What's new for R5

The features below were added for R5.

> **Note:** Most Workforce Dimensions features are not enabled by default, and need to be enabled (for example, via FAPs or DAPs). The exception is features that are incorporated within the existing product capabilities (for example, data being added to a Dataview, or API additions/updates).

Team Perspective ⌄

Jan 1, 2018 - Mar 31, 2019
average for **3** employees

Discipline At Work (1)
0.27

Fatigue (2)
1.00

Potential (2)
1.00

Performance
0.70

All Perspectives ❯

Workforce Dimensions HCM

Team Perspective Tile

The Team Perspective tile can be added to your home page and provides an at-a-glance insight of employee performance, productivity, and engagement. From the tile, managers can identify and respond to trends, and can quickly access perspective score reports.

For more details on the Targets Perspective Tile feature, see the "Employee Perspectives" help topic.

Information Access

Targets & Thresholds

You can now define target and threshold values against the KPIs available in Analytics to help managers easily monitor their performance against defined targets to insure the desired organizational outcomes (reduced cost, increased productivity, better employee engagement).

With Targets & Thresholds, you can:

- Drive improved performance by supporting consistent and clear goals against key performance indicators (KPIs).

- Provide managers visibility of their performance against targets within Workforce Dimensions and the ability to quickly take action to achieve the defined corporate objectives.

For more details on the Targets & Thresholds feature, see the "Configure Targets & Thresholds" help topic.

Platform/Mobile App

Push Notifications

Push Notifications can be sent, received, and acted upon from the Mobile app. After allowing notifications on the app, the user's notifications are present in the Control Center from the app. When a notification appears on the app, tapping the notification will bring the user to the Control Center (after logging in, if necessary).

Notifications on the Mobile App contain "actionable" options that vary according to the type of notification. For example, certain notifications can be acknowledged (Mark Read) right from the notification. Other notifications allow the user to immediately act on the notification (such as Approve a timeoff request or Refuse a shift swap request) without having to log in. A Go To option, when tapped, will direct the user to the relevant location in the system. If the user is not logged in when tapping Go To, a login is required before the redirect occurs.

For more details on the Push Notifications feature, see the "Notifications on the Mobile App" topic in the Mobile App section of the online help.

Call List

The Call List enables managers to easily identify the best employee to fill an open shift. Based on the criteria in the procedure set that the manager uses in the Call List, Workforce Dimensions automatically generates a list of qualified employees that are available to work the shift. Managers can then choose an employee from the list and assign the shift directly to them from the Call List.

The Call List enables managers to:

- **Fill a specific open shift:** You can fill an immediate open shift by right-clicking the shift in the Open Shifts section of the Schedule Planner and selecting **Call List** from the glance menu. From here, you can select a procedure set to run to generate the list of eligible employees. Before choosing an employee from the list, you can select Back to Shift List to display and work with the open shifts calendar view.

- **Fill multiple open shifts in a schedule:** When you select **Tools > Call List** from the toolbar, the Call List displays a calendar view of the current schedule. An open shift is indicated by a red square in the calendar. Multiple open shifts on a certain day are indicated by three dots displayed below the red square. All open shifts in the current schedule are listed below the calendar in chronological order. You can select **Load More** at the bottom of the list to show more open shifts.

- **See additional details about an open shift:** From an open shift's tile, you can select **More > View Details** to view more information about the shift, such as the date, time, job, and location. You can also see a list of
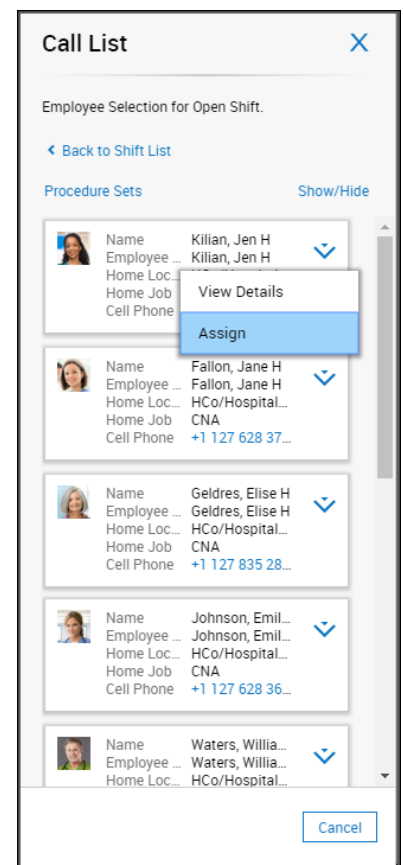
employees that are already assigned to the shift, which may be a consideration for deciding which employee to select to fill the shift.

- **Find qualified employees to fill the shift:** From an open shift's tile, you can select **More > Find People**, then select the procedure set to use to determine eligibility. Based on the criteria in the selected procedure set, the Call List displays a list of employees, with the most qualified and available employee listed first. If no employees are displayed, you can select **Change Procedure Set** to use different criteria.

- **Call or email employees directly from the list:** Phone numbers and email addresses are shown as blue links in the Call List. You can click a link to either call an employee (from a mobile device or from a desktop device with an installed phone app) or send an email.

- **Easily assign employees to open shifts and view the schedule updates immediately in the Schedule Planner:** From the employee's tile in the Call List, you can click **More > Assign** to immediately assign that employee to the shift. A notification displays to let you know that the employee was successfully assigned to the shift, and the schedule is updated to now show the shift in the employee's schedule.

- **View additional details about each employee:** From the employee's tile in the Call List, you can click **More > View Details** to see more information about the employee, such as their home location, any skills and certifications, seniority date, standard weekly hours, and scheduled hours. From here, you also have the option to click **Assign** to assign the employee to the open shift.

- **Customize the employee data shown in the tiles:** Select **Show/Hide** to view a list of the employee data that is available to display in the Call List. From here, you can choose which data to display in the employee tiles. You can also change the order in which the data is displayed.

- **Highlight an employee's schedule in the Schedule Planner:** you can highlight and display an employee's schedule in the top row of the Schedule Planner by clicking on the employee's tile in the Call List.

For more details on the Call List feature, see the "Fill Open Shifts" and "Configure Call Lists" help topics.
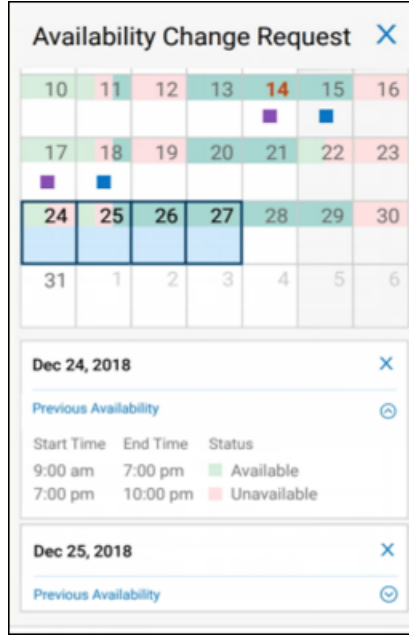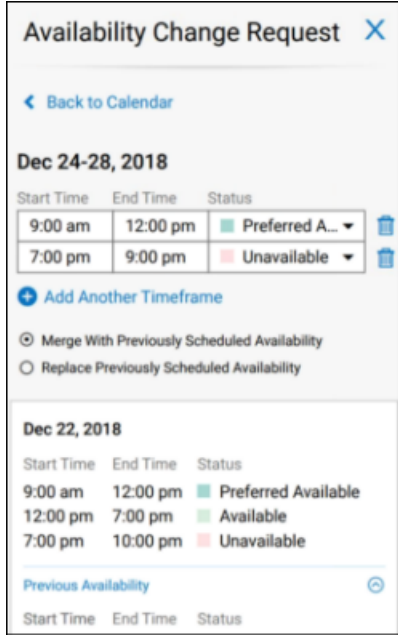
Request Availability

Employees can easily manage their availability in their schedule, changing when they are available to work. Based on viewing their availability status right in their calendar, employees can submit whether they can or cannot work for one or multiple days. Managers are able to view the requested availability in the employee's calendar, which provides them with necessary information for scheduling purposes. They can then approve the request or let it be automatically approved.

For more details on the Request Availability feature, see the "Request Availability Change", "Configure Request Subtypes", and "Configure Availability Change" help topics.

Skills and Certifications Organizational Rules

To ensure that best practices and standards are adhered to, Skills and Certifications Organizational Rule Sets -- which include a full set of Skills, Certifications, Required Skills, and Required Certifications assigned to a job or location -- automate staff attribute considerations so that managers can easily create compliant schedules. Managers can now see immediate notifications in the Schedule Planner pertaining to the Skills and Certifications Organizational Rules when a rule violation occurs.

For example, managers can see violations such as when an employee has expired certifications or if the required number of employees with a certain skill assigned to a specific shift is not met. Details about the rule violation, such as the rule type and a description, are shown on the Rule Violation tab.

For more details on the Skills and Certifications Organization Rules feature, see the "Configure Skills and Certifications Organizational Rules" help topic.

Timekeeper

Move Amounts

Employees and managers can easily move amounts (time or money) from one paycode total to another from within the Totals add-on in the employee timecard. Additionally, they can change the location/job, cost center, labor category, or work rule that time has been charged to.

When total amounts have been moved, you can view and delete them from the employee timecard. You can delete one, multiple, or all moved amounts in the loaded timeframe.

For more details on the Move Total Amounts feature, see the "Move total amounts" help topic.

Justify Missing Time

Missing time is a feature for when an employee has time they did not work when they were scheduled to work. There are five exceptions

that are considered part of the missing time feature: late-in, early out, long break, unexcused absence, and core hours violation.

Missing time can be configured to auto-resolve with a duration pay code, which employees and managers can then justify by applying the missed time to other duration pay codes configured to be used with missing time.

Once an employee has justified their time managers can then go in and either edit the justifications or approve them on a day in the timecard.

When the logged-in user has to take an action on the missing time on a day, an Action Required icon appears. Once they have justified the missing time, the Action Required icon disappears for them.
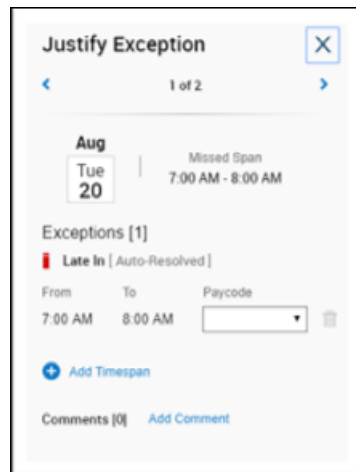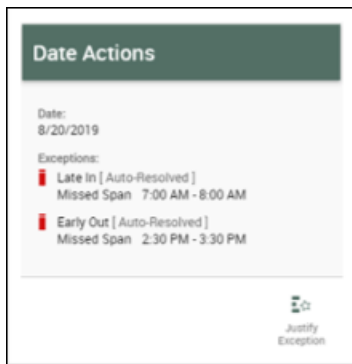
Employees and managers can select to take action on the missed time. A missed span on a punch can have multiple exceptions that can be justified in one panel. Justifying from the date can save time when there are multiple missed spans on a day as all missed spans appear as pages in the Justify Exception panel.

Notifications for missing time exceptions can be set up to alert:

- Employees and/or managers of auto-resolved and/or missing time

- Managers of employee-justified missing time

- Employees of manager-justified missing time

For more details on the Justify Missing Time feature, see the "Auto-Resolved Exceptions", "Justify missing time exceptions (employees)", and "Justify or approve missing time exceptions (managers)" help topics.

What's New Table for R5

The features below were also added for R5.

Feature	Description	Help Documentation
Attendance		
Ability to automatically reset attendance	When a new Attendance profile is assigned to an employee, users can now apply Attendance rules without defining balances for Attendance Balance Types.	None

Feature	Description	Help Documentation
balances when a profile is assigned		
Business Structure		
Employee Group Enhancement - Home Employees Hyperfind	You can define additional criteria to identify the home employees for a manager's employee group by creating a Home Employees Hyperfind and then assigning that Hyperfind to the manager in People Information.	For more details, see the "Employee Group" help topic.
Multi Currency (Business Structure)	Administrators can assign a currency to a Business Structure Location. If a currency is not assigned to a Location, the location inherits the currency of its parent location. If a currency is not defined for any locations on the Business Structure, then locations use the base currency (the tenant default currency).	For more details, see the "Locations" help topic.
Workforce Dimensions		
Data Integrations Enhancements	Use **Manage SFTP** to access the inbound (source) and outbound (destination) SFTP folders on the internal SFTP account. This access to unencrypted files helps you to troubleshoot integrations. Transaction Assistant has the following enhancements: • You can display all (up to 50,000) records of transactional errors in integrations and not just first 200 records. • The **API Endpoint** column records the API endpoint that was called and which produced the error. • **Select Max** replaces Select All to select up to 200 of the errors that are loaded. • Filtering and sorting work on all columns of all of the records. • The XML Framework has been removed which eliminates errors for XML-restricted characters.	For more details, see the "Manage SFTP" and "Resubmit Failed Integrations" help topics.

Feature	Description	Help Documentation
Multi-Currency	Global customers of Workforce Dimensions can manage employees in different regions that are paid in different currencies with a single Workforce Dimensions tenant. An administrator can define multiple currencies and manage the associated exchange rates. Employees and Locations in the Business Structure will have an assigned currency. Monetary data can be displayed in the assigned currency or data may be converted to be shown in the user's preferred currency.	For more details, see the "Currency Policy" help topic.
Ability to copy a business process	Customers can now copy a business process and make edits to the copy.	For more details, see the "Create. edit, and deploy Process Models" help topic.
Forecasting		
Standard Forecasting Metrics and KPIs	Users can leverage forecasting data (Forecasted, Actual, and Budget) as standard metrics in Dataviews and reports. The following metrics leverage the PAYCODE mapping category: • Actual Labor Hours • Actual Labor Cost • Scheduled Labor Hours • Scheduled Labor Cost The following metrics are calculated or imported into the system: • Budget Labor Hours • Forecasted Hours • Generated Forecasted Hours • Earned Hours • Budget Labor Cost **Note:** In R5, Forecasting data will not appear in Dataviews and reports unless volume drivers are assigned (and volume data has been imported) to a location in the business structure	For more details, see the "Standard metrics and KPIs" help topic. The process for mapping metrics to volume drivers is located in the "Volume Drivers" topic.

Feature	Description	Help Documentation
	with a Location Type of Department. In addition, KPI Builder allows you to map metrics to volume drivers so that they (and any KPIs that employ them) can be used in Dataviews and reports to return the most current forecasted, actual, and budget values.	
Performance enhancement	For optimal performance, no user, even a corporate manager, was allowed to perform forecast edits above the store level in the business structure. This restriction has been removed.	None
Multi-Currency (Forecasting)	All money values in Forecast Manager and the Operational Dashboard are displayed by default, or as selected, in the appropriate user-preferred or location-specific currency.	For more details, see the "Forecast Planner" help topic.
Usability	Breadcrumbs (live links to locations) allow quick navigation to levels In the business structure in Forecast Manager. In R5, managers can select or deselect all locations while navigating the breadcrumb.	For more details, see the "Work with the Operational Dashboard" and "Select Location" help topics.
HCM		
Unified Business Structure	The unified business structure provides a single point of entry for the maintenance of nodes on WFM business structure and associated HCM cost center. The WFM business structure is the system of record and will pass new, changed and expired nodes in near real-time to the HCM cost center. A Business Structure Sync Events report is available under **My Reports > System Reports > System Utilities** to view the status of the process.	(A help update is in progress to include the details for this feature.)
Data delivery	HCM Data Delivery allows you to extract and discover trends that otherwise might go unnoticed. It links data from employee records in HCM to scheduling and timekeeping records. You can view the data side-by-side in Dataview tiles or reports to correlate data across multiple departments. The following reports are added: • Employee Hours by Performance Rating	For more details, see the Integrations ImplementationGuideHCMDataDelivery.pdf for Professional Services or Cloud Ops, or the Data Dictionary.

Feature	Description	Help Documentation
	- Terminated Employees Summary - Employee Hours by EEOC Summary Also, HCM Data Delivery supports the creation of custom reports by exposing approximately 200 HR-related fields in the Workforce Dimensions Information Access data dictionary. These HR-related fields include employee demographics, key dates, current compensation, performance rating, perspective scores, and termination details.	
Unified Alerts and Notification	Workforce Dimensions HCM event notifications are now included in the Control Center.	For more details, see the "Workforce Dimensions HCM Unified Alerts Metadata Release– Configuration" help topic.
Information Access		
Access reports via GoTo control from Dataview	You can now run a report by selecting a subset of employees in a Dataview or application page and use the GoTo control to navigate to the Report Library. When you run a report after using the GoTo control, the report provides the Previously Selected Employee(s) Hyperfind option, which enables the report to return data only for the employees selected on the Dataview or application page.	For more details, see the "Run reports from a Dataview or application page" help topic.
Send reports via email	Depending on how your system is configured, you can now automatically send a report as an email attachment.	For more details, see the "Schedule Report Jobs" help topic.
Key Performance Indicators		
Target Management	Managers use Analytics to monitor performance against defined targets to ensure organizational outcomes such as reduced cost, increased productivity, and better employee engagement. Standard targets are used for general Analytics. Targets consist of an Analytics KPI or metric, locations in the business structure, an effective date, and threshold values.	For more details, see the "Configure Targets and Thresholds" help topic.
Leave		
Automatic Rule Assignment	Leave Administrators can configure Leave Profiles to automatically assign a Leave Rule to a Leave Request based on the provided Category and Reason. The Leave	For more details, see the "Setup > Leave Profiles" help topic.

Feature	Description	Help Documentation
	Request will then be promoted directly to Open status upon submission.	
Mobile		
Trace Log File	The Mobile App now contains an option to generate a Trace Log file that contains the full application log and serves as a useful troubleshooting tool.	For more details, see the Mobile App section of the help.
Mobile App Database entity	A new database entity, MobileApp, is now available for DataViews. The entity allows for the creation of mobile app-usage reports for a defined time period and user list.	For more details, see the Mobile App section of the help.
Platform		
Enhancement to Time Detail report to add ability to re-work the queuing for large reports	Depending on their size, custom reports are run immediately by the ad hoc report engine or are scheduled to be run by the more-efficient scheduling engine.	For more details, see the "Run large custom reports" help topic.
Scheduler		
Rule Violation indicator	Managers can easily view which employees have rule violations. In the Schedule Planner, an icon representing the severity of the rule violation displays next to each employee with a violation. Managers can select one or more employees with rule violations to display more details about the violations.	For more details, see the "Current time and visual cues" and "Track rule violations" help topics.
Manage My Schedule tile	Employees can create or access schedule requests using the Manage My Schedule tile.	For more details, see the "Manage My Schedule" help topic.
Multi-Currency (Scheduler)	When multi-currency is configured for your organization, how monetary data displays in Scheduler depends on what you are doing: • When performing an action on specific employees or in areas that show data by employee, such as in Edit Paycode or in My Calendar, monetary values are displayed in the employee's assigned currency. • Where monetary data is summarized, such as in	For more details, see the "Configure Schedule Planner" help topic.

Feature	Description	Help Documentation
	the Indicators add-on and the Metrics add-on, monetary values are displayed based on the currency display preference of the logged-in user.	
Job Color in Schedule Planner	The job color attribute allows an organization to assign a job color for any generics job. They are also now able to define job color for each specific job if there is a need to differentiate a cashier working in store 1 vs a cashier working in store 2.	None
	A new parameter has been added to the Schedule Planner Setup for this feature, which can be enabled to show job color or disabled to make the system behave as before without job color. In general, the system will show the default job color (purple for regular and blue for transfer) if no job color are defined or that the Schedule Planner parameter is disabled.	
	If the Schedule Planner parameter is enabled (checked), job color will show as follows:	
	- The default color if no color has been defined for the job. - The generic job color if defined. - The specific job color will be shown even if there is a generic job color for that job. - Open shifts will show their job color	
	Shift and job color coding in the Schedule Planner:	
	Each job can be defined to display as a unique color in the Schedule Planner (Gantt view only). By color-coding each job, you can easily identify job distribution — including transfers and open shifts — at a glance.	
	Note: The color definitions are made for your organization in the Application Setup component. If your organization does not define colors for specific jobs, the default colors display: purple for regular job and blue for	

Feature	Description	Help Documentation
	transfers.	
	When a shift is assigned, the job displays as the defined solid job color. For open shifts, the job displays as an open box with the border in the job color.	
	After you assign an open shift, the job color becomes solid.	
	For multiple segments, each segment displays the applicable color.	
	When job color is activated, the primary job color of an employee is displayed below his/her name, so that users can easily see at a glance if the employee is schedule on his regular job or on a transfer.	
Inactive Manager Notifications	Previously, employees were receiving a manager time-off request (TOR) notification if the manager employment status became inactive, which was causing confusion. With this improvement, the TOR notification is now going to the manager report to in case his/her employment status becomes inactive and the organization has not yet properly defined a replacement. If no active manager can be found, then the system will generate an error message and will prevent the request from being submitted.	None
Setup Data Management		
SDM improvements	Setup Data Manager has been enhanced to download more setup data, improve error messaging, and increase performance.	For more details, see the "Copy Setup Data", "Export Setup Data", and View the status of transferred items" help topics.
Workforce TeleStaff and Workforce Planner		
Active Time Window for Schedule Import	Handling has been improved for signed-off periods. The **AtwFromDate** and **AtwThruDate** process properties define the start and end dates of the active time window (ATW) in TeleStaff or Workforce Planner.	For more details, see the "Workforce TeleStaff Schedule Import Configuration" and "Workforce Planner Schedule Import Configuration" help topics.
Business Structure Export Job selection mode	The **Job Selection Mode** process property defines whether job data can be exported only within the direct hierarchy or from anywhere in an institution.	For more details, see the "Workforce TeleStaff Business Structure Export Configuration" and "Workforce Planner

Feature	Description	Help Documentation
		Business Structure Export Configuration" help topics.
Business Structure Export Institution Filter	The Business Structure Export integration must include the time zone for locations that are mapped to Institutions in TeleStaff or Workforce Planner. The **EnableInstitutionFilter** process property sets which locations in the business structure to export.	For more details, see the "Workforce TeleStaff Business Structure Export Configuration" and "Workforce Planner Business Structure Export Configuration" help topics.
Workforce Planner integrations	The integrations between Workforce Dimensions and Workforce Planner exchange data to provide a unified schedule-to-pay system that is customized for manufacturing organizations.	For more details, see the "Workforce Planner Overview" help topic. For Integrations, see the "Business Structure Export", "People Export", "Skills & Certifications Export", and "Schedule Import" help topics.
Timekeeper		
Hours Worked FACP Updates	The employee Function Access Profile (FACP) for "Hours Worked and Duration Amount in My Timecard", and the manager FACP "Hours Worked and Duration Amount in Timecard Editor" have been updated to only control access to the Hours Worked pay code. Access to duration pay codes is now only controlled in the pay code data access profiles.	None
Punch Tile Access	Access to the Punch tile is now controlled by the employee's time entry method. When you include the Punch tile on the home page, display and access to the tile will depend on the time entry method of the employee viewing the page. If the employee has a time entry method of Timestamp or Timestamp & Hourly View, they will be able to view and add the Punch tile to their home page. For employees with a time entry method of Hourly View or Project View, they will not be able to view the Punch tile on their home page or add the Punch tile to their home page.	None
Employee Time Entry Method restriction	Previously, employees with the Time Entry Method of Hourly View were still able to view the Punch Tile on their Home page and punches were still accepted and recorded in the timecard. Employees will now be restricted to the Time Entry	None

Feature	Description	Help Documentation
	Method that is designated to them and it should be enforced as it was in Workforce Central.	
Universal Device Manager		
Password Authentication	Password authentication is now optional for both device communication and Smart Views. If Device Initiated Authentication is enabled, the password entered must match the devices. This password is used for both device communication and Smart Views. If Device Initiated Authentication is not enabled, device communication and Smart Views do not require a password to function.	For more details, see the "Configuration > Devices" help topic.
Auto-Registration	When Auto-Registration is enabled, the "Default Device Password " is only used for new devices as they check in to register in Workforce Dimensions and must match the devices password. If the passwords do not match, the devices will fail to auto-register.	For more details, see the "Configuration > Devices" help topic.

In addition, the following API operation(s) were added for R5.

Domain	Resource	Operation	Method	URL endpoint
Common Resources	Business Structures > Jobs	Retrieve Job Mappings by Persistent IDs	POST	`/v1/commons/jobs/persistent_ids/multi_read`
Common Resources	Business Structures > Location Types	Retrieve Location Types by Persistent IDs	POST	`/v1/commons/location_types/persistent_ids/multi_read`
Common Resources	Business Structures > Locations	Retrieve Location Mappings by Persistent IDs	POST	`/v1/commons/locations/persistent_ids/multi_read`
Common Resources	Currency > Currency Definitions	Retrieve All Currency Definitions	GET	`/v1/commons/currency/definitions`
Common Resources	Currency > Currency	Retrieve Currency Definition by ID	GET	`/v1/commons/currency/definitions/{id}`

Domain	Resource	Operation	Method	URL endpoint
	Definitions			
Common Resources	Currency > Currency Policies	Retrieve Base Currency Policy	GET	`/v1/commons/currency/policies/base_currency`
Common Resources	Currency > Currency Policies	Retrieve All Currency Policies	GET	`/v1/commons/currency/policies`
Common Resources	Currency > Currency Policies	Retrieve Currency Policy by ID	GET	`/v1/commons/currency/policies/{id}`
Common Resources	Currency > Currency Policies	Retrieve Currency Policies	POST	`/v1/commons/currency/policies/multi_read`
Common Resources	Currency > Currency Policies	Create Currency Policy	POST	`/v1/commons/currency/policies`
Common Resources	Currency > Currency Policies	Update Currency Policy	POST	`/v1/commons/currency/policies/apply_update`
Common Resources	Currency > Currency Policies	Create or Update Currency Policies	POST	`/v1/commons/currency/policies/multi_upsert`
Common Resources	Currency > Exchange Rates	Retrieve Converted Amount	POST	`/v1/commons/currency/conversions/apply_read`
Common Resources	Domain Event Categories	Retrieve All Domain Event Categories	GET	`/v1/commons/event_categories`
Common Resources	Domain Event Categories	Retrieve Domain Event Category by ID	GET	`/v1/commons/event_categories/{id}`
Common Resources	Domain Event Categories	Retrieve Domain Event Categories	POST	`/v1/commons/event_categories/multi_read`
Common Resources	Domain Event Categories	Create Domain Event Category	POST	`/v1/commons/event_categories`

Domain	Resource	Operation	Method	URL endpoint
Common Resources	Domain Event Categories	Create or Update Domain Event Categories	POST	`/v1/commons/event_categories/multi_upsert`
Common Resources	Domain Event Categories	Update Domain Event Category by ID	PUT	`/v1/commons/event_categories/{id}`
Common Resources	Domain Event Categories	Delete Domain Event Category by ID	DELETE	`/v1/commons/event_categories/{id}`
Common Resources	Domain Event Navigations	Retrieve All Domain Event Navigations	GET	`/v1/commons/event_navigations`
Common Resources	Domain Event Navigations	Retrieve Domain Event Notification by ID	GET	`/v1/commons/event_navigations/{id}`
Common Resources	Domain Event Navigations	Retrieve Domain Event Navigations	POST	`/v1/commons/event_navigations/multi_read`
Common Resources	Domain Event Navigations	Create Domain Event Notification	POST	`/v1/commons/event_navigations`
Common Resources	Domain Event Navigations	Create or Update Domain Event Navigations	POST	`/v1/commons/event_navigations/multi_upsert`
Common Resources	Domain Event Navigations	Update Domain Event Notification by ID	PUT	`/v1/commons/event_navigations/{id}`
Common Resources	Domain Event Navigations	Delete Domain Event Notification by ID	DELETE	`/v1/commons/event_navigations/{id}`
Common Resources	Dynamic Event Notification Mappings	Retrieve All Dynamic Event Notification Mappings	GET	`/v1/commons/event_notifications`
Common Resources	Dynamic Event Notification Mappings	Retrieve Dynamic Event Notification Mapping by ID	GET	`/v1/commons/event_notifications/{id}`

Domain	Resource	Operation	Method	URL endpoint
Common Resources	Dynamic Event Notification Mappings	Retrieve Dynamic Event Notification Mappings	POST	`/v1/commons/event_notifications/multi_read`
Common Resources	Dynamic Event Notification Mappings	Create a Dynamic Event Notification Mapping	POST	`/v1/commons/event_notifications`
Common Resources	Dynamic Event Notification Mappings	Create or Update Dynamic Event Notification Mappings	POST	`/v1/commons/event_notifications/multi_upsert`
Common Resources	Dynamic Event Notification Mappings	Update a Dynamic Event Notification Mapping by ID	PUT	`/v1/commons/event_notifications/{id}`
Common Resources	Dynamic Event Notification Mappings	Delete Dynamic Event Notification Mapping by ID	DELETE	`/v1/commons/event_notifications/{id}`
Common Resources	Dynamic Event Notification Mappings	Delete Dynamic Event Notification Mappings	POST	`/v1/commons/event_notifications/multi_delete`
Common Resources	Dynamic Event Notification Mappings	Send Event Notifications	POST	`/v1/commons/event_notifications/notify`
Common Resources	Domain Events	Retrieve All Domain Events	GET	`/v1/commons/event_types`
Common Resources	Domain Events	Retrieve Domain Event by ID	GET	`/v1/commons/event_types/{id}`
Common Resources	Domain Events	Retrieve Domain Events	POST	`/v1/commons/event_types/multi_read`
Common Resources	Domain Events	Create Domain Event	POST	`/v1/commons/event_types`
Common Resources	Domain Events	Create or Update Domain Events	POST	`/v1/commons/event_types/multi_upsert`
Common Resources	Domain Events	Update Domain Event by ID	PUT	`/v1/commons/event_types/{id}`

Domain	Resource	Operation	Method	URL endpoint
Common Resources	Domain Events	Delete Domain Event by ID	DELETE	`/v1/commons/event_types/{id}`
Common Resources	Domain Events	Delete Domain Events	POST	`/v1/commons/event_types/multi_delete`
Common Resources	Fiscal Calendars	Create Fiscal Periods	POST	`/v1/commons/fiscal_calendars/import`
Common Resources	Fiscal Calendars	Delete Fiscal Periods	POST	`/v1/commons/fiscal_calendars/multi_delete`
Common Resources	Generic Notifications	Retrieve All Generic Notifications	GET	`/v1/commons/generic_notifications`
Common Resources	Generic Notifications	Retrieve Generic Notification by ID	GET	`/v1/commons/generic_notifications/{id}`
Common Resources	Generic Notifications	Retrieve Generic Notifications	POST	`/v1/commons/generic_notifications/multi_read`
Common Resources	Generic Notifications	Create a Generic Notification	POST	`/v1/commons/generic_notifications`
Common Resources	Generic Notifications	Create or Update Generic Notifications	POST	`/v1/commons/generic_notifications/multi_upsert`
Common Resources	Generic Notifications	Update a Generic Notification	PUT	`/v1/commons/generic_notifications/{id}`
Common Resources	Generic Notifications	Delete a Generic Notification	DELETE	`/v1/commons/generic_notifications/{id}`
Common Resources	Generic Notifications	Delete Generic Notifications	POST	`/v1/commons/generic_notifications/multi_delete`
Common Resources	Hours of Operation	Retrieve All Hours of Operation or by Name	GET	`/v1/commons/hours_operation`
Common Resources	Hours of Operation	Retrieve Hours of Operation by ID	GET	`/v1/commons/hours_operation/{id}`
Common Resources	Hours of Operation	Retrieve Multiple Hours of Operation	POST	`/v1/commons/hours_operation/multi_read`
Common	Hours of	Create Hours of	POST	`/v1/commons/hours_operation`

Domain	Resource	Operation	Method	URL endpoint
Resources	Operation	Operation		
Common Resources	Hours of Operation	Create Multiple Hours of Operation	POST	`/v1/commons/hours_operation/multi_create`
Common Resources	Hours of Operation	Update Hours of Operation by ID	PUT	`/v1/commons/hours_operation/{id}`
Common Resources	Hours of Operation	Update Multiple Hours of Operation	POST	`/v1/commons/hours_operation/multi_update`
Common Resources	Hours of Operation	Delete Hours of Operation by ID	DELETE	`/v1/commons/hours_operation/{id}`
Common Resources	Hours of Operation	Delete Multiple Hours of Operation	POST	`/v1/commons/hours_operation/multi_delete`
Common Resources	Hours of Operation Assignments	Retrieve Hours of Operation Assignments--One Location	GET	`/v1/commons/hours_operation_assignments`
Common Resources	Hours of Operation Assignments	Retrieve Hours of Operation Assignments--Multiple Locations	POST	`/v1/commons/hours_operation_assignments/multi_read`
Common Resources	Hours of Operation Assignments	Create or Update Hours of Operation Assignments	POST	`/v1/commons/hours_operation_assignments/multi_upsert`
Common Resources	Hours of Operation Assignments	Delete Hours of Operation Assignments	POST	`/v1/commons/hours_operation_assignments/multi_delete`
Common Resources	Hours of Operation Overrides	Retrieve All Hours of Operation Overrides or by Name	GET	`/v1/commons/hours_operation_override`
Common Resources	Hours of Operation Overrides	Retrieve Hours of Operation Override by ID	GET	`/v1/commons/hours_operation_override/{id}`
Common Resources	Hours of Operation	Retrieve Hours of Operation Overrides	POST	`/v1/commons/hours_operation_override/multi_read`

Domain	Resource	Operation	Method	URL endpoint
	Overrides			
Common Resources	Hours of Operation Overrides	Create Hours of Operation Override	POST	`/v1/commons/hours_operation_override`
Common Resources	Hours of Operation Overrides	Create Hours of Operation Overrides	POST	`/v1/commons/hours_operation_override/multi_create`
Common Resources	Hours of Operation Overrides	Update Hours of Operation Override by ID	PUT	`/v1/commons/hours_operation_override/{id}`
Common Resources	Hours of Operation Overrides	Update Hours of Operation Overrides	POST	`/v1/commons/hours_operation_override/multi_update`
Common Resources	Hours of Operation Overrides	Delete Hours of Operation Override by ID	DELETE	`/v1/commons/hours_operation_override/{id}`
Common Resources	Hours of Operation Overrides	Delete Hours of Operation Overrides	POST	`/v1/commons/hours_operation_override/multi_delete`
Common Resources	Hours of Operation Override Assignments	Retrieve Hours of Operation Override Assignment	GET	`/v1/commons/hours_operation_override_assignments`
Common Resources	Hours of Operation Override Assignments	Retrieve Hours of Operation Override Assignments	POST	`/v1/commons/hours_operation_override_assignments/multi_read`
Common Resources	Hours of Operation Override Assignments	Create or Update Hours of Operation Override Assignments	POST	`/v1/commons/hours_operation_override_assignments/multi_upsert`
Common Resources	Hours of Operation Override Assignments	Delete Hours of Operation Override Assignments	POST	`/v1/commons/hours_operation_override_assignments/multi_delete`

Domain	Resource	Operation	Method	URL endpoint
Common Resources	Hyperfind > Hyperfind Queries	Retrieve Hyperfind Query by ID	GET	`/v1/commons/hyperfind/{id}`
Common Resources	Information Access > Data Dictionary	Update or Create Data Elements	POST	`/v1/commons/data_dictionary/data_elements/multi_upsert`
Common Resources	Information Access > Data Dictionary	Retrieve Time Increments	GET	`/v1/commons/data_dictionary/time_increments`
Common Resources	Information Access > Entity Definitions	Retrieve All Entity Definitions	GET	`/v1/commons/entity_definitions`
Common Resources	Information Access > Entity Definitions	Retrieve Entity Definition by ID	GET	`/v1/commons/entity_definitions/{id}`
Common Resources	Information Access > Entity Definitions	Retrieve Entity Definitions	POST	`/v1/commons/entity_definitions/multi_read`
Common Resources	Information Access > Entity Definitions	Create Entity Definition	POST	`/v1/commons/entity_definitions`
Common Resources	Information Access > Entity Definitions	Create Entity Definitions	POST	`/v1/commons/entity_definitions/multi_create`
Common Resources	Information Access > Entity Definitions	Create or Update Entity Definitions	POST	`/v1/commons/entity_definitions/multi_upsert`
Common Resources	Information Access > Entity Definitions	Update Entity Definition by ID	PUT	`/v1/commons/entity_definitions/{id}`
Common Resources	Information Access > Entity Definitions	Update Entity Definitions	POST	`/v1/commons/entity_definitions/multi_update`
Common Resources	Information Access > Entity	Delete Entity Definition by ID	DELETE	`/v1/commons/entity_definitions/{id}`

Domain	Resource	Operation	Method	URL endpoint
	Definitions			
Forecasting	Budget Distribution Types	Retrieve All Budget Distribution Types	GET	`/v1/forecasting/budget_distribution_ types`
Forecasting	Forecasting Category Profiles	Retrieve All Forecasting Category Profiles, Only Active, or by Name	GET	`/v1/forecasting/category_profiles`
Forecasting	Forecasting Category Profiles	Retrieve Forecasting Category Profile by ID	GET	`/v1/forecasting/category_profiles/{id}`
Forecasting	Forecasting Category Profiles	Retrieve Forecasting Category Profiles	POST	`/v1/forecasting/category_ profiles/multi_read`
Forecasting	Forecasting Category Profiles	Create Forecasting Category Profile	POST	`/v1/forecasting/category_profiles`
Forecasting	Forecasting Category Profiles	Create Forecasting Category Profiles	POST	`/v1/forecasting/category_ profiles/multi_create`
Forecasting	Forecasting Category Profiles	Update Forecasting Category Profile by ID	PUT	`/v1/forecasting/category_profiles/{id}`
Forecasting	Forecasting Category Profiles	Update Forecasting Category Profiles	POST	`/v1/forecasting/category_ profiles/multi_update`
Forecasting	Forecasting Category Profiles	Delete Forecasting Category Profile by ID	DELETE	`/v1/forecasting/category_profiles/{id}`
Forecasting	Forecasting Category Profiles	Delete Forecasting Category Profiles	POST	`/v1/forecasting/category_ profiles/multi_delete`
Forecasting	Category	Create or Update	POST	`/v1/forecasting/category_property_set_`

Domain	Resource	Operation	Method	URL endpoint
	Property Set Assignments	Category Property Set Assignments		`assignments/multi_upsert`
Forecasting	Category Property Set Assignments	Delete Category Property Set Assignments	POST	`/v1/forecasting/category_property_set_assignments/multi_delete`
Forecasting	Category Property Set Assignments	Delete Category Property Set Assignments	POST	`/v1/forecasting/category_property_sets`
Forecasting	Category Property Sets	Create Category Property Set	POST	`/v1/forecasting/category_property_sets/multi_create`
Forecasting	Category Property Sets	Create Category Property Set	POST	`/v1/forecasting/static_driver_assignments`
Forecasting	Static Driver Assignments	Retrieve Static Driver Assignments by Category	GET	`/v1/forecasting/static_driver_assignments`
Forecasting	Static Driver Assignments	Retrieve Static Driver Assignments	POST	`/v1/forecasting/static_driver_assignments/multi_read`
Forecasting	Static Driver Assignments	Create Static Driver Assignments	POST	`/v1/forecasting/static_driver_assignments/multi_create`
Forecasting	Static Driver Assignments	Delete Static Driver Assignments	POST	`/v1/forecasting/static_driver_assignments/multi_delete`
Forecasting	Volume Forecast Model Types	Retrieve All Volume Forecast Model Types	GET	`/v1/forecasting/volume_forecast_model_types`
Healthcare Analytics	HCA Payroll Department Mappings	Retrieve All Payroll Department Mappings	GET	`/v1/hca/payroll/department_maps`
Healthcare Analytics	HCA Payroll Department Mappings	Create or Update Payroll Department Mappings	POST	`/v1/hca/payroll/department_maps/multi_upsert`
Healthcare Analytics	HCA Analytics Employment Status Mappings	Retrieve All Analytics Employment Status Mappings	GET	`/v1/hca/payroll/employment_status_maps`

Domain	Resource	Operation	Method	URL endpoint
Healthcare Analytics	HCA Analytics Employment Status Mappings	Create or Update Analytics Employment Status Mappings	POST	`/v1/hca/payroll/employment_status_maps/multi_upsert`
Healthcare Analytics	HCA Payroll Job Mappings	Create or Update Payroll Job Mappings	POST	`/v1/hca/payroll/job_maps/multi_upsert`
Healthcare Analytics	HCM Payroll Aggregation	Retrieve Payroll Data for HCM	POST	`/v1/hcm/payroll/data/apply_read`
Platform > Workflow	Workflow Business Processes	Retrieve Business Process	GET	`/v1/platform/workflow/business_processes`
Platform > Workflow	Workflow Business Processes	Execute Business Process	POST	`/v1/platform/workflow/business_processes/execute`
Platform > KPI Framework	Mapping Categories	Retrieve All Mapping Categories	GET	`/v1/platform/analytics/mapping_categories`
Platform > KPI Framework	Mapping Categories	Retrieve Mapping Category by ID	GET	`/v1/platform/analytics/mapping_categories/{id}`
Platform > KPI Framework	Mapping Categories	Create Mapping Category	POST	`/v1/platform/analytics/mapping_categories`
Platform > KPI Framework	Mapping Categories	Update Mapping Category by ID	PUT	`/v1/platform/analytics/mapping_categories/{id}`
Platform > KPI Framework	Mapping Category Types	Retrieve All Mapping Category Types or by Name	GET	`/v1/platform/analytics/mapping_category_types`
Platform > KPI Framework	Mapping Category Types	Retrieve Mapping Category Type by ID	GET	`/v1/platform/analytics/mapping_category_types/{id}`
Scheduling	Workload Coverage	Evaluate Workload Coverage Details	POST	`/v1/scheduling/workload_coverage/workload_coverage_`

Domain	Resource	Operation	Method	URL endpoint
				`details/multi_read`
Scheduling Setup	Schedule Rule Sets	Create Rule Set	POST	`/v1/scheduling/workload_coverage/workload_coverage_details/multi_read`
Scheduling Setup	Schedule Rule Sets	Update Rule Set by ID	PUT	`/v1/scheduling/schedule_rule_sets`
Scheduling Setup	Schedule Rule Sets	Delete Rule Set by ID	DELETE	`/v1/scheduling/schedule_rule_sets/{ruleSetId}`
Scheduling Setup	Schedule Rule Set Location Assignments	Retrieve All Rule Set Location Assignments	GET	`/v1/scheduling/schedule_rule_sets/location_assignments`
Scheduling Setup	Schedule Rule Set Location Assignments	Retrieve Rule Set Location Assignment by ID	GET	`/v1/scheduling/schedule_rule_sets/location_assignments/{id}`
Scheduling Setup	Schedule Rule Set Location Assignments	Create or Update Rule Set Location Assignments	POST	`/v1/scheduling/schedule_rule_sets/location_assignments/multi_upsert`
Scheduling Setup	Schedule Rule Set Location Assignments	Create or Update Rule Set Location Assignment	PUT	`/v1/scheduling/schedule_rule_sets/location_assignments`
Scheduling Setup	Schedule Rule Set Location Assignments	Delete Rule Set Location Assignment by ID	DELETE	`/v1/scheduling/schedule_rule_sets/location_assignments/{id}`
Scheduling Setup	Schedule Rule Set Location Assignments	Delete Rule Set Location Assignments by Rule Set	POST	`/v1/scheduling/schedule_rule_sets/location_assignments/apply_delete`
Scheduling Setup	Schedule Rule Set Location Assignments	Delete Rule Set Location Assignments	POST	`/v1/scheduling/schedule_rule_sets/location_assignments/multi_delete`
Timekeeping	Absence Spans	Retrieve Absence Spans	POST	`/v1/timekeeping/absence_spans/multi_read`
Timekeeping	Timekeeping Setup Fixed	Retrieve Fixed Rule by ID	GET	`/v1/timekeeping/setup/fixed_rules/{id}`

Domain	Resource	Operation	Method	URL endpoint
	Rules			
Timekeeping	Timekeeping Setup Fixed Rules	Create Fixed Rule	POST	`/v1/timekeeping/setup/fixed_rules`
Timekeeping	Timekeeping Setup Fixed Rules	Delete Fixed Rule by ID	DELETE	`/v1/timekeeping/setup/fixed_rules/{id}`
Timekeeping	Timekeeping Setup Pay Rules	Retrieve Pay Rules	POST	`/v1/timekeeping/setup/payrules/multi_read`
Timekeeping	Timekeeping Setup Pay Rules	Create Pay Rule	POST	`/v1/timekeeping/setup/payrules`
Timekeeping	Timekeeping Setup Pay Rules	Create Pay Rules	POST	`/v1/timekeeping/setup/payrules/multi_create`
Timekeeping	Timekeeping Setup Pay Rules	Update Pay Rule	PUT	`/v1/timekeeping/setup/payrules/{id}`
Timekeeping	Timekeeping Setup Pay Rules	Update Pay Rules	POST	`/v1/timekeeping/setup/payrules/multi_update`
Timekeeping	Timekeeping Setup Pay Rules	Delete Timekeeping Setup Pay Rule by ID	DELETE	`/v1/timekeeping/setup/payrules/{id}`
Timekeeping	Timekeeping Setup Pay Rules	Delete Timekeeping Setup Pay Rules	POST	`/v1/timekeeping/setup/payrules/multi_delete`

Release Notes versions

The R5 version naming convention has been updated as follows to provide more straightforward messaging about R5 release content vs. post-R5 release updates:

Previous version name	New version name
R5.0	**R5 EVL**
R5.1.0	**R5 Preview**
R5.2.0	**R5 Preview Update 1**
R5.4.0	**R5**

Release documentation is detailed as follows:

- This document provides information about Workforce Dimensions R5.

- Update Summaries contain information about R5 Updates (for example, Updates 1 and 2).

- Express Upgrades (for example, R5 Express Upgrade 1) will be listed in the document of the release they apply to: either the Release Notes or an Upgrade Summary. Express Upgrades have their own sections in either the "Resolved Issues" or "What's New" section.

International and customization considerations

Besides US English, Workforce Dimensions provides translation of the application into five additional languages:

- Czech

- Dutch

- French

- French Canadian

- German

- Japanese

- Spanish (Mexico)

- UK English

To change the user interface to one of these languages:

1. Go to **Administration** > **Application Setup** from the Main Menu.

2. From the Application Setup page, select **System Configuration** > **Locale Policy**. The **Locale Policy** page contains regional settings (language locale, date format, number format, and currency format) that can be assigned as the tenant default or to individual users. The users' settings take precedence over the default setting for the tenant default settings. Users see the user interface in the language and regional settings assigned to them in their locale policy. The locale policy is assigned to users in **People Information**.

3. To change the default setting, select one of the listed languages in the **Tenant Default** column.

4. To have one or more languages selectable from the logon page, select the applicable languages from the **Selectable at Logon** column.

   Users can then change their locale profile by clicking one of the options on the logon screen. The new locale profile is valid only during the logon session.

5. To assign different languages for people to select at logon:

   a. Go to **Maintenance** > **People Information** from the Main Menu.

   b. Select **Access Profiles** and then select a Locale Policy from the **Locale Policy** drop-down list.

Translation and customization

In addition to the translations provided, you can translate and customize the user interface using a language or terminology that is familiar to your users. From the Translation Support - Locale Support page, you can:

- Extract, customize and import text strings used by the user interface.

- Extract the text strings to Excel.

- Extract text strings from selected domains of the product (for example, Timekeeping, Scheduling).

- Extract text strings in their context (for example, exceptions).

- Use find and replace functionality when editing individual property files.

For example, you want to change the name of "Employee Timecards" to "Associates Timecards."

1. On the Translation Support - Locale page:

   a. Select **English** as the baseline language and specify the **United States** as the country.

   b. Select the **Timekeeping** domain and then select the **wtk_web-timekeeping_timecard_ strings.propertie**s group.

   c. Click **Export**.

2. Open the downloaded **en_US.xls** file and locate the **html5.timecard.pages.title** key, then enter **Associates Timecards** in the TRANSLATED_VALUE column and save the file.

3. On the Translation Support - Locale page, click **Import**, then click **Choose File** and locate the **en_US.xls** file in the download folder. Click **Upload**.

4. Navigate to the Employee Timecards page, and verify that the title is now Associates Timecards.

Implementation considerations

Because Workforce Dimensions is hosted in the cloud, implementation considerations are minimal, but you should be aware of the following:

Workforce Dimensions device-specific support

Workforce Dimensions can be accessed through browsers on desktop and laptop computers as well as through tablets and mobile devices such as smartphones.

Desktop requirements

	CPU	Memory
Recommended for best performance	4 Core Intel i7 2.3GHz or equivalent	16 GB
Minimum	2 Core Intel i5u 1.9GHz or equivalent	4 GB

Browser support by operating system

Browser	Windows 7	Windows 10	OSX	iOS	Android
Microsoft Edge		✓	NA		
Internet Explorer 11	✓	✓			
Chrome	✓	✓	✓		✓*
Safari			✓	✓	
Firefox	✓	✓			

* Android includes phones and Zebra TC51/TC52 devices.

> **Notes:**
> - Browser support is for the latest version of the browser available for download, unless otherwise noted.
>
> - Some pages (Administrative and Maintenance) are unavailable when viewing on screen sizes typically associated with a mobile phone (less than 768 pixels wide).

- Touch-screen gestures are supported on screen sizes typically associated with tablets and mobile phones (up to 1280 pixels wide).

Mobile app: minimum operating system support by device type

- **Android**
    - Phones with Google Services support v5.1 or greater
    - Zebra TC51/TC52 with Google Services Support v5.1 or greater
- **iOS**
    - iPad and iPhone: iOS version 11.3 or greater
- **iPadOS**
    - iPadOS version 11.3 or greater

Workforce Dimensions supported data-collection devices (terminals)

Workforce Dimensions supports the following devices:

Device Type	Part Number	Software/Firmware required
Kronos 4500	8602000-0xx	Not supported
Kronos 4500	8602004-xxx	02.03.16 - 2.X.X*
Kronos 4500	8602800-0xx through -499	02.03.16 - 2.X.X*
Kronos 4500	8602800-500 through -999	03.00.18, 03.00.20 and greater (03.00.19 is not supported)
Kronos InTouch	8609000-xxx	02.02.02 and greater
Kronos InTouch	8609100-xxx	03.00.02 and greater

*Server Initiated Communication via VPN Required.

Use Workforce Dimensions from the keyboard or screen reader

Workforce Dimensions can be accessed from the keyboard or a Non-Visual Desktop Access (NVDA) screen reader. The online help includes component-specific guidelines.

General components

The Workforce Dimensions user interface contains a number of elements and controls. Accessibility recommendations include the following:

- **Glances** – Press the spacebar on a cell within timecard, Dataviews, leave and attendance, and scheduling to access a glance. You can use this option as an alternative to navigating from the action bar above the grid.

- **Grids** – When navigating through the grids, press the up-arrow key when in the first cell in the first row followed by Shift + Tab to exit the grid so you can access other components.

- **Slide-out panels** – For the best results with NVDA, access form elements and activate secondary slide-out panels, tab through the slide-out panels in focus mode and access read-only content in browse mode.

  Note that in some slide-out panels, using the Tab key (instead of arrow keys) to navigate through a list is the only way to select one or more options. Also, some radio buttons and check boxes can only be accessed using the Tab key, which will automatically populate the selection.

  - **Combo boxes** – Some combo boxes within slide-out panels can only be opened using the Enter key and options can be selected by using arrow or tab keys and pressing Enter to collapse the list.

  - **Check boxes** – You can navigate some check boxes and radio buttons by pressing either the Tab or arrow keys and using space to select and unselect options on slide-out panels.

- **Hyperfind** – When selecting locations in a Hyperfind, press the left arrow when focused on the drop-down list to delete a selection.

- **Drop-down menus** – On some drop down menus, there is a column header that is announced as a button when using NVDA; however, this is not an actionable element.

Refine slide-out panels

- The best way to filter, group, or calculate information when using NVDA is to press space or Enter on the **Refine** button.

- Press Tab to access the tab index of filtering types and use the left and right arrow keys to select.

- Press Tab to access the **Search** input field.

- Press Tab to access the list of filtering options.

- Use the up and down arrow keys to progress through the list of filtering options.

- Press space to expand the accordion options.

- Press Tab to access the options list and use arrow keys and press Enter to select and collapse the accordion.

- Press Tab to access the **Cancel** and **Apply** buttons and press space or Enter to modify a Dataview.

> **Note:** There might be only one filter type on some Refine panels. The **Delete** button clears the last filter applied; this is not announced by NVDA.

Information access

When tabbing through the column headers of the Dataview Library, the submenus contain options that can sort or calculate. When you select the sum or average options, the result appears on the column header title area. Press Shift + Tab to access this information.

> **Note:** NVDA may announce currency and time as it is displayed on the screen along with the column header title to indicate amount designation.

Leave and attendance

The **View** button located on the My Calendar and Calendar from the Attendance details page can be activated with only the Enter key and tabbing to navigate to the view options.

Scheduling

The **View** button, which is located on the **My Information** > **My Calendar** and **Calendar** from the Scheduling page, can be activated only with the Enter key and tabbing to navigate to the view options.

For optimum NVDA or keyboard results, access schedules in table view by pressing space or Enter on the **Table View** button

> **Note:** The current view is not announced when using NVDA. If the button for switching views says "table view," the inaccessible Gantt view is currently being displayed. Press space on this button to display the accessible table view; the button will say "Gantt view."

When tabbing through the week day column heads within the Schedule Planner grid, tabbing leads to the first shift within the table instead of the first column or check boxes or the second column of employee names. Use the left arrow to access this information.

When you are in the employee name column, press the left arrow to select or unselect all rows. Pressing the right arrow navigates back to the employee name column header and submenu.

When activating the **Quick Action** button, press Shift + Tab to navigate to the first option in the list that appears to the left of this button.

> **Note:** The Quick Actions menu and application to schedule shifts is not currently recommended when using NVDA. Using the glance menus while in the Schedule Planner grid accomplishes the same tasks.

When accessing events and requests in My Calendar or the calendar in general, the events and requests sometimes display the hour amount before the information and the hour amount after the actual event/request content. If using NVDA, these hour totals may be announced as times.

Swap shift slideout panel

1. From the Main Menu, go to **My Information**> **My Calendar**.

2. Tab to the **New Request** button on the action bar.

3. Select **Swap** to activate the Request Shift Swap slideout panel.

4. Select **Swap Auto Approve** or **Swap Manager Approve**.

5. Tab to **Apply** to open a secondary slider

6. If you are using NVDA, switch to browse mode to select a shift by using the tab and arrow keys or by pressing **H** to get to day headings from the list of options

> **Notes:** There are two buttons that can be selected. One button contains the shift duration and the other button contains details about the shift. Tab to **OK** to escape out of the Shift details button to return to the Select Shift slideout panel.

7. Select a shift by pressing space on the **Shift Duration** button. A secondary panel opens that contains a **Comment** button and a listing of available shifts to swap. There is also a drop down to select specific employees.

8. Press space on the desired **Shift Duration** button to automatically place focus on the **Submit** button and then press **Enter**. A slideout panel containing the details of the request is displayed. You can cancel by pressing **Enter** on the **Cancel Request** button or you can confirm the request by pressing the **OK** button, which closes the slideout panel

9. The employee whose shift was selected will see a notification in the Control Center where it can be approved or refused.

> **Note:** Press **Cancel** or **Escape** at any time during the request process to close out of this panel.

Timekeeping

For the best results with NVDA, you access the timecard in list view. The **Accruals** and **Totals** add-ons also display in a list view if this view is selected.

Use the **Tab** key to navigate through the list and press space or **Enter** on the **More Details** button to open a side panel that contains detailed information pertaining to the specific employee and date.

> **Note:** NVDA announces time and hours the same especially when using the 24-hour clock.

Additional accessibility notes

Hyperfind selector – Except for the button associated with the ad hoc option, you can access the Hyperfind selector using the keyboard with NVDA. Currently, the Hyperfind editor that can be accessed from the Hyperfind selector is not optimized for NVDA and keyboard users.

People Information – The People Information component is not recommended for use with NVDA at this time.

Schedule Planner – The Schedule Planner grid is not currently announcing row and column headers when using NVDA. Using the arrow keys is the best method for accessing this grid.

Documentation modifications for R5

No documentation modifications were made for R5.

Known Issues

Mobile App

FLC-74478

When iOS users perform a GoTo or Tap action on a mobile notification, the redirect to the appropriate module is successful, but the appropriate item isn't highlighted in the module.

iOS Dark Mode

On Apple mobile devices, iOS 13 introduced a Dark Mode with a color scheme that uses light-colored text, icons, and other graphical elements on a dark background.

At this time, the mobile app will not display the "reversed" color scheme of Dark Mode. However, the app will operate correctly otherwise.

Resolved issues

R5 Express Upgrade 8 (12/4/19)

The issue(s) below were resolved for the R5 EU 8.

Forecasting

FLC-77452/ | When the Volume Forecast was run as a batch job at the Group Level, for a Store that inherits its
WFD-6541 | Special Events assignments from the Rollup Type level in the Business Structure, the resulting Volume Forecast for the Store did not correctly forecast for the special event.

Platform

FLC-77667/ | An API node experienced an error when attempting to run a payroll extract during certain hours
WFD-6585 | (for example, 4pm - 7:15pm EST).

R5 Express Upgrade 7 (11/27/19)

The issue(s) below were resolved for the R5 EU 7.

Integration Hub

FLC-77200/ | Users were unable to select and copy and paste the contents from Transaction Assistant to an
WFD-6497 | Excel spreadsheet to store them for auditing purposes.

Platform

FLC-72507/ | A timeout occurred when there was a large number of records in workflow instances
WFD-5497 | (**Administration >Business Processes > Instances** tab).

Scheduler

FLC-76962/ | In the Schedule, when right-clicking an open shift, selecting Call List, and selecting a procedure
WFD-6443 | set, the system runs a few seconds and then the following error appeared:

"Some Unknown Error Occurred. Error Details Not Available."

FLC-75055/ | When running multiple API post requests to `/api/v1/scheduling/staffing_`
WFD-5980 | `assistant/apply_read` one right after the other, one of them often failed with the following error:

'The execution of "com.kronos.scheduling.schedulegeneration.pse.business.engine.PSEEngine\" failed. Some Unknown Error Occurred. Error Details Not Available.'

FLC-69945/ Employees were not inheriting schedule group patterns (the schedule from their Schedule
WFD-5013 Group).

Timekeeper

FLC-74200/ When viewing a timecard with the Previous Pay Period timeframe selected, some overtime that
WFD-5835 should have appeared as Unpaid Time appeared as Unapproved Overtime. When the date range
was selected for the same timeframe as the Previous Pay Period, then the overtime hours
appeared correctly as Unpaid Time.

FLC-72775/ When attempting to add a break on the automated break placement tab in a Work Rule, the
WFD-5550 following error appeared upon saving the Work Rule itself:

"Exception with template "nlink":

javax.servlet.jsp.JspException: javax.servlet.ServletException: javax.servlet.jsp.JspException:
Define tag cannot set a null value"

R5 Express Upgrade 6 (11/20/19)

The issue(s) below were resolved for the R5 EU 6.

Forecasting

FLC-74755/ When a store was set to use the Machine Learning Category Property Set, the Volume Forecast
WFD-5944 at the Store level for the Sales Volume Driver was very high (over 2 million in Sales). It was
expected that more normalized numbers in the thousands would be generated for the Volume
Forecast, such as the numbers generated with Daily Trend.

Key Performance Indicators

FLC-72062/ A Dataview showed unexpected data when the Time Period was Previous Pay Period (for
WFD-5377 example, costs and values in the Store Totals Dataview when none should appear).

Platform

FLC-76618/ When deploying a node, the following error appeared in the logs, and this was causing Smart
WFD-6368 Views to fail:

"Failed to load Cache for class
com.kronos.commonapp.authz.impl.fap.controlpoints.AccessControlPointCache null"

Users needed to restart the node to resolve this issue.

FLC-75369/ When viewing an employee accrual profile in English, it correctly showed the end Date as
WFD-6023 "Forever". When viewing the same Employee in Spanish, the accrual profile end date was shown
as today's date.

Scheduler

FLC-71352/   Certain server requests were causing high CPU usage, resulting in poor performance.
WFD-5257

Timekeeper

FLC-76087/   While running payroll, values for shift paycodes for some employees appeared double the amount
WFD-6261   of the actual value. In addition, negative values of the same amount as the inflated shift paycodes appeared on the Historical Corrections tab.

FLC-73466/   When users punched in two hours past their scheduled start time, the shortfall adjustment pay
WFD-5705   code is triggered, but it was not added to daily total, and regular hours were cut short in the timecard view for the next scheduled period.

FLC-73385/   For an employee whose pay rule restricted sign-off if there were missing punches, sign-off was
WFD-5665   restricted from the timecard, but sign-off was not restricted from a Dataview.

FLC-68758/   (This issue was resolved for Workforce Dimensions R4.11.0. See the Resolved Issues in the
WFD-4806   *Workforce Dimensions R4.11.0 Update Summary* for details.)

R5 Express Upgrade 5 (11/13/19)

The issue(s) below were resolved for the R5 EU 5.

Attendance

FLC-73693/   Scheduled Integrations were intermittently not running; they could not be seen in Workforce
WFD-5747   Dimensions or Boomi.

Integration Hub

FLC-73479/   The Override Date value within Person's Dates (**People Information > Persons > Person's**
WFD-5711   **Dates > Override date**) were not being returned in the Person Extensions API response.

Platform

FLC-76192/   When attempting to delete a custom report, the following error appeared:
WFD-6273
  "Error report can't be deleted from the server."

Timekeeper

FLC-76937/   Totalizer blocking was causing the healthCheck response time to be greater than 60 seconds for
WFD-6440   tenants.

FLC-76006/   The overtime hours calculation showed an incorrect decimal value in the Totals tab. When the
WFD-6250   display profile was changed to show the totals in minutes, the calculation was correct in the Totals tab.

FLC-75605/   Timecard totals were incorrect based on time period selected, showing unexpected overtime due
WFD-6134   to the paycode type not being calculated correctly.

FLC-73693/   Scheduled Integrations were intermittently not running; they could not be seen in WFD or Boomi.
WFD-5747

Integration Hub

FLC-73479/   The Override Date value within Person's Dates (**People Information > Persons > Person's**
WFD-5711   **Dates >Override date**) were not being returned in the Person Extensions API response.

Platform

FLC-76192/   When attempting to delete a custom report, the following error appeared:
WFD-6273

"Error report can't be deleted from the server."

Timekeeper

FLC-76006/   The overtime hours calculation showed an incorrect decimal value in the Totals tab. When the
WFD-6250   display profile was changed to show the totals in minutes, the calculation was correct in the Totals
tab.

R5 Express Upgrade 4 (11/6/19)

The issue(s) below were resolved for the R5 EU 4.

Platform

FLC-75659/   The following error appeared when the v1/commons/symbolicperiod API was invoked:
WFD-6145

"GTW-ERROR-001 appkey not found in Header or it's not correct."

Scheduler

FLC-73678/   When configured to use all steps in approval settings, the manager from step level one was able to
WFD-5740   approve a request twice, effectively bypassing the need for the level two manager.

FLC-73317/   When a location was loaded in the Schedule Planner for any date range, and then users selected
WFD-5657   the HPPD - Hours per Patient Day metric in the Metrics add-on, the metrics did not load and the
following error appeared:

"Some Unknown Error Occurred. Error Details Not Available."

Timekeeper

FLC-73234/   When viewing a signed-off timecard with the previous pay period selected, when users clicked the
WFD-5643   Remove Sign-Off option, the following error appeared:

"Error Previous sign-off has not yet completed."

R5 Express Upgrade 3 (10/30/19)

The issue(s) below were resolved for the R5 EU 3.

Scheduler

FLC-75419/ *WFD-6094* Schedule Patterns that were assigned to Schedule Groups were not visible on the Schedule Pattern Page. When users attempts to edit a shift or add a new pattern, there were duplicate shifts as a result of this issue.

FLC-64698/ *WFD-4029* In **Schedule Setup > Pattern Templates**, when administrators attempted to add a paycode to a new pattern template, the Add Paycode panel was intermittently blank and there were no options available for selecting paycodes.

Timekeeper

FLC-75289/ *WFD-6058* There were projected punches (schedule times) in the timecard when there should not be; the pay rule was configured not to transfer schedule times to the timecard, and the "Display Projected Punches" setting was set to disallowed.

FLC-74490/ *WFD-5431* After a timecard was approved, some punches inexplicably disappeared from the timecard, but still appeared in the Audit add-on.

FLC-74022/ *WFD-5808* (See the FLC-72208 description in R4.11.0 EU 2.)

FLC-72690/ *WFD-5540* Previously, the only way to disallow access to Employee Group configuration was to disallow access to the Organizational Set Editor access control point (ACP) in the Function Access Profile (FAP). A new ACP (Employee Group setup) is now available to allow or disallow access to Employee Group configuration. The default value for this ACP is disallowed for all actions. Upon upgrade, if the Organizational Set Editor ACP is set to allowed for a FAP, then the new Employee Group setup ACO will also be set to allowed.

R5 Express Upgrade 2 (10/23/19)

The issue(s) below were resolved for the R5 EU 2.

Scheduler

FLC-71631/ *WFD-5330* When an employee had a primary job assignment change, shifts were being updated with transfers when the shift builder was run. The shifts should not have been updated with transfers as they were set to regular segments, and thus should be worked against the home employee's Primary Job Assignment as of that date.

FLC-71319/ *WFD-5234* When performing employee punches using Attestation, there were unknown work rule transfers being tied to the transactions. The expectation was that system-generated transfers would not be added for these transactions.

Timekeeper

FLC-75326/
WFD-6075

The People Import Interface failing when attempting to update an Adjustment Rule, and the following error appeared:

> "WCO-101235 - Exception: com.kronos.container.api.exception.APIException."

FLC-75136/
WFD-6021

Multiple customers within the AUS (PRD) stack were having intermittent login issues, which was affecting performance.

R5 Express Upgrade 1 (10/16/19)

The issue(s) below were resolved for R5, EU 1.

Scheduler

FLC-72412/
WFD-5473

When running the Location Schedule Detail - Weekly report for a specific location, the following error appeared:

> "Error WFP-116072 The specified location selection is below the level at which the report is summarized. Choose a location at or above Job."

FLC-71332/
WFD-5233

When a delegated manager added a paycode in the schedule when the Override Shift option was checked, the following error appeared:

> "You do not have [paycode] In your job transfer set."

R5 (10/17/19)

The issues below were resolved for R5.

Attendance

FLC-72736/
WFD-5536

When deleting a comment associated with an Attendance event, the error displayed did not describe the issue.

FLC-72199/
WFD-5427

When an employee had a written or verbal Attendance warning, the "Has Document" indicator was not displayed.

Common Business

FLC-71596/
WFD-5319

The upload of the translation setup data file failed with the following error:

"Some Exception Occurred While Processing File"

Common Components

FLC-72681/
WFD-5530

From the **Time Off Request tile > Advanced options**, selecting a date in the calendar with one click did not select the date. It required two clicks before it was properly selected.

FLC-71345/ | After removing the Request category from the Comments configuration, the Comments drop-
WFD-5246 | down list and the Note field were still available in time-off requests (TORs).

Configuration App

FLC-72579/ | In Setup Data Manager (SDM), when Locations were exported to a file or imported into a tenant
WFD-5502 | incorrectly by checking the box next to Business Structure Locations, instead of using the Select
Locations pop-up window, the following error appeared upon selecting Publish:

"SDM-10014: Could not export data from source."

Subsequently, the job could be seen in Publish History with a status of In Progress. However, the status did not appear to update beyond this point.

Forecasting

FLC-72512/ | When the `/api/v1/forecasting/actual_volume/import` API was called to import
WFD-5480 | Point of Sale (POS) data, the response it returned was: "Error: Incorrect number of interval
amounts was specified. Expected size: 96" even though the interval amounts that were provided
the API call added up to 96.

Integration Hub

FLC-72221/ | The Hyperfind parameter in an integration reverted to All Home Locations when users opened the
WFD-5441 | parameter. Hyperfind selection has been corrected so that it does not change when you open the
parameter; it remains static until users purposely change it.

FLC-70362/ | Integration runs, including runs within integration sets, were not listing consistently and correctly
WFD-5075 | display the default Hyperfind.

Key Performance Indicators

FLC-68120/ | Retry logic was causing KPI request events to take days to be processed.
WFD-4697

Leave

FLC-72067/ | When users submitted a Long Service Leave Request from **My Time Off tile > Advanced**
WFD-5409 | **Options**, an error appeared and the request was not submitted.

FLC-71888/ | The Leave Category Name field allowed the use of reserved characters.
WFD-5368

Platform

FLC-72495/ | The "Stop Process Engines" and "Restart Process Engines" process manager events were not
WFD-5490 | intended for the Workforce Dimensions application and have since been removed.

FLC-72047/ | Currency codes were not sorted alphabetically, as they should have been.
WFD-5403

FLC-71564/ WFD-5302	Notifications in Control Center for the Delegation task used inconsistent date formats. For example, if the user profile specified the Australian Date format (DD/MM/YYYY), Delegation task notifications would use either the DD/MM/YYYY date format or the United States date format (MM/DD/YYYY).
FLC-71543/ WFD-5298	When called to return employee data the `/v1/commons/persons/extensions/multi_read` API returned the customDataType and customDataTypeId, but not the customText field, even though it was defined in the People Record.
FLC-71516/ WFD-5306	Many requests to run the process manager pool builder event were seen in the CFN environment even though that event was not relevant to the Workforce Dimensions application.
FLC-71064/ WFD-5191	When batch events were created to run in Event Manager from an account with logical access, they were created with an Error status and never run. This issue occurred when they were created with a Schedule Type of Once from an account with logical access.
FLC-70454/ WFD-5065	Emails for pay period-based notifications were not being sent to all designated managers. Some managers received the emails and some did not.
FLC-69688/ WFD-4974	Because no default time zone was set on a tenant, users could not log in. In the current implementation, a default time zone (usually UTC) will now be set on each tenant.
FLC-69640/ WFD-4967	Users were receiving a large number of notification Emails from the User Task (Task Listener) that concerned calls that were made by UDM.
FLC-69011/ WFD-4848	When the locale_policy_API was used with the userCurrent and tenantDefault query parameters, it returned incorrect results.
FLC-62629/ WFD-3625	The time of scheduled integration runs are now adjusted for daylight savings time. The integrations run 60 minutes earlier upon the spring time change, and 60 minutes later upon the autumn time change.

Scheduler

FLC-72800/ WFD-5559	When pattern templates that included comments were published from one tenant to another in Setup Data Manager (SDM), an "Invalid comment category" error appeared.
FLC-72671/ WFD-5528	When administrators edited a shift for a pattern template in **Application Setup > Scheduler Setup > Pattern Templates**, an error appeared when selecting a labor category for an employee transfer.
FLC-72589/ WFD-5493	When an employee submitted a half-day time-off request (TOR) with a day cascading paycode, the Amount Day value in the paycode edit was incorrectly shown as 1 day instead of as 0.5 day.
FLC-72417/ WFD-5464	The Update Certification Assignments (POST `/v1/commons/persons/certifications/multi_upsert`) API operation incorrectly incremented the expiration date of certification assignments by 1 instead of updating the expiration date to reflect the value passed in the request payload.
FLC-71619/ WFD-5327	When employees submitted a time-off request (TOR) from their My Time Off tile, they did not receive the expected overdraft limit error if their accrual balance was overdrawn.

FLC-71353/ WFD-5350	When manually-created shifts were copied and pasted on other days in the schedule, they were being overridden when the Schedule Generator was run, even though the "Treat Manually Created Shifts as Locked" option was configured in the Schedule Generation Strategy.
FLC-71255/ WFD-5236	The Workload Planner title did not appear as configured in Setup.
FLC-69236/ WFD-4894	After an employee's primary labor category was modified in the People Editor, the employee's regular shifts were incorrectly shown as transfers in the Schedule.
FLC-68939/ WFD-4851	After a workload was generated in the Workload Planner, the coverage did not appear in the Schedule Planner until the manager or administrator subsequently edited the generated workload plan manually.
FLC-68684/ WFD-4799	When submitting a time-off request (TOR), the following error appeared: "Some Unknown Error Occurred. Error Details Not Available."
FLC-68442/ WFD-4760	After enabling equalize hours in the Schedule Generation Strategy, hours for part-time employees were not equalized.
FLC-68077/ WFD-4693	When managers attempted to open the Current Schedule, the page took a long time to load and then "Error" was displayed at the top of the page.
FLC-68039/ WFD-4674	When a manager canceled an approved time-off request (TOR) from Control Center, the manager was prompted to restore the schedule. However, if an employee canceled the approved time-off request, and the manager approved the Cancel Submitted request, the manager was not prompted to restore the scheduled shift.
FLC-67709/ WFD-4612	When modifying the Start and End times of a shift, and then reassigning breaks, the breaks from previous assignments were being changed back to regular shift segments, but were not combined with similar adjacent regular shift segments. This resulted in multiple, short regular shift segments within a shift.
FLC-67532	Previously, in Control Center, users could select individual links to view a number of requests, such as Shift Swap, Open Shift, and Shift Swap. Now, they are all located under "My Requests".

Timekeeper

FLC-72861/ WFD-5568	When attempting to open a specific employee's timecard for any date range, the following error appeared: "Error 8482:null" In addition, the employee was excluded from the Background Processor (BGP) in system information.
FLC-72850/ WFD-5564	When a user that did not have a GDAP attempted to upload configuration from a file, the error message presented via SDM was not useful: "java.lang.NullPointerException - See log for details."
FLC-72784/ WFD-5552	After manager sign-off, multiple empty rows and an unexcused absence exception indicator appeared in the timecard.

FLC-72504/ WFD-5495	For a tenant that was initially configured with one labor category, after adding another labor category, person import integration was failing when attempting to assign primary labor categories.
FLC-72489/ WFD-5485	On mobile devices, an attestation button that navigates away from Punch Screen was not adding a punch to the timecard until users navigated back to the Punch tile.
FLC-72402/ WFD-5477	For adjustment rules with triggers that had the "Apply to any business structure that uses this job/location" option selected, after creating a new version of the adjustment rule, the "Apply to any business structure that used this job/location" option was no longer selected in the trigger.
FLC-72288/ WFD-5454	The Retrieve Timecards–Manager (POST `/v1/timekeeping/timecard/multi_read`) and Retrieve Data (/v1/commons/data_multi_read) API operations in some cases did not correctly return employee Timecard data.
FLC-72271/ WFD-5229	For a couple of employees, when attempting to open their timecards, one of the following error messages appeared: "Error 1110:null" or "Error 4260:null"
FLC-72176/ WFD-5426	Following an R4.10.0 patch, some users were unable to open other employees' timecards, and the following error appeared: "Error Either the query does not exist or you don't have permissions to execute the provided hyperfind."
FLC-72005/ WFD-5389	In the timecard, when deleting all of the punch rows for one day, after clicking Calculate Totals, an NGUI-00090 error appeared.
FLC-71681/ WFD-5335	In the timecard, when users right-clicked on the Amount cell for a duration paycode and selected Edit, after completing the edit and saving, the following error appeared: "Error NGUI-00090 Internal error. Please, contact your administrator."
FLC-71464/ WFD-5290	When submitting the API request "GET v1/commons/persons/extensions?person_number= *[person number]*", the response for "accessAssignmentDetailsDataEntries" included "canTransfer", which is not an option in People Information. The API documentation has been updated to note that this property does not have a function and always returns false.
FLC-71456/ WFD-5284	The people record time zone was being used to calculate an unscheduled shift length when the time zone for the in-punch should have been used. This resulted in a missed punch exception in the timecard when there should not have been an exception.
FLC-71450/ WFD-5276	When users added a filter to a Dataview (which corresponded to the Homepage Tile) and then returned to the Home page, the corresponding tile showed the following message: "No data to display."
FLC-71343/ WFD-5247	Weighted average overtime (WAOT) was not calculating as expected when the percent allocation rule used split allocation and the "Calculate and use highest rate option" was selected in the paycode definition.
FLC-71148/ WFD-5206	For managers with the function access control point (FAP) "Notes for comments in Timecard Editor" set to Disallowed, the following unrelated error message appeared when attempting to

approve overtime:

"Error: The logged in user does not have access to create notes."

FLC-70773/ WFD-5136	The Retrieve Timecard Data–Multiple Employees (POST `/v1/timekeeping/timecard_` `metrics/multi_read`) API operation incorrectly included "tktotalsid" in the JSON response structure generated for the Developer Portal.
FLC-70653/ WFD-5126	When viewing the Daily Exceptions - Scope Dataview, for a particular employee a missed out punch exception was listed even though the employee did not have any exceptions in their timecard for the selected timeframe.
FLC-70447/ WFD-5092	A Percent Allocation Rule Import Integration was run and completed successfully, but the amount of time required for the integration (more than 5 hours) was too long.
FLC-69439/ WFD-4943	A KPI scheduling job was calling the totalizer for 14 different people at the same time, resulting in poor performance.
FLC-68780/ WFD-4818	In the Timecard Exceptions Dataview, the Late In column still showed values even though the exceptions had been resolved in the timecard.

Universal Device Manager

FLC-72831/ WFD-5555	For Soft Key Settings in 4500 Device Profiles, users were unable to select an existing template when attempting to change the Soft Key Settings template.
FLC-72357/ WFD-5458	Custom labeling for Soft Key Settings did not allow foreign languages character to be saved.
FLC-71341/ WFD-5245	The Enrollment Verification column in a Dataview was not being updated with the correct value (a Boolean checkmark) after a Biometric Import loaded an employee with a biometric template on file.
FLC-71052/ WFD-5188	Employees were able to select a labor category transfer at the clock, but the following error appeared in the Transaction Assistant: "The labor category entry does not exist. Entry Name: '[number]." This prevented the transfer from being applied to the timecard.
FLC-70786/ WFD-5147	Users could not select device groups from the People Information user interface.
FLC-70542/ WFD-5104	The following error was reported in a specific environment: "index=**udm** host=**udm** sourcetype="**udm**" "**Too many open**" java.net.SocketException: Too many open files"

Document Revision History

Document Revision	Release Date
A	October 2019
B	October 2019
C	October 2019
D	October 2019
E	October 2019
F	October 2019
G	November 2019
H	November 2019
I	November 2019
J	November 2019
K	December 2019
L	December 2019