compacer
>eurodata-Group

edbic
TECHNICAL HIGHLIGHTS

edbic - BUSINESS INTEGRATION CLUSTER

edbic is a modern data integration system that digitally connects all stakeholders in the value chain.

Differently formatted business data from a broad range of sources converge in **edbic**, where meaningful automation sustainably improves all business processes. Additionally, **edbic** provides a basis for visualising business processes, for example with **compacer edpem**, Longview or IBM Cognos. Technical monitoring and process overview features provide clarity while an active cluster architecture guarantees stability in internal procedures (A2A) and when exchanging data with your business partners (B2B).

ARCHITECTURE

- **Java**: Do you speak Java? If so, the flexibility and extensibility of our Java-based architecture will inspire you! Stay independent with the ability to program extensions as needed. ISO/IEC 27001-certified.
- **Active Cluster**: Grow safely! With **edbic**, your Active Cluster will smoothly scale to your growth and you will be safe in the knowledge that **edbic** guarantees a fail-safe operation. Whether a server needs to be replaced or you plan to extend your cluster, all components are always available to each server.
- **edbic** is based on a complete **Enterprise Service Bus** (ESB) – allowing it to become a central part of your serviceoriented architecture.
- **Architecture**: **edbic** is among the few trailblazers that are fit for true cloud computing thanks to its intelligent, demand-based and event-driven capacity adjustment technology. This ability can significantly reduce operating costs.

ESTABLISHING PROCESSES

- **The Objective**: Quickly mapping even highly complex processes with a nigh-zero error rate. **edbic** is streamlined for top efficiency.
- **Microservices**: **edbic** provides smart functional blocks to facilitate a modular process design, socalled Microservices. They are small, independent and ready to be quickly included into existing or new processes.
- **Logic Check**: A graphical process presentation immediately shows which parameters are missing in a given process step and whether all fields have been completed correctly.
- **Inter-Process Interaction**: Once defined, a process can initiate other processes, thus allowing you to map even complex nested processes in a simple way. However, you will never lose sight of the overall view. The process to be called can also be determined dynamically on the basis of runtime values.
- **Pre-Parametrised Functions**: When establishing processes, fields will be pre-filled based on sophisticated logics and process designers will be notified of missing steps or parameters. A right mouse click lets you easily add parameters from a drop-down list, preventing errors. Get rid of typos and logical errors! Additionally, you can use any process as a template for other processes.
- **Management**: The clean orchestration of different processes is a cornerstone of **edbic**. Easily define the number of processes running in parallel and also which processes are allowed to run in parallel in the first place (process pooling).
- **Help**: **dbic** always assists users with a comprehensive context-sensitive help function that provides information, examples and explanations.

RUNNING PROCESSES

- **Reprocessing**: Processes are modelled from individual process steps. You can manually restart automatically running processes from every step – and of course right from the start. This guarantees total flexibility.
- **Process Monitoring**: Always maintain an overall view with **edbic**'s gapless technical monitoring of the entire process chain.
- **Error Management**: All errors are generally displayed on the monitoring screen. It doesn't matter if an error crops up inside a process or during a subsequent sending operation – in both cases, you can craft tailored processes to react individually and effectively to glitches and communication problems. This includes the definition of communication retries until successful completion or abortion ("on-retry").
- **Inter-Process Communication**: In the clash of data security versus performance, **edbic** merges the best of two worlds: To ensure the persistence of process data, all data and process steps are stored in the database, but user data will only be saved upon modification, allowing users to reconstruct the current status at any time. On the flip side, this method minimises resource-hungry memory operations and optimises overall performance.
- **Archival**: **edbic** allows you to customise your data archival settings to maximise performance. For example, you can customise how long a process will remain visible in technical monitoring - or how short! This allows you to rapidly archive or delete unimportant processes, freeing up space for other data. The separation of monitoring and archival databases significantly increases search performance.

COMMUNICATION

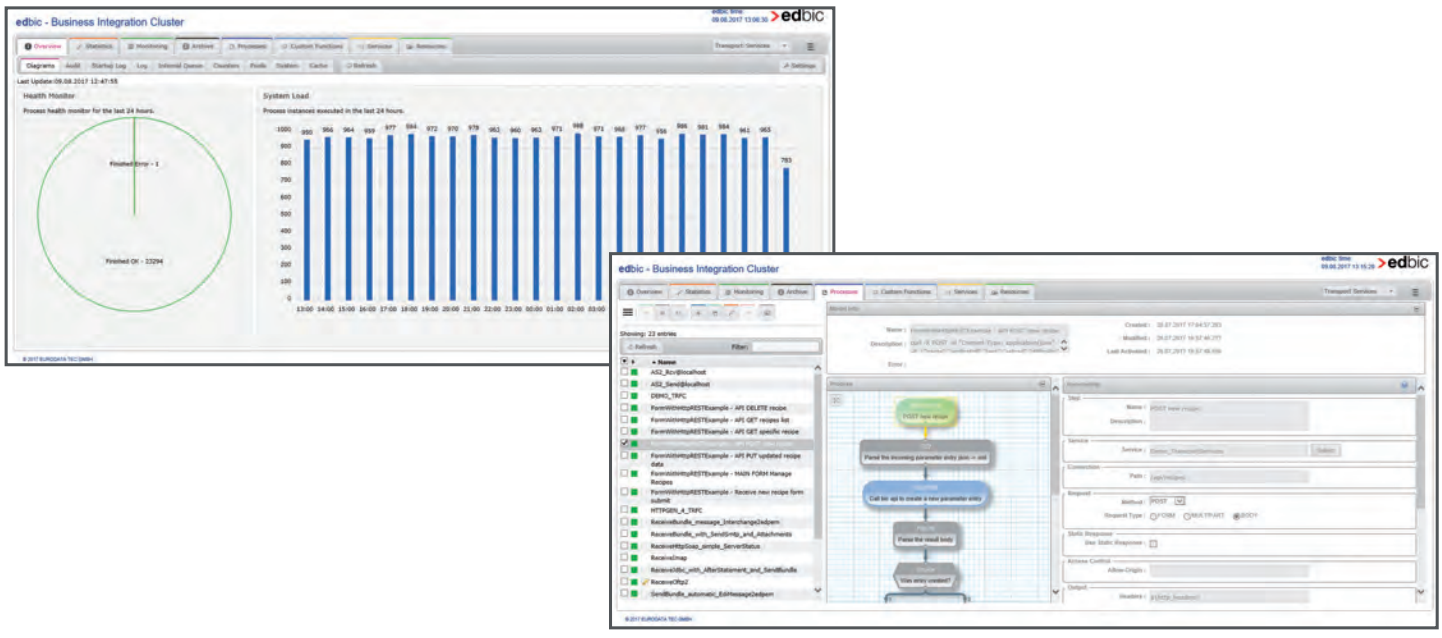
- **Transmission**: When sending data, **edbic** uses several principles to offer a convenient and user- friendly operation. It allows you to aggregate processes efficiently and to cache, process or transmit results or files in a queue.

  edbic is able to use connections flexibly and adapts intelligently to different situations using connection pooling.
- **Certification**: By certifying all our SAP and OFTP2 components, we underline our focus on quality and guarantee a successful implementation.
- **Communication Modules**: compacer always stays up to date and supplies all market-standard communication modules. You will benefit from a broad portfolio augmented by ready-made connectors for Facebook, Twitter, Slack and Messenger.
- **Web Services:** In **edbic**, web services can be connected and rolled out in no time at all. **edbic** allows you to successfully hook up a new web service up to 20x faster than other solutions.

  Of course, you decide whether to connect your web service by SOAP or by REST, edbic supports both formats.

DATA FORMATS

- **Check: edbic** automatically recognises all file formats and can transform them into other formats.
- **TE2:** Our Transformation Engine (TE2) is the secret weapon for defending your independence. This Java editor allows you to easily program additional components that will, of course, remain available after software updates.
- **Graphical Mapper:** Conveniently prepare files for transformation by using drag and drop to map fields to other fields – it works entirely without programming skills or in-depth technical knowledge.
- **Own Formats:** You can even add or modify proprietary file formats and extended standard formats with the syntax metadata editor (an Eclipse plugin) and save them for future use.
- **Development Environment:** Easily develop mappings and TE2 Java in the widespread IDE Eclipse and use all your familiar functionalities such as version control, collaborative development, etc.



SECURITY

- **Remote services in the DMZ: edbic** is installed behind the communication modules but in front of the firewall.This means that the system's central control unit is safely on the inside while executive components are without. When exchanging data, **edbic** only accepts requested information and never opens any port for unrequested data. This provides excellent protection against attacks from external sources.
- **Certificate Management:** For secured transmission routes and data encryption, always valid certificates are required. But **edbic** handles the complex management all by itself! It monitors certificate validity and automatically switches to new, valid certificates as needed.
- **Data Centre:** eurodata's own high-performance data centre at Saarbrücken (Germany) is ISO/IEC 27001-certified and offers maximum level digital security. As a member of the eurodata group, we use this.

  Of course, you can also operate **edbic** on-premise or in hybrid mode.

ADDITIONAL FEATURES

- **IoT**: The IoT Gateway is an optional module for **edbic**. It enables real-time analytics and reporting, various mathematical functions for advanced data analysis, alarming, fast Fourier transform, aggregation, trend analysis, asset management, modular dashboards, manufacturing cycles, fingerprinting, health state recognition, predictive maintenance, predictive analytics and much more. The IoT Gateway is compatible with Docker and Kubernetes and UMATI Ready.
- **LDAP**: Multi-domain support, group and user rights management within the domain environment.
- **Form Engine**: Simple linking of human interactions with **edbic processes** using a form generator. This module allows to intervene quickly in processes when decisions have to be made, such as confirmations, corrections, etc.
- **Blacklisting**: Proactive protection of **edbic** against external attacks on communication interfaces.
- **System Overview**: Having **edbic**, you have it all – a complete system-wide overview including server status monitoring. In fact, the entire server cluster's status will be displayed with quickly assessable traffic light icons.
- **Log-Files**: In contrast to many competing products, you will not need an additional front end to view log files. Alle files can be viewed from **edbic**,including the ability to restrict access rights by user or user group.
- **Auditing:** All changes effected on processes, components or documents from within **edbic** will be traceable thanks to audit- compliant documentation and archival. **edbic** complies with Germany's GAAP (GoBD).

Are you familiar with **compacer edpem** yet? **edpem** is a proactive process event monitoring system which generates a companywide and inter-company end-to-end view of processes, thus building bridges between IT, specialist departments and management. Info at **www.compacer.com/en/edpem**

For more information go to: **www.compacer.com/en**

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