

Supplement XXX

APPLICATION REQUEST WG-23

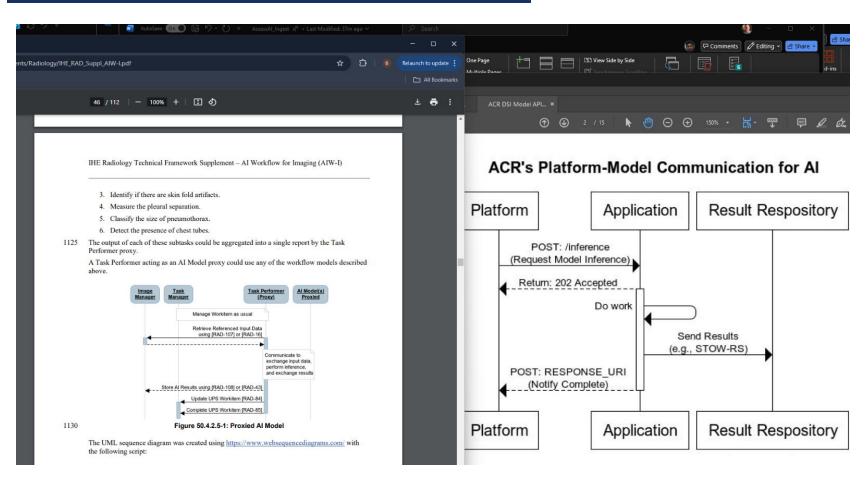
Background



- Rise in Artificial Intelligence and Microservice Applications in medical imaging space
- Work being done under NWIP # 2020-08-A Service Discovery and Control
- Previous Supplement 224 work was paused and scrapped due to inability to agree on scope
- Updated Application Program Interface (API) and retire previous PS3.19 SOAP
 API
- The API was first proposed by the American College of Radiology's Data Science Institute (ACR DSI)
- Extended by the MONAI Deploy Informatics Gateway (MIG) for inference requests
- This API fills the gap in IHE's AI Workflow for Imaging (AIW-I) profile where a Task Performer (Proxy) communicates and exchanges input data to perform inference and exchange results

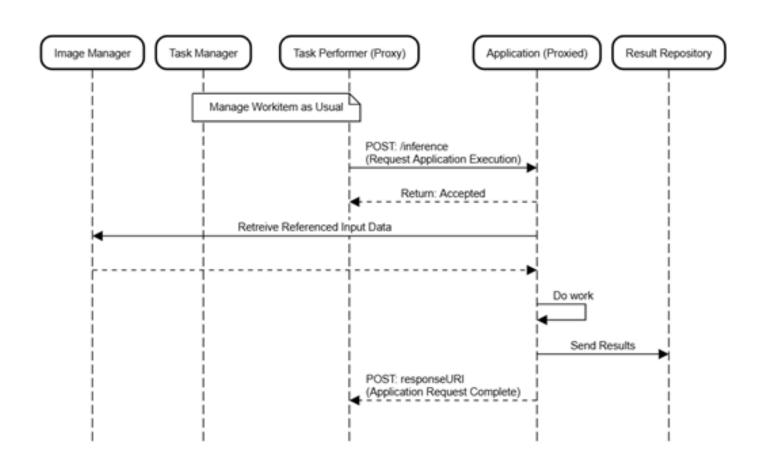
Proposal





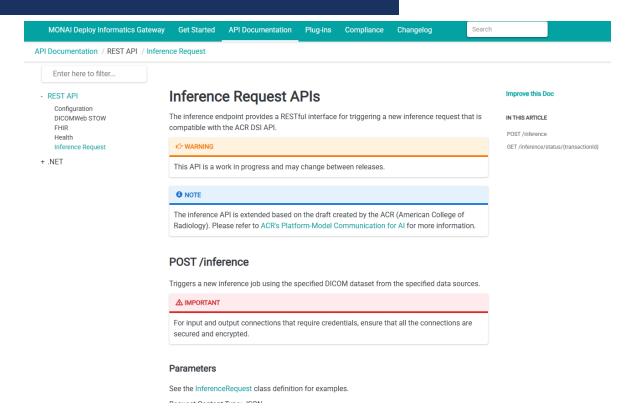
Proposal







Real-World Implementation



MONAI AI - https://monai.io/monai-deploy-informatics-gateway/api/rest/inference.html

IHE AIW-I https://www.ihe.net/uploadedFiles/Documents/Radiology/IHE_RAD_Suppl_AIW-I.pdf

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Issues/Concerns



- MONAI and ACR Approval
 - Contacts
 - Brad Genereaux Nvidia
 - Brian Bialecki ACR
- As this is currently implemented, and in use, trying to make little changes
- Future IHE CP to fill gap