

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: alphanumeric field	<u>Available data types.</u>

EXPRESSION TYPE	OTHER FIELDS	DATA TYPE
Resource	Attribute designator <ul style="list-style-type: none"> • URL • Soffid object • Account name • System name • Login name • Vault folder • Access level 	<u>Available data types.</u>
Subject	Attribute designator <ul style="list-style-type: none"> • User • User attributes • Account • System • Role • Group • Primary Group • IP Address 	<u>Available data types.</u>
Action	Attribute designator: <ul style="list-style-type: none"> • method 	<u>Available data types.</u>
Environment	Attribute designator: <ul style="list-style-type: none"> • Country • Current Time • Current Date • Current DateTime 	<u>Available data types.</u>
Attribute selector	Attribute selector: alphanumeric field	<u>Available data types.</u>
Variable	Variable: alphanumeric field	--
Function	Function type: <ul style="list-style-type: none"> • Comparison • Arithmetic • Conversions • Date conversions • Boolean Operators • String Functions • Set Functions • Bag Functions • HigherOrderBagFunctions • XPath 	<u>Available data types.</u>

EXPRESSION TYPE	OTHER FIELDS	DATA TYPE
Function name	<p>Function type:</p> <ul style="list-style-type: none"> • Comparison • Arithmetic • Conversions • Date conversions • Boolean Operators • String Functions • Set Functions • Bag Functions • HigherOrderBagFunctions • XPath <p>Function: the value depends on the function type selected.</p>	<u>Available data types.</u>

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

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

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