UC Larry L. Sautter Award Application: MyTime Entry

UC San Diego’s Time and Attendance Application
## Table of Contents

- **Project** ......................................................................................................................................................................................... 3
- **Summary** .......................................................................................................................................................................................... 3
- **Project Description** ............................................................................................................................................................................. 3
- **Technology** ......................................................................................................................................................................................... 8
- **Timeline** ........................................................................................................................................................................................... 11
- **Project Team** ..................................................................................................................................................................................... 11
- **Appendix A: MTE Application Acronyms** .......................................................................................................................................... 12
- **Appendix B: MTE Application Roles/Screen** .................................................................................................................................... 13
- **Appendix C: Timecard Data** ............................................................................................................................................................ 17
- **Appendix D: Calculation, Spreading and Overrides** .................................................................................................................... 18
Project

Project Title  My Time Entry
UC San Diego’s online time and attendance application

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Summary

UC San Diego’s Payroll Office and Administrative Computing & Telecommunications (ACT) partnered to create the My Time Entry (MTE), a powerful and user friendly web based time and attendance reporting tool that provides significant cost savings, increased efficiencies and improved accuracies for UC San Diego. The MTE application replaces a time intensive paper based manual method of time reporting with a streamlined automated electronic reporting process. The value propositions are achieved at all levels of the time reporting hierarchy. The hierarchy levels include employee, supervisor, timekeeper and central payroll. MTE allows employees to report and route time and attendance electronically; Supervisors to approve and deny time reported electronically; Timekeepers to bypass manual calculations associated with holiday, overtime and the allocation of labor; and Central Payroll to automate the validation of transactions.

Project Description

Background

UC, San Diego employs over 24,000 employees on campus. The process to ensure the accurate and timely payments to these employees is predicated on a successful timekeeping process.

During evaluation of the timekeeping paper process the team determined there was:
- no consistent process between departments
- employee, supervisors and timekeeper’s relied on an external system to verify leave balances
- timekeepers kept mass storage of paper timesheets to do retroactive comparisons, long hand calculations, and funding distribution

The reporting of time was error prone due to lost timesheets, misunderstandings, incorrectly reported time, incorrect calculations, and incorrect key entry into the UC San Diego’s Timekeeping (TAR) application.

Given the criticality of the University’s timekeeping process and the intense manual labor associated with the current process, the MTE project was launched. The charge of the project was to develop a time and attendance application
with specific requirements that translated to key value propositions identified by campus representatives. These being to:

- Centralize the timekeeping process across department
- Eliminate paper timesheets and dependencies associated with paper based forms
- Provide a user friendly interface for employee self service/entry of time and attendance both current pay period reporting and adjustments to past pay period
- Provide for electronic time approval
- Provide a single reference for integrated employee timekeeping data
- Create an enterprise repository for supervisory and employee relationships related to appointment information
- Automate the manual calculations and spreading performed by timekeepers to determine holiday pay, overtime, premium overtime, base earnings and distribution of labor using current distributions
- Automate retroactive comparison for adjusted pay periods
- Interface data directly from MTE to the Payroll compute

The requirements along with the associated value propositions and benefits/cost savings are summarized below:

<table>
<thead>
<tr>
<th>Role</th>
<th>Workload Reduction using MTE</th>
<th>Total # of Campus FTEs</th>
<th>Estimated Cost Savings</th>
</tr>
</thead>
<tbody>
<tr>
<td>Supervisor</td>
<td>15% of 10 hrs/month</td>
<td>9925 (250 departments)</td>
<td>18 hrs/year * $40/hr * 9925 = $7,146,000</td>
</tr>
<tr>
<td>Timekeeper</td>
<td>70% of 32 hrs/month</td>
<td>218 (250 departments)</td>
<td>269 hrs/year * $20/hr * 218 = $1,173,000</td>
</tr>
<tr>
<td>Central Payroll</td>
<td>20% of 173.33 hrs/month</td>
<td>17</td>
<td>416 hrs/year * $30/hr * 17 = $212,000</td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td></td>
<td></td>
<td><strong>$8,531,000</strong></td>
</tr>
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</table>

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Value Proposition</th>
<th>Benefit /Cost Savings</th>
</tr>
</thead>
</table>
| Elimination of Paper Timesheets     | • Eliminates the distribution and collection of paper timesheets  
• Reduces delays and eliminates “lost” timesheets  
• Protects/secures sensitive appointment/job information | • Eliminates the need to print paper timesheets (100% reduction in costs associated with printing of timesheets on paper)  
• Elimination of the manual distribution and collection of paper timesheets (15% reduction in process time. 5% supervisors ; 10% timekeepers) |
| Employee Self Service               | • Authenticates employee  
• Provides audit trail  
• Standard On-line entry process  
• Provides users with immediate on-demand access to timesheet data and historical information  
• Maximize efficiencies by capturing the time entry at source  
• Provides for a standard UI  
• Aggregates employee data in a simple single screen | • Standardize entry will allow for the use of a self-service online training model that will minimize time away for office.  
• Edits and electronic verification will improve the quality of the data and reduce missing or “unsubmitted” time (17% reduction in workload for central payroll)  
• Increased user satisfaction with the process via intuitive UI and single screen information |
<table>
<thead>
<tr>
<th>Feature</th>
<th>UC Larry L. Sautter Award Application: MyTime Entry</th>
<th>UC San Diego</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Automates retroactivity for date sensitive time reporting</strong></td>
<td>• Built in entry edits to improve compliance, implement policy, enforce labor laws and validate data</td>
<td>• Eliminates the need for creating manual reversal of retroactive time by employees</td>
</tr>
<tr>
<td><strong>Electronic Time Approval</strong></td>
<td>• Authenticaes supervisor</td>
<td>• Eliminates retention and verification of signature facsimiles.</td>
</tr>
<tr>
<td></td>
<td>• Immediate notification of pending action</td>
<td>• Ability to track status of time</td>
</tr>
<tr>
<td></td>
<td>• On-line approval/denial</td>
<td>• Timely approvals of employee time</td>
</tr>
<tr>
<td></td>
<td>• Single touch point</td>
<td>• Eliminates the physical routing of forms to obtain signatures (5% reduction in process time)</td>
</tr>
<tr>
<td><strong>Timekeeping and Supervisory Roles Repository</strong></td>
<td>• Enterprise roles repository allows for the use of relationship in other applications</td>
<td>• Up to date supervisor association for other applications</td>
</tr>
<tr>
<td></td>
<td>• Supervisory relationships tied to appointments in Payroll Personnel System</td>
<td>• Flexible to allow for “approver” roles.</td>
</tr>
<tr>
<td></td>
<td>• Ability to assign multiple “sub” supervisors or time approvers</td>
<td></td>
</tr>
<tr>
<td></td>
<td>• Email notifications for pending approvals</td>
<td></td>
</tr>
<tr>
<td><strong>Automated Calculations and Spreading against current distributions</strong></td>
<td>• Automated calculation of overtime, premium overtime and holiday pay.</td>
<td>• Automation of calculations (25% reduction in process time for timekeepers)</td>
</tr>
<tr>
<td></td>
<td>• Automated classification of overtime as payment or compensatory time based on employee election</td>
<td>• Automation of spreading (15% reduction in process time for timekeepers)</td>
</tr>
<tr>
<td></td>
<td>• Implements spreading based on most current distribution</td>
<td></td>
</tr>
<tr>
<td></td>
<td>• Override capabilities for automated calculations for exceptions or exclusions</td>
<td></td>
</tr>
<tr>
<td><strong>Compute Interface</strong></td>
<td>• Interface eliminates key entry to facilitate timekeeper review and analysis</td>
<td>• Elimination of key entry into TAR/PPS compute (15% reduction in process time for timekeepers)</td>
</tr>
</tbody>
</table>
The Following process diagram demonstrates the complexity of the paper process and the use of external systems to obtain leave data followed by the timekeeper key entry into UC San Diego’s TAR application. Paper tasks vary by department.
The following process diagram demonstrates the streamlined process introduced with the online time and attendance system. There are no external systems, users in all roles are provided the data they require and all pieces of the process are contained within the application.
The MTE application was designed to be modular and highly adaptable with a multi-campus use in mind, considering all integration points that would be required by another campus. As a result, the technical architecture of MTE is UC Path ready, and communication with the target payroll system is done by leveraging a service oriented architecture (SOA).

For example, a key component of a time and attendance system is the supervisor/time approver to employee assignment. UC San Diego manages these assignments using the campus Roles system via an application named AccessLinkTNG (ALTNG). During design, the team created a standard interface in MTE to access the Roles system. Next, isolated components were created to read from the ALTNG system and provide the assignment data to MTE via this interface. Another campus may store assignment information in an entirely different way using different languages, databases, documents, etc. Regardless of how a campus stores and manages their data, the campus need only create a component and process to communicate with the standard interface MTE uses. The UC San Diego MTE application can consume this information without knowledge of the individual campuses system or its location.

In addition, the flexibility of this design principle allows for system evolution at UC San Diego as well as other UC campuses: changing databases, changing hardware, changing systems, changing languages, etc.

For example, consider that a campus originally provided directory information from their existing LDAP system. That campus is now in the process of migrating to a new directory service system. During their migration the campus will update the components that share directory information with UC San Diego’s MTE application. No changes are required to the MTE application.

**Technology**

The My Time Entry application leverages the ACT department’s technology stack which standardizes architectural practices, design, security, and data access for ACT applications. The application is built on the Java Spring Framework and UC San Diego’s JLink Framework, DB2 database, and runs in an Apache Tomcat container.

Data access for the MTE application was designed to leverage a Service Oriented Architecture (SOA). SOA architecture is a flexible set of design principles which allows an application to integrate with multiple separate systems from different business domains. This design choice allows for:

- effective management of change
- data integrity, designed isolation of campus data
- communication with other technologies
- independent management of data by each campus

The architectural approach for MTE is flexible and lays a foundation to provide MTE in the future as software as a service (SaaS).

**Branding: UCSD’s UXT stack and Spring Localization**

ACT’s User Experience & Technologies (UXT) stack allows for configurable decorators, navigation, and styles. Using Spring’s localization these configurations can be more easily managed in a multi-campus environment.

**Authentication: Shibboleth Single Sign-On**

Shibboleth provides a standard interface for authentication.

**Authorization: UC San Diego’s Roles Engine**
ACT’s Roles Engine provides a centralized reusable location for roles management with existing workflow and audit built in.

**Interoperability: Pluggable Services**
Consumed data is accessed through the service layer. Source, location, structure, and technology may all change over time without modification to the application as long as the service interface is not modified. MTE pluggable services include PPS, directory Information, LASR balances, and authorization information.

**Rich User Interface Design**
Using Ajax, Cascade Style Sheets, jQuery/YUI (JavaScript rendering and dynamic tables) technologies results in rich interfaces having faster response times and reduced web requests and responses to and from the server.

- **Rich Interactive jQuery Calendar**
  - Click to create events
  - Drag and drop events to different days
  - Click and drag to create events expanding across multiple days

**Design: Encapsulation of Data and Pluggable Objects**
- Time, attendance, and calculated data encapsulated into Timecard objects.
- Pluggable Calculation and Spreading Engine to allow for distinct algorithms for various employee types such as Biweekly or Monthly, Exception or Positive reporting, etc.
- Faster object comparisons. For example, Timecard comparison to determine the retroactive difference between reporting periods.

The following diagram illustrates the high level calculation and spreading algorithms implemented in the MTE application. In depth diagrams are provided in the Appendices.
**Timeline**

2008: Tiger Team

2009: Project Initiation

June 2009 – June 2010: Project Planning

June 2010 – May 2011: Project Development, QA, UAT

December 2010 – January 2011: Phase 1.5 Initiation and Planning

June 2011: MyTime Entry Phase 1.0 Released

December 2012: MyTime Entry Phase 1.5 Released

**Project Team**

Key members of the project team and contributors

<table>
<thead>
<tr>
<th>Administrative Computing &amp; Telecommunications</th>
<th>Business &amp; Financial Services – Payroll</th>
</tr>
</thead>
<tbody>
<tr>
<td>Kevin Chou</td>
<td>George Gomez</td>
</tr>
<tr>
<td>Emily Deere</td>
<td>Tom Pirolli</td>
</tr>
<tr>
<td>Ben Hodson</td>
<td>William Solomon</td>
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<tr>
<td>Nonie Kimpitak</td>
<td>Pearl Trinidad</td>
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<tr>
<td>Jennifer Kramer</td>
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<td>Giles Mullen</td>
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<tr>
<td>Roger Phillips</td>
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<tr>
<td>Dan Stiltner</td>
<td></td>
</tr>
<tr>
<td>Marian Lambkin-Motter, DBA</td>
<td></td>
</tr>
<tr>
<td>James Palla, DBA</td>
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<tr>
<td>ACT’s IT Infrastructure Teams: Unix and Network</td>
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<tr>
<td>Application Support (UNAS ) Team; Identity Management Team</td>
<td></td>
</tr>
<tr>
<td>Lynn Underwood</td>
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</tr>
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**Contributors**

Tiger Team Members and Participants

| Lori Barry, ACT          | Ron Block, ACT        |
| Dawn Buttrell, VC Office, Student Affairs | Barbara Carstens, SDSC |
| Dee Chilcoat, ACT        | Janice Cydell, HR Senior personnel Analyst |
| Emily Deere, ACT         | Nonie Kimpitak, ACT   |
| Kharyn Loteyro, CASPO/SIO | Charles (Chuck) Massey, Campus Recreation |
| Giles Mullen, Consultant | Tom Pirolli, BFS Payroll |
| Ray Rodriguez, Compensation/HR | Dave Simonson, Moores Cancer Center |
| Pearl Trinidad, BFS Payroll, Team Leader | Laurie Ward, Audit & Mgmt Advisory Services |
### Appendix A: MTE Application Acronyms

<table>
<thead>
<tr>
<th>Acronym</th>
<th>Description</th>
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<tbody>
<tr>
<td>ACT</td>
<td>UC San Diego’s Administrative Computing &amp; Telecommunications department</td>
</tr>
<tr>
<td>BFS</td>
<td>UC San Diego’s Business &amp; Financial Services department</td>
</tr>
<tr>
<td>LASR</td>
<td>Leave activity summary report</td>
</tr>
<tr>
<td>OTP</td>
<td>Premium overtime</td>
</tr>
<tr>
<td>OTS</td>
<td>Straight overtime</td>
</tr>
<tr>
<td>PPS</td>
<td>UC’s Payroll Personnel System</td>
</tr>
<tr>
<td>Retro Difference</td>
<td>The difference between two timecards submitted for the same pay period</td>
</tr>
<tr>
<td>TAR</td>
<td>The time and reporting web application used by timekeepers to key enter time and attendance</td>
</tr>
</tbody>
</table>
Appendix B: MTE Application Roles/Screens

Employee Time Entry

Employees use the time entry screen to:

- Review their employee summary for current appointment information, leave balances, and timekeeper and supervisor contact information
- Review current and past timecards up to a year back
- Submit their timecard for supervisor/time approver review and approval
- Adjust past timecards and re-submit for supervisor/time approver review and approval

Supervisor/Time Approver Timecard Approval

Supervisors, or alternate time approvers, use the pending time approval work queue to review and approve or deny employee timecards. Once a decision is made, an email is sent to all involved parties.
**Timekeeper Reporting**
Reporting provides timecard summary, details, and worksheets to quickly review and process timecards.

**Timecard Detail Report**
Timekeepers may see a complete picture of a timecard’s pay period for each reporting period it was submitted. If a timecard has been adjusted, the retro difference section displays the adjusted values.

![Activity Period: 01/01/2012 - 01/31/2012](image)

<table>
<thead>
<tr>
<th>Sun</th>
<th>Mon</th>
<th>Tue</th>
<th>Wed</th>
<th>Thu</th>
<th>Fri</th>
<th>Sat</th>
</tr>
</thead>
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<tr>
<td></td>
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<table>
<thead>
<tr>
<th>Activity Period: 01/01/2012 - 01/31/2012</th>
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</thead>
<tbody>
<tr>
<td>Report Period: 01/01/2012 - 01/31/2012</td>
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**Totals Summary**

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<tr>
<th></th>
<th>Vacation</th>
<th>Add'l Hours</th>
<th>Total</th>
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</thead>
<tbody>
<tr>
<td>Total Hrs</td>
<td>178.00</td>
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<td>21.75</td>
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<tr>
<td>Total Appt%</td>
<td>1.00</td>
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</table>

**Appointment Summary**

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<tr>
<td>Apprt%</td>
</tr>
<tr>
<td>Worked</td>
</tr>
<tr>
<td>Reg</td>
</tr>
<tr>
<td>OTS/Comp</td>
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</table>

<table>
<thead>
<tr>
<th>Distribution Spreading</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dist</td>
</tr>
<tr>
<td>------</td>
</tr>
<tr>
<td>42</td>
</tr>
<tr>
<td>44</td>
</tr>
<tr>
<td>61</td>
</tr>
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</table>
**Timecard Worksheet**

Timekeepers use the calculate spreading worksheet to process timecards through to the TAR system and on to PPS. The application automatically calculates REG, overtime, and holiday hours. All reported hours and calculated hours are compared between reporting periods so only the timecard adjustment is processed. These hours are then spread to the funding sources. Timekeepers will be alerted to any conditions that require their attention, e.g. time reported in excess of leave balances.

Timekeepers may modify calculated values and alter the distribution across funding sources.

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**Timekeeper History**

Historical reporting is available for processed timecards. As with the detail report during the timecard processing, this report provides the complete picture of a timecard. It includes reported time via a calendar view, reported time detailed list view, approval status, total summaries, appointment summaries, retro difference, distribution spread accepted by the timekeeper. Timekeepers may compare each version of the timecard if it was submitted for more than one report period.

**Timekeeper Administration**

Administrator’s can modify the default due dates for each pay period. Setup employee’s overtime designation, alternate email address. View supervisory and work directory assignments and link to the Roles system to update.
Appendix C: Timecard Data

Time Card Data

Reported Time
- Entered Time – Time entered in MTE Time Entry screen
  - Date of activity
  - Appointment
  - Hours
  - Hours Type: HWD, VAC, SICK, COMP, ADMIN, FURLOUGH, COMP PLUS, JURY, VOTING, MILITARY
- Entered Total Time - Summary of hours for each hours type
  - Hours
  - Hours Type
- Entered Dist Time – Entered time spread into distributions
  - Distribution
  - Hours
  - Hours Type
- Entered Appt Time – Summary of overridden hours for each appointment
  - Appointment
  - Hours
  - Hours Type

Info
- Id
- Activity Period
- Report Period

Employee Info
- Employee Data
- Timekeeper
- Active Appointments
- Active Distributions

Status
- Appointment Approval
- Accept Status
- Alerts

Accepted Time
- Accepted Dist Time – Distribution hours that were accepted by the Timekeeper and pushed to TAR.
  - Distribution
  - Hours
  - Hours Type: HWD, VAC, SICK, COMP, ADMIN, FURLOUGH, COMP PLUS, JURY, VOTING, MILITARY, HOL, OTP, OTS, REG
- Accepted Appt Time – Summary of accepted hours for each appointment
  - Appointment
  - Hours
  - Hours Type
- Accepted Total Time – Summary of accepted hours for each hours type
  - Hours
  - Hours Type

Calculated Time
- Calc Time – Holiday, OTP, OTS, and REG calculations.
  - Date
    - Holiday: Day of holiday
    - OT/REG: Last day of OT week
  - Hours
  - Hours Type: HOL, OTS, OTP, REG
- Calc Total Time – Summary of hours for each calculates hour type
  - Hours
  - Hours Type
- Calc Dist Time – Calculated time spread into distributions
  - Distribution
  - Hours
  - Hours Type
- Calc Appt Time – Summary of calculated hours for each appointment
  - Appointment
  - Hours
  - Hours Type

Spread Time
- Spread Dist Time – Spread time derived from entered time and calc time
  - Distribution
  - Hours
  - Hours Type: HWD, VAC, SICK, COMP, ADMIN, FURLOUGH, COMP PLUS, JURY, VOTING, MILITARY, HOL, OTP, OTS, REG
- Spread Appt Time – Summary of spread hours for each appointment
  - Appointment
  - Hours
  - Hours Type
- Spread Total Time – Summary of spread hours for each hours type
  - Hours
  - Hours Type
- Spread Dist Percent – Distribution spread percent calculated by spreading algorithms
  - Distribution
  - Percent

Overridden Time
- Overridden Dist Time – Overridden time entered into distributions
  - Distribution
  - Hours
  - Hours Type: HWD, VAC, SICK, COMP, ADMIN, FURLOUGH, COMP PLUS, JURY, VOTING, MILITARY, HOL, OTP, OTS, REG
- Overridden Appt Time – Summary of overridden hours for each appointment
  - Appointment
  - Hours
  - Hours Type
- Overridden Total Time – Summary of overridden hours for each hours type
  - Hours
  - Hours Type
- Overridden Spread Dist Percent – Overridden distribution spread percent provided by UI
  - Distribution
  - Percent

Spread Dist Percent – Distribution spread percent calculated by spreading algorithms
- Distribution
- Percent
Appendix D: Calculation, Spreading and Overrides

Holiday, OTS, OTP and REG Calculations

Fixed Holiday Calc
- In: Appt Percent
- Out: H Calc Time

Variable Holiday Calc
- In: Entered Time (Pay Status)
- Out: H Calc Time

Exempt OT Calc
- In: Entered Time (Validations)
- Out: OTP/OTS Calc Time

Non-Ex, S0/1 OT Calc
- In: Entered Time
- In: Appt Percent
- In: Std Hours
- Out: OTP/OTS Calc Time

Non-Exempt, S0/2 OT Calc
- In: Entered Time
- In: H Calc Time
- In: OTP/OTS Calc Time

Exempt S0/1 REG Calc
- In: Entered Time (Validations)
- Out: REG Calc Time

Exempt S2 REG Calc
- In: Entered Time (Validations)
- In: Std Hours (Validations)
- Out: REG Calc Time

Non-Ex, S0/1 REG Calc
- In: Entered Time
- In: Appt Percent
- In: Std Hours
- In: OTP/OTS Calc Time
- Out: REG Calc Time

Non-Ex, S2 REG Calc
- In: Entered Time
- In: OTP/OTS Calc Time
- Out: REG Calc Time
Time Card
- Entered Time
- H/OTP/OTS/REG Calc Total Time w/o Appt and Date
- H/OTP/OTS Appt Calc Time w/o Date

Fixed Holiday Appt Spread
- In: Appt Percent
- In: H Calc Total Time w/o Appt and Date
- Out: H Appt Calc Time w/o Date

Variable Holiday Appt Spread
- In: Entered Time (Appt Pay Status Percent)
- In: H Calc Total Time w/o Appt and Date
- Out: H Appt Calc Time w/o Date

Fixed or Variable

S0/1 or S2

S0/1 OT Appt Spread
- In: Appt Percent
- In: OTP/OTS Calc Total Time w/o Appt and Date
- Out: OTP/OTS Appt Calc Time w/o Date

S2 OT Appt Spread
- In: Entered Time (Pay Status Percent)
- In: OTP/OTS Calc Total Time w/o Appt and Date
- Out: OTP/OTS Appt Calc Time w/o Date

S0 or S1 or S2

?? REG Appt Spread ??
- In: Appt Percent
- In: Entered Time (Pay Status Percent)
- In: H/OTP/OTS Appt Calc Time w/o Date
- In: REG Calc Total Time w/o Appt and Date
- Out: REG Appt Calc Time w/o Date

Retro Diff Time Card
- RD Entered Time
- RD H/OTP/OTS/REG Calc Time w/o Appt and Date
- RD H/OTP/OTS/REG Appt Calc w/o Date

Calc Dist Spreading
- In: Appt Percent
- In: Distribution Percent
- In: RD Appt Entered Time w/o Date (RD Entered Time)
- In: RD H/OTP/OTS/REG Appt Calc Time w/o Date
- In: Spread Percent Override
- Out: Spread Percent
- Out: Distribution Spread

Retro Diff Time Card
- RD Entered Time
- RD H/OTP/OTS/REG Calc Time w/o Appt and Date
- RD H/OTP/OTS/REG Appt Calc w/o Date
- RD Distribution Spread
Calculation Hours and Spread Percent Override

Previous Time Card
- H/OTS/OTP Accepted Total Time

Compare Time Cards
- In: H/OTS/OTP Accepted Total Time from Previous Time Card
- In: H/OTS/OTP Overridden Retro Diff Total Time
- Out: H/OTS/OTP Overridden Total Time

Overridden Total Time
- H/OTS/OTP Overridden Total Time

Time Card
- Entered Time
- Calc Time

Spread Time Into Distributions
- In: Entered Time
- In: Calc Time
- In: H/OTS/OTP Overridden Total Time
- In: Spread Percent Override
- Out: Overridden Dist Time
- Out: Overridden Appt Time
- Out: Overridden Total Time

Previous Time Card
- Accepted Dist Time
- Accepted Appt Time
- Accepted Total Time

Compare Time Cards
- In: Overridden Dist Time
- In: Previous Accepted Dist Time
- Out: Retro Diff Spread Dist Time
- Out: Retro Diff Spread Appt Time
- Out: Retro Diff Spread Total Time

Retro Diff Time Card
- Entered Time
- Calc Time
- Overridden Dist Time
- Overridden Appt Time
- Overridden Total Time
- Retro Diff Spread Dist Time
- Retro Diff Spread Appt Time
- Retro Diff Spread Total Time

UI Overridden Retro Diff
- H/OTS/OTP Overridden
- Retro Diff Total Time from Spread UI

UI Overridden Distribution Spread Percent
- Spread Percent Override

UI Overridden Retro Diff
H/OTS/OTP Overridden
Retro Diff Total Time from
Spread UI
Previous Time Card
Accepted Dist Time
Accepted Appt Time
Accepted Total Time

Compare Time Cards
- In: H/OTS/OTP Accepted Total Time from Previous Time Card
- In: H/OTS/OTP Overridden Retro Diff Total Time
- Out: H/OTS/OTP Overridden Total Time

Overridden Total Time
- H/OTS/OTP Overridden Total Time

Time Card
- Entered Time
- Calc Time

Spread Time Into Distributions
- In: Entered Time
- In: Calc Time
- In: H/OTS/OTP Overridden Total Time
- In: Spread Percent Override
- Out: Overridden Dist Time
- Out: Overridden Appt Time
- Out: Overridden Total Time

Previous Time Card
- Accepted Dist Time
- Accepted Appt Time
- Accepted Total Time

Compare Time Cards
- In: Overridden Dist Time
- In: Previous Accepted Dist Time
- Out: Retro Diff Spread Dist Time
- Out: Retro Diff Spread Appt Time
- Out: Retro Diff Spread Total Time

Retro Diff Time Card
- Entered Time
- Calc Time
- Overridden Dist Time
- Overridden Appt Time
- Overridden Total Time
- Retro Diff Spread Dist Time
- Retro Diff Spread Appt Time
- Retro Diff Spread Total Time

UI Overridden Distribution Spread Percent
- Spread Percent Override

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UC San Diego