

A satellite view of Earth from space, showing the curvature of the planet and the glow of city lights at night. The lights are concentrated in the lower half of the image, forming a dense network of yellow and orange points and lines against the dark blue of the oceans and the black of space. The upper half of the image shows the bright blue of the Earth's atmosphere and the white glow of the sun's rays.

Title

9. CADIP/AUXIP/PRIP OData support

DEFENCE AND SPACE

Issue Rev. 43

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This page summarizes the OData compliance (as of February 2026) of the various CSC systems regarding the standard OData v4 operators and string functions:

https://docs.oasis-open.org/odata/odata/v4.01/odata-v4.01-part1-protocol.html#sec_BuiltinFilterOperations

https://docs.oasis-open.org/odata/odata/v4.01/os/part2-url-conventions/odata-v4.01-os-part2-url-conventions.html#sec_QueryOptions

Source code of the tests run:

https://github.com/RS-PYTHON/rs-testsuite/tree/main/manual_tests

1 CADIP

Operator / String Function	Description	ESA ICD	Test request	MPS	MTI	NSG	SGS	SSC
eq	Equal	✓ Examples	Satellite eq 'S1A'	✓	✓	✓	✓	✓
ne	Not equal	⚠ No mention	Satellite ne 'S1A'	✓	✓	✓	✓	✓
gt	Greater than	✓ Examples	PublicationDate gt 2026-02-01T00:00:00.000Z	✓	✓	✓	✓	✓
ge	Greater than or equal	⚠ No mention	PublicationDate ge 2026-02-01T00:00:00.000Z	✓	✓	✓	✓	✓
lt	Less than	⚠ No mention	PublicationDate lt 2026-02-01T00:00:00.000Z	✓	✓	✓	✓	✓
le	Less than or equal	⚠ No mention	PublicationDate le 2026-02-01T00:00:00.000Z	✗	✓	✓	✓	✓
in	Is a member of	✓ Req. 3.3.1.4	Satellite in ('S1A','S1C')	✓	✓	✓	✓	✓
and	Logical and	✓ Req. 3.3.1.4	Satellite eq 'S1C' and PublicationDate lt 2026-01-01T00:00:00.000Z	✓	✓	✓	✓	✓
or	Logical or	✓ Req. 3.3.1.4	Satellite eq 'S1A' or Satellite eq 'S1C'	✓	✓	✓	✓	✓
not	Logical negation	✓ Req. 3.3.1.4	not endswith(Name,'0') not(Satellite eq 'S1A') not (Satellite eq 'S1A')	✓ ✗ ✓	✓ ✗ ✓	✓ ✗ ✓	✓ ✓ ✓	✓ ✗ ✓
()	Precedence grouping	⚠ No mention	Satellite eq 'S1A' and (contains(SessionId,'2000')) or contains(SessionId,'3000'))	✓	✓	✓	✓	✓
concat		⚠ No mention	concat(Satellite,'Z') eq 'S1AZ'	✗	✓	✓	✓	✓
contains		✓ Req. 3.4.1.2	contains(SessionId,'2000')	✓	✓	✓	✓	✓
endswith		✓ Req. 3.4.1.2	endswith(Name,'0')	✓	✓	✓	✓	✓
indexof		⚠ No mention	indexof(Satellite,'A') eq 2	✗	✗	✗	✓	✓
length		⚠ No mention	length(Satellite) eq 3	✗	✓	✓	✓	✓
startswith		✓ Req. 3.4.1.2	startswith(SessionId,'S1A')	✓	✓	✓	✓	✓

Operator / String Function	Description	ESA ICD	Test request	MPS	MTI	NSG	SGS	SSC
substring		⚠ No mention	substring(Satellite,1) eq '1A'	✗	✓	✓	✓	✓
matchesPattern		⚠ No mention	matchesPattern(Satellite,'%5ES.*A\$')	✗	✗	✗	✗	✓
tolower		⚠ No mention	tolower(Satellite) eq 's1a'	✗	✓	✓	✓	✓
toupper		⚠ No mention	toupper(Satellite) eq 'S1A'	✗	✓	✓	✓	✓
trim		⚠ No mention	trim(Satellite) eq 'S1A'	✗	✓	✓	✓	✓

2 AUXIP

Operator / String Function	Description	ESA ICD	Test request	ADGS
eq	Equal	✓ Examples	ContentType eq 'application/octet-stream'	✓
ne	Not equal	⚠ No mention	ContentType ne 'application/zip' PublicationDate ne 2026-03-01T00:00:00.000Z Name ne 'foo'	✓ ✓ ✓
gt	Greater than	✓ Examples	PublicationDate gt 2026-02-01T00:00:00.000Z	✓
ge	Greater than or equal	⚠ No mention	PublicationDate ge 2026-02-01T00:00:00.000Z	✓
lt	Less than	✓ Examples	PublicationDate lt 2026-02-01T00:00:00.000Z	✓
le	Less than or equal	⚠ No mention	PublicationDate le 2026-02-01T00:00:00.000Z	✓
in	Is a member of	✓ Req. 3.3.1.5	ContentType in ('application/octet-stream','foo')	✓
and	Logical and	✓ Req. 3.3.1.5	ContentType eq 'application/octet-stream' and PublicationDate lt 2026-01-01T00:00:00.000Z	✓
or	Logical or	✓ Req. 3.3.1.5	ContentType eq 'application/octet-stream' or ContentType eq 'foo'	✓
not	Logical negation	✓ Req. 3.3.1.5	not endswith(Name,'p') not(ContentType eq 'application/zip') not (ContentType eq 'application/zip')	✓ ✗ ✓
()	Precedence grouping	⚠ No mention	ContentType eq 'application/octet-stream' and (contains(Name,'2000') or contains(Name,'3000'))	✓
concat		⚠ No mention	concat(ContentType,'Z') eq 'application/octet-streamZ'	✓
contains		✓ Req. 3.3.1.1	contains(Name,'2000')	✓
endswith		✓ Req. 3.3.1.1	endswith(Name,'p')	✓
indexof		⚠ No mention	indexof(ContentType,'p') eq 1	✓

Operator / String Function	Description	ESA ICD	Test request	ADGS
length		⚠ No mention	length(ContentType) eq 24	✓
startswith		✓ Req. 3.3.1.1	startswith(Name,'S1A')	✓
substring		⚠ No mention	substring(ContentType,23) eq 'm'	✗
matchesPattern		⚠ No mention	matchesPattern(ContentType,'%5Ea pplication/. *m\$')	✗
tolower		⚠ No mention	tolower(ContentType) eq 'application/octet-stream'	✓
toupper		⚠ No mention	toupper(ContentType) eq 'APPLICATION/OCTET-STREAM'	✓
trim		⚠ No mention	trim(ContentType) eq 'application/ octet-stream'	✓

3 PRIP

Operator / String Function	Description	ESA ICD	Test request	S1A	S1C	S2A S2C	S2B	S3A	S3B
eq	Equal	✓ Examples	ContentType eq 'application/ octet-stream' ProductionType eq OData.CSC.ProductionType's systematic_production' Attributes/ OData.CSC.StringAttribute/ any(att:att/Name eq 'orbitDirection' and att/ OData.CSC.StringAttribute/ Value in ('ASCENDING','ascending','D ESCENDING','descending'))	✗ ✓	✗ ✗ ✓	✗ ✓ ✗	✗ ✓ ✗	✓ ✓ ✓	✗ ✓ ✓
ne	Not equal	⚠ No mention	ContentLength ne 0 ContentType ne 'application/ octet-stream' ProductionType ne OData.CSC.ProductionType's systematic_production' Attributes/ OData.CSC.StringAttribute/ any(att:att/Name eq 'orbitDirection' and att/ OData.CSC.StringAttribute/ Value ne 'DESCENDING')	✓ ✗ ? ✗	✓ ✗ ✗ ✓	✓ ✗ ? ✗	✗ ✗ ? ✗	✓ ? ? ✓	✓ ✗ ? ✓
gt	Greater than	✓ Examples	PublicationDate gt 2026-02-01T00:00:00.000Z	✓	✓	✓	✓	✓	✓
ge	Greater than or equal	⚠ No mention	PublicationDate ge 2026-02-01T00:00:00.000Z	✓	✓	✓	✓	✓	✓
lt	Less than	✓ Examples	PublicationDate lt 2026-12-01T00:00:00.000Z	✓	✓	✓	✓	✓	✓
le	Less than or equal	⚠ No mention	PublicationDate le 2026-12-01T00:00:00.000Z	✓	✓	✓	✓	✓	✓

Operator / String Function	Description	ESA ICD	Test request	S1A	S1C	S2A S2C	S2B	S3A	S3B
in	Is a member of	✓ Req. 3.3.1.7	ContentType in ('application/ octet-stream','application/ zip') ProductionType in (OData.CSC.ProductionType' systematic_production',OData.CSC.ProductionType'on- demand default') Attributes/ OData.CSC.StringAttribute/ any(att:att/Name eq 'orbitDirection' and att/ OData.CSC.StringAttribute/ Value in ('ASCENDING','ascending','D ESCENDING','descending'))	✗ ✗ ✓	✗ ✗ ✓	✗ ✗ ✗	✗ ✗ ✗	✓ ✗ ✓	✗ ✗ ✓
and	Logical and	✓ Req. 3.3.1.7	PublicationDate gt 2026-02-01T00:00:00.000Z and PublicationDate lt 2026-12-01T00:00:00.000Z	✓	✓	✓	✓	✓	✓
or	Logical or	✓ Req. 3.3.1.7	PublicationDate gt 2026-02-01T00:00:00.000Z or PublicationDate lt 2026-12-01T00:00:00.000Z	✓	✓	✓	✓	✓	✓
not	Logical negation	✓ Req. 3.3.1.7	not endswith(Name,'l')	✓	✓	✓	✓	✓	✓
()	Precedence grouping	⚠ No mention	PublicationDate gt 2026-02-01T00:00:00.000Z and (contains(Name,'2000') or contains(Name,'3000'))	✓	✓	✓	✓	✓	✓
concat		⚠ No mention	concat(ContentType,'Z') eq 'application/octet-streamZ'	✗	✗	✗	✗	✗	✗
contains		✓ Req. 3.3.1.1	contains(Name,'2000')	✓	✓	✓	✓	✓	✓
endswith		✓ Req. 3.3.1.1	endswith(Name,'p') or endswith(Name,'r')	✓	✓	✓	✓	✓	✓
indexof		⚠ No mention	indexof(Name,'.') gt 1	✗	✗	✗	✗	✗	✗
length		⚠ No mention	length(ContentType) gt 10	✗	✗	✗	✗	✓	✗

Operator / String Function	Description	ESA ICD	Test request	S1A	S1C	S2A S2C	S2B	S3A	S3B
startswith		✓ Req. 3.3.1.1	startswith(Name,'S')	✓	✓	✓	✓	✓	✓
substring		⚠ No mention	substring(ContentType,23) eq 'm'	✗	✗	✗	✗	✗	✗
matchesPattern		⚠ No mention	matchesPattern(ContentType, '%5Eapplication/. *m\$')	✗	✗	✗	✗	✗	✗
tolower		⚠ No mention	tolower(ContentType) eq 'application/octet-stream'	✗	✗	✗	✗	✗	✗
toupper		⚠ No mention	toupper(ContentType) eq 'APPLICATION/OCTET- STREAM'	✗	✗	✗	✗	✗	✗
trim		⚠ No mention	trim(ContentType) eq 'application/octet-stream'	✗	✗	✗	✗	✓	✗

9. CADIP/AUXIP/PRIP OData support

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