

Syslink

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About Syslink

Syslink is an independent SAP® Service Provider as well as a software developing firm. We are a certified SAP Hosting Partner since the year 2000, and a certified SAP Software Solution Partner since 2004. Syslink emerged from PricewaterhouseCoopers' outsourcing business in Switzerland, so we have 18 years worth of experience in SAP System Operation with a high level of staff continuity.

ZK x Syslink Xandria

ZK is used to provide user interface for Syslink Xandria, a smart and reliable System Management application focused on Enterprise-grade SAP Solutions and large-scale Database Environments. Syslink Xandria is effortless to install, there is no need to setup any implementation project. No consulting needed, no additional training required, no hidden costs. No more repetitive manual work. No additional overhead. Instead it acts as a thorough and reliable team member.

Name	Status	Age	System	Type	Customer	Last Refresh	System Role	Result
AGENTALIVE	131	00h 03m	navis	Paradeur Inc.	7m	Development	Development	Last message from Xandria Agent at at least 2:27:02 (01) (rm)ms ok
ZMR_MEMORY	131	00h 07m	andros_SMD_08	Paradeur Inc.	8m	Development	Development	Dispatcher @ 11.9 % (23 MB) of free available memory (200 MB) used Server @ 30.9 % (208 MB) of free available memory (200 MB) used
QMC_OUT_ERRQ	131	22h 04m	NET_Q01	Network Inc.	38m	Quality assurance	Quality assurance	Check result has been limited to 1038M characters 000-WH0M30000003241 has status VBERKOR since 2013-10-13 01:30:30 000-WH0M30000000024 has status VBERKOR since 2013-10-13 01:30:30 (...)
DB2_DIAGLOG	131	00h 04m	COM_TH1	Comcenter	7m	Test	Test	Check result has been limited to 1038M characters Found 302 records since 2013-08-30 15:42:05 in /R0227F0160205/amp/0302log.log (...)
DB2_DIAGLOG	131	00h 07m	COM_PA3	Comcenter	6m	Production	Production	Check result has been limited to 1038M characters Found 46 records since 2013-10-13 01:30:30 in /R0227F0160205/amp/0302log.log (...)
FILESYSTEMS	131	00h 20m	Indoquax	Comcenter	7m	Test	Test	1027 % used by 85.6 % (10.34 GB free)
HDR_Alerts	131	00h 23m	HANA1	Paradeur Inc.	12m	Education	Education	Alerts reported in last 60 minutes Errors @ High Pri: 1, Medium Pri: 0, Low Pri: 0 Timestamp: Wed Nov 14 2013 14:21:05 (...)
DNA_TABLESPACES	131	00h 14m	HAZ_P12	Paradeur Inc.	9m	Quality assurance	Quality assurance	PSAPS008 is used by 85.2 % (878.36 MB free)
PAGINGSPACE	131	00h 05m	info	Paradeur Inc.	6m	Production	Production	WARNING: TOTAL virtual memory: 55.04 GB, used: 51.89 GB (94.45 %) OK: Paging Space to Physical Memory Ratio: 72.00 %

Customer	Systems			Checks			Business Services			Monitoring Off Systems	
	Crit.	Warn.	OK	Crit.	Warn.	OK	Crit.	Warn.	OK	Name	Type
ANC Corp										chandra	Server
Boscraft										DHANA_PP1_01	SAP Instance
Comcenter										DIS_PP1	SAP System
Finance Consulting										DIS_PP1	SAP System
Genesoft										DIS_S41	SAP System
Hazard Inc.										F01ha	Server
Kings Industries										F01ha_S41_00	SAP Instance
Mattschorn AG										F01ha_S41_01	SAP Instance
Realtime										Frank	Server
Network Inc.										Frank_PP1_01	SAP Instance
Optimus Software										Frank_PP1_01	SAP Instance
Paradeur Inc.										Frank_PP1_01	SAP Instance
Sensipho											
Technical Hardware											
syslink											
Total	1	1	913	3	21	3214	0	2	1		

No.	System	Short Description	Time
6294	System change option for maintenance has been changed (number of changes: 4)		2013-11-18 14:14
6293	SAP basis release has been changed		2013-11-18 14:15
6292	ABAP component FI has been removed		2013-11-18 14:15
6291	ABAP component MESSCUT has been installed		2013-11-18 14:15
6290	ABAP component ST-PI has been upgraded		2013-11-18 14:15
6289	ABAP component ST-API has been upgraded		2013-11-18 14:15
6288	ABAP component SRM-Inv has been installed		2013-11-18 14:15
6287	ABAP component SAP_UI has been installed		2013-11-18 14:15

Architecture

Data Layer:

Data is stored either in a Microsoft SQL Server or a PostgreSQL database. MyBatis was decided as the Java persistence framework. The strengths of MyBatis are very good support for existing databases (which were originally not designed for a Java persistence layer), the support of multiple database vendors with no or very minor adaptations, and the excellent code generated from the MyBatis Generator.

Application Server:

We decided to run our web application with an embedded Jetty server. This approach makes installation very easy. But it is also possible to deploy it in any other Java application server (Apache Tomcat, Jetty, ...).

Communication Layer:

We use netty as communication framework to backend services.

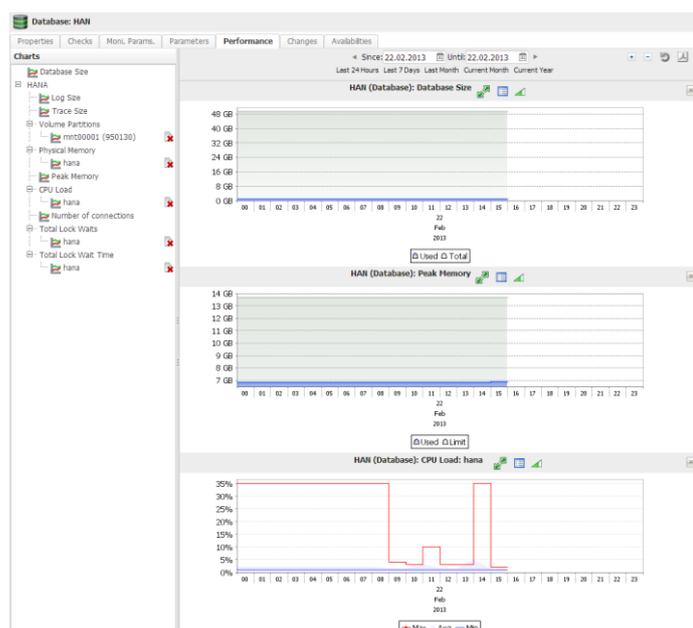
Other components:

- iText: PDF generation library, used for very large reports, including images, tables
- JFreeChart: chart library to generate charts
- Lucene: used to generate indexes search

Build Environment:

We use Maven/Hudson as our build environment. Module testing is performed with JUnit Tests (including ZATS). In addition we have automated Selenium based tests, which test browsers under real-life conditions.

“We were especially impressed of the development speed using ZK”

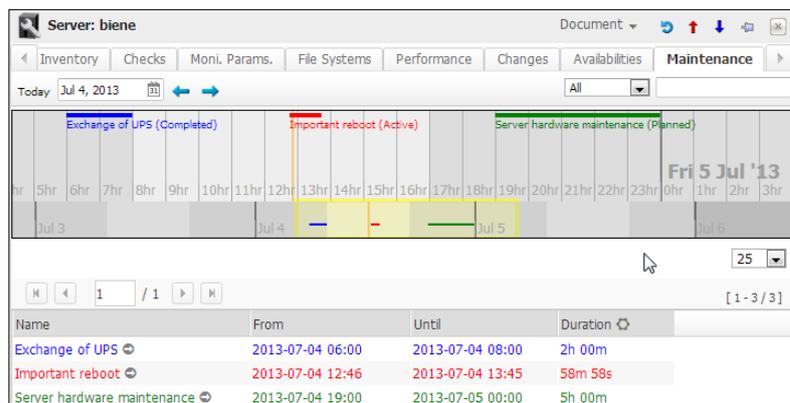


Why ZK

Our evaluation process came up with a short list containing Java Server Faces (ICEFaces, RichFaces), GWT, and ZK. The most important decision criteria were:

- development speed
- learning curve
- small footprint
- support of various operating systems, application servers & browsers.

In addition it was also important to build a web application that behaves like a desktop application providing all the bells and whistles users are familiar with nowadays. It turned out the client centric approach of GWT was a no-go. Our application is very data centric and implementing data loading from servers would require too much effort. The JSF based solutions tend to be very complex. We were not able to build a simple test application in a reasonable time.



So, it turned out that ZK is best suited for our needs. We were especially impressed of the development speed using ZK. The server centric approach makes it very easy to access all our server resources like the database and other web services. With ZK it is possible to build a web application that behaves like a desktop application. The resulting code is clean, well-structured and easy to understand.

“ZK code is clean, very easy to understand and easy to maintain. New developers are ready to implement new features within a very short timeframe”

Best of ZK

- The easy and very powerful way of writing web applications.
- The development speed; we can focus on our core business instead of web technologies
- The excellent support of different browsers, including many old browser versions
- The good performance and low footprint

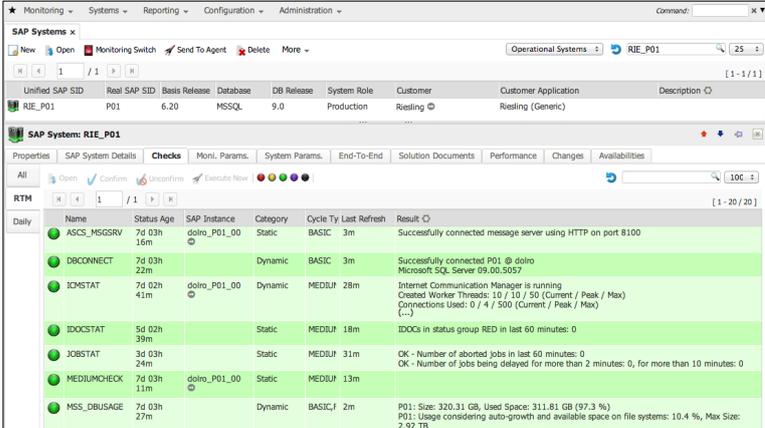
- ZK code is clean, very easy to understand and easy to maintain. New developers are ready to implement new features within a very short timeframe.
- And, it simply works, we had never had and severe ZK related problems. ZK proved to be a very mature framework.

The Result

The result is an application, which can be used with almost no training. The little training that is required focuses on the business logic of syslink Xandria, not on the user interface. The core features are:

- Powerful lists showing domain objects. Lists are powered with a Lucene based search, column moving and resizing (persistent), multi selection, context menu, context sensitive actions, and paging.
- Multiple tabs with different content. Tabs can be moved, can be added to favorites
- Object detail dialogs.

As the legacy user interface is replaced now, we can reduce resources put in user interface development. Nonetheless we are still developing new functions and continuously improve existing ones.



The screenshot shows the SAP Systems monitoring interface. At the top, there are navigation tabs: Monitoring, Systems, Reporting, Configuration, and Administration. Below this is a search bar and a table of system details for 'RIE_P01'. The main area displays a table of system checks (RTM) with columns for Name, Status, Age, SAP Instance, Category, Cycle Ty, Last Refresh, and Result. The table contains several rows of checks, all with a green status icon, indicating successful or healthy states.

Name	Status	Age	SAP Instance	Category	Cycle Ty	Last Refresh	Result
ASCS_MGSRV	7d 03h 16m	doiro_P01_00	Static	BASIC	3m		Successfully connected message server using HTTP on port 8100
DBCONNECT	7d 03h 22m	doiro_P01_00	Dynamic	BASIC	3m		Successfully connected P01 @ doiro Microsoft SQL Server 09.00.5057
ICMSTAT	7d 02h 41m	doiro_P01_00	Dynamic	MEDLJ	28m		Internet Communication Manager is running Created Worker Threads: 10 / 10 / 50 (Current / Peak / Max) Connections Used: 0 / 4 / 500 (Current / Peak / Max) (--)
IDOCSTAT	5d 02h 39m		Static	MEDLJ	18m		IDOCs in status group RED in last 60 minutes: 0
JOBSTAT	3d 03h 24m		Static	MEDLJ	31m		OK - Number of aborted jobs in last 60 minutes: 0 OK - Number of jobs being delayed for more than 2 minutes: 0, for more than 10 minutes: 0
MEDLUMCHECK	7d 03h 31m	doiro_P01_00	Static	MEDLJ	13m		
MSS_DBSUSAGE	7d 03h 27m		Dynamic	BASIC,F	2m		P01: Size: 320.31 GB, Used Space: 311.81 GB (97.3 %) P01: Usage considering auto-growth and available space on file systems: 10.4 %, Max Size: 2.92 TB

About ZK

ZK is the leading enterprise Java Web framework with more than 1,500,000 downloads. ZK is deployed by a large number of Fortune Global 500 companies, including Barclays, Allianz, Swiss RE, Roche, Deutsche Bank, Sony, Sun Microsystems, and Toyota, providing them with the ability to rapidly create rich Ajax enterprise level applications.

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