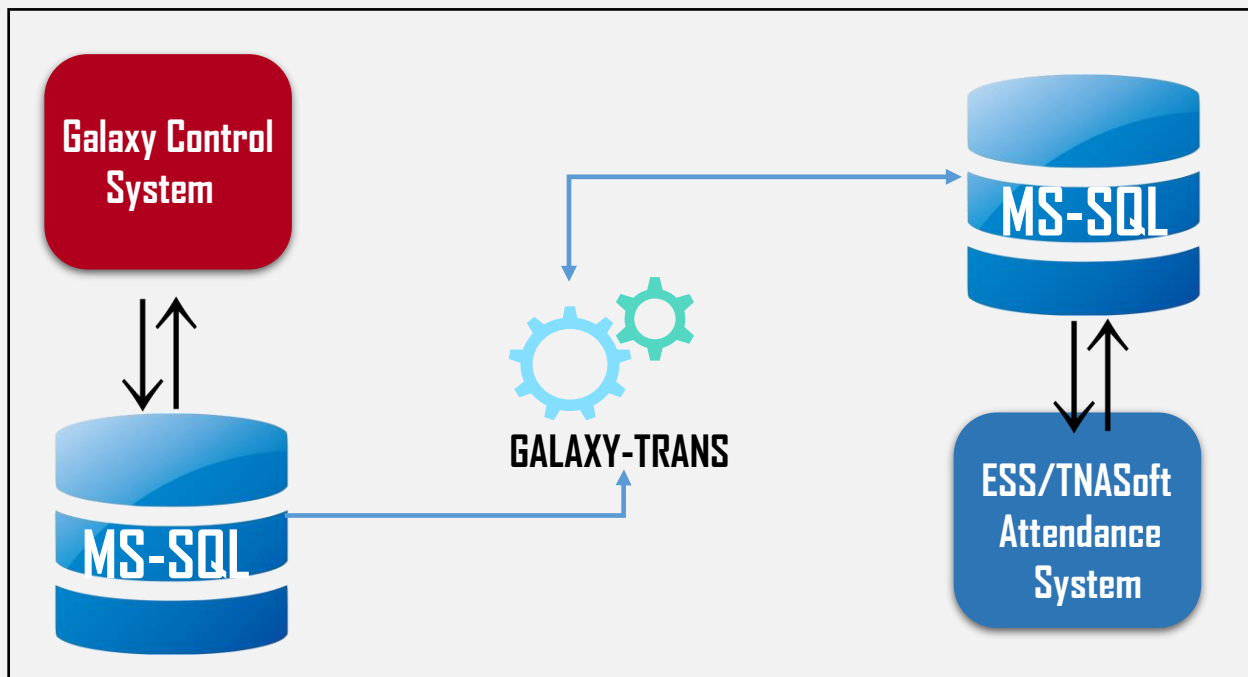
- Software Integration to Import the Attendance logs from third party Access control system to TNASoft to process the logs and generate the sophisticated reports to satisfy client requirement.

Note: *TNASoft is successfully integrated with well recognized ACS systems including all the three types of access control System from BOSCH (BIS, APE and AEC), G4S, ZK-Teco and etc.*

Integration with GALAXY

Galaxy is one of the leading Access control solution providers, integrating Galaxy ACS system with Attendance system helps to improve the business and fulfil the opportunities where the Attendance system requirement is must.

System Architecture



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It is a windows based service used to import the relevant information between Galaxy ACS system to Attendance management system.

Note: *It shall only read info from Galaxy it shall not write to it.*

- Import card holder details, and synchronize the data based on schedule/every interval of certain minutes (Interval is configurable).
- Import reader information pertaining to Attendance.
- Import Access Grand logs.

Data Relation

The employee details expected by Attendance system is available in card holder details in association with other table (Departments, Customer, and Data_List_Item) containing information relevant to employee viz.

- Department he belongs to
- Customer can be used to refer Company he/she works for
- Data_List_Item provides custom
- Fields (user definable fields)

Card Holders

Employee_ID	Modified_Flag
Last_Name	Photograph_Filename
First_Name	Data_Item1 to n
Middle_Name	Date_Added
Customer_ID	Date_Modified
Department_Number	Date_Deleted
DOB	

Departments

DEPARTMENT_NUMBER
CUSTOMER_ID
NAME
NOTES

Customer

CUSTOMER_ID
NAME

Data_List_Item

ID
TABLE_NAME
COLUMN_NAME
VALUE

Reader_Port

READER_ID
 READER_NAME
 TA_READER

Reader_Ports table contains the information pertaining ACS readers, Attendance system expects only three fields, Reader ID and name to refer in the report, and TA_Reader flag to determine whether the logs from this reader belongs to Attendance.

EVENT_CODE

TYPE_CODE
 MSG
 COLOR

EVENT_CODE

TYPE_CODE	MSG
50	VALID ACCESS NO LOOKUP
65	VALID ACCESS
72	VALID ACCESS w/PIN
74	ACCESS GRANTED - DOOR DID NOT OPEN

Event_Code table helps to determine the valid access grant logs, and only filtered logs can be imported to TNA system.

READER_HISTORY

DATE_TIME
 READER_ID
 TYPE_CODE
 EMPLOYEE_ID
 CARD_ID

Reader_History contains all the access/transaction logs, with various information, Attendance system accepts only 4 fields, in addition, it required SLNO (Auto ID) to be added to this table to recognize the record uniquely, and to identify whether the log is already imported or not.

Attendance system maintains staging table for attendance log and SLN value shall be used as a reference value to indicate the logs imported/not imported.

TNA Reporting List	
Work Details	Punch Details (Business)
Work Details Break	Monthly Summary
Manual Punches	Leave Request Details
Roster	Leave Details
Absent List	Early Leavers
Punch Discrepancy	Early Leavers Break
Punch Discrepancy (Break)	Late Comers
Over Time Details	Late Comers Break
Punch Filo	Roll Call
Punch Filo(Break)	Head Count
Punch Details	Delegate TNA History
Punch Details (Location)	Shift Details
Punch Details (Break)	TNA Logs
Manual Punches(Break)	Monthly Hour

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