IHE Work Item Proposal (Short)

# Proposed Work Item: jDSG

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Work item Editor: to be identified – resources available

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Domain: ITI

# The Problem

IHE currently has a Document Digital Signature (DSG) profile that uses the XAdES-X-L specification for signing XML documents (HL7 CDA R2) using a set of signature options (e.g. Detached, SubmissionSet, Enveloping). DSG does not have an option for JSON signatures. There is an increasing use of the HL7 FHIR specification and usage of JSON representation of HL7 FHIR Documents.

# Key Use Case

A Content Creator that conforms to the IHE DSG profile shall have the capability to create a JSON digital signature document conforming to the Document Digital Signature content module using one of the signature options (Detached, SubmissionSet, Enveloping), as per [IHE TF-3: 5.5.2](https://profiles.ihe.net/ITI/TF/Volume3/ch-5.5.html#5.5.2) / [IHE TF-3: 5.5.3](https://profiles.ihe.net/ITI/TF/Volume3/ch-5.5.html#5.5.3) (assuming JSON modification to IHE TF text)

A Content Consumer that conforms to the IHE DSG profile shall have the capability of verifying a JSON digital signature document conforming to the Document Digital Signature content module using one of the signature options (Detached, SubmissionSet, Enveloping), as per [IHE TF-3: 5.5.5](https://profiles.ihe.net/ITI/TF/Volume3/ch-5.5.html#5.5.5) (assuming JSON modification to IHE TF text)

# Standards & Systems

* IHE Document Digital Signature (DSG) <https://profiles.ihe.net/ITI/TF/Volume1/ch-37.html>
* IHE DSG Content <https://profiles.ihe.net/ITI/TF/Volume3/ch-5.5.html>
* JAdES, the JSON analogue of XAdES used by DSG for XML content <https://www.etsi.org/deliver/etsi_ts/119100_119199/11918201/01.01.01_60/ts_11918201v010101p.pdf>

# Discussion

IHE already provides specification on document signature in an XML format.