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Software AG Zementis Predictive Analytics 10.11.0.1

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Release Notes:

- * A Zementis Product License Key is required in order to use
Zementis
Server. Please contact Software AG directly to obtain your
Product
License Key.
- * If you have an existing Zementis Server installation, please
take a backup
of artifacts uploaded in Zementis Server (Models & Resources).
Sources for
these artifacts can be downloaded from Zementis UI.

Alternatively, you can use the migration script available under migration

folder of Zementis 10.11.0.1 distribution package.

- * If Zementis Server is deployed as a Java library:
 - Sources for PMML artifacts can be downloaded by invoking `ModelsServiceProvider.exportSource(modelName)` and `LibraryManager.exportResourceFile(name)` respectively.
 - Sources for ONNX artifacts can be downloaded by invoking `OnnxModelService.exportSource(modelId)` and `OnnxResourceService.exportResourceFile(resourceId)` respectively.
- * Upgrading to Zementis 10.11.0.1 will require a clean repository store.

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Feature Log:

- * Brand new UI built with Angular 11.
- * Support for ONNX model, Resource, Pipeline management in REST API and UI.
- * Zementis REST API documented with OpenAPI 3.0 specification.
- * Live documentation of Zementis REST API available in Swagger UI.
- * Support for ONNX versions 1.7 down to 1.2.
- * Support for ONNX OpSet version 12 and ONNX ML OpSet version 2.
- * Discontinued support for Deep Neural Networks in PMML.

Since Version 10.7.0:

- * Support for ONNX models, ONNX resources, and ONNX pipelines via Java API.
- * Support for PMML 4.4.1.
- * Support for multi-variate State Space models.
- * Support for Confidence Intervals for State Space models.
- * Support for multi-valued output for multi-step forecasts and confidence intervals.
- * Improved the correction process on known syntactic and semantic problems found in the PMML.
- * Support for MaximumLikelihoodStats with KalmanState representation in ARIMA models.
- * Support for Confidence Intervals for non-seasonal ARIMA models.

Since Version 10.5.0:

- * Support for Object Detection using RetinaNet.
- * Support for Seasonal ARIMA Time Series Models.
- * Support for Python script execution in PMML.

- * Compliance with PMML 4.4 release features:
 - support for Lag@aggregation=stddev
 - support for Constant@missing
 - support for Anomaly Detection release schema

Since Version 10.4:

- * New UI based on Angular framework.
- * Zementis Server available as a Docker image.
- * Enhanced support for CNNs with Pooling Layer optimizations.
- * Support for Lag Expressions.
- * Updated REST API to support authentication tokens and license management.
- * Compliance with upcoming PMML 4.4 release features:
 - Support for multiple model methods "weightedSum" and "weightedMedian"
 - Support for new MiningField@invalidValueReplacement attribute
 - Support for new Lag@aggregate attribute
 - Support for new Built-in Functions: isValid, isNotValid, modulo(%), sin, asin, sinh, cos, acos, cosh, tan, atan, tanh, rint, hypot, ln1p, expm1
- * Integration with Software AG Update Manager for fix delivery.

Since Version 10.3:

- * Visualize Model KPIs including memory metrics and prediction metrics.
- * Support for Anomaly Detection models based on isolation forest and one-class support vector machines.
- * Support life-cycle operations and configuration management via SAG Command Central.
- * Adopted Level 2 of DBP common design language.

Since Version 10.2:

- * Support for PMML representation of MobileNets, an efficient Convolutional Neural Networks architecture for mobile vision applications.
- * Updated the REST API to OpenAPI Specification 2.0 and REST UI to Swagger UI 3.9.0.
- * Upgraded JDK compatibility to JDK 8.

Since Version 10.1:

- * Optimized processing of large tree-ensemble models and deep learning

models.
* New design for Zementis Web Console.
* Portable Java client for REST services that allows full duplex streaming for batch apply operation.
* Improved message reporting in PMML when performing syntactic and semantic checks.

Since Version 5.0:

* Compatibility and automatic model conversion to PMML 4.3.
* Support for deep learning models.
* Support for k-NN algorithm.
* New design for Zementis Web Console.
* Download/upload serialized model:
- Protect and deliver your proprietary models with Zementis without revealing model internals, i.e., without exposing the PMML model to a 3rd party
* Model activation/de-activation at runtime:
- De-activation evicts model from JVM heap, allowing Zementis Server to manage more models than available heap
* Support for binary (octet-stream) data type.
* Asynchronous processing for data residing on Amazon AWS S3 bucket via REST/Web Service API.
* Improved support for STATISTICA models.

Since Version 4.2.5:

* Added support for managing custom resources via Web Service and RESTful API.
* Simplified Java API for easy integration with existing Java applications.
* Fast model upload option for PMML files that do not require comprehensive syntactic and semantic corrections.
* Added concurrency and batch-size parameters to Zementis SOAP Web Service and Zementis RESTful API for batch scoring.
* Zementis Server certified for deployment on Apache Tomcat 7.x. and 8.x.
* Compatibility and automatic model conversion to PMML 4.2.1.
* Optimized data pre- and post-processing including input validation for handling invalid, missing and outlier values.

Since Version 4.0:

- * Compatibility and automatic model conversion to PMML 4.2.
Support for all the new features introduced in PMML 4.2, including:
 - TextIndex element for text mining
 - Built-in functions matches, replace and concat
 - ComplexPartialScore element for Scorecards
 - TargetValueStats element for Naive Bayes classifiers
 - Usage type change from "predicted" to "target"
 - Simplified Output element features and support for segment id for multiple models
- * Automatic placement of Output element in a PMML file if missing and creation of an output field to represent the predicted value.
- * Deprecated Zementis extensions to PMML 4.1:
 - Built-in functions zementis:matches, zementis:replace and zementis:concat
 - Scorecard extension "PARTIAL_SCORE_FIELD"
- * Optimized Random Forest model processing to speed up loading time and reduce memory footprint.
- * Added RESTful API on top of Zementis scoring engine. This feature is available when Zementis is deployed as a server.
- * Added 'explainApply' operation to Zementis SOAP Web Service.

Since Version 3.8:

- * PMML conversion/correction is by-passed if an already Zementis-converted PMML file is uploaded.
- * Users can now upload compressed PMML file (zip/gzip). The PMML file needs to be the only entry in the zip/gzip file.
- * In a multiple-model, users can now access specific segment outputs from the top model.

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Questions/Support:

If you need technical support, please visit our support site at :

<http://softwareag.com/support>
<http://support.zementis.com>

Please contact Software AG Zementis for additional assistance by
visiting :

<http://empower.softwareag.com/ContactSupport/>