



# Access360 AI Web Service REST API

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# 1. AddModEmployee

**Purpose:** Add or modify an employee in the Access360 AI database.

**Format:** JSON

**Method:** POST

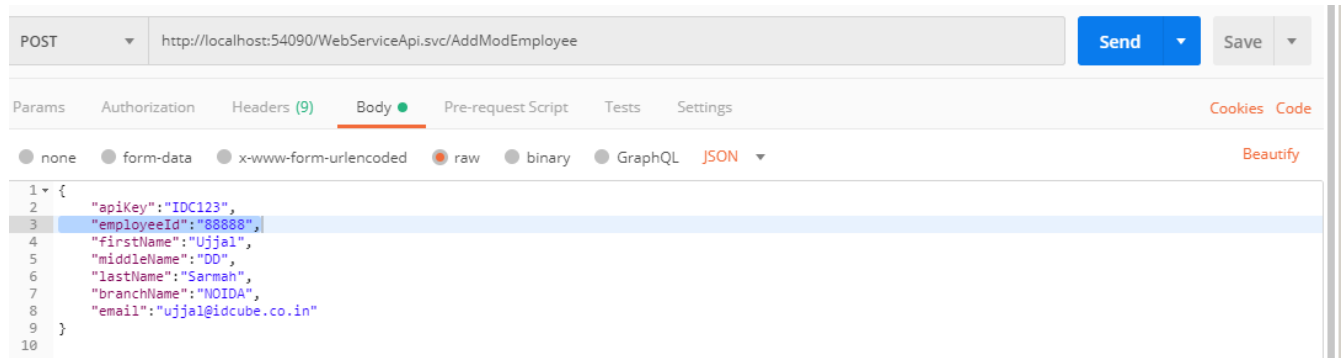
**Input Parameters:**

Parameter	Description	Values	Data Type
apiKey	Unique Key for Company to be Issued by IDCUBE	Compulsory, Max 50 character	String
employeeId	Unique employee Id for the company, If already exist, based on this other fields will be updated	Compulsory, Max 50 character	String
firstName	First name of employee	Compulsory, Max 50 character	String
middleName	Middle name of employee	Optional, Max 50 character	string
lastName	Last name of employee	Optional, Max 50 character	String
branchName	Name of the branch in which employee belongs. Must pre-exists Access360 AI.	Compulsory, Max 50 character	String
departmentName	Department name in which employee belongs. Must pre-exists Access360 AI.	Optional, Max 50 character	String
designationName	Designation of employee. Must pre-exists in Access360 AI	Optional, Max 50 character	String
email	Unique email ID across database	Compulsory, Max 50 character	String
mobile	Mobile number of employee	Optional, Max 50 character	string

**Return Parameters:** blank or null = Success, otherwise= Failure.

For Error details, check the Error code list.

**Sample URL:** <http://localhost:54090/WebServiceApi.svc/AddModEmployee>



## 2. GetCompanyCustomField

**Purpose:** Get the list of custom fields, defined in Access360 AI for the company.

**Format:** JSON

**Method:** POST

**Input Parameters:**

Parameter	Description	Values	Data Type
apiKey	Unique Key for Company to be Issued by IDCUBE	Compulsory, Max 50 character	String

**Return Parameters:**

Parameter	Description	Values	Data Type
Id	Unique Id of Custom Field		Int
FieldName	Name of the Custom Field		String
FieldType	Type of field Text, Numeric, Date, Check box, Dropdown and Date fields are supported		String
FieldValue	Value of the field		String
ListItem	Possible values defined for drop down field type defined in Access360 AI		String

For Error details, check the Error code list.

**Sample URL:** <http://localhost:54090/WebServiceApi.svc/GetCompanyCustomField>

The screenshot shows a REST client interface. At the top, the method is set to POST and the URL is `http://localhost:54090/WebServiceApi.svc/GetCompanyCustomField`. The request body is a JSON object: `{ "apiKey": "IDC123" }`. The response status is 200 OK and the time taken is 1592ms. The response body is displayed in JSON format, showing an array of two objects:

```
1 [
2   {
3     "FieldName": "PAN",
4     "FieldType": "Text",
5     "FieldValue": null,
6     "Id": 39,
7     "ListItem": null
8   },
9   {
10    "FieldName": "Weekdays",
11    "FieldType": "Dropdown",
12    "FieldValue": null,
13    "Id": 40,
14    "ListItem": "Sun,Mon,Tue,Wed,Thu,Fri,Sat"
15  }
16 ]
```

### 3. AddEmployeeCustomField

**Purpose:** Add custom field values of an employee in Access360 AI.

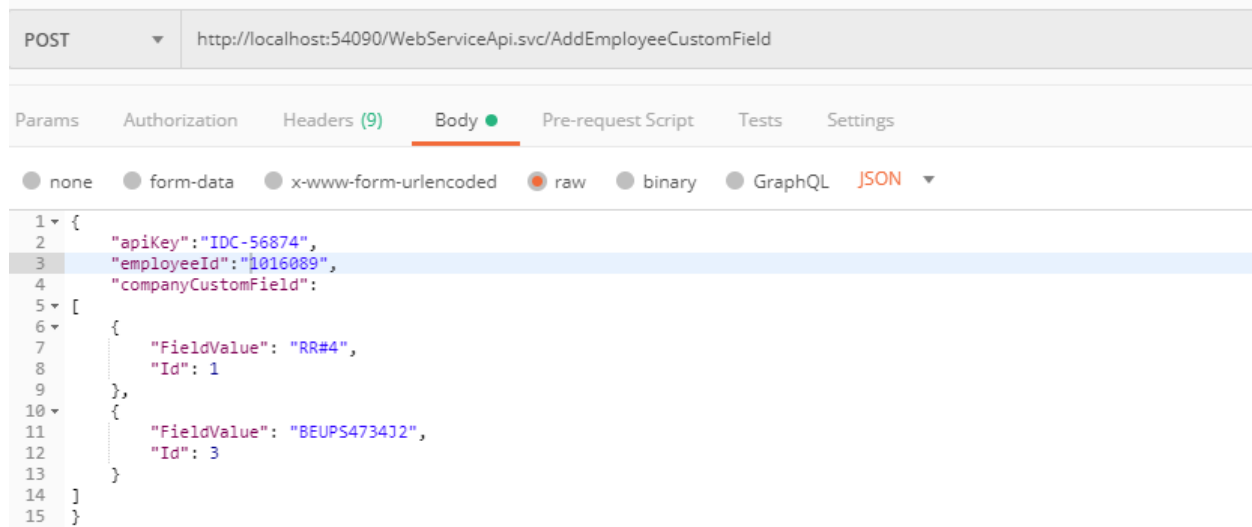
**Format:** JSON

**Method:** POST

**Input Parameters:**

Parameter	Description	Values	Data Type
apiKey	Unique Key for Company to be Issued by IDCUBE	Compulsory, Max 50 character	String
employeeId	Id of the employee. Must already exists in database	Compulsory, Max length 50	String
companyCustomField	Provide the list of field name, type and value	List(see JSON sample)	string

**Sample URL:** <http://localhost:54090/WebServiceApi.svc/AddEmployeeCustomField>



#### 4. AddUpdateAccessGroup

**Purpose:** - Assign/update/remove Access of an employee in a branch.

**Format:** JSON

**Method:** POST

**Input Parameters:**

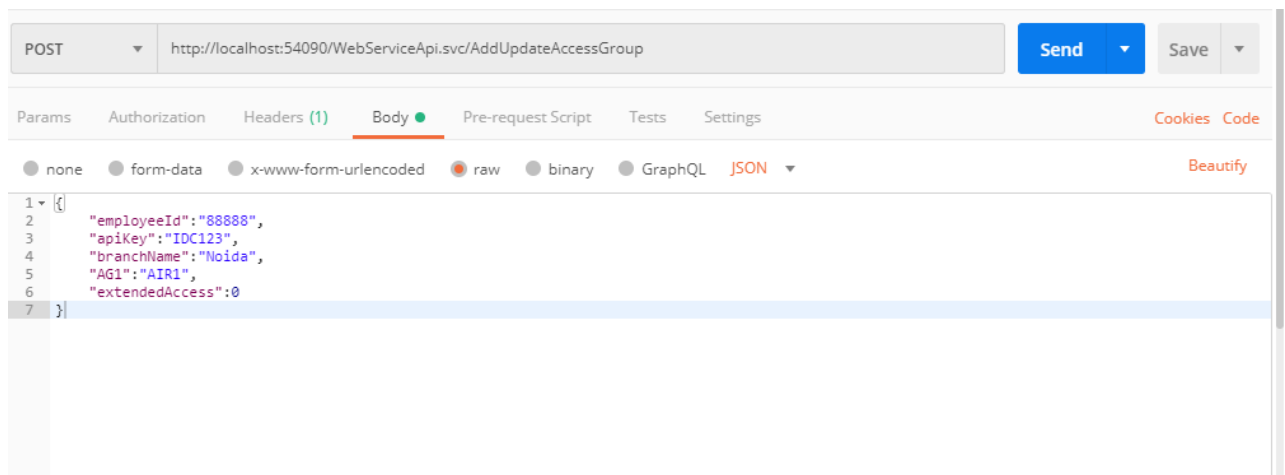
Parameter	Description	Values	Data Type
apiKey	Unique Key for Company to be Issued by IDCUBE	Compulsory, Max 50 character	String
employeeId	Unique employee ID. Must exists in database	Compulsory, Max length 50	String
branchName	Must exists in database	Compulsory, Max length 50	string
AG1	Access Group Name. If Provided, must already exists for the branch	Optional, Max length 50	String
AG2	Access Group Name. If Provided, must already exists for the branch	Optional, Max length 50	String
AG3	Access Group Name. If	Optional, Max length	String

	Provided, must already exist for the branch	50	
AG4	Access Group Name. If Provided, must already exist for the branch	Optional, Max length 50	String
AG5	Access Group Name. If Provided, must already exist for the branch	Optional, Max length 50	String
AG6	Access Group Name. If Provided, must already exist for the branch	Optional, Max length 50	String
AG7	Access Group Name. If Provided, must already exist for the branch	Optional, Max length 50	String
AG8	Access Group Name. If Provided, must already exist for the branch	Optional, Max length 50	String
extendedAccess	Access time for card during a Grant Access	True = Extended, access time, False = Normal access time	Boolean

**Return Parameters:** 0 = Success, <0 = Failure.

For Error details, check the Error code list.

**Sample URL:** <http://localhost:54090/WebServiceApi.svc/AddUpdateAccessGroup>



## 5. SetUserAccess

**Purpose:** - Set Employee Termination Date and Card Expiry Date.

**Format:** JSON

**Method:** POST

### Input Parameters:

Parameter	Description	Values	Data Type
apiKey	Unique Key for Company to be Issued by IDCUBE	Compulsory, Max 50 character	String
employeeId	Unique employee ID which must exist in database	Compulsory, Max length 50	String
empAction	Compulsory	0- No Action 1- Set termination Date	Int
empParam	Valid for Empaction 0 and 1. If 0 it passed then this field will be ignored, when 1 then this param is mandatory and should be a valid date which will be set as Employee Termination Date. From this date employee will not be able to login to Access360 AI.	Date time should be in following format "yyyy-MM-dd HH:mm:ss"	String
credAction	Compulsory	0- No Action 1- Set card expiry Date	Int
credParam	Valid for credAction 0 and 1. If 0 is passed then this field will be ignored, when 1 is passed then this param is mandatory and should be a valid date time which will be set as Card Expiry Date. From this date all cards issued to the employee shall expire and access shall be denied.	Date time should be in following format "yyyy-MM-dd HH:mm:ss"	String

**Return Parameters:** 0 = Success, <0 = Failure.

For Error details, check the Error code list.

**Sample URL:** <http://localhost:54090/WebServiceApi.svc/SetUserAccess>



POST http://localhost:54090/WebServiceApi.svc/SetUserAccess

Params Authorization Headers (1) **Body** Pre-request Script Tests Settings

● none ● form-data ● x-www-form-urlencoded ● **raw** ● binary ● GraphQL **JSON**

```

1 {
2     "apiKey": "IDC123",
3     "employeeId": "88888",
4     "empAction": 1,
5     "empParam": "2020-03-26 23:59",
6     "credAction": 1,
7     "credParam": "2020-04-26 23:59"
8 }

```

## 6. SetAppPrivilege

**Purpose:** - Assign/Update/Remove employee's mobile app and mobile ID privilege of an employee.

**Format:** JSON

**Method:** POST

**Input Parameters:**

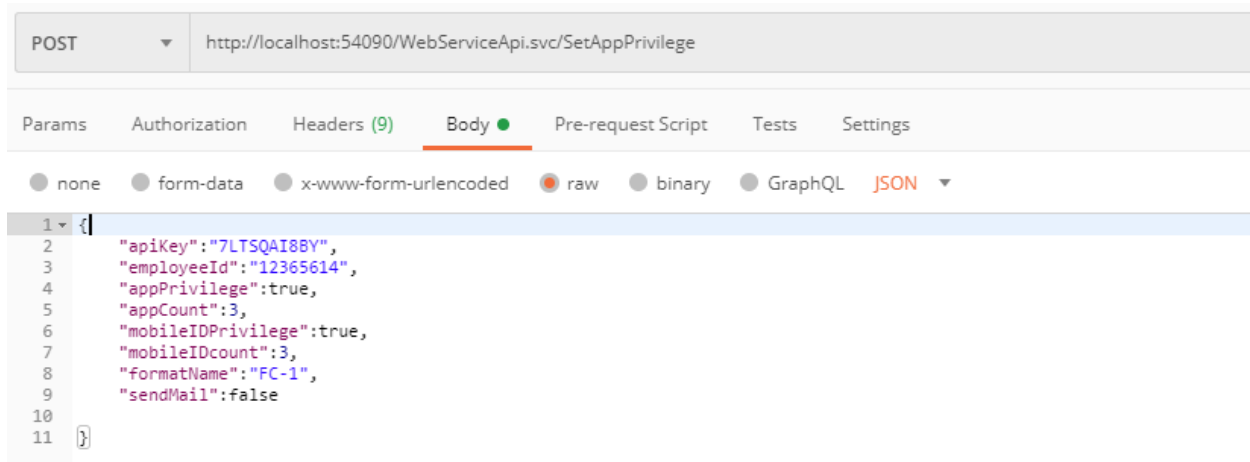
Parameter	Description	Values	Data Type
apiKey	Unique Key for Company to be Issued by IDCUBE	Compulsory, Max 50 character	String
employeeId	Unique employee ID which must exists in database	Compulsory, Max length 50	String
appPrivilege	Determine whether user can login into mobile app or not. If set to false, user can't use any feature of mobile app.	True – Assign mobile app privilege, False – Remove mobile app privilege (all device)	Boolean
appCount	Compulsory. Max number of mobile devices an employee can use.	1~5	int
mobileIDPrivilege	Determine whether employee can download mobile ID or not.	True – employee can download mobile ID, False – employee can't download mobile ID	Boolean
mobileIDcount	Max number of mobile ID employee can download. (One mobile ID per device.)	1~5	int
formatName	Card format name mapped with mobile ID part number.	Compulsory if mobileIDPrivilege =true. Max 50 character	string

sendMail	Will send if mail server is configured	True/false	Boolean
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**Return Parameters:** 0 = Success, <0 = Failure. For Error details, check the Error code list.

Note:

- Resetting appPrivilege=false, doesn't revoke the existing mobile ID. This will only disable user from login into the app. Existing mobile ID will remain active.
- Resetting mobileAppPrivilege=false, will not revoke existing mobile IDs. This will only disable employee from downloading further mobile ID. Existing mobile ID will remain active.



## 7. RemoveAppPrivilege

**Purpose:** - Remove mobile app & mobile ID privilege of the employee

**Format:** JSON

**Method:** POST

**Input Parameters:**

Parameter	Description	Values	Data Type
apiKey	Unique Key for Company to be Issued by IDCUBE	Compulsory, Max 50 character	String
employeeId	Unique employee ID which must exist in database	Compulsory, Max length 50	String

**Return Parameters:** 0 = Success, <0 = Failure. For Error details, check the Error code list.

Note: Remove mobile app privilege as well as mobile ID privilege. But existing mobile ID will not be revoked.

## 8. RevokeMobileID

**Purpose:** - Revoke mobile ID assigned to the employee.

**Format:** JSON

**Method:** POST

**Input Parameters:**

Parameter	Description	Values	Data Type
apiKey	Unique Key for Company to be Issued by IDCUBE	Compulsory, Max 50 character	String
employeeid	Unique employee ID which must exist in database	Compulsory, Max length 50	String

**Return Parameters:** 0 = Success, <0 = Failure. For Error details, check the Error code list.

Note: Revoke all existing mobile ID assigned to the employee. But mobile app privilege and mobile ID privilege remains unchanged. Employee can re-download mobile ID.

## 9. DeleteMobileUser

**Purpose:** - Remove mobile app or mobile ID privilege. Also revoke mobile ID

**Format:** JSON

**Method:** POST

**Input Parameters:**

Parameter	Description	Values	Data Type
apiKey	Unique Key for Company to be Issued by IDCUBE	Compulsory, Max 50 character	String
employeeid	Unique employee ID which must exist in database	Compulsory, Max length 50	String

**Return Parameters:** 0 = Success, <0 = Failure. For Error details, check the Error code list.

Note: All mobile app/ID privilege will be removed as well as all mobile ID will be revoked. In this case all mobile device instances also be deleted from Access360 AI.

## 10. AssignCard

**Purpose:** - Assign card to an employee.

**Format:** JSON

**Method:** POST

### Input Parameters:

Parameter	Description	Values	Data Type
apiKey	Unique Key for Company to be Issued by IDCUBE	Compulsory, Max 50 character	String
employeeId	Unique employee ID which must exist in database	Compulsory, Max length 50	String
branchName	Unique branch name in which card will be issued.	Compulsory, Max length 50	String
cardNumber	Unique card number. Card number must be unique format wise.	Compulsory, Max length 50	String
formatName	Format name of the card. Prior of adding card, format must be added.	Empty – No format, Else unique format name	String
isDefault	Determine whether the card is default card or temporary card.	True – Default Card, False – Temporary Card	Boolean
startDate	Card valid from date.	Date time should be in following format "yyyy-MM-dd HH:mm:ss"	String
expiryDate	Card expiry date	Date time should be in following format "yyyy-MM-dd HH:mm:ss"	String

**Return Parameters:** 0 = Success, <0 = Failure. For Error details, check the Error code list.

## 11. DeleteCard

**Purpose:** - Delete a card from Access360 AI.

**Format:** JSON

**Method:** POST

**Input Parameters:**

Parameter	Description	Values	Data Type
apiKey	Unique Key for Company to be Issued by IDCUBE	Compulsory, Max 50 character	String
cardNumber	Unique card number. Card number must be unique format wise.	Compulsory, Max length 50	String
formatName	Format name of the card. Prior of adding card, format must be added.	Empty – No format, Else unique format name	String

**Return Parameters:** 0 = Success, <0 = Failure. For Error details, check the Error code list.

Note: Card will not be physically deleted from database. Active card will be unassigned from employee and become available for assignment again.

## 12. DeleteCardAll

**Purpose:** - Delete all cards assigned to an employee.

**Format:** JSON

**Method:** POST

**Input Parameters:**

Parameter	Description	Values	Data Type
apiKey	Unique Key for Company to be Issued by IDCUBE	Compulsory, Max 50 character	String
employeeid	Unique employee ID which must exist in database	Compulsory, Max length 50	String

**Return Parameters:** 0 = Success, <0 = Failure. For Error details, check the Error code list.

Note: Card will not be physically deleted from database. Active card will be unassigned from employee and become available for assignment again.

### 13. SetDoorStatus

**Purpose:** - Sends command to the respective controller of the specified door to be in a state as Open, Lock, Unlock, Normal Lock, close door held alarm, forced alarm,

**Format:** JSON

**Method:** POST

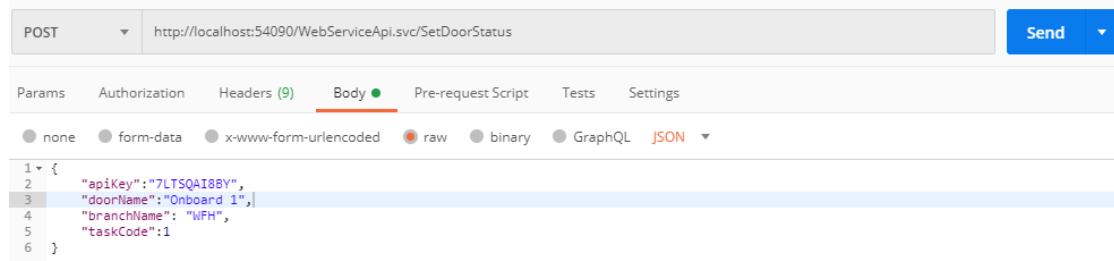
**Input Parameters:**

Parameter	Description	Values	Data Type
apiKey	Unique Key for Company to be Issued by IDCUBE	Compulsory, Max 50 character	String
doorName	Door name as defined in Security View	Compulsory, Max length 50	String
branchName	Unique branch name as defined in HRView	Compulsory, Max length 50	String
taskCode	Command Code from 1 to 6. Refer the table 1 for detail explanation		int

**Return Parameters:** 0 = Success, <0 = Failure. For Error details, check the Error code list.

**Table 1:** Task Code ID for various command.

Task Name	Initiate Grant Access (Door open)	Lock	Unlock	Normal Lock	close Door Held Alarm	Close Door Forced Alarm
Task Code ID	1	2	3	4	5	6
<b>Command Support in Controller</b>						
AIR	N	Y	Y	Y	N	N
HID	Y	Y	Y	Y	Y	Y
AERO	Y	Y	Y	Y	N	N
Mercury	Y	Y	Y	Y	N	N
Suprema	N	Y	Y	Y	Y	Y



## 14. UnlockAllDoors

**Purpose:** - Sends command to controllers to unlock all doors of the specified branch.

**Format:** JSON

**Method:** POST

**Input Parameters:**

Parameter	Description	Values	Data Type
apiKey	Unique Key for Company to be Issued by IDCUBE	Compulsory, Max 50 character	String
branchName	Unique branch name as defined in HRView	Compulsory, Max length 50	String

**Return Parameters:** 0 = Success, <0 = Failure. For Error details, check the Error code list.

The screenshot shows a REST client interface with the following details:

- Method: POST
- URL: http://localhost:54090/WebServiceApi.svc/UnlockAllDoors
- Body tab selected, showing a JSON payload:

```
1 {  
2   "apiKey": "7LTSQAI8BY",  
3   "branchName": "WFH"  
4 }
```
- Format: JSON

## 15. LockAllDoors

**Purpose:** - Sends command to controllers to lock all doors of the specified branch.

**Format:** JSON

**Method:** POST

**Input Parameters:**

Parameter	Description	Values	Data Type
apiKey	Unique Key for Company to be Issued by IDCUBE	Compulsory, Max 50 character	String
branchName	Unique branch name as defined in HRView	Compulsory, Max length 50	String

**Return Parameters:** 0 = Success, <0 = Failure. For Error details, check the Error code list.

The screenshot shows a REST client interface with the following details:

- Method: POST
- URL: http://localhost:54090/WebServiceApi.svc/LockAllDoors
- Body tab selected, showing a JSON payload:

```
1 {  
2   "apiKey": "7LTSQAI8BY",  
3   "branchName": "WFH"  
4 }
```
- Format: JSON

## List of Error Number

Error Code	Meaning
-1	API Key name is not correct.
-2	Branch name is not correct
-3	Length of employee id is not correct.
-4	Length of employee name is not correct.
-5	Card issue date is null or date format is not mm/dd/yyyy format or card issue date after 12/31/2037
-6	Card expire date is null or date format is not mm/dd/yyyy format or card expiry date after 12/31/2037,card expiry date is less than card issue date
-7	Invalid Card Type
-8	Length of card id is not correct or format card id is not integer or no format card is not hexadecimal. Or card is already issued.
-9	Format name is not correct.
-10	Card number is not supported
-11	Pin Exempt value is other than 0 and 1.
-12	Extended access value than 0 and 1.
-13	Pass back Exempt other than 0 and 1.
-14	Pin value is other than zero.
-15	Access group name /branch name is not correct or format is not correct
-16	Database connection error while inserting employee information
-17	Database connection error while inserting employee privilege
-18	Database connection error while inserting card information.
-19	Error occurred while connecting to the database.
-20	Employee Id does not exist.
-21	Cannot delete Employee who has administrator privilege.
-22	This task was already completed successfully (retry function).
-23	This task was already executed successfully (retry function).



-24	Task Id does not exist.
-25	Email id not correct format.
-26	Report To id does not exist.
-27	Department id does not exist.
-28	Designation id does not exist.
-29	Invalid Card Number
-30	Database not configured
-31	Invalid Access Group
-32	Card not exists in inventory
-33	Temporary card assignment is not allowed
-34	Max card limit already exhausted for the employee
-35	Default card cannot be issued to other branch employee
-36	Employee cannot have multiple default card
-37	Expiry date exceeds the max allowed period
-38	Modification on other branch card is not allowed
-39	Card mark as lost
-40	Card already assigned to another employee
-41	Card already assigned
-42	Card type cannot be changed for an already assigned card
-43	General Failure.
-44	Unable to delete. Card belongs to another branch
-45	Email already Exist
-63	Custom field ID not exists
-64	Invalid custom field value. Max data length exceeded.
-65	Invalid custom field value. Value must be an integer.
-66	Invalid custom field value. Value must be a valid date.
-67	Invalid custom field value. Value must be Boolean.
-68	License limit exceeded.
-69	Email ID is mandatory
-70	API Key is mandatory
-71	The employee activation date should be a future date
-72	Invalid Employee validity Date
-73	Invalid Card Expiry Date
-74	The selected custom field is mandatory
-75	Value in selected custom filed is unique and already exists.
-76	Invalid parameter. Value is out of range.

-77	Invalid license.
-78	Card not issued
-80	Failure sending mail
-81	Door name is not correct
-82	No record found
-83	Feature not supported in associated controller
-84	Invalid Task Code – for valid Task Code in Table 1