This page is part of the Document Subscription for Mobile (DSUBm) (v1.0.0-comment: Publication Ballot 1) based on FHIR v4.3.0. . For a full list of available versions, see the Directory of published versions

Narrative Content | XML | JSON | TTL

CapabilityStatement: DSUBm Resource Notification Broker Actor

Official URL: **https://profiles.ihe.net/ITI/DSUBm/CapabilityStatement/IHE.DSUBm.ResourceNotificationBroker**	*Version:* **1.0.0-comment**
Active as of 2023-10-27	*Computable Name:* IHE_DSUBm_ResourceNotificationBroker

The DSUBm Resource Notification Broker Actor CapabilityStatement requirements expresses the requirements that shall be provided.

- Using FHIR R4B
- Shall support both json and xml encoding
- Should use a security framework. Recommend ATNA, encouraged IHE-IUA or SMART-app-launch
- Shall support the ITI-110 transaction and support the basic type of Subscription and related SubscriptionTopic
- May support the ITI-111 transaction
- Shall support the ITI-112 transaction:
  - Shall support Handshake Notification
  - Shall support Heartbeat Notification
  - Shall support Event Notification
  - Should support Subscription Deactivation Notification
- Shall support the ITI-113 transaction:
  - Shall support the following Search Parameters
    - _id
    - status
    - url
    - filter-criteria
    - topic
  - Shall support the DSUBm $status operation
  - Should support the DSUBm $events operation
- Shall support the ITI-114 transaction:
  - Shall support the following Search Parameters
    - _id
    - resource
    - derived-or-self
    - status
    - url

Raw OpenAPI-Swagger Definition file | Download

IHE DSUBm ResourceNotificationBroker

- Implementation Guide Version: 1.0.0-comment
- FHIR Version: 4.3.0
- Supported Formats: `application/fhir+xml` , `application/fhir+json`
- Supported Patch Formats:
- Published on: Fri Oct 27 00:00:00 CDT 2023
- Published by: IHE IT Infrastructure Technical Committee

> **Note to Implementers: FHIR Capabilities**
>
> Any FHIR capability may be 'allowed' by the system unless explicitly marked as "SHALL NOT". A few items are marked as MAY in the Implementation Guide to highlight their potential relevance to the use case.

FHIR RESTful Capabilities

REST Configuration 1

Mode: `server`

DSUBm Resource Notification Broker provides capability to receive subscription, receive the stream of events, receive Subscription and SubscriptionTopic Resource search

Security

> Recommend ATNA, encouraged IHE-IUA or SMART-app-launch

Summary of System-wide Interactions

- Supports the `transaction` interaction described as follows:
  https://profiles.ihe.net/ITI/MHD/StructureDefinition-IHE.MHD.Minimal.ProvideBundle.html

Capabilities by Resource/Profile

Summary

The summary table lists the resources that are part of this configuration, and for each resource it lists:

- The relevant profiles (if any)
- The interactions supported by each resource (**R**ead, **S**earch, **U**pdate, and **C**reate, are always shown, while **V**Read, **P**atch, **D**elete, **H**istory on **I**nstance, or **H**istory on **T**ype are only present if at least one of the resources has support for them.
- The required, recommended, and some optional search parameters (if any).
- The linked resources enabled for `_include`
- The other resources enabled for `_revinclude`
- The operations on the resource (if any)

Resource Type	Profile	R	S	U	C	Searches	_include	_revinclude	Operations
Subscription	Supported profiles: Subscription for DocumentReference Patient-Dependent Subscription for DocumentReference Multi-Patient Subscription for SubmissionSet Patient-Dependent Subscription for SubmissionSet Multi-Patient	y	y	y	y	_id, status, url, filter-criteria, topic			
SubscriptionTopic		y	y			_id, resource, derived-or-self, status, url			

Subscription — Resource Conformance: supported

Core FHIR Resource
Subscription

Reference Policy

Interaction summary
- Supports `read` , `create` , `update` , `search-type` .

Supported Profiles
https://profiles.ihe.net/ITI/DSUBm/StructureDefinition/DSUBm-DocumentReference-PatientDependent-Subscription
https://profiles.ihe.net/ITI/DSUBm/StructureDefinition/DSUBm-DocumentReference-MultiPatient-Subscription
https://profiles.ihe.net/ITI/DSUBm/StructureDefinition/DSUBm-SubmissionSet-PatientDependent-Subscription
https://profiles.ihe.net/ITI/DSUBm/StructureDefinition/DSUBm-SubmissionSet-MultiPatient-Subscription

Documentation

> Resource Subscription [ITI-110] and Resource Subscription Search [ITI-113]

Search Parameters

Conformance	Parameter	Type	Documentation
SHALL	_id	`string`	The id of the Subscription
SHALL	status	`token`	The current state of the subscription
SHALL	url	`uri`	The URI that will receive the notifications
SHALL	filter-criteria	`string`	This SearchParameter enables query of subscriptions by filter criteria
SHALL	topic	`uri`	This SearchParameter enables query of subscriptions by canonical topic-url

Extended Operations

Conformance	Operation	Documentation
SHALL	`$events`	The Response Bundle shall be conformed with https://profiles.ihe.net/ITI/DSUBm/StructureDefinition/DSUBm-EventsOperation-Bundle
SHALL	`$status`	The Response Bundle shall be conformed with https://profiles.ihe.net/ITI/DSUBm/StructureDefinition/DSUBm-StatusOperation-Bundle

SubscriptionTopic — Resource Conformance: supported

Core FHIR Resource
SubscriptionTopic

Reference Policy

Interaction summary
- Supports `read` , `search-type` .

Documentation

> Resource SubscriptionTopic Search [ITI-114] The Resource Notification Broker Actor shall support the canonical instances of SubscriptionTopic presented in the DSUBm profile. see here

Search Parameters

Conformance	Parameter	Type	Documentation
SHALL	_id	`string`	The id of the SubscriptionTopic
SHALL	resource	`uri`	Allowed Data type or Resource (reference to definition) for this definition, searches resourceTrigger, eventTrigger, and notificationShape for matches.
SHALL	derived-or-self	`uri`	A server defined search that matches either the url or derivedFrom
SHALL	status	`token`	Should be valued with `active`
SHALL	url	`uri`	Logical canonical URL to reference this SubscriptionTopic (globally unique)

REST Configuration 2

Mode: `client`

DSUBm Resource Notification Broker provides capability to send notification

Security

> Recommend ATNA, encouraged IHE-IUA or SMART-app-launch

Summary of System-wide Interactions

Capabilities by Resource/Profile

Summary

The summary table lists the resources that are part of this configuration, and for each resource it lists:

- The relevant profiles (if any)
- The interactions supported by each resource (**R**ead, **S**earch, **U**pdate, and **C**reate, are always shown, while **V**Read, **P**atch, **D**elete, **H**istory on **I**nstance, or **H**istory on **T**ype are only present if at least one of the resources has support for them.
- The required, recommended, and some optional search parameters (if any).
- The linked resources enabled for `_include`
- The other resources enabled for `_revinclude`
- The operations on the resource (if any)

Resource Type	Profile	R	S	U	C	Searches	_include	_revinclude	Operations
Bundle	Supported profiles: https://profiles.ihe.net/ITI/DSUBm/StructureDefinition/IHE.DSUBm.ResourceNotify.EventNotification https://profiles.ihe.net/ITI/DSUBm/StructureDefinition/IHE.DSUBm.ResourceNotify.HandshakeNotification https://profiles.ihe.net/ITI/DSUBm/StructureDefinition/IHE.DSUBm.ResourceNotify.HeartbeatNotification https://profiles.ihe.net/ITI/DSUBm/StructureDefinition/IHE.DSUBm.ResourceNotify.SubscriptionDeactivationNotification								

Bundle — Resource Conformance: supported

Core FHIR Resource
Bundle

Reference Policy

Interaction summary

Supported Profiles
https://profiles.ihe.net/ITI/DSUBm/StructureDefinition/IHE.DSUBm.ResourceNotify.EventNotification
https://profiles.ihe.net/ITI/DSUBm/StructureDefinition/IHE.DSUBm.ResourceNotify.HandshakeNotification
https://profiles.ihe.net/ITI/DSUBm/StructureDefinition/IHE.DSUBm.ResourceNotify.HeartbeatNotification
https://profiles.ihe.net/ITI/DSUBm/StructureDefinition/IHE.DSUBm.ResourceNotify.SubscriptionDeactivationNotification

Documentation

> Resource Notify [ITI-112]

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