

Canadian Transplant Registry

Version Changes

2026-09-23 – Release Notes 5.8.12 (5.8.12.2)

This document contains all version changes from 5.6.13.0 to 5.8.12.2.

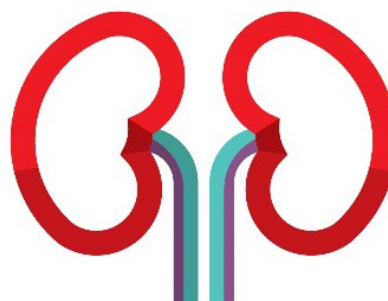
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Table of contents

Canadian Transplant Registry Overview	3
Recap of CTR Version 5.6.13.0 Changes (2026-06-25)	5
Summary of CTR Version 5.8.12.2 Changes	6
General Updates - All Programs	7
Time / Time zone Changes	7
Support for CTR Recipient/Donor ID with 7 digits	9
Deceased Waitlist – Webservices and Web Browser Updates	10
Prevent creating new Heart organ requests with a medical status of 4S	10
Support for matching and ranking by organ, and by donor's ODO	11
cPRA Calculator Updates	12
cPRA Configuration details to include ABO-Adjusted settings	12
Canadian cPRA Calculator – fix field scaling in mobile view	13
General Updates – Web Browser	14
Pagination field width increased to support larger numbers	14
User's challenge question responses will be hidden/masked by default	15
CTR Version 5.8.11.5 Known Issues	16
CTR Version 5.9 (2027)	16
Customer Support	16

Canadian Transplant Registry Overview

Canadian Blood Services works with the Organ and Tissue Donation and Transplantation (OTDT) community across the country to facilitate interprovincial organ sharing and to improve national system performance through the development of leading practices, professional education, public awareness, and data analysis and reporting.



The Canadian Transplant Registry (CTR) is an innovative technology that generates value in terms of quality, safety and efficiency through its capabilities for supporting all donors, candidate listing, offer management, allocation and pre- and post-transplant data. CTR is a national web-based computer program that supports Canada's national programs (such as Kidney Paired Donation, Highly Sensitized Patients, and National Organ Waitlist) and is used for linking the national recipient waitlist with actual organ donors. CTR provides timely access to high quality organ donation and transplantation information for patient care, system management, and accountability.

CTR features:

- Advanced capabilities for allocating living and deceased donor organs and for generating the important data needed to improve transplant system performance
- Improved access to transplants for highly sensitized patients
- Increased effectiveness and efficiency of national organ sharing programs for living donors and for patients who are critically ill
- State of the art, high quality human leukocyte antigen typing and antibody analysis, that is the most comprehensive of any matching system in the world – leading to more successful transplantation and less rejection
- Real-time information sharing and file uploads to facilitate the decision-making process and create efficiency by eliminating faxes and phone calls
- Can be used on any device – computer, tablet, even mobile phone
- With more than 400 users from coast to coast, CTR currently supports Canada's national programs – Kidney Paired Donation, Highly Sensitized Patients and National Organ Waitlist



Use of this Change Document



These release notes assume that the user has valid access to CTR to perform the required functions of their role. To receive the proper level of access, a request may be made through Customer Support.

CTR currently has 14 User Acceptance Testing (UAT) environments available in addition to the main CTR Production environment. For information regarding these environments, please consult our [Canadian Transplant Registry Release Preparation Board](#). Information about these environments, relevant links, as well as the Canadian Transplant Registry Integration Guide and other documents may be found there.

Change Document Format

The release notes / list of changes contained in this document will be broken down into key sections:

- A recap or link to the changes introduced in the previous release to the production environment
- New changes contained broken down by Fixes, Improvements, and New Features
- A high-level plan of changes to come in the following release

The format for each change introduced will be outlined as follows:

Release Version ¹	Reference ²	Category ³
5.2	CTRII-8752	Feature
Feature Title ⁴		
Enhancement to the Domino Chain - End Offer Recipient Assignment		

5	Interface	Web Browser Interface
	Web Service Endpoint	N/A
	Web Service Method	N/A
	Program ⁶	Kidney Paired Donation
	Patient ⁷	All
	Section ⁸	Match Run / Offer Management

Description: ⁹

Functionality available to a Kidney Paired Donation (KPD) Program Administrator, which allows them the ability to identify potential recipient candidates from the Deceased Waitlist Program, based on a KPD donor.

This functionality is extended to allow finding and assigning potential recipients to the end-offer in a domino chain.

Legend

1. Version of CTR in which the change has been applied.
2. Internal CTR reference number. May be used when communicating with CTR regarding the change.
3. Type of change introduced, broken into three categories: Fixes, Improvements, and (New) Features.
4. For new features, a short description of the change.
5. The area that is affected by the change. Web Browser Interface (UI), or Web Services / API. For Web Service changes, the affected endpoints and methods will also be outlined.
6. The CTR program being updated.
7. The patient in CTR affected by the change – Donor, Recipient, or All.
8. The section in CTR affected by the change.
9. A plain language description of the change. This area may also contain references to other internal CTR IDs that are associated with the change. Where applicable, screenshots or diagrams of the updates may be included to support the description.

Previous Production Updates

Recap of CTR Version 5.6.13.0 Changes (2026-06-25)

Content updates (No impact to webservice partners):

1. Kidney Paired Donation
 - a. The process was updated to add an extra confirmation when choosing to permanently decline an offer.
2. Willing to Cross
 - a. French text associated with Willing to Cross data has been updated.
3. Deceased Donation
 - a. Recipient eligibility requirements for participation in the HSP Kidney and HS Heart programs have been updated to remove the requirement to have a recipient's HLA Serum results confirmed.

Upcoming Production Updates

Summary of CTR Version 5.8.12.2 Changes

Content updates:

1. General Updates – All Programs
 - a. We have updated the application and its supporting components to ensure seamless compatibility with upcoming daylight-saving time (DST) shifts in British Columbia.
 - b. We have updated the application and its supporting components to ensure seamless compatibility with upcoming daylight-saving time (DST) shifts in Alberta.
 - c. To prepare for future data growth, we have updated the application to support an expanded 7-digit numeric format alongside the existing 6-digit format.
2. Deceased Waitlist – Webservices and Web Browser Updates
 - a. We have updated business rules to prevent a 4S medical status from being applied to any active or newly generated patient files.
 - b. System administrators can now configure and apply unique matching and ranking logic tailored to individual organs.
3. cPRA Calculator Updates
 - a. The cPRA Calculation Details view, located within the recipient's HLA section, now includes the ABO-Adjusted cPRA setting.
 - b. We have resolved a responsive layout issue affecting input fields on mobile devices and smaller screens.
4. General Updates – Web Browser
 - a. Increased the physical width of the pagination field. The current page number will now display fully and clearly when there are 1000 or more pages in the dataset.
 - b. We have updated the visibility settings for security challenge question responses. Input fields containing these answers will now default to hidden text.

CTR Version 5.8.12.1 Release Candidate

General Updates - All Programs

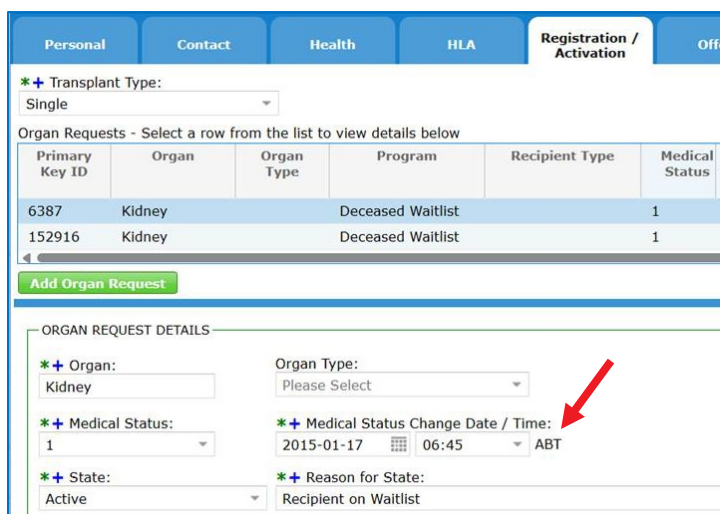
Release Version	Reference	Category
5.8	CTR11-10324	Application Update
Title		
Time / Time zone Changes		

Interface	Web Browser Interface and Web Services / SOAP API
Web Service Endpoint	All
Web Service Method	All
Program	All
Patient	All
Section	Areas with date and date/time fields

Description:

We have updated the application and its supporting components to ensure seamless compatibility with upcoming daylight-saving time (DST) shifts in British Columbia and Alberta.

This update also introduces the new time zone named Alberta Time with the abbreviation ABT.



The screenshot shows the 'Organ Requests' section of the CTR application. It includes a table with columns: Primary Key ID, Organ, Organ Type, Program, Recipient Type, and Medical Status. Below the table is a green 'Add Organ Request' button. The 'ORGAN REQUEST DETAILS' section contains several fields: 'Organ' (Kidney), 'Organ Type' (Please Select), 'Medical Status' (1), 'Medical Status Change Date / Time' (2015-01-17 06:45 ABT), 'State' (Active), and 'Reason for State' (Recipient on Waitlist). A red arrow points to the 'Medical Status Change Date / Time' field, highlighting the 'ABT' time zone.

This update also resolves two specific data-handling inconsistencies related to date and time fields.

1. Time Zone Shifts on Date-Only Fields

- **Issue:** Certain date-only fields (such as *Date of Birth*) also included time of day. This caused some dates to shift by a day depending on the user's local time zone during DST changes.
- **Resolution:** Removed all underlying time data from date-only fields. Dates will now remain stable and accurate regardless of time zone.

2. Validation Errors from Seconds in Date-Time Fields

- **Issue:** Users could assign seconds to date-time fields exclusively via the SOAP API. Because the web browser interface does not support or display seconds, viewing these records online could trigger validation errors.
- **Resolution:** Disabled and stripped the assignment of seconds across these fields. Date-time entry is now fully standardized across both the API and web browser interfaces.

Release Version	Reference	Category
5.8	CTR11-9381	Application Update
Title		
Support for CTR Recipient/Donor ID with 7 digits		

Interface	Web Browser Interface and Web Services / SOAP API
Web Service Endpoint	All
Web Service Method	All
Program	All
Patient	Recipient / Donor
Section	All areas using or displaying the CTR identification.

Description:

The Canadian Transplant Registry (CTR) uses alphanumeric identifiers for recipients and donors, consisting of a "CTR" or "CTD" prefix followed by a unique number. To prepare for future data growth, we have updated the application to support an expanded 7-digit numeric format alongside the existing 6-digit format. This scenario only currently impacts User Acceptance Testing environments however the update will impact all environments including Production.

1. System-Wide Display Support

- **Issue:** Several user interface areas throughout the application truncated the view of the new, longer 7-digit identifiers.
- **Resolution:** Updated all user interface screens to properly display the full 7-digit alphanumeric identifiers without clipping data.

2. Web Service Integration

- **Issue:** Certain web service methods restricted inputs strictly to the legacy 6-digit format.
- **Resolution:** Upgraded the web service methods to accept and process both 6-digit and 7-digit identifier values seamlessly.

Deceased Waitlist – Webservices and Web Browser Updates

Release Version	Reference	Category
5.8	CTRIL-10315	Unexpected Result
Title		
Prevent creating new Heart organ requests with a medical status of 4S		

Interface	Web Services / SOAP API
Web Service Endpoint	All
Web Service Method	addRecipientByNationalRecipientId
Program	Deceased Wait List
Patient	Recipient
Section	Create record

Description:

The "4S" medical status code has officially expired and is restricted solely to historical data records. We have updated the application's underlying business rules to prevent this expired status from being applied to any active or newly generated patient files.

1. Prevention of Expired Status Selection

- **Issue:** The application inadvertently permitted users to select and assign the expired 4S Medical Status when creating a new Heart organ request.
- **Resolution:** Upgraded the business rules within the SOAP API to strictly block the 4S medical status from being attached to new Heart organ requests.

2. Data Integrity and Impact

- **Testing Validation:** This issue was proactively intercepted during internal testing activities.
- **Current Status:** Database audits confirm there has been zero impact on live data; no new or active Heart organ requests have used or saved the 4S medical status.

Release Version	Reference	Category
5.8	CTRII-10251	Application Update
Title		
Support for matching and ranking by organ, and by donor's ODO		

Interface	Web Browser Interface
Web Service Endpoint	N/A
Web Service Method	N/A
Program	Deceased Wait List
Patient	Donor
Section	Organ Allocation / Virtual Cross Match

Description:

We enhanced donor organ allocation functionality to allow customizable matching and ranking rules. This feature introduces granular control by permitting specific rules to be defined per organ and per Organ Donor Organization (ODO).

Action	Rank	ODO	National Patient ID	Local ID	TX Type	Organ	MS	Urgent	State	Eligibility	ABO	Age	Height	Weight	ABO Match	VXM	CPRA	Adj. CPRA
Make Offer		ON-TGLN	CT500406	69576	Single	Liver	4F	Yes	Active		O	16.4	170	61	Yes	POS		
Make Offer		ON-TGLN	CT502686	48886	Multiple same donor	Liver Small Bowel	3F	Yes	Active		A	8.2	120	21.5	Yes	POS	66	66
Make Offer		ON-TGLN	CT5057929	59854	Multiple same donor	Liver Small Bowel	3F	Yes	Active		O	16.0	153	52.5	Yes	POS	0	0
Make Offer		AB-EDM-HOPE	CT5019958		Multiple	Liver Pancreas Small Bowel	3F	Yes	Active		O	1.5	69.3	8	Yes	POS		
Make Offer		ON-TGLN	CT5024805	41662	Single	Liver	3	No	Active		A	79.2	157	74	Yes			
Make Offer		ON-TGLN	CT5026086	42364	Single	Liver	3	No	Active		A	71.0	163	63.8	Yes			
Make Offer		QC-TQ	CT5043662	19815	Single	Liver	3	No	Active		A	45.9	162	71	Yes			
Make Offer		ON-TGLN	CT5038456	61664	Single	Liver	3	No	Active		A	63.4	155	45	Yes		19	

1. Expanded Matching and Ranking Capabilities

- **Enhancement:** System administrators can now configure and apply unique matching and ranking logic tailored to individual organs, including Virtual Crossmatch (VXM) scenarios.
- **ODO Customization:** Rules can be customized on direction of specific Organ Donor Organizations (ODOs) to support requirements.

2. Scope and Continuity of Existing Systems

- **Excluded Sections:** This enhancement does not change or disrupt existing national IPOS matching and ranking systems. No changes have been made to the **HSP Kidney** and **HS Heart** tabs, which continue to operate as they do currently.

cPRA Calculator Updates

Release Version	Reference	Category
5.8.	CTR11-10253	Application Update
Title		
cPRA Configuration details to include ABO-Adjusted settings		

Interface	Web Browser Interface
Web Service Endpoint	N/A
Web Service Method	N/A
Program	All
Patient	Recipient
Section	HLA / cPRA Configuration

Description:

We have updated the cPRA configuration details to be accessible via the recipient profile.

1. Addition of ABO-Adjusted Metric

- **Enhancement:** The cPRA configuration settings view, located within the recipient's HLA section, now includes the **ABO-Adjusted cPRA** setting.
- **Benefit:** This update provides stakeholders with immediate visibility into whether ABO blood type adjustments are factored into the recipient's calculated score.

The screenshot shows the 'HLA' tab in the recipient profile. The 'cPRA Calculation Details' window is open, displaying the following information:

- Organ:** Kidney | **Program:** Kidney Paired Donation
- Loc used for cPRA Calculations:** A, B, Bw, Cw, DR, DR51/52/53, DQA, DQ, DPA, DP. All are marked with green checkmarks.
- Specificities used for cPRA Calculations:** Acceptable, Unacceptable, Indeterminate, Allele Specific, Not Tested. 'Unacceptable' is marked with a green checkmark.
- Willing to Cross Enabled:** Yes
- ABO-Adjusted cPRA Enabled:** No (indicated by a red arrow)

At the bottom of the window, there is a 'Close' button and a link to 'cPRA Calculation Details'.

Release Version	Reference	Category
5.8	CTR11-10356	Application Update
Title		
Canadian cPRA Calculator – fix field scaling in mobile view		

Interface	Web Browser Interface
Web Service Endpoint	N/A
Web Service Method	N/A
Program	N/A
Patient	N/A
Section	Canadian cPRA Calculator

Description:

The Canadian cPRA Calculator is designed to scale dynamically for easier use and viewing on mobile devices and smaller screens. We have resolved a responsive layout issue affecting one of the key input fields on these devices.

1. Patient Blood Group Field Scaling

- **Issue:** The dropdown field used to select the patient's blood group did not scale down properly on smaller screens, causing layout or visibility issues.
- **Resolution:** The blood group selection field now scales as expected across all mobile devices and screen sizes.

General Updates – Web Browser

Release Version	Reference	Category
5.8	CTRII-10277	Application Update
Title		
Pagination field width increased to support larger numbers		

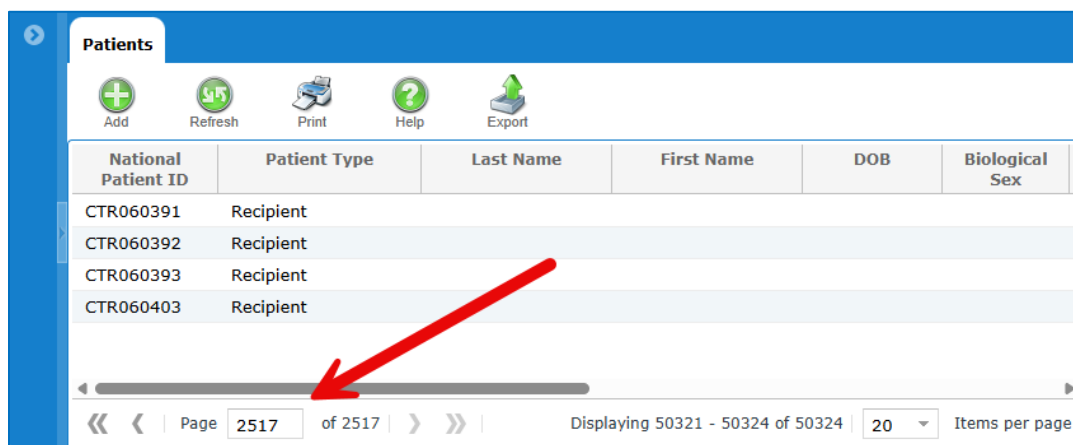
Interface	Web Browser Interface
Web Service Endpoint	N/A
Web Service Method	N/A
Program	All
Patient	Recipient / Donor
Section	Lists

Description:

We have resolved a user interface display issue within list views to ensure accurate tracking and navigation through large datasets.

1. Pagination Field Expansion

- **Issue:** The page number indicator field truncated or partially hid numbers longer than 3 digits (Pages 1,000 and above).
- **Resolution:** Increased the physical width of the pagination field. The current page number will now display fully and clearly regardless of the list size.



Release Version	Reference	Category
5.8	CTRII-10378	Application Update
Title		
User's challenge question responses will be hidden/masked by default		

Interface	Web Browser Interface
Web Service Endpoint	N/A
Web Service Method	N/A
Program	N/A
Patient	N/A
Section	User Login and Account Management

Description:

To enhance user privacy and account security, we have updated the visibility settings for security challenge question responses. Input fields containing these answers will now default to hidden text.

1. Default Text Masking

- **Enhancement:** Fields displaying Challenge Question responses are now masked by default (using asterisks), matching the behavior of standard Password fields.
- **Scope:** This security masking applies to all challenge question fields during application login, as well as within the user account profile view and update screens.

2. Visibility Control Toggle

- **New Feature:** Added a "Show Challenge Question Responses" checkbox next to these fields.
- **Functionality:** Users can check this box to unmask and verify their text responses when needed.

CTR Version 5.8.12.2 Known Issues

1. Using an invalid date when updating the *<mostRecentDialysisStartDate>* value for a recipient in **CTR1** using the *<updateRecipientByNationalRecipientId>* method clears existing value and changes *<onDialysis>* value from true to false. This issue is **not** present when using **CTR2** or **CTR3** methods. As the CTR1 method has not been used in more than a year, and only triggers on an invalid date entry, this issue will not be corrected.
2. With single decimal precision enabled, when a cPRA calculation ends in a decimal zero, the results returned via webservices may not display the zero. Other decimal values that do not end in zero will be returned with the decimal intact. For example, a cPRA value of 97.7% will be returned as 97.7% whereas a cPRA value of 97.0% may be returned as 97%. This does not affect calculations or ranking. It is a display issue only.
3. **Historical** cPRA serum results will display in the user interface with a decimal zero (87% will now display as 87.0%). This does not affect historical data or accuracy. It is a display issue only.

CTR Version 5.9 (2027)

The next released version of the CTR will be 5.9.x. The scope is currently under consideration.

Customer Support

For assistance with the information contained in this document, please contact our CTR Customer Solutions Team via email at transplantregistry@blood.ca or call 1-855-274-2889.

If you are calling outside of normal office hours, dial '1' to speak to on-call CTR Customer Support personnel.