

Assumption: Daylight Saving Time (DST) time changes take place at 2:00 AM and do not impact activities that occur at midnight. Normal business activities are conducted and no tools such as DCA Autoloader (or other load tools) are being used. Task controller and service tasks are active.

Administration (Suite, Portal)

Activity / Business Scenario	One Hour Back - Impact	One Hour Ahead - Impact
Task Controller	High Impact – Service task cycle times measured < 1 hour will not run for an hour. Restart all service tasks after time change to establish new cycle times for short cycle time service task events.	No impact – Service tasks will run if next start date-time is reached
Portal - Time based charted parameters or displays	If time based, graphed data may be improperly displayed.	If time based, graphed data may be improperly displayed.
Portal - Calculations	Time based calculations will be off by an hour. For time based calculations less than an hour the result could be negative.	Time based calculations will be off by an hour.

Security and Audit (SA)

Activity / Business Scenario	One Hour Back - Impact	One Hour Ahead - Impact
Audit Trail Transactions	If an audit activity took place just before the roll back the write date-time could be listed sooner than the transaction date-time.	Low Impact – May be hour separation between write date-time and the transaction date-time.
Token Expiration	No impact	If the token expiration is set to less than 1 hour and the roll back occur after the token is created and the time the transaction occurs then transaction may fail due to an expired token.
Password Expiration – SA based and not domain accounts	Low Impact – based on day and not hour	No Impact

Documents (DCA)

Activity / Business Scenario	One Hour Back - Impacts	One Hour Ahead - Impacts
Document added to Repository and Routed but not Approved using a Change Request.	Review and Approval signatures in a multi-step routing process could result in earlier sign off date-times for later steps compared to earlier steps. Review and Approval signatures could be earlier than the Change Request Creation date-time.	No impact or date-time conflicts
Document Routed and Approved (but not Effective) using a Change Request.	If Approved in less than one hour since check in, the Approved date-time will be sooner than the Pending date-time. The Pending Approval signoffs may be before the Pending Review Signoffs.	No impact or date-time conflicts
Document Made Effective using a Change Request.	If Effective in less than one hour since check in, the Effective date-time will be sooner than the Approved date-time. In an extreme case a new version of a document could be rerouted in less than an hour.	No impact or date-time conflicts
Document Archived	If Archived in less than one hour since Effective, the Archived date-time will be sooner than the Effective date-time.	No impact or date-time conflicts
Email Notifications for Reviews, Approvals, or Originator notifications.	No impact – flags typically set in applications when mail sent. In some instances a second notification may be sent.	No impact – flags typically set in applications when mail sent.
Periodic Review Notifications	Low impact – flags typically set in applications when mail sent. In some instances a second notification may be sent.	No impact – flags typically set in applications when mail sent.
Printed documents with finite lifetime	Low impact- Documents printed for use with “Valid for 24 hours” or other watermark could be used for 1 hour longer.	Low impact- Documents printed for use with “Valid for 24 hours” or other watermark could be used for 1 hour less.
Create /Print Packages	The date-time of a printed package could be earlier than the date-time of the package creation.	No impact.
Reprint Package	The date-time of a reprinted package could be earlier than the date-time of the package print or creation.	No impact
Package overlay parameters	Date-time overlay parameters that are based on server time.	No Impact, unless calculations are performed
VBS Transaction background events	Time based events may be impacted based on triggers	Time based events may be impacted based on triggers

Training (TD)

Activity / Business Scenario	One Hour Back - Impacts	One Hour Ahead - Impacts
Skills and Tasks Expiration	No impact – time based activities such as task and skill expiration are typically based on days rather than hours.	Low impact – tasks and skills could expire one hour sooner.
Email Notifications	No impact – flags typically set in applications when mail sent.	No impact – flags typically set in applications when mail sent.

Materials (MM)

Activity / Business Scenario	One Hour Back - Impacts	One Hour Ahead - Impacts
Inventory – time out of Refrigeration	If the time changes occur just before a material lot / container time out of refrigeration is set to expire the material could be out of refrigeration longer than allowed.	If the time changes occur just before a material lot / container time out of refrigeration is set to expire the material will expire immediately after the change.
Lot Expiration and retest	Low impact – expiration and retest is typically based on monthly to yearly basis. In extreme case the time could be turned back just before a lot expires or requires retest.	Low impact – expiration and retest is typically based on monthly to yearly basis. In extreme case the time could be turned forward just before a lot expires or requires retest allowing a additional hour before the re-statusing would occurs.
Create a new material Definition and Make Effective	Effective In date-time could be sooner than the creations date. Later versions of a material could have earlier dates.	No impact
Transaction History – Lot and Container	Transactions may appear of sequence with activities that occurred later actually having an earlier date-time stamp. For example, a material could appear to be statused before it was received.	No impact
VBS Transaction background events	Time based events may be impacted based on triggers	Time based events may be impacted based on triggers

Equipment (ET)

Activity / Business Scenario	One Hour Back - Impacts	One Hour Ahead - Impacts
Time-based events calculations	High Impact - Events that are generally < 1 hour in duration Medium to Low Impact - Events that are generally > 1 hour in duration	Variable Impact – Time based events will expire one hour sooner
VBS Transaction background events	Time based events may be impacted based on triggers	Time based events may be impacted based on triggers

Orders (MFG)

Activity / Business Scenario	One Hour Back - Impacts	One Hour Ahead - Impacts
Material Consumptions	In cases where intermediates from one process are used as inputs to another process the consumption could be listed as occurring before the creation of the intermediate.	No impact
Dispensing	Materials dispensed may have earlier date-times than the Process Order creation if the dispensing occurs less than one hour after order creation.	No Impact
Order Lifecycle	Order lifecycle activities and signatures may appear to be occurring out of sequence. Approval before Release, QC Review before Manufacturing Review, etc.	No impact
Transaction History – Order, Lot and Container	Transactions may appear out of sequence with activities that occurred later actually having an earlier date-time stamp.	No impact
VBS Transaction background events	Time based events may be impacted based on triggers	Time based events may be impacted based on triggers
Scheduler – Process Segments and actual cycle times	Actual date-times for serial Process Segments may have start date-times earlier than end date-times. Cycle, machine, and resource time calculations impacted.	Cycle, machine, and resource time calculations impacted.

Workflow (WF)

Activity / Business Scenario	One Hour Back - Impacts	One Hour Ahead - Impacts
Instruction Signoff	Instructions and activities that occur within one hour will have earlier dates.	No impact
Calculations	Time based calculations will be off by an hour. For time based calculations less than an hour the result could be negative.	Time based calculations will be off by an hour.
Repeating Parameters	In process date-time repeating parameters will be hour offset at time change	In process date-time repeating parameters will be hour offset at time change
Branching and jump rule instructions	Instructions and activities that occur within one hour will have earlier dates and may appear to be out of sequence.	No impact
In process time based charted parameters	If time based graphed data may be improperly displayed.	If time based graphed data may be improperly displayed.
Automatic Work Instructions (EBR Timer interval)	Medium Impact – Automatic work instructions are executed by a task in the Service Controller. See Core impacts.	Medium Impact – Automatic work instructions are executed by a task in the Service Controller. See Core impacts.