

DESCARTES™



RELEASE NOTES

Descartes® Dock Appointments Scheduling™

Version 20.06.0100

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Descartes® Dock Appointments Scheduling™ 20.06.0100

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The Descartes Systems Group Inc.

120 Randall Drive

Waterloo, Ontario Canada, N2V 1C6

Phone: 519-746-8110

Internet: <http://www.descartes.com>

Customer Support

In North America: 1-877-786-9339

Outside North America: +800 -7866-3390

email: servicedesk@descartes.com

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Introduction


Descartes® is pleased to announce the general availability of the Descartes Dock Appointments Scheduling™ 20.06.0100 release. Provided in the release notes below is a brief description of each enhancement and/or bug fix.

Document Conventions

This document uses the following conventions:

- Names of windows, frames, dialogs, menus, list boxes, and lists begin with uppercase and are bolded. (**Tools** menu, **Save** button)
- Key combinations that you press appear in mixed case. If the keys are joined by a plus sign (+), press and hold the first key simultaneously with the remaining keys (for example, Ctrl+Alt+Del).
- Cross-references to other sections within the current document appear as links. (See [Saving a File](#) for details.)
- Italics are used for emphasis throughout this document.

 **Note:** Information important to a particular task or function is introduced with the note format and icon.

 **Warning:** This warning format indicates information that users must heed. Ignoring information presented as a warning could lead to damage and unexpected results. Disregarding information presented as a warning may result in damage to your software or data.

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New Features and Enhancements

The following new features and enhancements were implemented in Descartes Dock Appointments Scheduling 20.06.0100.

20.06.0100

Template-M: Setting Added to Default Appointment Request Time to Beginning of Day - 707432

The **Default Appointment Requested Time to Beginning of Day** global setting has been added in Template-M. When enabled, this setting defaults the appointment request time to 00:00. This feature is intended to ensure that, when auto-scheduling is used, the distribution center's (DC) doors are booked starting from the early open hours.

Some carriers and suppliers are booking their appointments for the next day in the afternoon. In some cases, they do not pay attention to the time component of the date/time value in the “Requested Date” control, which is defaulted to the user's current time. So, these users may only adjust the requested date and submit their appointment requests, which are auto-approved to the exact requested time (or later if alternatives are offered). With this use pattern, the approved appointments can be highly clustered in the afternoon with very few requests in the morning. This setting was added to help address this issue.

The screenshot shows a web-based application window titled "Dock Appointments / Global Settings". The navigation bar includes tabs for "Distribution Centers", "Time Index", "Carriers", "Suppliers", "Global Settings", "Global Hours/Holidays Settings", "Global Notifications", and "Import Carriers/Suppliers". The "Global Settings" tab is active. Below the navigation bar are "SAVE" and "CLOSE" buttons. The main content area is titled "Appointment Detail Form Settings" and contains a list of checkboxes:

- Enable Appointment Merge (when user submits an outdated version of the appointment)
- Do Not Prepopulate Carrier
- Prepopulate Supplier
- Do Not Prepopulate Ship To (Distribution Center)
- Allow Override Line Level Quantities
- Default Appointment Requested Time to Beginning of Day (00:00)
- Disable Multiple PO Entry
- Disable Manual PO Entry

Integration specialists can use the `@DALBInitRequestedDTWithMidnight` text-key to customize the field label.

External Appointment Update API Enhancements/Changes – 707433

Several enhancements have been made to the External Appointment Update API to extend appointment update processing and expand lookup functionality for candidate appointments and appointment lines. These enhancements are listed below and described in the following sections:

- Lookup functionality enhanced to allow multiple appointments matching header-level business key parts
- Fields from the MonAppointmentLocation table can now be used to specify business key parts
- Support added for **Optional**, **OrIsNull**, **ValueFrom** and **ValueTo** attributes for the **BusinessKeyPart** element
- Four update modes added: UpdateCommon, UpdateCommonAddNew, UpdateCommonDeleteOld, UpdateCommonAddNewDeleteOld
- **ExtControlID** added at the line level of the XML for diagnostic purposes

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Lookup Functionality Enhanced

The lookup functionality has been enhanced to allow multiple candidate appointments that match the header criteria to be shortlisted so that more refined appointment line level matching can identify a unique candidate appointment that needs to be updated.

This functionality will now look up all appointments matching header-level business keys provided in the **DASExternalAppointment** element. Multiple appointments can be found with this new functionality.

Any matching appointment IDs are saved and used to narrow the search for the specified **DASExternalAppointmentLine** elements.

If an appointment line record specified on the XML is not found, the system treats it as a candidate to be added to the appointment.

 **Note:** All subsequent **DASExternalAppointmentLine** elements must be not found or belong to the same appointment. If different **DASExternalAppointmentLine** elements match different appointments, the API reports an error in the output status record for the current **DASExternalAppointment** element, ignores it and moves on to the next **DASExternalAppointment** element (if it is present in the input XML).

Using MonAppointmentLocation Table Fields to Specify Business Key Parts

You can now use fields from the **MonAppointmentLocation** table to specify business key parts. To refer to fields from this table, use the following aliases:

- **dc:** for DC location record
- **c:** for carrier location record
- **s:** for supplier location record (header or line level)

Example:

```
<parmDASExternalAppointment>
  <DASExternalAppointment Mode="UpdateCommon" ExtDocControlID="1FD41C07-BE53-4EC5-9F28-BC8CDF035329">
    <BusinessKeyPart Name="dc.FacilityCode" Value="INI1"/>
    <BusinessKeyPart Name="CreatedDT" ValueFrom="2010-01-01" ValueTo="2020-12-31"/>
    <BusinessKeyPart Name="StatusCode" Value="300"/>
    <BusinessKeyPart Name="RoutingNumber" Value="YARD 6/5/12" Optional="1"/>
    <BusinessKeyPart Name="TotalQty" ValueFrom="6" ValueTo="7" Optional="2"/>
    <BusinessKeyPart Name="c.DirectionsLabel" Value="URL" Optional="3"/>
  </DASExternalAppointment>
</parmDASExternalAppointment>
```

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Optional, OrIsNull, ValueFrom and ValueTo Attributes Now Supported in BusinessKeyPart Element

When the **Optional** attribute is specified, the API adds a "field is empty" condition when selecting records in addition to the matching value condition. The "field is empty" condition is broader than NULL fields and includes:

- NULL or empty character-type fields
- NULL or zero value numeric fields

When matching records are selected in the database, the API applies additional process for all **Optional BusinessKeyParts**:

- If a single record is found with a non-empty value matching the condition, the record is used
- If more than one record is found with a non-empty value matching the condition, the API fails
- If no records are found with non-empty values matching the condition, the API looks for records where the corresponding field is "empty"
- If a single record is found with an empty value in the corresponding field, the record is used
- If more than one record is found with an empty value in the corresponding field, the API fails
- If no records are found with empty values matching the condition, the line is considered as "New Line to be added" candidate.

When a single record is found after applying the **Optional BusinessKeyPart**, the process is then repeated for the remaining optional **BusinessKeyParts** in the order of their [Optional] attribute value to ensure that the record is valid for each. If so, the record is updated. If not, the **DASExternalAppointmentLine** element is then considered as a "New Line" added to the appointment.

If multiple **BusinessKeyPart** elements are marked as **Optional**, each must have a unique value. For example:

```
<parmDASExternalAppointment>
  <DASExternalAppointment Mode="UpdateCommonAddNew" ExtDocControlID="1FD41C07-BE53-4EC5-9F28-BC8CDF035329">
    <BusinessKeyPart Name="dc.FacilityCode" Value="INI1"/>
    <BusinessKeyPart Name="AppointmentDTBegin" ValueFrom="2020-07-01 00:00" ValueTo="2020-07-01 23:59"/>
    <BusinessKeyPart Name="StatusCode" Value="300"/>

    <DASExternalAppointmentLine ExtDocControlID="Line1">
      <BusinessKeyPart Name="s.PartyCode" Value="SUP101"/>
      <BusinessKeyPart Name="PONumber" Value="20299205"/>
      <BusinessKeyPart Name="ProbillNumber" Value="BOL1234" Optional="1"/>
      <BusinessKeyPart Name="EventCode" Value="HALLOWEEN" Optional="2"/>
      <BusinessKeyPart Name="OOSFlag" Value="Y" Optional="3"/>
      <Field Name="NumCasesShipped" Value="100"/>
      <Field Name="APL_UDF8" Value="ABC"/>
    </DASExternalAppointmentLine>
  </DASExternalAppointment>
</parmDASExternalAppointment>
```

Each business key marked in this way is processed in order of the Optional value (1, 2, 3, etc.).

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When the **OrIsNull** attribute is present and set to "1" in the XML, the API attempts to find either records with a matching value/range or records where the field is NULL. This attribute can be used at the header or line level.

Example:

```
<parmDASExternalAppointment>
  <DASExternalAppointment Mode="UpdateCommon" ExtDocControlID="1FD41C07-BE53-4EC5-9F28-BC8CDF035329">
    <BusinessKeyPart Name="dc.FacilityCode" Value="INI1"/>
    <BusinessKeyPart Name="CreatedDT" ValueFrom="2020-07-01 00:00" ValueTo="2020-07-01 23:59"/>
    <BusinessKeyPart Name="StatusCode" Value="300"/>
    <BusinessKeyPart Name="s.PartyCode" Value="SupplierCodeABC" OrIsNull="1"/>
    <Field Name="OverrideTotalPallets" Value="20"/>
  </DASExternalAppointment>
</parmDASExternalAppointment>
```

With the **ValueFrom** and **ValueTo** attributes, you can specify a range of values to narrow the search for the appointment to update.

Example:

```
<parmDASExternalAppointment>
  <DASExternalAppointment Mode="UpdateCommon" >
    <BusinessKeyPart Name="dc.LocationCode" Value="DSGtestDC4"/>
    <BusinessKeyPart Name="RequestedDT" ValueFrom="2019-12-18T00:00:00" ValueTo="2019-12-18T23:59:59"/>
  </DASExternalAppointment>
</parmDASExternalAppointment>
```

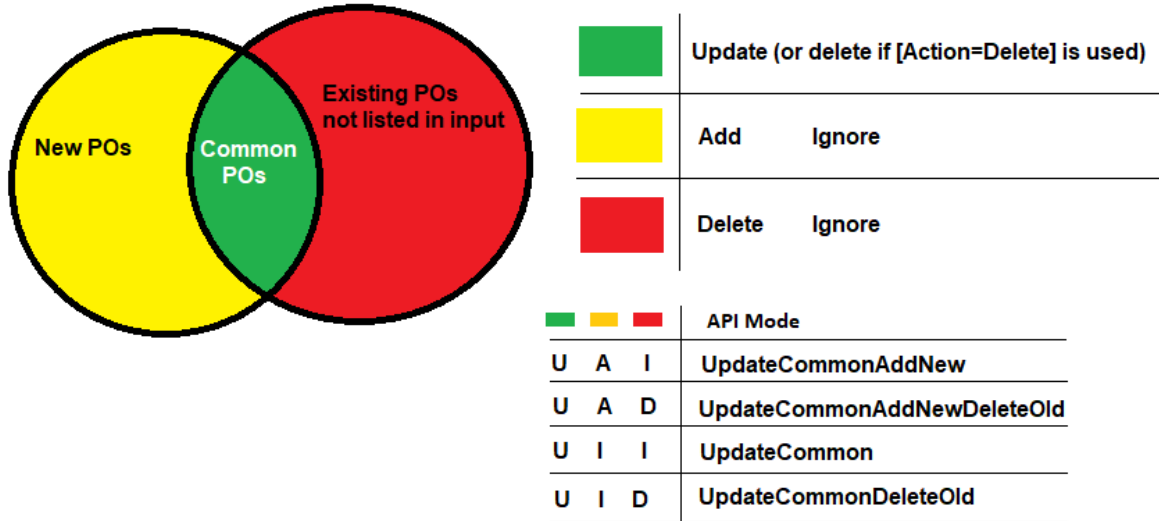
New Update Modes Added

Four new update modes have been added and can be specified as attribute of the **DASExternalAppointment** element.

```
<parmDASExternalAppointment>
  <DASExternalAppointment
    Mode="UpdateCommonAddNewDeleteOld"
    ExtDocControlID="1FD41C07-BE53-4EC5-9F28-BC8CDF035329" >
    <BusinessKeyPart Name="RequestNumber" Value="1803822"/>
    <Field Name="EquipmentID" Value="PAA.TRL-1"/>
    <DASExternalAppointmentLine>
      <BusinessKeyPart Name="PONumber" Value="P01"/>
      <Field Name="APL_UDF8" Value="Unilev 1"/>
      <Field Name="NumCasesShipped" Value="100"/>
    </DASExternalAppointmentLine>
  </DASExternalAppointment>
</parmDASExternalAppointment>
```


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These modes are described in the graphic and table below. Depending on the mode specified, the API processes new and existing POs differently and updates or deletes the PO lines that already exist in the system and are specified in the input XML ("common" PO lines).



Mode	Common Lines	New Lines	Existing Lines Not Found in Input
UpdateCommon (default)	Updated (Deleted if Action=Delete specified)	Not added	Left unchanged
UpdateCommonAddNewDeleteOld	Updated (Deleted if Action=Delete specified)	Added to the appointment	Deleted from the appointment
UpdateCommonAddNew	Updated (Deleted if Action=Delete specified)	Added	Left unchanged
UpdateCommonDeleteOld	Updated (Deleted if Action=Delete specified)	Not added	Deleted from the appointment

ExtDocControlID Now Supported at Line Level

The ExtDocControlID can now be specified at the line level of the input XML to assist with testing and diagnostics. Previously, if an issue occurred at the line level, support had difficulty telling which line element was the problem.

Template-M: Additional Notes Field Conditionally Required -- 721957

The Additional Notes field on the **Appointment Details** page is now conditionally required, allowing integration specialists to change whether the Additional Notes field is mandatory on the page.

For clients who wish to make the Additional Notes field required, an integration specialist must override the default blank text in the new @MTemplate.AddNotesRequired text-key with the error message text they want to display when a user leaves the field blank.

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DC Setting Added to Set Default Duration Time for Manual Approval -- 712444

The **Default appointment duration** setting has been added to the **Door Schedule Setup** page, allowing you to select the default duration time for manual approval of an appointment.

You can select a value of up to three hours or, for clients using Template-C or Template-M, select the **-use calculated-** option to set the initial appointment duration to the calculated value. Template-W does not support auto-scheduling and cannot estimate appointment duration.

When minimum service duration interval is changed:

- The selected Default appointment duration value must be rounded to the nearest valid option
- The **Default appointment duration** dropdown list must be regenerated accordingly

The **Door Assignments** page uses these values. When an appointment is manually approved, the initial appointment duration is set to one of the following:

- Previous approved duration, i.e., an approved appointment that has been rescheduled
- The **Default appointment duration** value configured at the DC (up to three hours from the Minimum Appointment Duration)
- The calculated duration if **Default appointment duration** is set to **-use calculated-**

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Integration specialists can use the following text-keys to customize the displayed text for labels/notifications.

Text-Key	Description
@DALBDefaultAppointmentDuration	Default appointment duration (for manual approval)
@DefaultAppointmentDurationUseCalculated	-use calculated-
@DAMsg.TimesAdjustedDueToIntervalChange	Default appointment duration has been adjusted from (%1) to (%2) due to change in interval

Remove Spaces from User Password Upon Save – 721959

To prevent validation errors, the system will now remove any leading or trailing spaces from the password field when you save the **Create/Edit User** pages.

Template C: Remove Appointment ReasonCode During Auto-Approval – 715796

To prevent an issue where the system incorrectly performed a comparison analysis to determine if there were any deleted PO lines on an appointment that had already been approved, the following reason codes are now removed before the auto-approval process:

- "Resubmitted by Carrier/Supplier" (code 5000)
- "Resubmitted by DC" (code 5010)
- "Resubmitted by Global Admin" (code 5020)

As a result, when Dock Appointments Scheduling is integrated with Descartes Yard Management™, the Trailer Arrival process will not be stuck when arriving using the appointment.

DCF 19.07 Compatibility – 712549, 710821, 690111

DCF is Descartes Component Framework. Version 19.07 is the latest backend core version shared by most of our LNOS applications. In order for Dock Appointments Scheduling to integrate and or coexist with other LNOS applications that have been upgraded to DCF 19.07, Dock Appointments Scheduling must be compatible with this latest backend core.

Dock Appointments Scheduling and Yard Management are now compatible with DCF 19.07.

Support for Edge Browser – 636441

Several issues have been resolved to support the use of Dock Appointments Scheduling with the Microsoft Edge® browser.

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Resolved Issues

The following issues have been resolved in Descartes Dock Appointments Scheduling 20.06.0100:

20.06.0100

Some Appointment Comments Incorrectly Marked with a Comment Time Zone Value - 726284

When users added a comment from the **Refuse**, **Cancel**, **Delivery Failure** or **Check In/Out** windows, the system incorrectly saved a comment timezone value in the database for the appointment. This functionality was changed in version 20.03 to mark appointment comments with a timestamp converted to the DC's local time zone.

Appointments Missing from Door Assignment Page – 717914

When an approved appointment request created from a standing appointment shell was cancelled and then resubmitted by the global admin user, the appointment record no longer appeared on the **Door Assignment** page.

Template-M: Appointment Line Level Duplicate Check Case Sensitive – 723278

For clients using Template-M, users were incorrectly allowed to enter and save duplicate PO numbers because the appointment line-level duplicate check was case sensitive. For example, the system allowed the following SKU numbers to be entered because the "a" in the number was entered in different cases:

- 201805A2811
- 201805a2811

Update Existing User Info Fails with "Passwords must be the same" Error – 723112

Under certain conditions, the Google Chrome™ browser automatically populated the **Title** field with the current user's username and the **New Password** field with the user's current password when a user attempted to update an existing user's credentials. Because of this issue, when a user only updated their email address and clicked **Save**, the form could return a "Passwords must be the same" error and/or save a new incorrectly pre-populated **Title** field.

This issue only occurred when Dock Appointments Scheduling was used with the Google Chrome™ browser.

Door Names with Spaces Not Handled Properly on 'Door Assignment' Page – 725497

On the **Door Assignments** page, if the door name had spaces as part of the value, users could experience any of the following issues:

- Clicking on a time cell within the door's row would not be reflected in the **Door:** dropdown selection
- The corresponding time cells were not highlighted properly when selecting the door
- The door name was not recorded properly on an appointment when an appointment was approved using the door

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Document Management

Version	Date	Comments
20.06.0100	7/7/2020	Added 726284
20.06.0100	7/6/2020	Added 707432
20.06.0100	7/2/2020	Added 707433, 721957, 712444,721959, 723278, 723112 and 725497
20.06.0100	6/8/2020	Document created