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Last Change	Review	Approval

Document History

Version	Date	Changes	JIRA-Ticket	Name
V1	2025-09-11	Release of v1.0 of gammaSTAR Parser	n/a	dhoi

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1 Introduction and Overview

This document summarizes the delivery of the **gammaSTAR Parser** that parses the gammaSTAR raw representations to enable simulation via the MRZero MRI simulation tool.

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2 Release Summary

Software Component	gammaSTAR Parser
Version	<a href="https://gitlab.fme.lan/hussain/gstar-parser">https://gitlab.fme.lan/hussain/gstar-parser</a> <ul style="list-style-type: none"> <li>SHA: 574588c8f7c69bdf9a0fbba01f88302917467edc</li> </ul> <a href="https://gitlab.fme.lan/hussain/pygstar">https://gitlab.fme.lan/hussain/pygstar</a> <ul style="list-style-type: none"> <li>SHA: 854e05963b2ee8086236757e31b4615aa155c0a9</li> </ul>
Embedding Product(s)	Not applicable
Purpose of this Release	Provision of the gammaSTAR Parser v1.0.1 software under AGPLv3-clause license for research and educational purposes. Not for clinical use.
OS and Compiler Details	OS: Windows 11 Python Version: 3.12
Embedded Libraries	<p>The following libraries are used by the software. Detailed license information is contained in the delivered "third_party_licenses" folder and in the NOTICE file.</p> <ul style="list-style-type: none"> <li>torch (PyTorch) – BSD License</li> <li>numpy – BSD License</li> <li>matplotlib – Matplotlib License (based on PSF)</li> <li>MRzero - AGPL-3.0 license</li> <li>serde (MIT or Apache-2.0)</li> <li>serde_json (MIT or Apache-2.0)</li> <li>thiserror (MIT or Apache-2.0)</li> <li>ezpc (MIT)</li> <li>interp (MIT or Apache-2.0)</li> <li>serde_with (MIT or Apache-2.0)</li> <li>pyo3 (MIT or Apache-2.0)</li> </ul>
Functionality	The software is written in python and rust to parse the gammaSTAR raw representations to make them accessible for MR Zero simulations. It provides an updated sequence.py file for integration into MR Zero Core.
Regulatory Compliance	THIS SOFTWARE IS PROVIDED "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED.

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	In particular, Fraunhofer MEVIS does not ensure compliance to medical product regulations for the release.
<b>Safety Classification</b>	None
<b>Risk Measures</b>	No risk measures defined.
<b>Known Nonconformities and Restrictions</b>	The software is not qualified for use as a medical product or as part thereof. No bugs or restrictions are known.