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# Project Description

Use existing DCW system and add Workload and Timecard module to replace SAP. Simplify the time card system and provide ability to enter workload for D&D and plan, with one system for both actual and plan. Creation of custom reports.

Easier to use for each engineer resulting in more accurate information. Reduce time in creating reports for both finance and resource management. This creates consistency with reporting. Will allow managers to get real time reporting.

SAP licenses per individuals are required, reduction of this fee and possible reduction of annual maintenance fee.

# Servers

# Database

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Environment** | **Host** | **Port** |  |  | **DB Name** | **Schema** | **User ID** | **Password** |
| Dev | USNENCVL463 | 58532 |  |  | ODDBEPLT | ENG\_EPLT | ADEPLT01\_APP | Summer$2017 |
| Stage | USNENCVL464 | 58532 |  |  | OSDBEPLT | ENG\_EPLT | ASEPLT01\_APP | Summer$2017 |
| Prod | USNENCVL465 | 55298 |  |  | OPDBEPLT | ENG\_EPLT | APEPLT01\_APP | Summer$2017 |

# App Server

|  |  |  |
| --- | --- | --- |
| **Environment** | **Host** | **Batch Job File path** |
| Dev | USNENCVL934 | /home/epltuser/epltjobs |
| Stage | USNENCVL936 | /home/epltuser/epltjobs |
| Prod | USNENCVL938 | /home/epltuser/epltjobs |

job log file path : /home/epltuser/log

# Web Server

|  |  |  |
| --- | --- | --- |
| **Environment** | **Host** | **URL** |
| Dev | usnencvl933 | <https://eplt.dev.na.nissan.biz/eng/timecard> |
| Stage | usnencvl935 | <https://eplt.stg.na.nissan.biz/eng/timecard> |
| Prod | usnencvl937 | <https://eplt.na.nissan.biz/eng/timecard> |

# SVN

**PROD:** <http://svn.na.nissan.biz/svn/NNA/NNA_ENG_EPL>

**DEV:** <http://svn.na.nissan.biz/svn/NNA/NNA_ENG_EPLT/branches/Dev>

**Credentials: x430678/ Saila@1312**

**DEV URL:** <https://eplt.dev.na.nissan.biz/eng/timecard>

**Local URL:** <http://localhost:8080/eng/timecard>

**Log in : Sailaja**

**STAGE URL:** <https://eplt.stg.na.nissan.biz/eng/timecard>

**JBOSS DEPLOYMENT:**

EPLTS -DEV -Jboss War Deployment

|  |  |
| --- | --- |
| Hostname | USNENCVL934.nmcorp.nissan.biz |
| User ID/Password | epltuser/ EpltDev@06 |
| Path | /home/epltuser/WAR/ |

EPLTS -Stage -Jboss War Deployment

|  |  |
| --- | --- |
| Hostname | USNENCVL936.nmcorp.nissan.biz |
| User ID/Password | epltuser / EpltStg@06 |
| Path | /home/epltuser/WAR/ |

EPLTS -Prod -Jboss War Deployment

|  |  |
| --- | --- |
| Hostname | USNENCVL938.nmcorp.nissan.biz |
| User ID/Password | epltuser / EpltPrd@06 |
| Path | /home/epltuser/WAR/ |

# Data Flow Diagram



# Architecture Diagram (High Level)

Database

(Oracle)

AngularJS

Server

Rest Easy

Client

View

Controllers

Services

Service

Persistence (JPA)

JCS

# Screen Flow Diagram

# Login

System validate the NMCORP credential using LDAP mechanism. Upon successful login, system navigate to the Timesheet screen otherwise goes to error page. In order to login timesheet screen, employee should be active and all the below fields should not be blank in DCW Employee table.

* Employee Class
* EVP Level
* Holiday Calendar
* OT Eligible Status
* Exemption Status
* Work Schedule
* Home Section Code

Roles:

* Admin – user has TCAD role assigned in DCW
* Approver – user has either TCAP or SMGR or DMGR role assigned in DCW
* Regular – other than above

# Admin

* Admin screens used to maintain the timesheet master data (project, function, work schedule and holidays)
* Also admin can unlock the past week’s timesheet and auto fill the timesheet.
* This is enabled for admin only

# Project Maintenance

* This screen is used to create, update and delete the projects which will be used in timesheet and workload plan.
* Deletion not allowed if the timesheet submitted against the selected project code or used in the workload plan.

# Function Maintenance

* This screen is used to create, update and delete the function which will be used in timesheet and workload plan
* Deletion not allowed if the timesheet submitted against the selected function code or used in the workload plan

# Function Assignment

* This screen is used to assign the function to the specific project which will be used in timesheet screen.
* When user select a project in timesheet screen, system shows particular functions which assigned to the selected project.

# Work Schedule Maintenance

* This screen is used to add, update and delete the work schedule which will be used in timesheet
* User submit the timesheet based on the daily work schedule.
* Deletion not allowed if the timesheet submitted against the selected work schedule.

# Holiday Calendar

* This screen is used to add, update and delete the holiday which will be used in the timesheet screen
* System will not allow to delete the old dated holiday(s)

# Work Load Plan - Setup

* This screen is used to setup the project for the work load (estimation) upload
* Only active project can be used to upload in upload screen

# Work Load Plan - Setup

* This screen is used to export the estimation plan to the selected project
* We have a template file to upload. Other than template file format, system will throw the error message
* Also has ability to download the estimation plan.
* This data will be used for reporting purpose only.

# Unlock Time Card

* This screen is used to unlock the timesheet which is locked by system
* Admin can unlock the timesheet for one or more approvers
* System will not allow to unlock for current and future week’s timesheets.
* When the unlock time is exceeded, timesheet screen will be locked automatically.

# Auto-Fill Timesheet

* This screen is used to fill the Non Compliance hours in the timesheet table where actual hours less than expected target hours. *For e.g. if user’s target hour is 8 per day but submitted just 5 hours. When auto fill is kicked by admin, system will insert remaining 3 hours as “Non Compliance” function code and “Non Project” project code.*
* This process will run in background (using thread) when admin initiate the task.
* This process will be initiated by admin on every Monday after 1pm EST/EDT
* System will not allow to run the auto-fill for current and future week’s timesheets

# Reports

Report screen used to generate a simple report like employee history, Non-Compliance, Attendance reports.

# Non-Compliance

* This screen is used to view the list of employees who not submitted timesheet or the total hours entered is below the scheduled target hours.
* You can view the report weekly basis by cost center and specific period.
* Only admin can view the report.
* Admin has ability to notify (escalate) the employee’s manager to enter the time for missed timecards.
* Only the past week’s non-compliance timesheets can be notified.

# Employee History

* This screen is used to see the list of employee’s change history which is populating from DCW Change History table directly [When any change happen to the time card related attributes in DCW Employee table, the old and new data would be stored in the change history table].

# My Attendance

* This screen is used to view the attendance report
* Only Non Project hours will be displayed
* Any user can run this report and export their data into excel

# Additional Reports

This is just the URL to navigate the Business Objects (BO) reports.

# Timesheet

* Timesheet shows weekly basis (always 7 days) from Monday to Sunday
* Employee can the timesheet for the current and future weeks.
* Employee cannot enter timesheet before the hire date and after the assignment end date.
* Past week’s timesheet cannot be entered/modified by employee other than admin and approvers.
* Admin can enter/modify the timesheet for any employee for any weeks.
* Approver can modify only their employees who belongs to his/her section and for past week’s only.
* Timesheet will be locked every Sunday midnight 12am and cannot be entered/modified anyone except admin.
* Every Friday 7am EST/EDT, email will be sent to all the employees who submitted the time below the scheduled target hours.
* Screen will be locked if auto fill job is in progress. No one including admin can edit the timesheet for specific weeks (which auto fill is in progress) until the job complete.
* Screen will display five rows by default where user can select project, function and enter their time quickly.
* Project dropdown - All the active projects including Non Project will be loaded all the time.
* Function Dropdown – Function will be loaded based on the employee’s cost center or based on the assigned project [Refer Function Assignment screen].
* The two rows at the bottom of the table grid (Adjustment and Over Time) will not show for employee who is not eligible for over time.
* Hour entered against ‘Unpaid Absence’ function is not countable in Over Time calculation for non-exempt employee
* Hour entered against ‘Personal Absence’ or ‘Unpaid Absence’ function is not countable in Over Time calculation for exempt employee
* Entering hour against the functions given below is not allowed for non-working days (zero target hour).
  + Personal Absence
  + Unpaid Absence
  + Vacation
  + Bereavement
  + Jury Duty
  + Military Leave
  + Workers Compensation
  + Medical leave (STD)
* Entering time more than 24 hours per day is not allowed.
* Submitting blank timesheet (without any hour) is not allowed.
* Holidays and weekends are indicated in different color (highlighted in the top of the screen)

# Approve Timesheet

* Approve Timesheet used to approve or reject the timesheet. Only the past week’s timesheets can be approved/rejected.
* Enabled for Admin and Approver roles only.
* Admin has ability to view the report for all the employees but Approver can view their employees only.
* When reject, email will be notified to the employee that timesheet has rejected
* Screen will be locked every Monday 1 PM EST/EDT. Incase if approver wants to approve/reject the timesheet, approver should contact the admin to unlock the timecard. Upon approver request, admin will unlock the approver & timesheet screens using “Unlock Timesheet” screen.
* Every Monday 7am EST/EDT, email will be sent to the approvers if their employees entered time on Holidays or (Sunday if not working day)

# BATCH jOBs

There are three jobs running in the app server. All are built in single project and jar file.

1. Send a reminder email to all the employees (who submitted below target hours) every Friday to enter the timesheet
2. Send an email to all the approvers if their employees submitted hours on Holiday or Weekends
3. Send a reminder email to all the approvers to approve the timesheet before the cut off time