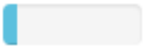
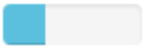
Evaluated Standards

This guide focuses on the selection of messaging standards to support the in scope use cases. Due to differences in business requirements, the standards evaluation is broken into two sets of standardization requirements:

- Consumer messaging
- Source messaging

Consumer messaging

A primary role of the Provider Registry is to enable provider identification within consumer systems contributing data to or consuming data from provincial EHR solutions. The predominant means for exchanging data with the EHR is HL7 version 3 messaging.

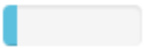
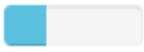
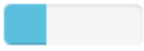
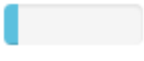
Standard	Fit for Purpose			Stewardship		Quality		
	Fits Requirements	Implementation Type	Vendor Support	Canadian Steward	SDO Maintained	Complexity	Standard Maturity	Training, Support and Tooling
AB MR2009 (HL7 v3)		Production in Canada		Yes (AB)	Localized		High	
pan-Canadian MR2009 (HL7 v3)		Production in Canada		Yes	Localized		High	
PRS XML Messaging		Production in Canada		Yes	No		High	

Architectural Constraints and Considerations	Secondary Benefits
Use of HL7v3 conforms with the architectural design of Canada's digital health blueprint. AB MR2009 extends the Canadian specification with the ability to merge and logically delete providers. HL7v3 messaging does not provide the means to transmit a the history of changes to a provider records. The PRS XML Messaging specification is proprietary to the registry solution but is shared across several provinces.	Standardizing on MR2009 across EHR applications reduces complexity within the infostructure and for implementers by minimizing variability in models and vocabulary.

Recommendation	Supporting Rationale
AB MR2009 (HL7 v3)	The AB MR2009 specification was designed to meet the in-scope use cases for PRS consumers and conforms with the architectural design of Canada's digital health blueprint. It extends the Canadian specification with the ability to merge and logically delete providers.

Source messaging

Source messaging provides the means to transmit information from systems used at various licensing agencies, professional colleges, etc. to the Provider Registry.

Standard	Fit for Purpose			Stewardship		Quality		
	Fits Requirements	Implementation Type	Vendor Support	Canadian Steward	SDO Maintained	Complexity	Standard Maturity	Training, Support and Tooling
PRS XML Messaging		Production in Canada		Yes	No		High	
AB MR2009 (HL7 v3)		Production in Canada		Yes (AB)	Localized		High	
pan-Canadian MR2009 (HL7 v3)		Production in Canada		Yes	Localized		High	

Architectural Constraints and Considerations	Secondary Benefits
Source systems are not typically EHR consumer systems. HL7v3 messaging does not provide the means to transmit a the history of changes to a provider records. (UC-6) The PRS XML Messaging specification is proprietary to the registry solution but is shared across several provinces.	

Recommendation	Supporting Rationale
PRS XML Messaging	The PRS XML specification was designed to meet the in-scope use cases for PRS source systems. Although the specification is proprietary to the specific provider registry solution used in Alberta it is relatively straightforward to implement.