

The background of the slide is a photograph taken from an airplane window, showing a coastal city at night. The city lights are reflected in the dark blue water below, creating a pattern of bright yellow and white dots against the deep blue of the ocean. The sky above is a lighter shade of blue with some wispy clouds.

Title

9. CADIP/AUXIP/PRIP OData support

DEFENCE AND SPACE

Issue Rev. 40

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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')	✓	✓	✓	✓	✓
()	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')	✓	✓	✓	✓	✓
substring		⚠ No mention	substring(Satellite,1) eq '1A'	✗	✓	✓	✓	✓

Operator / String Function	Description	ESA ICD	Test request	MPS	MTI	NSG	SGS	SSC
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/octet-stream'	✗
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')	✓
()	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	✓
length		⚠ No mention	length(ContentType) eq 24	✓
startswith		✓ Req. 3.3.1.1	startswith(Name,'S1A')	✓
substring		⚠ No mention	substring(ContentType,23) eq 'm'	✗

Operator / String Function	Description	ESA ICD	Test request	ADGS
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'	✓

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'systematic_production' Attributes/ OData.CSC.StringAttribute/ any(att:att/Name eq 'orbitDirection' and att/ OData.CSC.StringAttribute/ Value in ('ASCENDING','ascending','DESCENDING','descending'))	✗ ✓ ✓	✗ ✗ ✓	✗ ✓ ✗	✗ ✓ ✗	✓ ✓ ✓	✗ ✓ ✓
ne	Not equal	⚠ No mention	ContentLength ne 0 ContentType ne 'application/octet-stream' ProductionType ne OData.CSC.ProductionType'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','DESCENDING','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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