Evaluated Standards

This guide focuses on establishing a new set of HL7 FHIR interfaces to existing EHR resources. Provider Registries have been implemented in various provinces and are mostly employing HL7 v3 messaging standards with sporadic HL7 v2. This guide is proposing extensions of interfaces to these systems using HL7 FHIR and reusing these in a broader, Canadian context.

- 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
HL7 FHIR	[bar ~75%]	Under Development	[bar ~85%]	Yes	Yes	[bar ~25%]	Draft	[bar ~90%]
AB MR2009 (HL7 v3)	[bar ~80%]	Production in Canada	[bar ~85%]	Yes (AB)	Localized	[bar ~90%]	High	[bar ~100%]
pan-Canadian MR2009 (HL7 v3)	[bar ~50%]	Production in Canada	[bar ~20%]	Yes	Localized	[bar ~75%]	High	[bar ~100%]
ON (v3, v2)								
BC (v3)								

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. BC has an implementation that should be described here Ontario has an implementation that should be described here 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 new FHIR interfaces across EHR applications reduces complexity within the infostructure and for implementers by minimizing variability in models and vocabulary.
Recommendation	**Supporting Rationale**
HL7 FHIR	Identify FHIR resources required to implement new interfaces to existing provincial assets to accelerate and ease adoption of content in these Provider Registries.