HR Integration with **BioTime 7.0**

BioTime 7.0 can be integrated with HR Software for the data of employee, department, area and job synchronization using middle tables.

The method is explained below:

1. Employee Sync

   **(A) Database Table**

   BioTime will scan this middle table and if any data record found with flag 0, then it will be fetched and added/updated to BioTime. If the data doesn’t exist in BioTime then it will add the employee, otherwise it will update the existing employee. After the update, it will change the flag from 0 to 1 and update the operation time in the update_time field and update the result to sync_ret field.

   **(B) Workflow**

   BioTime will scan this middle table and if any data record found with flag 0, then it will be fetched and added/updated to BioTime. If the data doesn’t exist in BioTime then it will add the employee, otherwise it will update the existing employee. After the update, it will change the flag from 0 to 1 and update the operation time in the update_time field and update the result to sync_ret field.
(C) Fields

- pin: User ID (unique)
- first_name: First Name
- last_name: Last Name
- dept_code: Department Code
- dept_name: Department Name
- job_code: Job/Position Code
- job_name: Job/Position Name
- area_code: Area Code
- area_name: Area Name
- card_no: Card Number
- multi_area(0/1): whether need append area or re-set
- employment_date: Employment Date
- gender: Gender
- birthday: Birthday
- email: Email
- active_status(0/1): if the value is 0, then will do the resignation
- post_time: The time when the data is inserted
- flag: Sync Flag default value should be 0
- update_time: Sync time
- sync_ret: Sync Result

(D) Demo (MSSQL)

```sql
Insert into sync_employee('1', 'ZKTeco', 'ZK', 'ZKD', 'ZKD', 'ZKJ', 'ZKJN', 'ZKA', 'ZKAN', '1234567', 0, '', 'M', '', 1, GETDATE(), 0, NULL, NULL)
```

2. Department Sync

(A) Database Table

![Database Table](image)

(B) Workflow

BioTime will scan this middle table and if it found any records with flag as 0 then it will be added/updated to BioTime. If the data doesn’t exist in BioTime then it will add it, otherwise it will update the existing department. After the update it will change the flag from 0 to 1 and update the operation time in the update_time field and update the result to sync_ret field.
3. Area Sync

(A) Database Table

(B) Workflow

BioTime will scan this middle table and if it found the record with flag 0 then it will be added/updated to BioTime. If the data doesn't exist in BioTime, then it will add it, otherwise it will update the existing area. After the update it will change the flag from 0 to 1 and update the operation time to update_time field and update the result to sync_ret field.

(C) Fields

- pin: User ID(unique)
- area_code: Area Code
- area_name: Area Name
- post_time: The time when data insert
- flag: Sync Flag default should be 0
- update_time: Sync time
- sync_ret: Sync Result

(D) Demo (MSSQL):  
Insert into sync_area('1', 'ZKTeco', 'ZK', GETDATE(), 0, NULL, NULL)
4. Job Sync

(A) Database Table

(B) Workflow

BioTime will scan this middle table and if it found the record with flag 0, then it will be added/updated to BioTime. If the data doesn't exist in BioTime then it will add, otherwise it will be updated. After the update, it will change the flag from 0 to 1 and update the operation time to update time field and update the result to sync_ret field.

(C) Fields

- pin: User ID (unique)
- job_code: Job/Position Code
- job_name: Job/Position Name
- post_time: The time when data insert
- flag: Sync Flag default should be 0
- update_time: Sync time
- sync_ret: Sync Result

(D) Demo (MSSQL)

Insert into sync_job('1', 'ZKTeco', 'ZK', GETDATE(), 0, NULL, NULL)