British Columbia | Ministry of Health

British Columbia
Professional and Software Conformance Standards

Electronic Health Information Exchange

Volume 4D: Application Enforced Rules – Provider & Location
Registry (PLR)

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Document Details

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1.0   Provider & Location Registry (PLR) – Overview

The application enforced rules described below are required for access to the Provider and Location Registry (PLR).

For each provider, the PLR contains the following information:

- Personal demographics;

- College identifier and Ministry Practitioner Identifier (MPID);

- License status;

- Expertise;

- Business contact; and

- Work location.

Information Sharing Agreements between the associated professional College and the Ministry of Health set specific POS 'data permissions' within the PLR. The PLR only returns the specific provider data fields to a particular POS as specified within these agreements.

The POS application must be able to distinguish between provider identifiers:

- College Identifier - Unique to a practitioner and assigned by the College when the Practitioner is licensed to practice.

- MPID – Unique to a practitioner and assigned by HIBC to track services performed for billing purposes.

1.1   Initial Load of Provider Data into POS Application

In order for a POS application to query against a locally stored Provider Directory or receive Provider Notification messages, the local Provider Directory must be populated with an initial data load from the PLR.

A data load from the PLR consists of all practitioner data for various provider types based on the business needs of the client integrating to the PLR.

This initial data load can be supplied in the following formats:

- CSV

- Text

- XLS

- XML

1.2   Registries Line of Business (RLOB) Help Desk

The Registries Line of Business (RLOB) Help Desk is the point of contact for the Health Registries:

- 250-952-9137 or HLTH.REGISTRIESADMIN@gov.bc.ca

1.3   Business Transactions

For details of the structure and semantics of these interactions refer to the:

- Volume 4D – Message Specification – PLR

General – Application Enforced Rules

Table 1 General – Application Enforced Rules

#	Rule	Med Practice (EMR)	HA CIS
PRTx1.1	**License Status Code** The license status code must be displayed to the user as it is recorded within the PLR (i.e., 'active' or 'not-active'). The POS application must translate all status reason codes that reflect a 'non-active' status to 'not-active' for display purposes. **Note(s):** Discussion with Health Registries is required to determine the accurate translation of license status.	✓	✓
PRTx1.2	**Provider Functionality Access** Users must be able to access to the PLR from both within and outside the patient chart module for the purposes of verifying provider information and updating provider work location.	✓	✓

1.3.1   Query Provider Details

This transaction is used to query provider information directly against the PLR. Provider demographic information is retrieved by searching the PLR using a combination of attributes or the provider's identifier.

The Query Provider Details is a synchronous request-response transaction which includes the following interactions:

Table 2 Query Provider Details – Transactions

Interaction ID	Name
PRPM_IN306010	Individual Provider Query
PRPM_IN306011UV01	Individual Provider Response

Query Provider Details – Application Enforced Rules

The rules that apply to this transaction are included in the following table:

Table 3 Query Provider Details – Application Enforced Rules

#	Rule	Med Practice (EMR)	HA CIS

PRTx2.1	**Search Parameters**
	
	The following two search methods must be available for users to query PLR.
	
	Each must include the specified criteria.
	
	• Search by Attributes:
	    o Surname
	    o First name
	    o Provider role type *(Optional)*
	    o City *(Optional)*
	    o Expertise *(Optional)*
	    o Language *(Optional)*
	    o Gender *(Optional)*
	• Search by Identifier:
	    o Provider identifier (e.g., 1234) and corresponding College identifier type (e.g., CPSID); or
	    o MPID (e.g., 5678) and identifier type (e.g., MPID).
		✓	✓

PRTx2.2	**No Matches Found** If no providers match the search criteria the following message must be displayed to the user: • "No Matches Found – Please refine your search criteria and try again." **Note(s):** The PLR returns the following: • "No provider records found for the input parameters."	✓	✓

#	Rule	Med Practice (EMR)	HA CIS
PRTx2.3	**Greater than 20 Providers** If the query parameters match greater than 20 providers, the following message must be displayed to the user: • "Your query returned too many records. Modify your search criteria." **Note(s):** The PLR returns the following: • "Maximum search results returned. Please refine your search criteria."	✓	✓

PRTx2.4	**Response Display – Multiple Providers**
	
	When multiple providers are returned in response to a query the following must be displayed:
	
	• List of providers; and
	• Associated subset of provider data:
	   o Full name;
	   o Role type;
	   o Address;
	   o College ID; and
	   o MPID.
		✓	✓

#	Rule	Med Practice (EMR)	HA CIS
PRTx2.5	**Response Display – Single Provider** If a single provider is returned in response to a query, at a minimum the following data must be displayed: • Role Type • Name • Demographics (Date of Birth and/or Gender) • Identifier • Identifier Type (e.g., CPSID, MPID) • Status • Business Address • Business Telecom *(if available)* • Business Electronic Address (email) *(if available)* • Work Location Name *(if available)* • Work Location Type *(if available)* • Work Location Identifier *(if available)* • Work Location Address *(if available)* • Work Location Telecom Numbers *(if available)* • Work Location Electronic Address *(if available)* • Expertise *(if available)* • Credential *(if available)*	✓	✓
PRTx2.6	**Work Location Display** The work location results must be displayed before the business contact information. Other query response results can be displayed to the user in any order.	✓	✓

#	Rule	Med Practice (EMR)	HA CIS
PRTx2.7	**Role and Name Display on Search Results** The provider attributes must be sorted to display by surname and then by first name (as returned by the PLR). **Note(s):** This is accomplished by not implementing the optional sort control and response object parameters in the HL7message.	✓	✓
PRTx2.8	**Wildcard Searches** Users must be able to use an asterisk '*' as a wildcard to substitute for a string of characters at the end of the first name and surname fields. The following conditions apply: • It can be used only once in each of the surname and first name fields. • There must be at least one character entered before the wildcard character. • There must be no characters entered after the wildcard (i.e., it cannot be in the beginning or middle of a string of characters).	✓	✓
PRTx2.9	**History Query Parameter** The historical data query must be set to "true" in the HL7 query to ensure PLR historical records (i.e., records that have changed) are also used for matching.	✓	✓
PRTx2.10	**Individual Provider Name Query** There are two name data blocks in PLR: • 'L' = current; and • 'C' = credentialed. If searching by individual provider name, the value use field must be 'L' (i.e., current). All query response results must be displayed to the user (e.g., if the query returns both 'L' and 'C', then both names must be displayed).	✓	✓

#	Rule	Med Practice (EMR)	HA CIS
PRTx2.11	**Confidentiality Flag** If a query by identifier returns a value of 'confidential' in the response, the record data is not available to the user and the following message must be displayed: "This record is confidential."	✓	✓

1.3.2   Provider Notifications (Add & Update)

The 'Add Provider Notification' or 'Update Provider Notification' transactions will automatically initiate a system-to-system interaction to send a message containing details of provider additions and updates to POS applications that have elected to receive those notifications.

Add Provider Notification

To use this transaction, the POS application must:

- Contact the RLOB Help Desk to arrange for the initial load.

- Create the local data store populated by an initial load of PLR provider information including selected role types (e.g., medical doctor, pharmacist, registered nurse) for synchronization.

- Add the provider information detailed in the notification to the local data store.

The Add Provider Notification is an asynchronous response transaction which includes the following interaction:

Table 4 Add Provider Notification – Transactions

Interaction ID	Name
PRPM_IN301030CA	Add Provider Notification

Update Provider Notification

To use this transaction, the POS application must update the provider information detailed in the notification in its local data store.

The Update Provider Notification is an asynchronous response transaction which includes the following interaction:

Table 5 Update Provider Notification – Transactions

Interaction ID	Name
PRPM_IN303030CA	Update Provider Notification

Provider Notifications (Add & Update) – Application Enforced Rules

The rules that apply to this transaction are included in the following table:

Table 6 Provider Notifications (Add & Update) – Application Enforced Rules

#	Rule	Med Practice (EMR)	HA CIS
PRTx3.1	**Add/Update to POS application** The POS application must automatically add and update the POS provider records with the information received through the notification messages.	✓	✓
PRTx3.2	**Storage & Display** At minimum, the following provider data elements must be stored for subsequent display to the user: • Role Type • Name • Demographics (Date of Birth and/or Gender) • Identifier • Identifier Type • Status • Business Address • Business Telecom *(if available)* • Business Electronic Address *(if available)* • Work Location Name *(if available)* • Work Location Type *(if available)* • Work Location Identifier *(if available)* • Work Location Address *(if available)* • Work Location Telecom Numbers *(if available)* • Work Location Electronic Address *(if available)* • Expertise *(if available)* • Credential *(if available)*	✓	✓

1.3.3   Update Provider (Work Location)

The PLR contains provider work location information (described as a Service Delivery Location in the messages). When a provider work location is added or updated, the PLR automatically initiates a system-to-system interaction to send details of the additions and updates to subscribing POS applications to keep their information current.

The provider work location attribute is updated through the Update Provider synchronous request-response transaction which includes the following interactions:

Table 7 Update Provider (Work Location) – Transactions

Interaction ID	Name
PRPM_IN303010	Update Provider Request
PRPM_IN303011	Update Provider Confirmation

Update Provider (Work Location) – Application Enforced Rules

Table 8 Update Provider (Work Location) – Application Enforced Rules

#	Rule	Med Practice (EMR)	HA CIS
PRTx4.1	**Search Prior to Add or Update** A query of the PLR must be initiated before a work location of the target provider record can be updated or added.	✓	✓
PRTx4.2	**Display of Work Location** All work location data must be displayed, so the user can easily select and update the correct one. **Note(s):** Providers may have multiple work locations returned.	✓	✓
PRTx4.3	**Display of Work Location Changes** When a user makes any changes to the work location (e.g., add, change, cease) the POS application must automatically re-query the provider record in the PLR and display the results of the work location update. **Note(s):** This will allow the user to evaluate the accuracy of the updates.	✓	✓
PRTx4.4	**Local Store Updates Not Permitted** PLR data received through notification messages and stored in the local data store must not be amended or overwritten by other sources. **Note(s):** The POS application may provide additional tables to accommodate locally entered provider data.	✓	✓

#	Rule	Med Practice (EMR)	HA CIS
PRTx4.5	**New Work Location** To add a new work location the following must be provided: • Purpose (provided in a list or drop down: HID, HOSP, or PHARM) • Location Name (e.g., Victoria Clinic) • Identifier (auto-assigned by the PLR if not provided) • Location Name Effective Start Date With the option to include one or more of the following: • Addresses • Telecommunication Numbers • Electronic Addresses • Effective Start Date (for each of the above)	✓	✓
PRTx4.6	**Update or Cease Work Location Data** To update or cease an existing individual work location data element the following must be provided: • New data (e.g., work location name, address, telecommunication number, or electronic address); • Work location identifier; • New Effective Start Date (for each data element being changed); • An Effective End Date (for each data element being ceased); and • An 'End Reason Code' of: ○ CHG (for changed data blocks); or ○ CEASE (for ceased data blocks). **Note(s):** If there are existing Communication Preferences associated with one of the locations (e.g., address, telephone, electronic address), the Communication Preference will need to be ceased before the Work Location data can be ceased.	✓	✓

#	Rule	Med Practice (EMR)	HA CIS
PRTx4.7	**Cease Entire Work Location** To cease an entire Work Location the following must be provided: • Work location identifier; • An 'Effective End Date' (for the Work Location set to the current or a future date); and • An 'End Reason Code' of CEASE. **Note(s):** If there are existing Communication Preferences associated with one of the locations (e.g., address, telephone, electronic address), the Communication Preference will need to be ceased before the entire Work Location can be ceased.	✓	✓
PRTx4.8	**Administration of Work Location** Practitioners must be able to administer their own work location information. **Note(s):** This task may be delegated to support personnel (e.g., medical office assistant).	✓	
PRTx4.9	**Delegated Administration of Provider Work Location** Administration of work location must be limited to those providers who are working within the point of service (i.e., updates must not be permitted for providers working elsewhere).	✓	