Expressions

Description

> The Expression signifies that an element that extends the ExpressionType and is a member of the Expression substitution group shall appear in its place. The Expression is not used directly in a policy.

Expressions are elements that allow to evaluate conditions within rules and policies to make access decisions.

Related objects

- **Variables**
- **Conditions**

Standard attributes

The attributes depend on the Expression type selected.

EXPRESSION TYPE	OTHER FIELDS	DATA TYPE
Attribute value	**Value**: alfanumeric field	Available data types.

EXPRESSION TYPE	OTHER FIELDS	DATA TYPE
Resource	**Attribute designator** • URL • Soffid object • Account name • System name • Login name • Vault folder • Access level	Available data types.
Subject	**Attribute designator** • User • User attributes • Account • System • Role • Group • Primary Group • IP Address	Available data types.
Action	**Attribute designator**: • method	Available data types.
Environment	**Attribute designator**: • Country • Current Time • Current Date • Current DateTime	Available data types.
Attribute selector	**Attribute selector**: alphanumeric field	Available data types.
Variable	**Variable**: alfanumeric field	--
Function	**Function type**: • Comparison • Arithmetic • Conversions • Date conversions • Boolean Operators • String Functions • Set Functions • Bag Functions • HigherOrderBagFunctions • XPath	Available data types.

EXPRESSION TYPE	OTHER FIELDS	DATA TYPE
Function name	**Function type**: • Comparison • Arithmetic • Conversions • Date conversions • Boolean Operators • String Functions • Set Functions • Bag Functions • HigherOrderBagFunctions • XPath **Function**: the value depends on the function type selected.	Available data types.

Data Type

Available data types

- String:
- Boolean
- Integer
- Double
- Date and time
- Date
- Time
- HEX-encoded binary
- URI
- Year-month duration
- Day-time duration
- Base 64 binary
- X. 500 name
- RFC822 name

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https://docs.oasis-open.org/xacml/2.0/access_control-xacml-2.0-core-spec-os.pdf

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