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org.springframework.transaction.annotation

Enum Propagation

java.lang.Object java.lang.Enum<Propagation> org.springframework.transaction.annotation.Propagation

All Implemented Interfaces:

Serializable, Comparable Propagation

public enum Propagation extends Enum<Propagation>

Enumeration that represents transaction propagation behaviors for use with the Transactional annotation, corresponding to the TransactionDefinition interface.

Since:

1.2

Author:

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Enum Constant Summary

Enum Constants

Enum Constant and Description

MANDATORY

Support a current transaction, throw an exception if none exists.

NESTED

Execute within a nested transaction if a current transaction exists, behave like PROPAGATION_REQUIRED else.

NEVER

Execute non-transactionally, throw an exception if a transaction exists.

NOT SUPPORTED

Execute non-transactionally, suspend the current transaction if one exists.

REQUIRED

Support a current transaction, create a new one if none exists.

REQUIRES NEW

Create a new transaction, and suspend the current transaction if one exists.

SUPPORTS

Support a current transaction, execute non-transactionally if none exists.

Method Summary

All Methods Static Methods Instance Methods Concrete Methods

Modifier and Type Method and Description

int value()

static Propagation valueOf(String name)

Returns the enum constant of this type with the specified name.

static Propagation[] values()

Returns an array containing the constants of this enum type, in the order

they are declared.

Methods inherited from class java.lang.Enum

clone, compareTo, equals, finalize, getDeclaringClass, hashCode, name, ordinal,
toString, valueOf

Methods inherited from class java.lang.Object

getClass, notify, notifyAll, wait, wait, wait

Enum Constant Detail

REQUIRED

public static final Propagation REQUIRED

Support a current transaction, create a new one if none exists. Analogous to EJB transaction attribute of the same name.

This is the default setting of a transaction annotation.

SUPPORTS

public static final Propagation SUPPORTS

Support a current transaction, execute non-transactionally if none exists. Analogous to EJB transaction attribute of the same name.

Note: For transaction managers with transaction synchronization, PROPAGATION_SUPPORTS is slightly different from no transaction at all, as it defines a transaction scope that synchronization will apply for. As a consequence, the same resources (JDBC Connection, Hibernate Session, etc) will be shared for the entire specified scope. Note that this depends on the actual synchronization configuration of the transaction manager.

See Also:

AbstractPlatformTransactionManager.setTransactionSynchronization(int)

MANDATORY

public static final Propagation MANDATORY

Support a current transaction, throw an exception if none exists. Analogous to EJB transaction attribute of the same name.

REQUIRES NEW

public static final Propagation REQUIRES NEW

Create a new transaction, and suspend the current transaction if one exists. Analogous to the EJB transaction attribute of the same name.

NOTE: Actual transaction suspension will not work out-of-the-box on all transaction managers. This in particular applies to JtaTransactionManager, which requires the

javax.transaction.TransactionManager to be made available it to it (which is server-specific in standard Java EE).

See Also:

JtaTransactionManager.setTransactionManager(javax.transaction.TransactionManager)

NOT_SUPPORTED

public static final Propagation NOT_SUPPORTED

Execute non-transactionally, suspend the current transaction if one exists. Analogous to EJB transaction attribute of the same name.

NOTE: Actual transaction suspension will not work out-of-the-box on all transaction managers. This in particular applies to JtaTransactionManager, which requires the

javax.transaction.TransactionManager to be made available it to it (which is server-specific in standard Java EE).

See Also:

JtaTransactionManager.setTransactionManager(javax.transaction.TransactionManager)

NEVER

public static final Propagation NEVER

Execute non-transactionally, throw an exception if a transaction exists. Analogous to EJB transaction attribute of the same name.

NESTED

public static final Propagation NESTED

Execute within a nested transaction if a current transaction exists, behave like PROPAGATION_REQUIRED else. There is no analogous feature in EJB.

Note: Actual creation of a nested transaction will only work on specific transaction managers. Out of the box, this only applies to the JDBC DataSourceTransactionManager when working on a JDBC 3.0 driver. Some JTA providers might support nested transactions as well.

See Also:

DataSourceTransactionManager

Method Detail

values

```
public static Propagation[] values()
```

Returns an array containing the constants of this enum type, in the order they are declared. This method may be used to iterate over the constants as follows:

```
for (Propagation c : Propagation.values())
    System.out.println(c);
```

Returns:

an array containing the constants of this enum type, in the order they are declared

valueOf

```
public static Propagation valueOf(String name)
```

Returns the enum constant of this type with the specified name. The string must match *exactly* an identifier used to declare an enum constant in this type. (Extraneous whitespace characters are not permitted.)

Parameters:

name - the name of the enum constant to be returned.

Returns:

the enum constant with the specified name

Throws:

IllegalArgumentException - if this enum type has no constant with the specified name

NullPointerException - if the argument is null

value

public int value()

Spring Framework

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