

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. 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. 43

## Table of Content

|               |   |
|---------------|---|
| 1 CADIP ..... | 2 |
| 2 AUXIP ..... | 4 |
| 3 PRIP .....  | 6 |

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/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](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](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')<br>not(Satellite eq 'S1A')<br>not (Satellite eq 'S1A')     | ✓<br>✗<br>✓ | ✓<br>✗<br>✓ | ✓<br>✗<br>✓ | ✓<br>✓<br>✓ | ✓<br>✗<br>✓ |
| ()                         | 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\$1') | ✗   | ✗   | ✗   | ✗   | ✓   |
| 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'<br>PublicationDate ne 2026-03-01T00:00:00.000Z<br>Name ne 'foo'          | ✓<br>✓<br>✓ |
| 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')<br>not(ContentType eq 'application/zip')<br>not (ContentType eq 'application/zip') | ✓<br>✗<br>✓ |
| ()                         | 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   | ✓           |

| <b>Operator / String Function</b> | <b>Description</b> | <b>ESA ICD</b> | <b>Test request</b>                                | <b>ADGS</b> |
|-----------------------------------|--------------------|----------------|--|-------------|
| 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,'%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<br>S2C  | S2B         | S3A           | S3B           |
|----------------------------|-----------------------|--------------|---|------------------|-------------|-------------|-------------|---------------|---------------|
| eq                         | Equal                 | ✓ Examples   | ContentType eq 'application/octet-stream'<br><br>ProductionType eq OData.CSC.ProductionType'systematic_production'<br><br>Attributes/<br>OData.CSC.StringAttribute/<br>any(att:att/Name eq<br>'orbitDirection' and att/<br>OData.CSC.StringAttribute/<br>Value in<br>('ASCENDING','ascending','DESCENDING','descending')) | ✗<br>✓<br>✓      | ✗<br>✗<br>✓ | ✗<br>✓<br>✗ | ✗<br>✓<br>✗ | ✓<br>✓<br>✓   | ✗<br>✓<br>✓   |
| ne                         | Not equal             | ⚠ No mention | ContentLength ne 0<br><br>ContentType ne 'application/octet-stream'<br><br>ProductionType ne OData.CSC.ProductionType'systematic_production'<br><br>Attributes/<br>OData.CSC.StringAttribute/<br>any(att:att/Name eq<br>'orbitDirection' and att/<br>OData.CSC.StringAttribute/<br>Value ne 'DESCENDING')                 | ✓<br>✗<br>✗<br>✗ | ✓<br>✗<br>✓ | ✓<br>✗<br>✗ | ✗<br>✗<br>✗ | ✓<br>? ?<br>✓ | ✓<br>✗<br>? ? |
| 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')<br>ProductionType in (OData.CSC.ProductionType'systematic_production',OData.CSC.ProductionType'on-demand default')<br>Attributes/OData.CSC.StringAttribute/any(att:att/Name eq 'orbitDirection' and att/OData.CSC.StringAttribute/Value in ('ASCENDING','ascending','DESCENDING','descending')) | ✗<br>✗<br>✓ | ✗<br>✗<br>✓ | ✗<br>✗<br>✗ | ✗<br>✗<br>✗ | ✓<br>✓<br>✓ | ✗<br>✗<br>✓ |
| 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

© Copyright Airbus - Defence and Space

This document and all information contained herein is the sole property of Airbus. No intellectual property rights are granted by the delivery of this document or the disclosure of its content. This document shall not be reproduced or disclosed to a third party without the expressed written consent of Airbus. This document and its content shall not be used for any purpose other than that for which it is supplied.

Airbus, its logo and product names are registered trademarks.