

Meeting: 2nd SSN / LRIT Group Meeting

Place and date: Lisbon, 18 October 2017

Agenda item: Proposal for monitoring web services

Document number: SSN/LRIT 2.4.6

Submitted by EMSA

Summary	The document presents a common approach for monitoring web services.
Action to be taken	As per paragraph 3.
Related documents	XML Messaging Reference Guide, Section 3.3 (v3.05) SSN Web Services (v1.40)

1 Background

The majority of MS systems perform data buffering during SSN downtime. The data buffering of messages is performed in case of communication failure between the MS system and the central SSN system or when the central SSN system is down (detected by the lack of a Receipt - time out).

Data buffering of specific messages may also be performed when the Receipt message contains the ServerError status code, which according to the XML Messaging Reference Guide indicates a connection, database or application problem.

Several MSs use ad-hoc approaches for monitoring SSN availability, as shown in the example below:

- Calling the SSN XML interface welcome page, which displays the following message:

SSN is up. Post your XML at "/ssn.do"

- Sending an empty PortPlus notification

2 Proposed steps

The following steps are proposed for monitoring web services:

- Data buffering shall continue to be performed, depending on time out and eventually the ServerError status code of the Receipt message.
- Monitoring of the central SSN system should only be carried out as an auxiliary information mechanism.
- The monitoring mechanism chosen should attempt to minimise the logging of monitoring messages, not requiring the identification of the calling system.
- Monitoring should be aligned with the messaging interface types that are used for sending notifications (i.e. XML or SOAP).

Depending on the type and version of the interface, monitoring should be carried out as shown below:

SSN SOAP interface

- Call WSDL URL (using HTTP GET)
 - v3:<https://safeseanet-eis.emsa.europa.eu:448/ssn-xmlprotocol-v3-ws/ssnmessageservice/message.wsdl>
- Normal response
 - WSDL content
 - Check HTTP 200 or 202
 - No need to check content

SSN XML interface

- Send an empty message (using HTTP POST, no content)
 - v3:<https://safeseanet-eis.emsa.europa.eu:448/ssn-xmlprotocol-v3-web/ssn.do>
- Normal response
 - Receipt message with status code InvalidFormat and status message
Empty message received.
 - Check HTTP 200 or 202
 - No need to check content

The above URLs are from SSN production, while those for SSN training begin with <https://eis-training.emsa.europa.eu>

3 Actions required

MSs are invited to provide feedback and approve the common guidelines for the monitoring of web services. MSs are also invited to inform EMSA (by 24th November) of the monitoring sensors already in place (i.e. type of sensor, frequency and check/verification being made) and to indicate a feasible date for harmonisation of the sensor with the monitoring guidelines.