

# e-AS2 9.19

## Release Notes

Esker EDI Services

**e-AS2 9.19**

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# 1 Introduction

These Release Notes begin with version 8.0 of e-AS2. For each version the differences compared to the previous version are documented. Release Notes for versions older than 8.0 are still available in a separate document. The last available release of the version 7 major release branch is version 7.11.0. So, that version is the starting point for this document.

All e-AS2 editions (Connect, Enterprise, Cluster, ME (Mixer Edition)) are covered by these Release Notes. Where necessary, changes that apply to only one edition, are marked accordingly. We add tags as follows to the section titles for that purpose.

- `[[Connect]]` (Connect Edition only)
- `[[Enterprise]]` (this implicitly includes `[[Cluster]]` and `[[ME]]` in most cases and excludes `[[Connect]]`)
- `[[Cluster]]` (Cluster Edition only)
- `[[ME]]` (Mixer Edition only)

Obviously this means that sections without any of the above mentioned tags apply to all editions of e-AS2.



## 2 Release Notes

### 2.1 Version 8.0

In this section the differences compared to version 7.11 are documented. Find information about that and older versions in document `release_notes_pre_version_8.pdf`.

#### 2.1.1 New Release Notes document, now in English

As of version 8 the documentation in German language is discontinued. As for the user manuals, that existed in two languages already, only the English version will continue to be maintained. Those documents that only existed in a German version will be translated into English. An exception is this Release Notes document, which starts new beginning with version 8.

The current status of this documentation migration is as follows.

Document	SW-Version	Language
e-AS2 Release Notes	8.0.2	English
e-AS2 Connect User Manual	8.0	English
e-AS2 Enterprise User Manual	8.0	English
e-AS2 ME User Manual	7.8	German
e-AS2 SMTP Manual	6.0	German
e-AS2 Setup Manual	7.0	German

Additional documentation translations from German into English will follow soon. The German language documents will remain available to users for reference.

#### 2.1.2 Two more REST interfaces **[[Cluster]]**

Cluster Edition got two more REST interfaces, now ending up in a total of six interfaces that are usable in parallel. This gives the user maximum flexibility even in complex migration scenarios.

For details on this change read Appendix B.6.3 in the Enterprise user manual.

#### 2.1.3 Added support for **ORG\_DOC\_ID** **[[Enterprise]]**

Besides `DOC_ID` now also `ORD_DOC_ID` is supported in both `INF` and `RES` files. The corresponding REST APIs support both doc IDs as well. You'll find details on `ORG_DOC_ID` handling at several places in the user manual.

#### 2.1.4 GUI improvements

##### Faster GUI launch

As of version 8 of e-AS2 the GUI client launches significantly faster when connecting to servers that process high numbers of transactions per day. For small installations you probably won't notice the difference.

##### Faster transaction loading

Most important measure for speeding up GUI launch was to load the transaction list in the background. This does not only have an effect during startup but also during regular GUI use.

When you switch day or perform a search on transactions, then the resulting transaction set will be loaded in the background. The first transactions found will be displayed in the list after a second. From then on every second more transactions will be added to the list until it is complete.

Since in most cases the GUI user will be interested in the most recent transactions, the sort order was reversed. So, as of version 8 of e-AS2 the most recent transactions will be displayed at the top of the list.

### **2.1.5 Bug fixes**

#### **Perl scripts broken**

The scripts `eas2plst.pl` and `eas2pmod.pl` were broken since a few version 7 minor releases. As of version 8 they work again.

#### **GUI crashes when searching for transaction ID**

A bug was fixed, that made the GUI crash when the user entered letters in the transaction ID search field in the transaction search dialog.

#### **GUI crashes when importing certificate**

A bug was fixed, that made the GUI crash when the user tried to import a certificate that contained line feeds in the subject or issuer field.

### **2.1.6 Functionality that was removed**

#### **Direct Client (eas2dc)**

The OS native program `eas2dc` (Direct Client) is no longer supported. It is not anymore part of the distribution. Also, when updating to version 8, `eas2dc` will be deleted, should it exist on disk due to a previous installation. (It's no use to keep the programm, since older versions will not work with version 8 servers anymore.)

#### **Notification Client**

The notification mechanism, that was introduced to e-AS2 with version 6.1, was removed. The server does not support notification anymore. Attempts to connect to the server with existing NTF clients versions will fail. (To our knowledge the NTF functionality was never productively used by any customer. Should you be interested in that functionality or should you have even used it to integrate with your EDI or ERP system, please contact Sales in order to check how we can continue to support your needs.)

#### **German Language Connect Manual [[Connect]]**

The e-AS2 Connect Manual will no longer be maintained in German language. (The version 7 manual will remain to be available, though.)

#### **German Language Enterprise Manual [[Enterprise]]**

The e-AS2 Enterprise Manual will no longer be maintained in German language. (The version 7 manual will remain to be available, though.)

#### **German Language Release Notes**

The e-AS2 Release Notes will no longer be maintained in German language. (Historical Release Notes will remain to be available in German, though.)

## Support for non-Linux UNIX systems

As of version 8 of e-AS2 non-Linux UNIX systems are not officially supported anymore. The Tanuki Service Wrapper binaries for those OS's are not anymore part of the distribution. However, provided Java 8 is available on the system, you will most probably still be able to install and operate e-AS2 without problems. If you intend to run e-AS2 on a non-Linux UNIX flavor, please contact Sales in order to check how we can continue to support your needs.

## 2.2 Version 8.0.1

### 2.2.1 Enterprise User Manual [[Enterprise]]

The Enterprise User Manual was completely re-read, revised and updated to the current software functionality. Numerous inaccuracies and errors were fixed in the process.

### 2.2.2 Removed support for specifying MSGID by file name for async MDN trigger files [[Enterprise]]

The option to specify the MSGID by file name for async MDN trigger files was declared deprecated with version 5.0 and was now removed. Should you use async MDN trigger files to initiate async MDNs and should you still use file names to specify the MDGID then you must migrate to the new way to specify the MDGID by file content before upgrading to version 8. If you fail to do so, async MDNs will stop to work.

### 2.2.3 Bug fixes

#### Switching between timezones broken

A bug was fixed, that made transactions time stamps shown in the list partially wrong after switching timezone from local to Server or vice versa.

## 2.3 Version 8.0.2

### 2.3.1 Connect User Manual [[Connect]]

The Connect User Manual was completely re-read, revised and updated to the current software functionality. Numerous inaccuracies and errors were fixed in the process.

### 2.3.2 Bug fixes

#### Timezone support still broken

A bug was fixed, that made transactions time stamps shown in the list partially wrong when new transactions were inserted at the top after refresh.

#### Server crash when file name containing single quote is provided for send

A bug was fixed, that made the server crash, when file names were processed that contained single quotes. This only applied the the directory interface for sending files, typically (bot not only) used by e-AS2 Connect.

#### e-AS2 server not stopping properly [[Cluster]]

A bug was fixed, that prevented the e-AS2 server from properly stopping, when the MySQL database was being stopped before e-AS2 and REST API calls were received during the period of time MySQL needed to stop completely.

### Wrong color in certificate details

A bug was fixed, that made the “valid to” timestamp being displayed in yellow instead of red in the details of certificates, whose validity had expired.

### 2.3.3 Functionality that was removed

#### Re-parse functionality from e-AS2 Connect [[Connect]]

In e-AS2 Connect re-parse of transactions does not make much sense. Therefore it was removed.

#### Installer component “EdiStar Integration”

Since EdiStar is obsolete software and support for EdiStar in e-AS2 is discontinued, the regarding installer component was removed. The corresponding scripts still exist. They will automatically be installed together with the Server component on non-Windows operating systems. However, they may be subject to substantial changes in the future and should not be used in production environments.

## 2.4 Version 8.0.3

### 2.4.1 Added support for 64-bit Windows

64-bit Windows installations are now explicitly supported. If you choose the 64-bit installer for Windows, then the 64 bit Tanuki Service Wrapper and the 64-bit Java Runtime will be installed.

It is possible to upgrade existing 32-bit installations by updating them with the 64-bit installer.

### 2.4.2 Setup manual translated to English and fully updated

The setup manual is now available in English. The German version is being discontinued. The manual was fully updated to match version 8.0 of e-AS2.

The current status of the documentation migration is now as follows.

Document	SW-Version	Language
e-AS2 Release Notes	8.0.3	English
e-AS2 Connect User Manual	8.0	English
e-AS2 Enterprise User Manual	8.0	English
e-AS2 ME User Manual	7.8	German
e-AS2 SMTP Manual	6.0	German
e-AS2 Setup Manual	8.0	English

### 2.4.3 Bug fixes

#### Complete update of e-AS2 Connect installations may fail [[Connect]]

A bug was fixed, that could cause complete update of e-AS2 Connect installations to fail. Since this happens because of an error in DB export, the bug fix will only help for future updates. Should you experience problems while updating e-AS2 Connect, please contact e-integration Support!

## Insufficient backup files during update of HSQLDB base installations

A bug was fixed, that caused HSQLDB backup files to be incomplete. These backup files allow for complete rollback in case of serious database related problems during the update.

## 2.5 Version 8.0.4

### 2.5.1 SMTP feature manual translated to English and fully updated [[Enterprise]]

The user manual of the e-AS2 SMTP feature is now available in English. The German version is being discontinued. The manual was fully updated to match version 8.0 of e-AS2.

The current status of the documentation migration is now as follows.

Document	SW-Version	Language
e-AS2 Release Notes	8.0.4	English
e-AS2 Connect User Manual	8.0	English
e-AS2 Enterprise User Manual	8.0	English
e-AS2 ME User Manual	7.8	German
e-AS2 SMTP Manual	8.0	English
e-AS2 Setup Manual	8.0	English

### 2.5.2 Minor improvements and bug fixes

This version contains minor UI improvements and bug fixes.

## 2.6 Version 8.0.5

### 2.6.1 New status REST-API for connection testing [[Enterprise]]

A new REST-API was added to the e-AS2 that has the purpose of identifying a valid e-AS2 connection. This simple API returns very basic information about the e-AS2 (currently only its name). The API is used by JAMES to test an e-AS2 Rest Communication Module for an active connection.

## 2.7 Version 8.1

### 2.7.1 Java 11

The software now needs Java 11 or higher to run. For Windows and macOS adequate Java runtimes are included in the installer. For installations on Linux it is the responsibility of the user to provide a suitable Java runtime on OS level.

### 2.7.2 MIXER edition manual translated to English and fully updated [[ME]]

The user manual of the e-AS2 MIXER edition is now available in English. The German version is being discontinued. The manual was fully updated to match version 8.1 of e-AS2.

Documentation migration to English is now finished.

### **2.7.3 Enhanced dry-run mode [[Enterprise]]**

Dry-run functionality was extended, so that dry-run now comes in two flavors. After having uploaded the intended payload file for the simulated receive process, the user may now decide whether or not to mark the resulting receive transaction as being a dry-run transaction.

If the user chooses to not mark the transaction as being a dry-run transaction, then the data will be passed to the subsequent processing system without the according flag set. This means that it cannot be distinguished from real productive data by the subsequent system.

This new feature should be used with care.

### **2.7.4 Limited error handling [[Enterprise]]**

A new mode of operation called “limited error handling” was introduced. This results in operator-free processing within e-AS2, thus moving the responsibility to react on transmission errors to the system that created the send job. The decision whether or not to request limited error handling can be done on a per-transaction basis.

Find more details on this new feature in the user manual.

### **2.7.5 Increased field size for certificate alias**

Certificate aliases may now have a length of up to 64 characters.

### **2.7.6 Improved logging for negative HTTP responses**

Should the remote AS2 instance fail to reply with HTTP status “200 OK” more details are being logged, that allow for better analysis of the problem behind.

### **2.7.7 GUI bug fixes**

Various GUI bugs were fixed in this release.

## **2.8 Version 8.1.1**

### **2.8.1 Added support for “201 Created”**

HTTP Status Code “201 Created” was added to the list of status codes that are accepted as indicating successful processing.

### **2.8.2 Increased length of description field**

The length of the description field in transaction records was doubled, now: 1024.

## **2.9 Version 8.1.2**

### **2.9.1 GUI compatibility with older versions**

A minor bug that prevented the GUI from loading transactions from pre-8.1 servers was fixed.

## **2.10 Version 8.1.3**

### **2.10.1 Fixed GUI start-up problems [[Connect]]**

Version 8.1 introduced a bug that prevented the GUI from starting. It only happened in e-AS2 Connect. The bug was fixed with this release.

## 2.11 Version 8.1.4

### 2.11.1 Fixed line breaks handling in error description

Line break handling for the transaction's description field was extended to cover not only LF characters but also CR characters. This fixes a potential problem in processing error messages stored in the transaction record.

## 2.12 Version 8.2

### 2.12.1 Sending HTML mails [[Enterprise]]

It is now possible to send HTML mails by setting the content type to `text/html`. Find more details on this topic in the e-AS2 SMTP manual.

### 2.12.2 Sending test files option in GUI enhanced [[Enterprise]]

The user now has more control over the attributes of the send test file transaction. The subject and content type of the test transaction can now be set explicitly. Additional options are available for partner profiles that are used to send emails. Find more details on this topic in the e-AS2 user manual.

### 2.12.3 Dry-run feature in GUI enhanced [[Enterprise]]

The user now has more control over the attributes of the dry-run transaction. The subject and content type of the dry-run transaction can now be set explicitly. Additional options are available for partner profiles that are used to receive emails. Find more details on this topic in the e-AS2 user manual.

### 2.12.4 Bug fixes [[Enterprise]]

A minor bug in the MySQL update scripts was fixed.

## 2.13 Version 8.2.1

### 2.13.1 Bug fixes

Fixed a bug that prevented GUI start under certain very rare conditions.

Fixed a bug that made test file sending impossible with Mixer Edition.

## 2.14 Version 8.2.2

### 2.14.1 Bug fixes

Fixed a bug that could make the server crash, because the length of the incident cause column was less than the length of the transaction description column in the database.

Fixed a bug that could cause unjustified policy warnings in e-AS2 GUI when duplicating partner profiles.

Fixed a bug that could cause the installer make damaging changes to `EAS2.properties` during update.

### 2.14.2 Changed field label in mail settings [[Enterprise]]

For the sake of consistency, the German term "Probe-Läufe" was eliminated from e-AS2 GUI in favour of "Dry-Run".

## 2.15 Version 8.3

### 2.15.1 Multi-provider mode [[Connect]]

A new type of processing logic called "multi-provider mode" was introduced as an optional feature to e-AS2 Connect. Currently this is only available to customers that are connected to e-integration.

## 2.16 Version 8.3.1

### 2.16.1 Bug fixes in database maintenance [[Enterprise]]

Two bugs were fixed regarding deleting old log messages from the database and displaying log messages for transactions in the GUI. Both bugs in combination could – under certain circumstances – make the server crash when a user tried to display log messages.

## 2.17 Version 8.3.2

### 2.17.1 Changed Multipart-MIME encoding to “multipart/mixed” [[Enterprise]]

In order to reduce the potential for compatibility issues when sending multiple files in one message, the Multipart-MIME encoding was changed from “multipart/related” to “multipart/mixed”.

## 2.18 Version 8.4

### 2.18.1 Added option to generate T&T events [[Cluster]]

Cluster Edition is now capable of generating T&T (Tracking and Tracing) information for the following events:

- A message or an MDN is being received.
- A message or an MDN is being sent.
- Some kind of operator intervention takes place.
- A message or an MDN is transferred internally using the REST API.

This feature is activated by configuring the connection to a T&T service. All events are sent to that service.

Find more detailed documentation of this feature in the user manual.

## 2.19 Version 8.4.1

### 2.19.1 Added more details to T&T events [[Cluster]]

With this release more details regarding essential communication parameters (esp. connection and cryptography settings) were added to T&T events.

## 2.20 Version 8.4.2

### 2.20.1 Updated log4j2 to latest release [[Cluster]]

The Apache Logging Library log4j2 was updated to version 2.17.0. This fixes the vulnerabilities [CVE-2021-44228](https://cve.mitre.org/cgi-bin/cvename.cgi?name=CVE-2021-44228) [https://cve.mitre.org/cgi-bin/cvename.cgi?name=CVE-2021-44228], [CVE-2021-45046](https://cve.mitre.org/cgi-bin/cvename.cgi?name=CVE-2021-45046) [https://cve.mitre.org/cgi-bin/cvename.cgi?name=CVE-2021-45046] and [CVE-2021-45105](https://cve.mitre.org/cgi-bin/cvename.cgi?name=CVE-2021-45105) [https://cve.mitre.org/cgi-bin/cvename.cgi?name=CVE-2021-45105].

Note that this update is only relevant to e-AS2 Cluster Edition. If you are using e-AS2 Connect or e-AS2 Enterprise, you can safely skip this update.

## 2.21 Version 8.5

### 2.21.1 Copy partner profiles to another e-AS2 instance [[Enterprise]]

In environments with multiple e-AS2 instances it is now possible to copy partner profiles (and all other configuration items they depend on along with them) from a given instance to another instance of the user's choice. Extensive plausibility controls are in place to assist the user.

### 2.21.2 Removed unnecessary Libs in non-Cluster installations

The installer was improved in a way, that libraries that are only being used by e-AS2 Cluster Edition are not copied to disk when e-AS2 Connect or e-AS2 Enterprise are installed. If existing Connect or Enterprise installations are updated then the libraries in question are removed. This reduces the number of libraries being installed and referenced in `wrapper.conf` by 50%.

## 2.22 Version 8.5.1

### 2.22.1 Transaction details not loaded, if multiple interfaces are configured [[Enterprise]]

A bug was fixed that could cause the GUI to not load/display the details of a selected transaction, if multiple interfaces are configured on the server.

## 2.23 Version 8.6

### 2.23.1 JCE policy files not needed anymore

As of Java 9 strong cryptography is enabled by default. Since e-AS2 is running with Java 11, JCE policy files are not needed anymore. With this release the code and documentation was cleaned up, removing all references to JCE policy files.

### 2.23.2 Copy configuration items to another e-AS2 instance [[Enterprise]]

In environments with multiple e-AS2 instances it is now possible not only to copy partner profiles but also certificates, PGP keys and mail servers from a given instance to another instance of the user's choice. This completes the copy-to-remote functionality which was introduced with version 8.5, beginning with partner profiles.

### 2.23.3 Info mail on startup could be wrong

On startup e-AS2 sent an info mail stating that all threads were started, even if some of the configured threads failed to start (typically due to ports being in use by some other process). This was changed. Now a warning operator mail is sent in this case. The info mail is still sent, but only if all threads really have been successfully started.

### 2.23.4 Upgraded mail transmissions via SMTP to TLS 1.2

If SSL/TLS is activated for an SMTP connection, then TLS 1.2 is now used. This (re-)enables sending mails through prominent public mail service providers that nowadays all are enforcing TLS 1.2. This change applies to both EDI transactions with SMTP and operator mails. Be aware that, should you be sending mails through an MTA that does not support TLS 1.2, you should not update e-AS2 to this version. First have the affected MTAs upgraded, which should be done anyways for security reasons.

## 2.24 Version 8.7

### 2.24.1 Changed Multipart-MIME encoding back to “multipart/related” [[Enterprise]]

With version 8.3.2 the Multipart-MIME encoding was changed from “multipart/related” to “multipart/mixed”. This was now changed back to “multipart/related”, which is still the encoding that should be used for multipart messages sent via AS2 (as opposed to sending multipart messages via SMTP).

### 2.24.2 Added support for “Content-ID” headers in multipart messages [[Enterprise]]

When sending multipart messages via AS2 a “Content-ID” header line is now added to each part. The IDs are generically generated to uniquely identify each part. (The are not somehow derived from file names or content.)

When receiving multipart messages via AS2 the content IDs of the parts are now written to the RES files in the interface directory. These additional attributes are always present in the RES file for multipart messages. Should some of the parts not have content IDs the values will be set to “null”.

## 2.25 Version 8.7.1

### 2.25.1 Fixed DocID generation [[Enterprise]]

A bug was fixed, that could lead to DocIDs being overwritten with generated UUDIDs, if only the DocID but no OrgDocID was present in the INF file.

## 2.26 Version 8.7.2

Version 8.6 introduced a bug, that caused trailing slashes of connection URIs being removed. That could cause problems when connecting to remote endpoints that would insist on seeing the trailing slashes as part of the URI. This bug was now fixed.

## 2.27 Version 8.8

### 2.27.1 Discontinued 32-bit support

The software will not run on 32-bit architectures anymore.

### 2.27.2 MySQL 8.x

The software is now ready to run against MySQL 8.x. The latest JDBC drivers are included. Running older MySQL versions is still possible.

### 2.27.3 Log4j 2 - new configuration file

The software is now using Log4j 2 exclusively for logging. All uses of Log4j 1.x were eliminated. The latest version of the Log4j 2 library is included in the installation.

The transition from Log4j 1.x to Log4j 2 requires the use of a new configuration file (`log4j2.properties`). In the course of the update to e-AS2 8.8 this file will be installed in a reasonable initial state. The existing `log4j.properties` is renamed to `log4j.properties.obsolete`. It is still available as a reference to transfer any customizations to the new configuration file.

Please note that the new configuration file is similar in structure, but follows generally different approaches in many aspects. You cannot simply copy lines unchanged from the old configuration file to the new one. Please study the corresponding documentation on the Log4j 2 home-page (see <https://logging.apache.org/log4j/2.x/manual/configuration.html#Properties>).

## 2.28 Version 8.8.1

### 2.28.1 MySQL 8.x re-connect fixed

A bug was fixed that prevented e-AS2 from re-establishing timed out MySQL connections.

## 2.29 Version 8.9

### 2.29.1 Java 17

The software now needs Java 17 or higher to run. For Windows and macOS adequate Java runtimes are included in the installer. For installations on Linux it is the responsibility of the user to provide a suitable Java runtime on OS level.

### 2.29.2 Content IDs displayed in e-AS2 GUI **[[Enterprise]]**

The content IDs of the separate parts of a multipart message are now being displayed in e-AS2 GUI. This happens regardless of the transfer direction. For transmissions in send direction the content IDs are generated by e-AS2. Every part of a multipart message gets its own unique content ID. For transmissions in receive directions content IDs may not be present for every part of a multipart message. That depends on the behavior of the remote endpoint and cannot be influenced by e-AS2.

### 2.29.3 Multifile details automatically copied to clipboard **[[Enterprise]]**

When the multifile dialog is opened for a selected transaction, then the details are automatically copied to the system clipboard. As long as the multifile dialog remains open the details can directly be pasted into a text editor for further access to the various names, paths and IDs.

### 2.29.4 Copy-to-remote improvements **[[Enterprise]]**

Various improvements were applied to the copy-to-remote functionality for copying configuration items to remote e-AS2 instances.

### 2.29.5 Improved handling of certificate duplicates **[[Enterprise]]**

Certificate duplicates are now being detected on import based on their serial number. A warning message is displayed in this case. However, certificates are imported regardless of the warning. Certificate duplicates are colored blue in the certificate list. It is recommended to avoid duplicates and remove them, if detected.

Duplicate detection is performed every time the certificate list is loaded. So, it is also applied to the certificates that already were present in your system before this e-AS2 version was installed.

### 2.29.6 Connection test directly in partner dialog **[[Enterprise]]**

It is now possible to perform connection tests directly in the partner configuration dialog, even without having previously saved the settings. This is meant to be a fast and easy way to repeatedly test connection after having changed single configuration parameters.

For typical known error situations that can arise on connection tests, the software gives advice on how to proceed to solve the problems.

### **2.29.7 Bug fixes**

A bug was fixed, that – in rare cases – could cause deletion of old transactions to fail and the e-AS2 server to be stopped immediately after start-up.

## **2.30 Version 8.9.1**

### **2.30.1 Enabled HTML mails with attachments [[Enterprise]]**

With version 8.2 the capability to send HTML mails was introduced. This was now extended to also work with multipart mails.

## **2.31 Version 8.9.2**

### **2.31.1 Fixed signature failures when content type is not valid [[Enterprise]]**

When for a given file to be transferred with e-AS2 a content type was specified that is not a valid MIME type, then signature generation would fail. While this is normal and defined behavior within the process of signing MIME messages, it still feels like a bug to the e-AS2 user, especially because a very cryptic error message is issued in this case.

This problem was already tackled in e-AS2 7.6 for single file transfers. The identical fix was now applied to multi-file transfers. When a non-valid content type is specified it will now be silently removed and signature generation will succeed.

## **2.32 Version 8.9.3**

### **2.32.1 Increased length of DB columns [[Enterprise]]**

The length of DB columns holding DNS names of remote servers was doubled (from 64 to 128 characters).

### **2.32.2 Fixed Basic Authentication in REST API [[Cluster]]**

With version 8.9.0 a bug was introduced, that broke HTTP Basic Authentication in the REST API. This bug was now fixed.

### **2.32.3 Fixed MySQL related bug in installer [[Enterprise]]**

With version 8.9.0 a bug was introduced, that made product updates fail under certain conditions. Only MySQL based installations, that did not have JDBC driver settings in their `EAS2.properties` file anymore, were affected. This bug was now fixed.

### **2.32.4 Fixed bug in DB maintenance routines**

With version 8.9.0 a bug was introduced, that made DB maintenance fail under certain conditions. Only HSQLDB based installations were affected. This bug was now fixed.

## **2.33 Version 8.10**

### **2.33.1 Display of send test result improved [[Enterprise]]**

The result display after sending a test file from e-AS2 GUI was improved. It is now clearly structured and contains the complete received MDN. (e-AS2 server must run on MySQL for this feature to become active.)

### 2.33.2 Added multifile support to send test file in GUI [[Enterprise]]

When sending test files via e-AS2 GUI it is now possible to send up to five files in a single multifile session.

### 2.33.3 Added multifile support to dry-run receive in GUI [[Enterprise]]

When simulating receive transactions with the dry-run feature in e-AS2 GUI it is now possible to receive up to five files in a simulated multifile session.

### 2.33.4 Added MDN wait timeout override to send file dialog in GUI [[Enterprise]]

The default MDN wait timeout for test file transfers in e-AS2 GUI is configured in `EAS2.properties` as follows:

```
gui.mdn.async.wait = 15
```

This default value can now be overridden in e-AS2 GUI directly in the send file dialog.

### 2.33.5 Added support for “multipart/alternative” mails [[Enterprise]]

It is now possible to construct “multipart/alternative” mails to be sent to regular e-mail recipients. Find details on this feature in the e-AS2 SMTP manual.

### 2.33.6 Complete UTF-8 support for subjects and file names [[Enterprise]]

As of this release, e-AS2 is completely UTF-8 ready. Subjects and file names containing Unicode characters can be transferred and received without loss. To prepare your e-AS2 server for this, you need to add the following settings to your `EAS2.properties`.

```
res-file.encoding = UTF-8  
inf-file.encoding = UTF-8
```

Note that while e-AS2 supports sending subjects or file names containing Unicode characters, this does not guarantee that they are properly received by the partners AS2 system. If in doubt, try to avoid non-ASCII characters in both subjects and file names.

Also note that while e-AS2 supports UTF-8 encoding in INF and RES files, the adjacent systems need to support this too for this feature to be used in your environment.

### 2.33.7 Obfuscate passwords in operator mails

Transaction details or mail server details, that are listed in operator mails, do not show passwords in clear text anymore. Ten dots are printed instead. Operators will need to open the configuration GUI to look up passwords, if necessary.

### 2.33.8 Bug fixes

Various minor bugs were fixed for this release.

## 2.34 Version 8.11

### 2.34.1 Restricted multi-provider mode [[Connect]]

A new interface logic flavor called “restricted multi-provider moder” was added to e-AS2 Connect. This will be the new default mode for fresh installations. Find more details on this topic in the e-AS2 Connect user manual.

### 2.34.2 Mail recipient for dry-runs [[Enterprise]]

The default mail recipient for dry-runs is now configurable via a dedicated configuration property.

```
mail.to.dry-run = AS2 Dry-Run <as2dryrun@domain.tld>
```

If this property is not set the software will fall back to the regular operator mail address when sending dry-run mails.

### 2.34.3 UTF-8 support [[Connect]]

Unicode support for file names was extended to cover e-AS2 Connect.

### 2.34.4 Bug fix for REST API [[Cluster]]

A multi-threading related bug was fixed that could cause DR retrieval via REST API to malfunction under special conditions.

## 2.35 Version 9.0

### 2.35.1 GUI compatibility with older servers

Since this is a new major release of e-AS2 we re-start GUI compatibility with older servers. Version 9.0 GUIs will not run against older servers. However, the general GUI compatibility promise is hereby renewed. It applies to all upcoming version 9 releases.

### 2.35.2 Cryptography upgrade [[Enterprise]]

The Bouncy Castle libraries, on which AS2 cryptography is based, have been upgraded to the latest available version.

This means that e-AS2 will now support a wider range of algorithms when decrypting or signature verifying incoming messages.

For outgoing messages more supported algorithms have been added to the corresponding lists.

The following ciphers were added:

- [AES128-CCM](http://www.oid-info.com/get/2.16.840.1.101.3.4.1.7) [http://www.oid-info.com/get/2.16.840.1.101.3.4.1.7]
- [AES192-CCM](http://www.oid-info.com/get/2.16.840.1.101.3.4.1.27) [http://www.oid-info.com/get/2.16.840.1.101.3.4.1.27]
- [AES256-CCM](http://www.oid-info.com/get/2.16.840.1.101.3.4.1.47) [http://www.oid-info.com/get/2.16.840.1.101.3.4.1.47]
- [AES128-GCM](http://www.oid-info.com/get/2.16.840.1.101.3.4.1.6) [http://www.oid-info.com/get/2.16.840.1.101.3.4.1.6]
- [AES192-GCM](http://www.oid-info.com/get/2.16.840.1.101.3.4.1.26) [http://www.oid-info.com/get/2.16.840.1.101.3.4.1.26]
- [AES256-GCM](http://www.oid-info.com/get/2.16.840.1.101.3.4.1.46) [http://www.oid-info.com/get/2.16.840.1.101.3.4.1.46]
- [GOST28147-GCFB](http://www.oid-info.com/get/1.2.643.2.2.21) [http://www.oid-info.com/get/1.2.643.2.2.21]

The following signature algorithms were added:

- [SHA512\(224\)withRSA](http://www.oid-info.com/get/1.2.840.113549.1.1.15) [http://www.oid-info.com/get/1.2.840.113549.1.1.15]
- [SHA512\(256\)withRSA](http://www.oid-info.com/get/1.2.840.113549.1.1.16) [http://www.oid-info.com/get/1.2.840.113549.1.1.16]

### 2.35.3 Added support for SNI (Server Name Indication) [[Enterprise]]

SNI support was added for both incoming and outgoing HTTP/S connections.

The server is prepared to support SNI for incoming connections by setting these properties:

```
connection.https.sni.server.name = as2\\.example\\.com
connection.https.sni.server.name.2 = as2\\.example2\\.org
connection.https.sni.server.name.3 = as2\\.example3\\. (org|de)
connection.https.sni.server.name.4 = as2\\.example4\\.net
```

So, you can set SNI server names separately for every of the up to four supported ports for listening on incoming HTTP/S connections. The above values are examples, obviously. Replace them with server names suitable to your installation.

Note that the configured values are regular expressions. When a client connects with the SNI extension enabled, then the indicated server name must match the configured regular expression to be accepted. If it does not match the connection will be rejected.

However, when a client connects without indicating a server name, then the connection will be accepted without doing SNI checks. Thus, although the SNI extension is enabled on the server, it remains compatible to older AS2 solutions that do not support SNI. In other words: SNI is not enforced by the server. (This may change in a future e-AS2 version, though.)

Even without setting up the server to support SNI for incoming connections, it is generally prepared to enable the SNI extension on outgoing connections. This is done on a per-partner basis by activating the feature in the partner profile.

Find more details on this topic in the user manual.

#### **2.35.4 Completed IPv6 support [[Enterprise]]**

e-AS2 now fully supports IPv6. You can configure IPv6 addresses in the partner profile. You can also use IPv6 addresses in `EAS2.properties`. Note that your site must be IPv6 enabled in order to communicate with remote systems via IPv6.

#### **2.35.5 Improved LOG buttons in GUI [[Enterprise]]**

The LOG buttons in various GUI dialogs have been improved. The generic Java button implementation was replaced with icons that better reflect the functionality behind. The new buttons also sport tool tips as an additional information source to the user.

#### **2.35.6 Immediate re-try for transactions [[Enterprise]]**

For transactions that are still within their re-try pattern it is now possible to trigger immediate re-try to avoid the need to wait for the next scheduled repetition. This feature is available via a new dedicated button in the transactions tab of e-AS2 GUI.

#### **2.35.7 e-AS2 ME discontinued [[ME]]**

As of this release e-AS2 Mixer Edition is discontinued. Neither installing new instances nor updating existing instances is supported anymore.

#### **2.35.8 Improved per-partner certificate handling [[Enterprise]]**

Per-partner certificate handling for AS2 cryptography was significantly improved.

You are not limited to two private key and two public key references anymore. You can now correlate an arbitrary number of certificates of both kinds with a given partner profile.

This comes along with the following improvement. Every certificate reference that is being added to a partner profile now has a to-be-used-from date. This information is mandatory and helps e-AS2 to select the correct certificate at a given point in time.

With both new features in combination unattended certificate switches can be implemented, that are being performed automatically by the e-AS2 server.

## 2.36 Version 9.1

### 2.36.1 Property for disabling Partner creation

The “`eas2.instance.createPartner`” property can be used to prevent the creation of new partners. If the property has the value “`disable`”, no partners can be created.

## 2.37 Version 9.2

### 2.37.1 Add GUI Installer

So-called GUI installers are now available for all platforms. These contain only the e-AS2 GUI component. Under Windows this installer can then also be executed without admin rights.

## 2.38 Version 9.3

### 2.38.1 Improve Report handling

An operator mail is generated when a negative report is received for a transaction that has already been completed.

### 2.38.2 Make IOTrace directory configurable.

The directory where the IOTraces are stored can now be configured via the “`iotrace.directory`” property.

## 2.39 Version 9.4

### 2.39.1 Additional REST API functions `[[Cluster]]`

The REST API has been extended. On the one hand, there are now functions for fetching transactions/DRs with a given Id. And secondly, it is now possible to get a list of transactions/DRs that have not yet been downloaded respectively not yet deleted.

## 2.40 Version 9.5

### 2.40.1 Bug fixes

Several minor bugs have been fixed.

## 2.41 Version 9.6

### 2.41.1 Turn off reception completely

The partner configuration has been extended by the flag “Disable incoming messages reception completely”. This allows for a partner with the profile “`send only`” or “`DEACTIVATED`” to completely disable incoming message reception. The data will then no longer be stored in the orphan directory as before and no transaction will be created.

## 2.42 Version 9.7

### 2.42.1 Improved MDN handling

Some special cases in the processing of MDNs have been improved. For example, it can happen that the other party acknowledges a transmission with a status code 502 (i.e. does not

accept the message), but later sends an asynchronous MDN for this message anyway. This is now handled properly (the MDN is simply acknowledged with NACK and not processed).

## 2.43 Version 9.8

### 2.43.1 Increase length of http user/password fields

The length of the user and password fields in the http configuration has been increased to 128 characters.

### 2.43.2 Fix Basic Authentication

The HTTP header ("Authorization: Basic") for Basic Authentication has been fixed. It could contain unallowed line breaks.

## 2.44 Version 9.9

### 2.44.1 Auto Update

e-AS2 now supports auto update functionality. During installation, you will be asked whether and how often to check for new e-AS2 versions. If you switch the feature on, the system checks for new e-AS2 versions at the configured interval when the GUI or Launcher is started. These are then installed directly if desired.

## 2.45 Version 9.10

### 2.45.1 Early Archiving and Checksum Generation for received Data

The e-AS2 now utilizes the JACARS system, to create an early archive for received files. These files are archived at the point of receiving immediately and are stored in the JACARS as raw files. New properties are need to be configured in the EAS2.properties in order for the archiving to happen: "jacars.username", "jacars.password", "jacars.scheme", "jacars.host", "jacars.port", "jacars.archive"

The e-AS2 now creates an immediate checksum for received data. This ensures absolute data integrity with systems communicating with the e-AS2. The checksum is generated per file and is stored in the e-AS2 database in the TRANSACTION (for single file receiving) table or in the MULTIFILE (for multifile receiving) table. The stored values are the checksum's algorithm value (default SHA-256) and the checksum's actual digest value as a hex string.

## 2.46 Version 9.11

### 2.46.1 Bug fixes

The Config-Only mode no longer worked under Windows. This has been fixed. In addition, the handling of expired MDNs and archive handling has been fixed.

## 2.47 Version 9.12

### 2.47.1 Change from log4j2.properties to log4j2.xml

The configuration of the logging has been changed from the property file "log4j2.properties" to the XML file "log4j2.xml". The config file is now no longer located directly in the installation directory but in the conf subdirectory. During an update, the previous log4j2.properties is trans-

ferred to the conf directory and can continue to be used. The file “log4j2.xml.template” is also installed as an example.

## 2.48 Version 9.13

### 2.48.1 Improved archiving and checksum generation

The main memory consumption of the archiving and checksum generation introduced in version 9.10 has been reduced. In particular, the main memory consumption is now independent of the size of the processed files.

### 2.48.2 Update of the JDK version

The JDK version integrated in the installer has been updated to the current Java 17 version (17.0.11+9).

## 2.49 Version 9.14

### 2.49.1 Bug fixes

Received files were sometimes only released by the e-AS2 after several minutes under Windows. This has been fixed.

## 2.50 Version 9.15

### 2.50.1 Fix MDN generation

In e-AS2 versions prior to 9.15.0, the `micAlgorithm` in the `ContentType` of the MDN was always constantly set to “sha1”, but this is incorrect. The correct setting should of course be the digest algorithm actually used for the signature. In order not to break any existing connections that may have adjusted to this incorrect behaviour, the behaviour is now controlled via a flag in the partner master data. As long as the legacy behaviour is switched on, “sha1” is still constantly used as the `micAlgorithm`.

The legacy behaviour can be configured via the “Legacy MDN” flag in the partner configuration in the Cryptography tab:

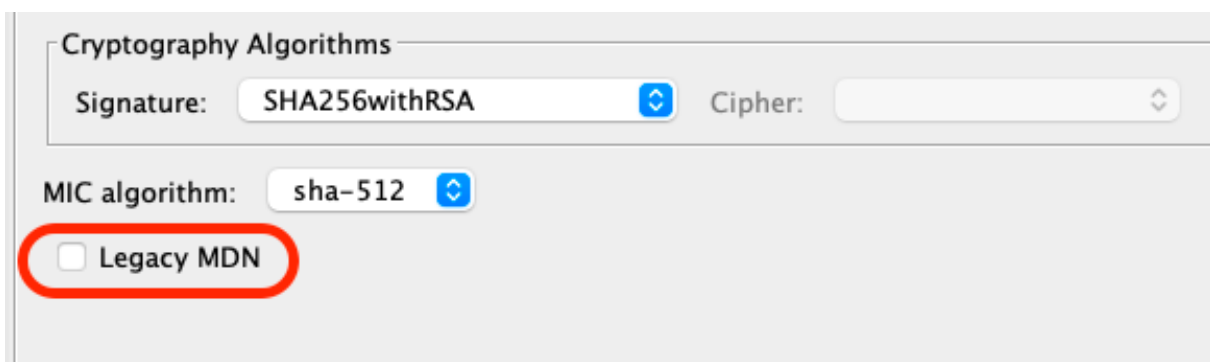


Figure 2.1. Legacy MDN

The flag is switched on for all existing partner configurations. It is switched off by default when creating new configurations. This means that for existing configurations, the MDN is generated in exactly the same (incorrect) way as before.

## 2.50.2 Update of the JDK version

The JDK version integrated in the installer has been updated to the current Java 17 version (17.0.12+7).

## 2.51 Version 9.16

### 2.51.1 Automatic stopping of transactions

The existing cleanup routines only clean up completed transactions. Erroneous, open transactions are not deleted. From version 9.16, e-AS2 also offers the option of automatically stopping such transactions. This applies to transactions for which endless mode is configured for retries. The `queue.retry.age.max` property can now be used to configure after how many days the retries are terminated. On the other hand, the property `queue.open.age.max` can be used to configure after how many days open (normally erroneous) transactions are stopped.

## 2.52 Version 9.17

### 2.52.1 Fix shutdown behaviour

The maximum shutdown time can now be set via the `shutdown.timeout` property. After this time has elapsed, the e-AS2 is terminated in any case, even if not all threads have been terminated. Previously, blocking threads could prevent the shutdown completely.

## 2.53 Version 9.19

### 2.53.1 Update of the JDK version

The JDK version integrated in the installer has been updated to the current Java 17 version (17.0.13+11).

### 2.53.2 Improved error handling

Error handling when using the REST API has been improved. Serious errors are now reported by operator mail. In addition, the queue is monitored for incorrectly retrieved data. An operator mail is also generated for such transactions.

