LYNX®

BOND INTEGRATION MIDDLEWARE

Product datasheet

Integration middleware BOND is a software product that performs data transformation from one data repository to another. Communication is realized via standard protocols, for example. SOAP, FTP. BOND enables to generate or parse files to a ZIP archive from the received data and these files then serve for further processing, respectively recovering.

Main features of middleware BOND

- without data loss (for received data)
- timing (eg. sleep-states)
- synchronization (continuous life cycle of the received data, to their inclusion in the database respectively archiving)
- input data archiving

- no duplication (of written data)
- recovery (after an interruption in at any moment of processing)
- nonintervention to surrounding systems

BOND includes the following

- DataReader
- DataWriter
- DataArchivator
- IdentityManager

DataReader

Module reads the data (via a specific protocol) from a particular IS source and transforms them into the corresponding .csv files that are written into two folders: one for the module DataWriter and one for DataArchivator.
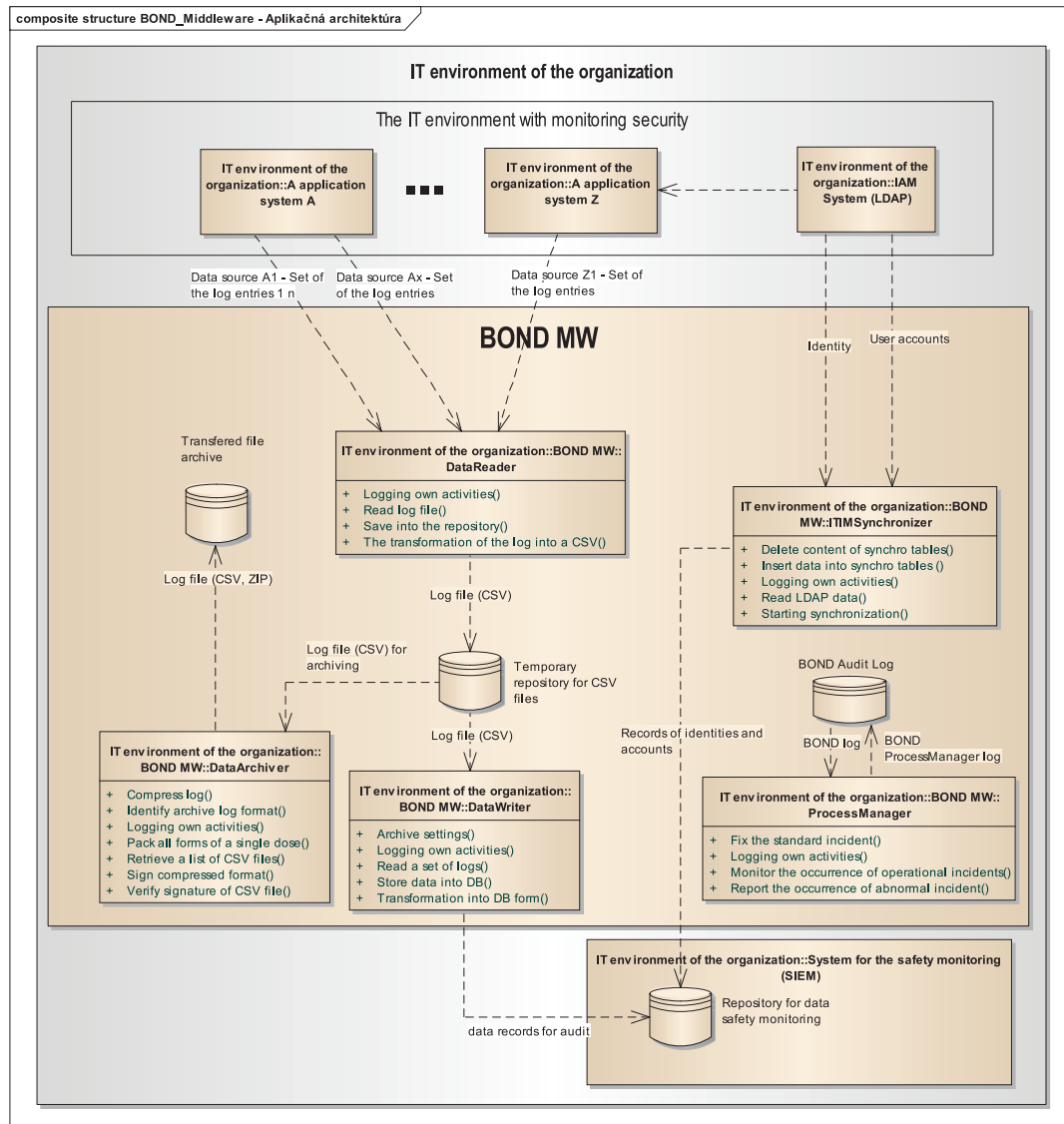
DataWriter

Module takes .csv files (from the directory where DataReaders write) of which parses the content that further write to the database.

DataArchivator

Module reads all the .csv files at any given time from the directory where particular DataReaders write. Loaded files are compressed into .zip archive and then archive is named for example according to the current date and time and stored in the directory from which in the future it can be implemented e.g. recovering or other use.

IdentityManager

It is a logical unit created by moduls IdentityReader and IdentityActualiser, which manages user's data, stores it and performs the updates.

composite structure BOND_Middleware - Aplikačná architektúra

IT environment of the organization

The IT environment with monitoring security

IT environment of the organization::A application system A

IT environment of the organization::A application system Z

IT environment of the organization::IAM System (LDAP)

Data source A1 - Set of the log entries 1 n

Data source Ax - Set of the log entries

Data source Z1 - Set of the log entries

BOND MW

Identity   User accounts

Transfered file archive

IT environment of the organization::BOND MW:: DataReader
+   Logging own activities()
+   Read log file()
+   Save into the repository()
+   The transformation of the log into a CSV()

IT environment of the organization::BOND MW::ITIMSynchronizer
+   Delete content of synchro tables()
+   Insert data into synchro tables ()
+   Logging own activities()
+   Read LDAP data()
+   Starting synchronization()

Log file (CSV, ZIP)

Log file (CSV)

Log file (CSV) for archiving

Temporary repository for CSV files

Log file (CSV)

BOND Audit Log

Records of identities and accounts

BOND log   BOND ProcessManager log

IT environment of the organization:: BOND MW::DataArchiver
+   Compress log()
+   Identify archive log format()
+   Logging own activities()
+   Pack all forms of a single dose()
+   Retrieve a list of CSV files()
+   Sign compressed format()
+   Verify signature of CSV file()

IT environment of the organization:: BOND MW::DataWriter
+   Archive settings()
+   Logging own activities()
+   Read a set of logs()
+   Store data into DB()
+   Transformation into DB form()

IT environment of the organization::BOND MW:: ProcessManager
+   Fix the standard incident()
+   Logging own activities()
+   Monitor the occurrence of operational incidents()
+   Report the occurrence of abnormal incident()

IT environment of the organization::System for the safety monitoring (SIEM)

Repository for data safety monitoring

data records for audit

System BOND MW provides fully automatic transfer of data from different types of data sources into the target database. The system is provided in respect of:

- possibility to configure data collection from various sources

- nonintervention to surrounding systems (associated therewith timing of access to resources)

- requirement to without transfer loss and elimination of duplication (Correct recovery after an interruption activity)

- demand of data archivation (with unmodified content)