| Type | Component | Issue ID | Description |
|------|-----------|----------|-------------|
| **New Feature** | Database | AST-7083 | The MS SQL driver has been updated to the JDBC driver for SQL Server provided by Microsoft to ensure compatibility with Java 8 and to support SSL encryption. |
| **Improvement** | 3rd party library | AST-7110 | The JRE version in astraia is updated to JRE8u322. |
| **Improvement** | 3rd party library | AST-7127, AST-7122 | A critical vulnerability discovered in Apache Log4J leaves versions of Log4J prior to 2.15.0 exposed to a remote code execution vulnerability. The log4J version in astraia has now been updated to 2.17.1. |
| **Improvement** | Database | TEST-538 | Oracle 19 is supported in astraia 29.0. Older versions of Oracle are no longer compatible or supported by this astraia version. |
| **Bug** | Options, Properties | AST-7100 | The property editor reported a duplicate key when the property value was the same as an existing key, and therefore the property could not be saved. This has now been fixed. It is now possible to save a new property if the key is not duplicated, but the value is the same as the key of an existing property. |
| **Plugins** | | | |
| **New Feature** | Record Update Manager | ASTHLS-582 | The user will be notified if astraia received an update message from an external system while the patient is open. The user will have then the choice to apply the update directly or wait for the patient to be closed. |
| **New Feature** | Data Export | ASTHLS-603 | It is now possible to have a report template selection dependent on the Data export event used to trigger the message. |
| **New Feature** | Visit Management | ASTHLS-381 | A new way to search for patient orders have been introduced. It is now possible to search on a worklist based on order of a selected day (by default current). |

| Type | Component | Issue ID | Description |
|------|-----------|----------|-------------|
| **Improvement** | Worklist server | ASTWS-51 | Added Polish character set ISO_IR 101 to supported character set ISO 8859-2 in DICOM Worklist. |
| **Improvement** | Exchange server | ASTHLS-604 | It is now possible to create multiple instances of Astraia Exchange service, allowing to create dedicated feeds for each type of received/sent messages. |
| **Improvement** | Exchange server | ASTHLS-557 | Improvements have been made to treat correctly faulty HL7 messages send via file. They are not correctly placed in a dedicated directory. |
| **Improvement** | Exchange server | ASTHLS-602 | General improvements have been made to have better performances from astraia exchange on data network transfers. |
| **Improvement** | Visit Management | ASTHLS-595 | It is now possible to import episode data, using the Visit number as identifier.<br>The import is successful, even if the same Visit Number is used in multiple exams. |
| **Improvement** | Visit Management | ASTHLS-205 | A patient saved trigger is now existing as a possible event trigger for Host System.<br>In contrast to the existing save trigger, the event will be completed only if the patient was successfully saved. |
| **Improvement** | Data export | ASTHLS-591 | The DICOM PDF export plugin is deprecated in 29.0 and will be replaced by an external solution that needs to be configured. Please contact support@astraia.com for assistance. |
| **Bug** | Exchange server | ASTHLS-556 | In the visit management, the order ID was shown in the selection dialog with the label accession number, even if configured not to be handled as accession number. This has been corrected to avoid confusion. |
| **Bug** | Exchange server | ASTHLS-552 | The passive file interface allows the administrator to configure astraia exchange to 'receive' messages on the file-system, within a particular directory. This did not work in the past and is now corrected. |

| Type | Component | Issue ID | Description |
| --- | --- | --- | --- |
| **Bug** | Record Update Manager | ASTHLS-600 | Episode level updates are applied to a patient even if visit/order updates have not been applied yet by Record Update Manager. |
| **Bug** | Host System Event Mapper | ASTHLS-593 | Multiple user action wrapper instances can now be created. |
| **Bug** | Visit Management | ASTHLS-544 | A fix has been made so astraia doesn't import the oldest visit information in a new exam if the user decides not to use any visit information. |
| **Bug** | Data export | ASTHLS-543 | Data export is now successfully performed on a second validation. |