Document title
translationReport
Date
2025-10-09
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Document type
SD
Version
5.1.0
Status
DRAFT
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translationReport

Service Description

Abstract
This document provides service description for the **translationReport** service.

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1   Overview

This document describes the **translationReport** service, which allows to send events about the life cycle of translation bridges. An example of this interaction is when an interface translator system reports a "bridge is used" event whenever a consumer sends a request to the entry point of the translation bridge.

To enable other systems to use, to consume it, this service needs to be offered through the ServiceRegistry.

The **translationReport** service contains only one operation:

- *report* sends a message about an event related to a translation bridge. Events can be about usage, closing or some kind of error.

The rest of this document is organized as follows. In Section 2, we describe the abstract message operation provided by the service. In Section 3, we end the document by presenting the data types used by the mentioned operation.

1.1   How This Service Is Meant to Be Used

This service should only be used by interface translator application systems.

Interface translators should call the *report* operation whenever something "interesting" event happens with one of their translation bridges. "Interesting" events can be

- the consumer using the translation bridge;

- the translation bridge is closed by the interface translator due to inactivity;

- the translation bridge suffered some error.

1.2   Important Delimitations

The requester has to identify itself to use any of the operations.

1.3   Access policy

Available for interface translator systems.

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2 Service Operations

This section describes the abstract signatures of each operations of the service. In particular, each subsection names an operation, an input type and one or two output types (unsuccessful operations can return different structure), in that order. The input type is named inside parentheses, while the output type is preceded by a colon. If the operation has two output types, they are separated by a slash. Input and output types are only denoted when accepted or returned, respectively, by the operation in question. All abstract data types named in this section are defined in Section 3.

2.1 operation report (TranslationReportRequest) : OperationStatus / ErrorResponse

Operation *reports* sends a message about an event related to a translation bridge. The request data must meet the following criteria:

- Bridge identifier is mandatory and must be a valid TranslationBridgeID.

- An interface translator can only report about the translation bridges that belong to itself.

- Timestamp is mandatory and must be a valid DateTime.

- State is mandatory and must be a valid TranslationBridgeEventState.

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3   Information Model

Here, all data objects that can be part of the **translationReport** service are listed and must be respected by the hosting system. Note that each subsection, which describes one type of object, begins with the *struct* keyword, which is used to denote a collection of named fields, each with its own data type. As a complement to the explicitly defined types in this section, there is also a list of implicit primitive types in Section 3.4, which are used to represent things like hashes and identifiers.

3.1   struct TranslationReportRequest

Field	Type	Mandatory	Description
authentication	Identity	yes	The requester of the operation.
bridgeId	TranslationBridgeID	yes	Unique identifier of the related translation bridge.
timestamp	DateTime	yes	Event occurs at this time.
state	TranslationBridgeEventState	yes	The kind of the event. Determines the new state of the translation bridge.
errorMessage	String	no	Error message if the report is about a translation bridge error.

3.2   struct Identity

An Object which describes the identity of a system. It also contains whether the identified system has higher level administrative rights.

3.3   struct ErrorResponse

Field	Type	Description
status	OperationStatus	Status of the operation.
errorMessage	String	Description of the error.
errorCode	Number	Numerical code of the error.
type	ErrorType	Type of the error.
origin	String	Origin of the error.

3.4   Primitives

Types and structures mentioned throughout this document that are assumed to be available to implementations of this service. The concrete interpretations of each of these types and structures must be provided by any IDD document claiming to implement this service.

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Type	Description
DateTime	Pinpoints a specific moment in time.
ErrorType	Any suitable type chosen by the implementor of service.
Number	Decimal number.
Object	Set of primitives and possible further objects.
OperationStatus	Logical, textual or numerical value that indicates whether an operation is a success or a failure. Multiple values can be used for success and error cases to give additional information about the nature of the result.
String	A chain of characters.
TranslationBridgeEventState	The kind of a translation bridge event. Any suitable state chosen by the implementor.
TranslationBridgeID	A unique character sequence that identifies translation bridges and/or discovery information about potential translation bridges.

4 References

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5   Revision History

5.1   Amendments

No.	Date	Version	Subject of Amendments	Author
1	YYYY-MM-DD	5.1.0		Xxx Yyy

5.2   Quality Assurance

No.	Date	Version	Approved by
1	YYYY-MM-DD	5.1.0	