*The new
Omnivo family ...*

... in sight and mind.

OmnivoTribe

Discover the new Omnivo family! Get over system boundaries and communication barriers: safely, simple and cost effective.

Today's world consists of complex systems. Our new software family OmnivoTribe is straightforward as well as versatile. The secret resides in perfect meshing of three products OmnivoBase, Omnivo-Bridge and OmnivoRSC. In case of very specific requirements, these programs can easily be enhanced with additional tools and modules. This modular setup allows combining tailored and very cost effective software solutions.

OmnivoTribe – one family, unlimited capabilities

- **OmnivoBase, for developing high-grade Java applications for clients and servers – fast, flexible and cost effective.**
- **OmnivoBridge, interconnecting systems based on different technologies and using different middleware – no problems, very effective, no limits.**
- **OmnivoRSC, for communicating with clients and/or other heterogeneous systems. Application extensions can be implemented without involving NonStop developers – safely, time effective and simple.**

Despite the diversity of our products, all OmnivoTribe products do have a common kernel: state of the art programming using Java, characterized by a consistent, high quality standard. Originally developed in the 90th as an object oriented programming language, Java has made rapid progress since then. Today all well-established OS providers offer a Java run time environment (JVM). So everyone can participate in Java advantages: investment protection, database independence, ease of use, excellent scalability and highest availability.

CommitWork

GmbH für Informationstechnologie

Tools and modules

The OmnivoTribe family of products provides possibilities endlessly. By combining meshing tools and modules with OmnivoBase, almost every task can be resolved regardless complexity. And in case of any misfit, we can optimize all tools, modules and programs to your specific requirements. Certainly OmnivoBridge and OmnivoRSC can be combined with OmnivoBase. Or you can use our products "stand alone" – for openness without limits and highest availability.

OmnivoMasterData

For higher performance at lower network traffic. Used by different users and user groups for keeping MasterData centrally for queries in the database of the server as well as on the client. This replicating module takes care of synchronizing selected server- and client based data.

OmnivoLDAP

LDAP is used by many firms for providing user management. This module was developed in order to enable LDAP for using with OmnivoBase. It synchronizes LDAP-data with OmnivoBase's user management and supports LDAP systems ActiveDirectory and OpenLDAP.

OmnivoSSO

Allows starting OmnivoBase applications directly from a SAP portal. Exchanging "tickets" is the mechanism used for checking authentication, which will finally be verified by SAP. This procedure avoids different logins for the user.

OmnivoDB-EditorDialogue

In order to reduce time for development drastically, this module provides a generic approach for maintaining database tables. Only a few lines of code allow viewing or manipulating data within tables. This dialogue-function can also be used for listing log-data as well as working as a replacement for a separate MasterData maintenance function.

OmnivoMessageService

If application internal use of Internet-eMail systems should be avoided, this module can securely transmit and receive messages. It works embedded within OmnivoBase. Users of this Messaging system and OmnivoBase users are identical. An admin function specifies, whether a user is only allowed to receive or is also allowed to send messages. If sending is enabled, distribution lists can be specified.

OmnivoConnectionPool

Usually links to databases are used dynamically, eating up a lot of time & resources. This module administers previously used links and assigns them on request again, instead of creating new links. This procedure can increase performance a lot. Additionally it can be utilized for re-using database links per thread.
In a Tomcat environment this module is integrated within OmnivoBase, but "stand alone" usage is also an option.

OmnivoTransaction

Allows initiating TMF transactions within a Tomcat environment by involving TMF transaction monitor.
In a Tomcat environment this module is integrated within OmnivoBase, but "stand alone" usage is also an option.

OmnivoSwing

Modernizing legacy applications with ScreenCOBOL user interfaces, this module can be utilized for GUI development. It provides GUI elements, allowing binding with legacy data objects supporting automated restrictions and checking of user input. By supporting such a binding concept, the results are shorter development cycles, much higher comfort using GUIs and less development efforts. The provided GUI elements currently are: ComboBox, CheckBox, Textfield, Textarea and Table.
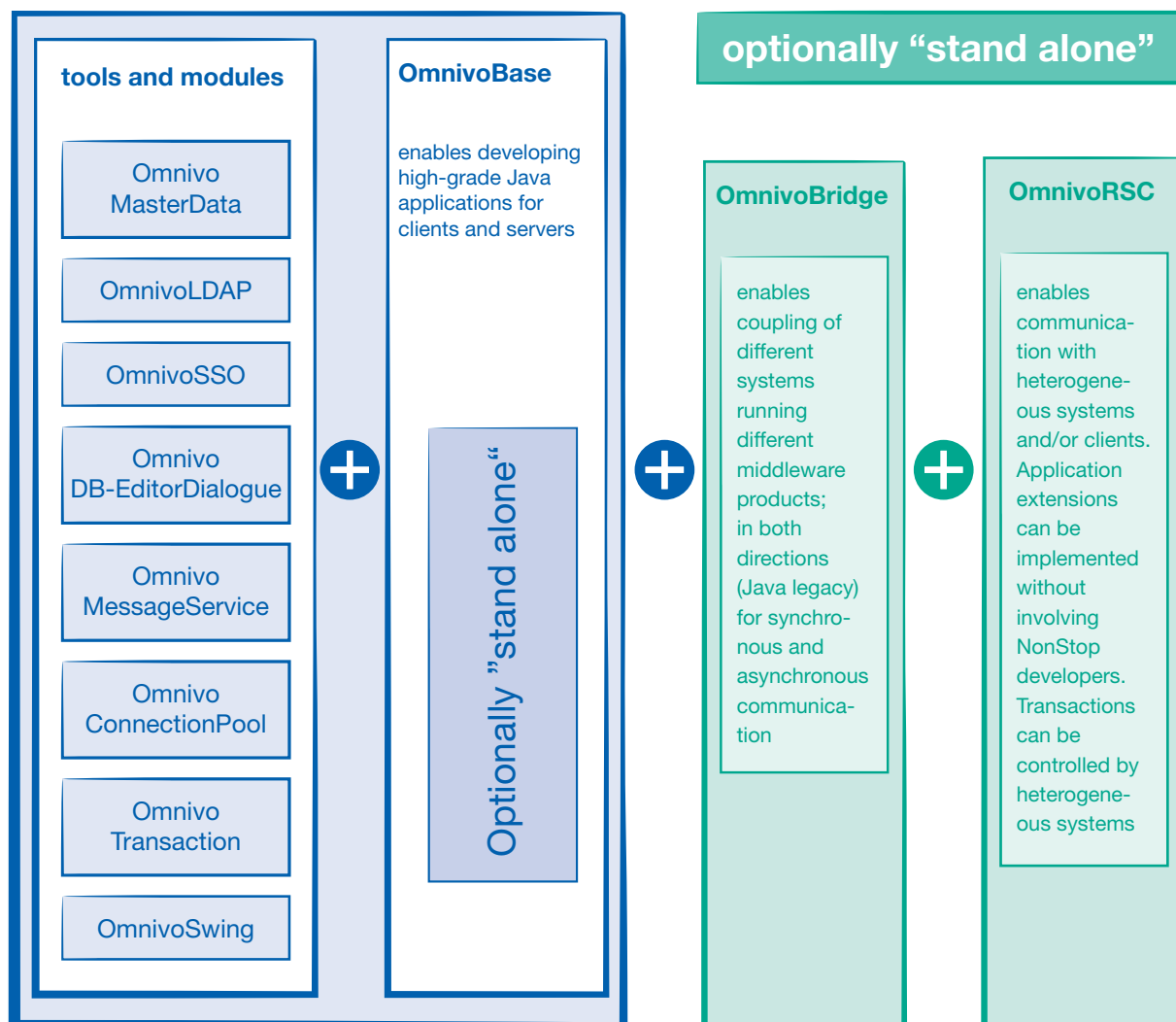
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These important Java advantages inherit all OmnivoTribe programs when using a JEE App Server like WebLogic or JBoss.

Utilizing OmnivoTribe products, you can overcome system boundaries and communication barriers, for example by using OmnivoBridge.

Enabling to couple NonStop Pathway servers with clients or other heterogeneous systems is unmatched by any other software. An optional coupling with a .NET environment completes the variety of today's supported frontends.

one family – unlimited possibilities

tools and modules

Omnivo
MasterData

OmnivoLDAP

OmnivoSSO

Omnivo
DB-EditorDialogue

Omnivo
MessageService

Omnivo
ConnectionPool

Omnivo
Transaction

OmnivoSwing

OmnivoBase

enables developing high-grade Java applications for clients and servers

Optionally "stand alone"

+

optionally "stand alone"

OmnivoBridge

enables coupling of different systems running different middleware products; in both directions (Java legacy) for synchronous and asynchronous communication

+

OmnivoRSC

enables communication with heterogeneous systems and/or clients. Application extensions can be implemented without involving NonStop developers. Transactions can be controlled by heterogeneous systems

+

We have modernized our IT services step by step using OmnivoBase in the past years. Today we don't distribute our data any more, but now we are accessing them from everywhere. Considering the extremely fast changes of our business processes and requirements, this move was a vital advancement. On this way CommitWork's team was going along with us, starting from analyzing over planning to implementing a Service Oriented Architecture (SOA) for our applications. Especially valuable on this way were the seminars for our employees. So the new "know how" could be kept internally.

Johann Pausch, Manager Application Development, Rasselstein GmbH

Discover the new possibilities of OmnivoBase! Develop high-grade Java applications for clients and servers: fast, flexible, cost effective!

Reducing cost and optimizing business processes at the same time is not an easy task. Both only work, if the IT infrastructure provides optimal support for these services. At this point there is a heavy demand for tailored solutions.

Benefit from these strong features!

Our OmnivoBase product provides everything for an instant start of your Java projects:
- user control, authorization system
- unique menu control for all applications
- unique control of user privileges
- unique screen layout for supporting Corporate Identity
- International Language Support (i18n)
- MasterData control on client side; synchronized and configurable
- monitoring of client applications
- change of logging behavior at runtime
- huge library of Java supporting object classes for client/server development
- generators for projects and dialogues

Platforms
- HP NonStop servers with OSS
- Unix: IBM AIX, HP-UX, Oracle Solaris, …
- Linux: Debian, SuSE, Red Hat, Ubuntu
- Microsoft Windows

System requirements
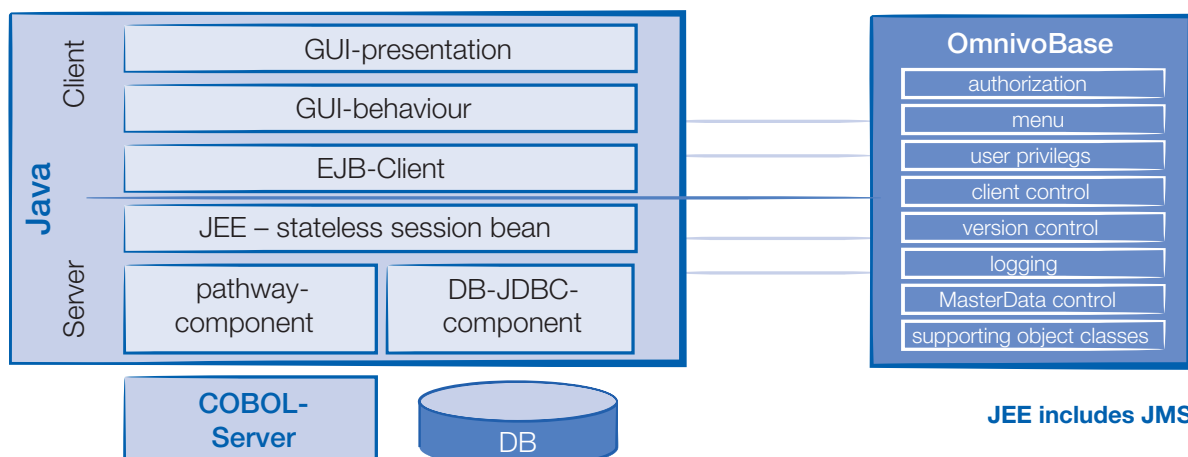- JEE App Server (HP NSASJ, IBM WebSphere, JBoss, Oracle, WebLogic)
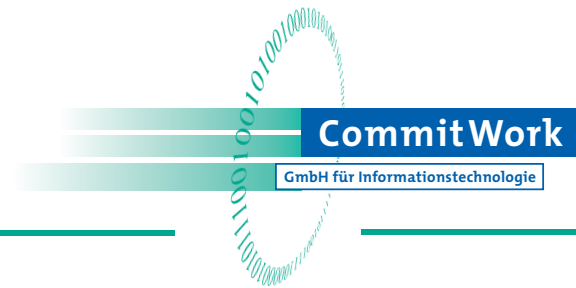- Tomcat
- NSJSP

Mobile devices
- Apple iPhone iOS (iPhone, iPad)
- Android devices
- Win 8 devices

Databases
- SQL/MX (optionally SQL / MP / Enscribe)
- MySQL
- PostgreSQL
- Oracle

Rich-Client using JEE

Client

Java

Server

GUI-presentation
GUI-behaviour
EJB-Client
JEE – stateless session bean
pathway-component
DB-JDBC-component

COBOL-Server

DB

OmnivoBase
authorization
menu
user privilegs
client control
version control
logging
MasterData control
supporting object classes

JEE includes JMS

System complexity, grown over many years, has to be thinned out and costly IT operation processes have to be streamlined. Using our modular software OmnivoBase provides the ideal tool for this kind of re-structuring. Our new software also allows different developer teams to develop applications in parallel and provides a unique base for all development projects.

The framework ensures independence for exchanging the communication- and presentation layer easily. Just the way it's needed: for more efficiency and shorter development cycles.

Two alternatives – one goal

OmnivoBase supports JEE communication as well as web services.

JEE communication requires a Java Application Server like JBoss. This solution can be deployed on each platform, carrying an appropriate App. Server. Fault tolerance and scalability are provided by using Application Servers in a cluster environment.

The alternative solution is using web services communicating with Tomcat, residing on HP NonStop. In this case scalability and fault tolerance is provided by involving Pathway's runtime environment.

No matter which web container you will decide for today, JBoss or Tomcat. By choosing OmnivoBase, you will have the optimal tool for supporting your future decisions. OmnivoBase, with its intelligent architecture, ensures your business processes, regardless the selected web container. For instance changing from Tomcat to JBoss is feasible in a very short period of time.

OmnivoBase provides each and every feature required for an instant project start: fast, flexible, cost effective!

Efficient software development

• minimizing time & cost for development

• avoiding redundancies

• avoiding sources of error

• ease of maintenance

Rich-Client using Tomcat

Client	GUI-presentation
	GUI-behaviour
Java	WS-Client
	WS*-Bean
Server	Pathway-component / DB-JDBC-component

COBOL-Server   DB

OmnivoBase
- authorization
- menu
- user privilegs
- client control
- version control
- logging
- MasterData control
- supporting object classes

JMS is replaced by Apache MQ

*web service

OmnivoBase

Building blocks for best performance

Visualization	• single or multiple windows support • International Language Support (i18n)
Authorization	• standardized login dialogue • user-, group-, domain admin services • LDAP synchronization with Active Directory and Open LDAP • SAP web portal SingleSignOn connectivity with ticketing exchange
Menus	• menu and program admin services
User privileges	• dialogue admin services
Client control	• monitoring and remote messaging services • remote shutdown services • support classes for connecting JMS
Version control	• error services and classes for handling version conflicts
Logging	• additional logging module classes • logging extensions for connecting to EMS
MasterData module	• object class library for handling data on client side; configurable for certain users
Dialogue inter-communication	• DataEvent bus
Databases	• SQL/MX • MySQL • PostgreSQL • Oracle
Omnivo DB wizard	• generator tool creating database object classes from existing databases

CommitWork – NonStop in the course of time

Since more than 15 years we are specialized providing migrations for our customers, from home-grown IT-service environments to New World's "Service Oriented Architecture" (SOA). The main objective is to provide simple, fast and efficient adaption of IT services to rapidly changing business processes. The main aspect here is to gain most benefits at lowest cost.

CommitWork GmbH, located in Dortmund Germany, is a consulting- and software firm, focused on HP NonStop- and Unix servers. Our solutions have proved successful in more than 100 IT projects. The base of our successes is tied to our excellent Java expertise, a deep "know how" in COBOL and the membership in "NonStopBrainPool" with a lot of very competent partners.

No matter, if you want to introduce a new IT system, or integrating applications and data from a new to be merged subsidiary, or planning to optimize your business processes: we support you by providing professional consulting, our software products and field-tested workshops to prepare your company for future challenges.

As an example, ThyssenKrupp Steel AG, where we integrated existing "legacy" business processes into an environment of new applications. We utilized OmnivoBase and we could do it with just little efforts.

CommitWork develops individual solutions for:

- easy migration, e. g. from COBOL to Java
- user authorization, to restrict non-authorized people to enter applications
- user related security functions, to enable only authorized appl. functions for specific users
- version control, to avoid using obsolete programs
- integration with your Corporate Design, to reflect your company in every single screen (mainly header and footing

In all our IT projects we are following a straight-forward philosophy: highest benefit, at low cost. The key for achieving this goal is introducing "Service Oriented Architecture" (SOA). Single system components are implemented as "services". So existing applications can easily be modified, extended, or optimized by just exchanging specific services. This also allows implementing new functions easier. The proper instruments for such an approach are programs, tools and modules included in our OmnivoTribe product family. Your company can not only react faster to rapid changes of your business requirements, but re-structuring your IT environment can also be used for cost reduction. Administration, maintenance and development for interfaces of different components within legacy system- and application environments, typically absorb up to 40 % of the IT budget. By introducing SOA, these costs can be cut by 30 % or even more. Our software family OmnivoTribe with its building blocks OmnivoBase, OmnivoBridge and OmnivoRSC was developed exactly for this purpose. You should profit from this cost advantage: in a team with your staff, CommitWork identifies your individual demand profile, defines optimal solutions and accompanies you on your way to the New World of SOA.

Contacts

Could we make you curious?

Please contact one of our specialists.

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