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2:3.114 Resource SubscriptionTopic Search

This section corresponds to the transaction ITI-114 Resource Subscription Search of the IHE Technical Framework. Transaction [ITI-114] Resource Subscription Search is used by the Resource Notification Subscriber and Resource Notification Broker actors. The Resource Subscription Search [ITI-114] transaction is used to query Subscription or SubscriptionTopic and get back the results.

3.114.1 Scope

The Resource Subscription Search [ITI-114] transaction passes a Resource SubscriptionTopic Search from a Resource Notification Broker.

3.114.2 Actors Roles

Table: Actor Roles

Actor Role

Resource Notification Subscriber Sends the query request to the Resource Notification Broker

Resource Notification BrokerReceives the query and responds

3.114.3 Referenced Standards

FHIR-R4B HL7 FHIR Release 4.3.0

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3.114.4 Interactions

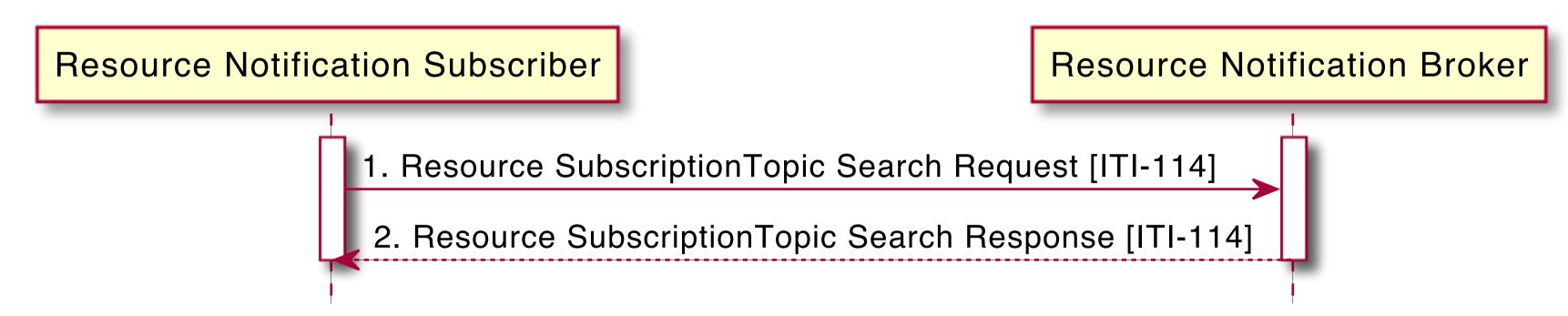


Figure 2:3.114: ITI-114 interactions

3.114.5 Resource SubscriptionTopic Search Request Message

The Resource Notification Subscriber Request Message is a parametrized HTTP GET that allows to search for a list of SubscriptionTopic resources managed by the Resource Notification Broker, based on a set of search parameters.

3.114.5.1 Trigger Events

A Resource Notification Subscriber sends this message to the Resource Notification Broker when it needs to discover a SubscriptionTopic resource.

3.114.5.2 Message Semantics

The Resource Notification Subscriber sends an HTTP GET request to the Resource Notification Broker. This request shall comply with requirements specified in the HL7[®] FHIR[®] standard https://hl7.org/fhir/R4B/http.html#search ^I.

The search target URL follows the FHIR HTTP specification https://hl7.org/fhir/R4B/http.html 🗹, addressing the resource type that the Resource Notification Subscriber is interested to discover.

The Resource Notification Subscriber Request Message can be expressed by addressing the SubscriptionTopic Resource:

GET [base]/SubscriptionTopic?[Parameters]

The Resource Notification Subscriber may provide the optional parameter "_format" to specify the desired MIME-types in the response message. The Resource Notification Broker should accept application/fhir+xml and application/fhir+json as _format parameters. For example, indicating application/fhir+json could result in the response from the

Resource Notification Broker being a json FHIR Bundle with all the content encoded as FHIR resources.

3.114.5.2.1 Query Parameters

The query parameters allowed are the parameters indicated in the Search parameters d section.

Name	Туре	Expression	Description
date	date	SubscriptionTopic.date	Date status first applied
derived-or- self	uri	SubscriptionTopic.url SubscriptionTopic.derivedFrom	A server-defined search that matches either the URL or derivedFrom
identifier	token	SubscriptionTopic.identifier	Business Identifier for SubscriptionTopic
resource	uri	SubscriptionTopic.resourceTrigger.resource	Allowed Data type or Resource (a reference to definition) for this definition, searches resourceTrigger, eventTrigger, and notificationShape for matches.
status	token	SubscriptionTopic.status	draft active retired unknown
title	string	SubscriptionTopic.title	Name for this SubscriptionTopic (Human friendly)
trigger- description	string	SubscriptionTopic.resourceTrigger.description	Text representation of the trigger
url	uri	SubscriptionTopic.url	Logical canonical URL to reference this SubscriptionTopic (globally unique)
version	token	SubscriptionTopic.version	Business version of the SubscriptionTopic

3.114.5.3 Expected Actions

The Resource Notification Broker who received the message shall process the request and respond with the results of the search.

3.114.6 Resource SubscriptionTopic Search Response Message

The Resource Notification Broker returns an HTTP status code appropriate to the processing as well as a Bundle containing a list of the matching SubscriptionTopic resources.

3.114.6.1 Trigger Events

The Resource Notification Broker completed the processing of the request message.

3.114.6.2 Message Semantics

Based on the query results, the Resource Notification Broker will either return an error or success. Guidance on handling Access Denied related to the use of 200, 403, and 404 can be found in ITI TF-2x: Appendix Z.7 . When the Resource Notification Broker needs to report an error, it shall use HTTP error response codes and should include a FHIR OperationOutcome with more details on the failure. See FHIR https://hl7.org/fhir/R4/http.html and https://hl7.org/fhir/R4B/operationoutcome.html.

If the Resource SubscriptionTopic Search message is processed successfully, whether or not any SubscriptionTopic resources are found, the HTTP status code shall be 200. The Resource SubscriptionTopic Search Response message shall be a Bundle Resource containing zero or more SubscriptionTopic Resources. If the Document Responder is sending warnings, the Bundle Resource shall also contain an OperationOutcome Resource that contains those warnings.

The response shall adhere to the FHIR Bundle constraints specified in ITI TF-2x: Appendix Z.7

3.114.6.3 Expected Actions

The Resource Notification Subscriber shall process the results according to application-defined rules.

CapabilityStatement Resource

The Server implementing this transaction shall provide a CapabilityStatement Resource as described in ITI TF-2x: Appendix Z.3 indicating the transaction has been implemented.

Requirements CapabilityStatement for Client

Requirements CapabilityStatement for Server

Security Considerations

See DSUBm Security Considerations

Security Audit Considerations

''TODO: The security audit criteria $^{\prime\prime}$

Client Audit

"TODO: the specifics"

Server Audit

"TODO: the specifics"

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